

# TEAC<sup>®</sup>

## SERVICE MANUAL

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# CTF803

## FLAT 80CM CTV

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## SPECIFICATION

SUPPLY VOLTAGE : AC220V 50Hz  $\geq + 10\%$  /  $-20\%$

SYSTEM :	PAL - I / I	PAL - BG	PAL - I (UK)	PAL - SECAM - BG / DK	PAL - SECAM - BG / DK ( HYPER )	PAL - BG ( HYPER )	PAL - BG ( CATV )	SECAM - L	L'	
CHANNEL L - VHF : H - VHF : UHF :	4 - 13 21 - 69	2 - 4 5 - 12 21 - 69	21 - 69	1 - 5 6 - 12 21 - 69	1 - 5 6 - 12 21 - 69	E2 - S10 E5 - S41 E21 - E69	E2 - S2 E5 - S20 E21 - E69	1 - Q 21 - 69	FB - FC	CH CH CH
VIF FREQUENCY :	38.9	38.9	39.5	38.0	38.9	38.9	38.9	38.9	32.7	MHz
SIF FREQUENCY :	32.9	33.4	33.5	31.5 32.5	32.4 33.4	33.4	33.4	32.4	39.2	MHz
CHROMA IF FREQUENCY :	34.47	34.47	35.07	33.57 33.57	34.47 34.47	34.47	34.47	34.47		MHz
INTER-CARRIER FREQUENCY :	6.0	5.5	6	6.5 5.5	5.5 6.5	5.5	5.5	6.5	6.5	MHz
SCANNING HORIZONTAL : VERTICAL :	15625 LINE 50 Hz									
ANTENNA INPUT IMPEDANCE :	75 OHM									
CRT :	25" 28" 29" 34"									

ITEMS OF MEASUREMENT	STANDARD		UNIT
	34"	38"	
VIDEO SENS. AT S/N 30db L - VHF H - VHF UHF	$\leq 57$		dbuv
	$\leq 57$		dbuv
	$\leq 60$		dbuv
SOUND SENS. AT S/N 30db L - VHF H - VHF UHF	$\leq 42$		dbuv
	$\leq 42$		dbuv
	$\leq 48$		dbuv
AGC CHARACTER	$\geq 60$		db
SELECTIVITY -1.5 MHz + 8 MHz	$\geq 35$		db
	$\geq 40$		db
COLOR SENS.	$\leq 45$		dbuv
COLOR LOCK - IN RANGE	$\geq \pm 300$		Hz
VERTICAL LOCK - IN RANGE	$\geq 6$		Hz
HORIZONTAL LOCK - IN RANGE	$\geq 400$		Hz
MAX BRIGHTNESS	$\geq 100$	$\geq 70$ $\geq 65$	cd/m <sup>2</sup>
MAX OUTPUT POWER	$\geq 4.5$	$\geq 6.0$	W
OUTPUT POWER AT 10% THD	$\geq 3.5$	$\geq 4.5$	W
BUZZ	$\leq -40$		db
AFC RANGE	$\geq +1$		MHz
	$\geq -0.5$		MHz
MIN. VOL HUM	$\leq 20$		mV
RESOLUTION HORIZONTAL VERTICAL	$\geq 300$		LINES
	$\geq 400$		LINES
LINEARITY DISTORTION VERTICAL HORIZONTAL	$\leq 10$		%
	$\leq 10$		%
RASTER DISTORTION	$\leq 5$		%
REMOTE CONTROL DISTANCE ANGLE	$\geq 5$		METER
	$\geq \pm 15$		DEGREE
POWER CONSUMPTION ( AT NORMAL CONDITION )	$\leq 120$	$\leq 150$	WATTS
POWER CONSUMPTION ( AT MAX. CONDITION )	$\leq 150$	$\leq 180$	WATTS
CONVERGENCE DISLOCATION AT AREA "A" AREA "B" ( see fig.1 )	$\leq 0.4$		%
	$\leq 0.8$		%

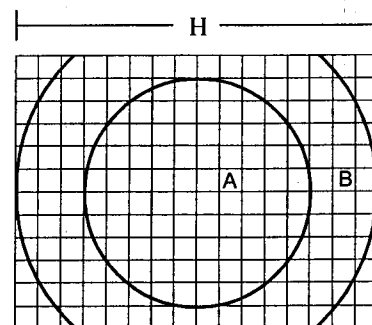


Fig.1

VIDEO INPUT LEVEL : 1.0V P-P  $\pm$  3dB  
AUDIO INPUT LEVEL : 0.5V RMS  $\pm$  3dB

# ALIGNMENT INSTRUCTION

## I. PLEASE READ BEFORE ATTEMPTING SERVICE

1. Never disconnect any leads while receiver is in operation.
2. Disconnect all power before attempting any repairs.
3. Do not short any portion of the circuit while power is on.
4. For safety reasons, all parts replaced should be identical, (for parts and part numbers see parts list).
5. Before alignment the set must be pre-heated for 30 minutes or more and erase magnetism thoroughly from CRT front chassis frame by erase coil. (Except IF, SYNC, COLOR, SECAM, B+, SOUND)

## II. TEST EQUIPMENT

- |   |   |
|---|---|
| 1. VIF Sweep Generator                    | 7. Volt Ohmmeter                        |
| 2. SIF Sweep Generator                    | 8. High Voltage Meter                   |
| 3. Colour Bar, Dot, Cross Hatch Generator | 9. Ampere Meter (0.5 Class, DC 3mA Max) |
| 4. DC Power Supply                        | 10. Demagnetizing Coil                  |
| 5. Oscilloscope                           | 11. Philips Pattern Generator           |
| 6. Vacuum Tube Voltmeter                  | 12. High Pot Tester                     |

## III. VIF ALIGNMENT

### A. Preparation step. (see fig.2a)

1. Connect Sweep Generator to tuner test point and Ground.
2. Connect 14V  $\pm$ 1V Bias Voltage to C429 (+) and Ground, CN904 PIN3 (PIN4 or CN905) and Ground.
3. Connect A. G. C. Bias Voltage to IC201 PIN48 and Ground.  
\*A.G.C. Bias Voltage can't over 5V. (see fig.2b)
4. Disconnect the soldering pads 'H'.

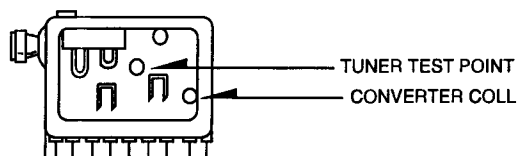
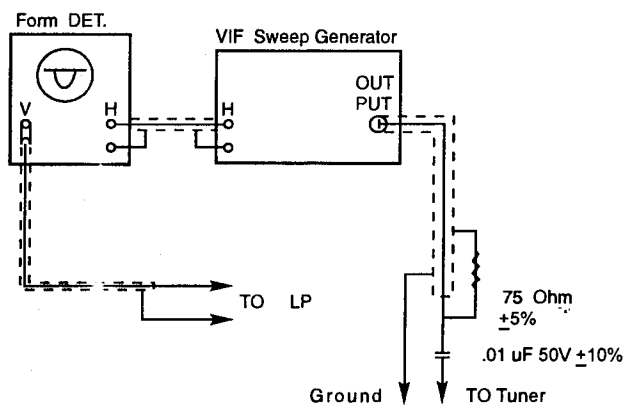


Fig. 2a

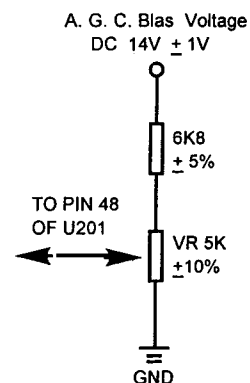


Fig. 2b

B. Alignment Step

1. Calibrate the division of Sweep Generator equal to 100mV per div.
2. The output of Sweep Generator should be -50dB  $\pm$ 10dB.
3. Connect the Waveform Detector to Pin7 of IC201 and Ground.
4. Connect 100ohm ( $\pm$ 5%) resistor between Q206 PINB and IC201 PIN10 (only for secam L/L' version).
5. Adjust A.G.C. Bias to maintain the waveform achieve 1V p-p  $\pm$ 10%.
6. Adjust T204 to obtain maximum amplitude of response cause at PC (BG = 38.9MHz, I = 39.5MHz, BG / DK = 38.0MHz).
7. Connect 100ohm ( $\pm$ 5%) resistor between TP201 and TP202.
8. Adjust tuner converter coil to obtain waveform as Fig.3.
9. Soldering the pads 'H' and disconnect the 100ohm resistors.

REMARK: No need to proceed step 7 and 8, when using Samsung or Telefunken Tuner.  
Point (C.C) and point (P.C) have  $\pm$ 0.5div tolerance.

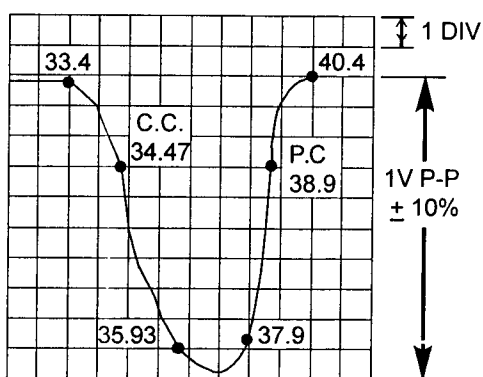


Fig.3

SYSTEM : PAL - BG  
PAL - BG / DK  
(W / HYPER BAND)

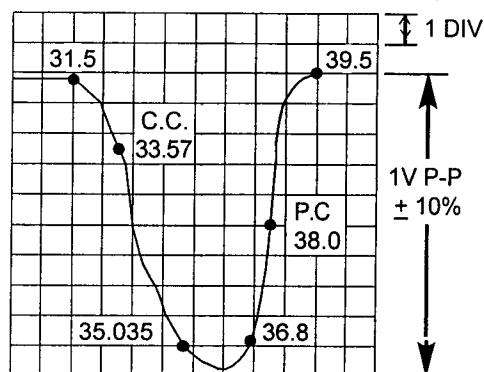


Fig.3

SYSTEM : PAL - BG / DK  
(W / O HYPER BAND)

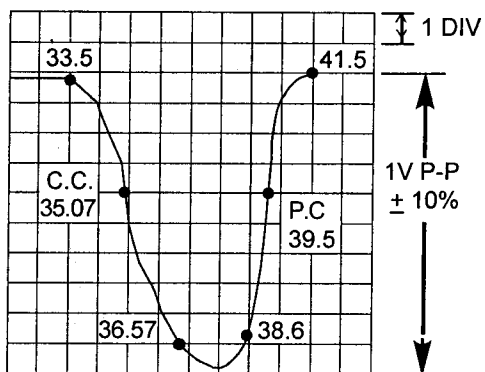


Fig.3

SYSTEM : PAL - I

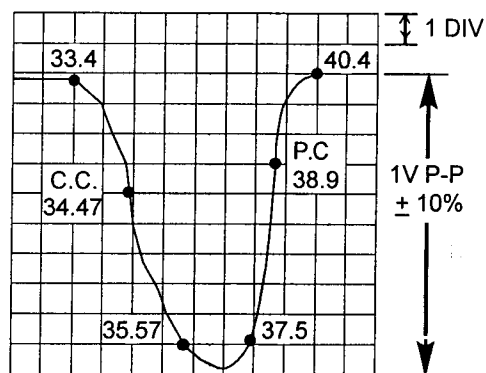
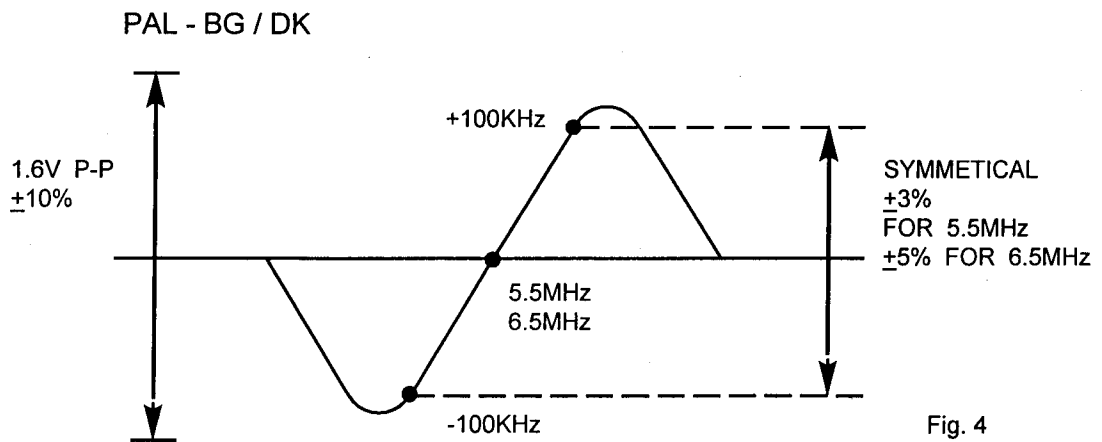
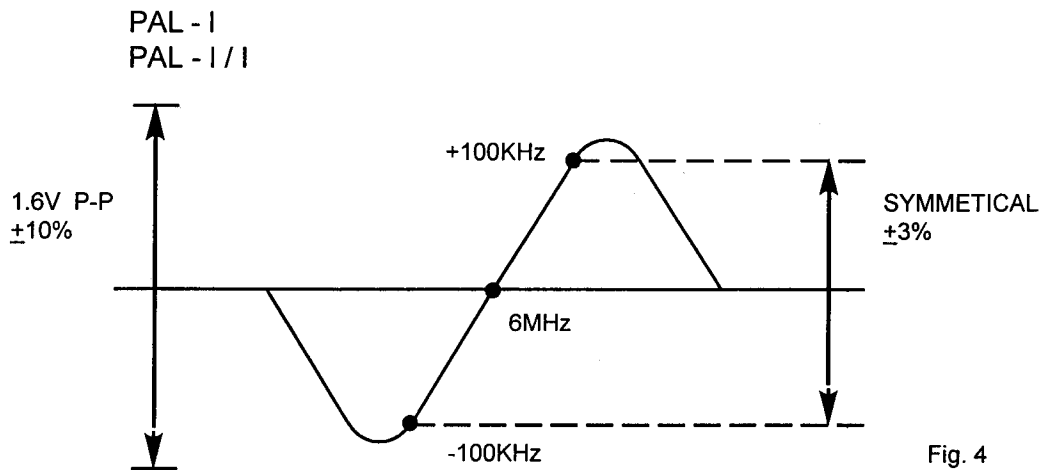
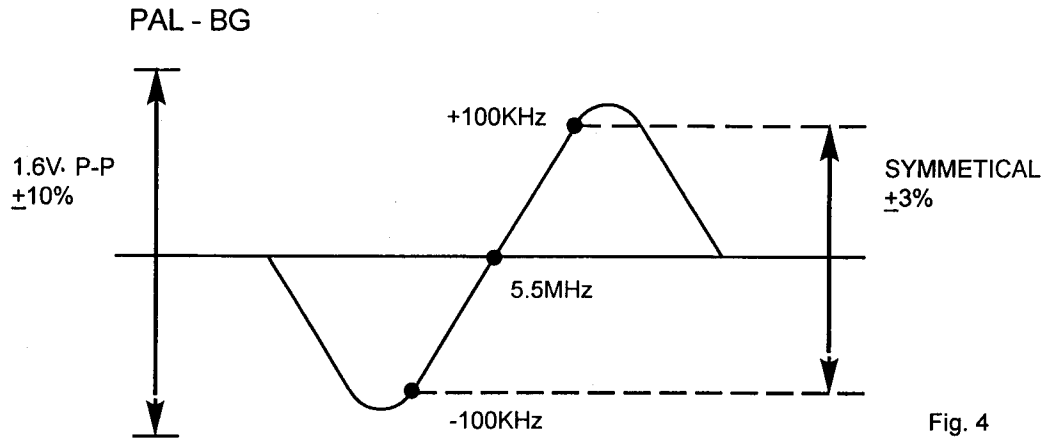


Fig.3

SYSTEM : PAL - I / I

#### IV. SIF ALIGNMENT

1. Connect the Sweep Generator to IC208 Pin17 and Ground.
2. Connect Waveform Detector to Pin9 of IC208 and Ground.
3. The output of Sweep Generator should be -10dB  $\pm$ 5dB.
4. Adjust T202 to obtain the waveform as Fig.4.



#### V. SIF ALIGNMENT ( FOR G.STEREO )

1. Connect the Sweep Generator to IC208 Pin17 and Ground.
2. Connect Waveform Detector to Pin8 of IC208 and Ground.
3. The output of Sweep Generator should be  $-10\text{dB} \pm 5\text{dB}$ .
4. Adjust T203 to obtain the waveform as Fig.5.  
(If haven't Waveform. Set the TACT - SWITCH S609 to SYS - 1 position)

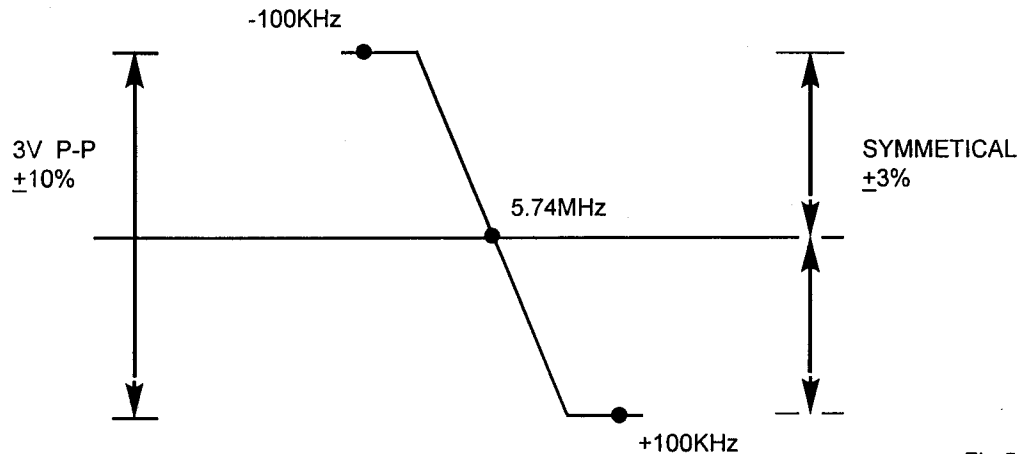


Fig.5

#### VI. AFC ALIGNMENT

1. Apply Pal IF signal modulated with a colour bar pattern to Tuner IF out and Ground.  
(Field strength =  $80 \pm 3\text{dB}$ )
2. Connect digital voltmeter to Pin44 of IC201 and Ground.
3. Adjust T204 to obtain a reading of  $3.75\text{V} \pm 0.25\text{V}$ .

#### VII. SOUND TRACKING ALIGNMENT

1. Receive a gray scale pattern.
2. Connect a oscilloscope and monitor IC208 Pin17 and Ground.
3. Adjust T201 to obtain the waveform Fig.6.

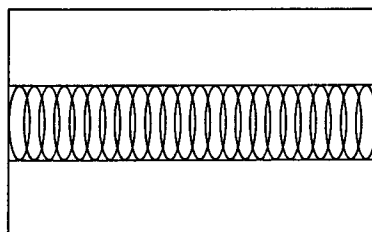


Fig.6

Remark: All frequency of Marker points are  $\pm 0.2\%$  tolerance.

#### VIII. SEPARATION ALIGNMENT ( FOR G.STEREO )

1. Receive color bar pattern (with stereo sound L 3KHz, R 1KHz)
2. Connect digital multimeter to PIN1 at CN302 and GND.
3. Adjust volume control to obtain a  $0.89\text{Vrms}$ .
4. Switch off the left channel signal (3KHz) from the Signal Generator.
5. Adjust VR001 to make a minimum output level.

## B+ ADJUSTMENT

1. Connect a digital voltmeter to B+ and Ground.
2. Set Brightness, Contrast and colour to minimum.
3. Adjust Screen Volume on FBT and VR101 until the picture can just be seen.
4. Adjust VR901 and obtain a reading of 140V  $\pm$ 1V. (143V For 28" THOMSON CRT)  
(143V For 34" VIDEO COLOR CRT)

## AGC ALIGNMENT

1. Receive CH69 (UHF) and input field strength. (see Fig.7).
2. Connect a digital voltmeter between the TUNER AGC TERMINAL and Ground.
3. Adjust the AGC variable resistor (VR201) to maximum position, and then adjust the VR until the AGC voltage drop down 0.4V.  
(1/ The drop down voltage should be more than and tends to 0.4V)  
(2/ No observable noise can be seen)

TUNER MODEL NO.	RF INPUT SIGNAL(dB)	TUNER MODEL NO.	RF INPUT SIGNAL(dB)
ENV598B7F2	62 $\pm$ 3dB	OSCAR 2900KKC	58 $\pm$ 3dB
UVC6201-RC	57 $\pm$ 3dB	HBC3300KHC	58 $\pm$ 3dB
UVC8303-RW	57 $\pm$ 3dB	TBD1CAB14	60 $\pm$ 3dB
UVL1812-AW	57 $\pm$ 3dB	TECC1986VA0618	60 $\pm$ 3dB
UVC1401-EW	57 $\pm$ 3dB	TBD1-HYPV15A	60 $\pm$ 3dB
TBQ-5-32	57 $\pm$ 3dB	UVE50-AW04D	60 $\pm$ 3dB
TBQ 8-32	57 $\pm$ 3dB	UVE33-W24/R16-3649	58 $\pm$ 3dB
TBQ 8-12	57 $\pm$ 3dB	MTM4045N	57 $\pm$ 3dB
VISHZUZ51	60 $\pm$ 3dB	MTM4045	60 $\pm$ 3dB
TEKE4-196	60 $\pm$ 3dB		
TDQ-3V71(541)	57 $\pm$ 3dB		
UVC1043-RW	57 $\pm$ 3dB(用在1-CHIP)		
	60 $\pm$ 3dB(用在PHILIPS)		

## HORIZONTAL CIRCUIT ADJUSTMENT

Fig.7

1. Receive Monoscope Pattern input signal 70dB  $\pm$ 10dB.
2. Adjust VR202 to obtain the picture at center  $\pm$ 2mm.  
(Specification show in Fig.8)

## VERTICAL CIRCUIT ADJUSTMENT

1. Receive the Monoscope Pattern.
2. Adjust VR401 to obtain a normal picture.

## WHITE BALANCE ALIGNMENT STEP

(Degauss the picture by degaussing coil if necessary)

1. Turn the Brightness, Contrast and Screen Volume to minimum value.
2. Turn VR603 to middle position. Turn VR601, 602, 604, and 605 to middle position.
3. Receive a black and white pattern.
4. Connect a digital meter between Red Gun and Ground on the CRT Board.
5. Adjust VR101 to obtain a ceufre voltage 1.5V $\pm$ 0.1V.
6. Adjust Screen volume on FBT until the brightness bar can just be seen.
7. Adjust VR601, 602, 604 and 605 to obtain a uniform white picture (9300 K +27M.P.C.D) (X = 0.281, Y = 0.311).

## SUB - BRIGHTNESS ALIGNMENT

1. Receive a colour bar pattern.
2. Turn the brightness, contrast and colour to minimum.
3. Adjust VR101 until the brightness bar can just be seen.



#### FOCUS ALIGNMENT

- 1) Set the Brightness and Contrast to middle position.
- 2) Receive a monoscope pattern.
- 3) Adjust focus control to obtain sharpest picture.

#### EAST - WEST CORRECTION ADJUSTMENT

- 1) Receive a crosshatch and centre cross pattern.
- 2) Turn the Brightness, Contrast to middle position.
- 3) Adjust VR402 to get normal regular picture.
- 4) Adjust VR403 to get a proper horizontal width. (90% +2%)

#### NTSC EAST WEST CORRECT ADJUSTMENT

- 1) Receive crosshatch pattern and center cross pattern, input signal.
- 2) Turn the brightness, contrast to middle position.
- 3) Adjust VR404 to get a normal regular picture.

#### HIGH POT TESTING

- 1) Short the L - pole and N - pole of AC line cord.
- 2) Switch on the power switch of the TV Set.
- 3) Connect The High Pot Tester (-) to L and N pole, (+) to the METAL PART of CABINET.

SAFETY STD. / CONDITION	TEST SYANDARD	TEST STANDARN FOR PRODUCTION
VDE, SAA	3.0KV 10mA / 1MIN	$\geq 3.5$ KV $\leq 10$ mA / $\geq 10$ SEC.
BS	4.0KV 10mA / 1MIN	$\geq 4.0$ KV $\leq 10$ mA / $\geq 10$ SEC.
CHINA STANDARD	3.0KV 10mA / 1MIN	$\geq 3.3$ KV $\leq 5$ mA / $\geq 6$ SEC.
UL	1.0KV 5mA / 1MIN	$\geq 1.25$ KV $\leq 5$ mA / $\geq 1$ SEC.

#### Remark:

- 1) If no other specify, the strength of input signal should be 70dB  $\pm 10$ dB.
- 2) The High Pot Tester can have  $\leq \pm 5\%$  tolerance.

DISTRICT	CENTRE (mm) POSITION	LIMIT (mm)	SCANNING SIZE (%)	SCANNING SIZE LIMIT (%)
THAILAND	-1	0 ~ -2	90	88 ~ 92
FRANCE	+3	0 ~ +5	90	88 ~ 94
GERMANY	+3	0 ~ +5	90	90 ~ 95
*GROUP A	-2	-5 ~ -1	90	88 ~ 94
*GROUP B	0	-2 ~ +2	90	88 ~ 94
*GROUP C	+3	0 ~ +5	90	88 ~ 94

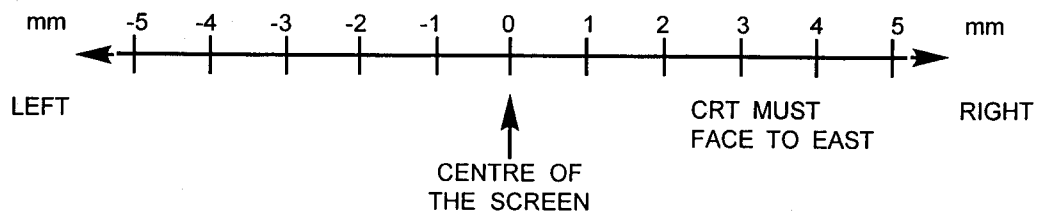


FIG. 8

- REMARK :
1. SUITABLE FOR 14" OR ABOVE TV.
  2. Adjust the centre position must take the upper side of monoscope pattern for standard.
  3. Group A : AUSTRALIA, NEW ZEALAND, TAHITI.
  4. Group B : HONG KONG, CHINA, AMERICA, CANADA, MALAYSIA, MEXICO.
  5. Group C : ENGLAND, ITALY, GERMANY, RUSSIA, SWITZERLAND, JUGOSLAVIA, SPANISH.
- If the above countries are not include, please consult to Engineering Dept.

VOLTAGE TABLE FOR IC ( ONLY FOR REFERENCES )						
SYMBOL PIN NO.	IC 201 TDA 8362	IC 101 CTV 350	IC001 SAA7282ZP	IC208 TDA3866	IC002 TDA8732	IC103 PC74HCT241P
1	3	4.3	2.5	0	0.3	0.085
2	5.8	0.1	5.1	0	GND	0.010
3	5.8	4.7	5	2.3	2.2	0.012
4	5.5	2.4	5	0.1	5.3	0.010
5	0	4.9	5	3	4	0.011
6	3.8	2.5	5.1	1.8	4.1	0.012
7	3	0	4.9	1.8	4.1	0.012
8	1.7	4.5	4.7	2.1	3.9	0.012
9	GND	1.6	GND	2.1	3	0.012
10	7.8	5	2.3	1.8	2.2	0.012
11	GND	0	2.3	1.8	4.4	0.085
12	3.1	5.6	2.3	5.7	5.3	0.012
13	4.3	5	2.3	5.7	4.5	0.12
14	3.3	5	2.3	1.9	GND	0.089
15	3.4	5	2.3	0	1.1	0.012
16	0	5	2.3	2.1	2.5	0.09
17	4.2	5	2.3	2.1	0.2	0.012
18	2.8	0.1	GND	1.8	4.6	0.095
19	2.8	5	2.3	0	GND	0.012
20	0	5	2.4	GND	3.3	0.085
21	0.3	0	2.3	6.7		
22	3.4	0	0.4	4.3		
23	3.4	0	2.3	1.7		
24	3.4	0	GND	1.7		
25	2.6	0	4.9			
26	1.7	0.3	4.9			
27	2.4	-0.3	5			
28	3.9	5	2.5			
29	3.8	5	GND			
30	1.4	0	2.1			
31	1.4	2.6	1.6			
32	1.6	2.1	1			
33	5.1	5				
34	1.3	5.4				
35	2	4.8				
36	7.7	0				
37	0.5	0				
38	0.6	0				
39	2.4	3				
40	3.7	2.7				
41	2.3	0				
42	2.8	5				
43	5					
44	3.9					
45	4					
46	4					
47	8.1					
48	4.5					
49	0.8					
50	3.3					
51	4.3					
52	6.5					

SYMBOL PIN NO.	IC403	IC404	IC102
1	16.03	11.9	11
2	0	0	0
3	11.9	7.9	5

IC601 TDA6103Q	
1	1.144V
2	1.144V
3	1.144V
4	0V
5	1.144V
6	205V
7	99V
8	99V
9	99V

NOTE: VOLTAGE ARE TAKEN UNDER TUNED CONDITION WITH

CONTRAST : Maximum Position  
 BRIGHTNESS : Maximum Position  
 COLOR : Maximum Position  
 SIGNAL INPUT : 70dB ±10dB  
 CHANNEL SETTING : The Last Channel of UHF High  
 SIGNAL PATTERN : Colour Bar

VOLTAGE TABLE FOR TRANSISTOR ( ONLY FOR REFERENCE )				VOLTAGE TABLE FOR IC				
SYMBOL	B (V)	C (V)	E (V)	SYMBOL PIN NO.	IC402 HEF4538BP	IC204 TDA8395	IC205 TDA4661	IC203 TDA8440
Q108	11.7	0	11.8	1	0	4.4	5.2	2.7
Q107	11	11.7	11.8	2	4.9	1.3	0	GND
Q111	9.9	11.8	10.6	3	11.9	7.9	0	2.8
Q112	2.7	11.1	10.6	4	1	0	0	GND
Q113	0.2	2.7	0	5	11.9	0	1.4	5.6
Q101	0.7	1.5	0	6	11.5	0	0	11.9
Q104	0	11.7	0	7	0.3	3.3	0	5.6
Q105	0.6	0	0	8	GND	4.2	0	5.6
Q103	0.02	4.6	0.02	9	0	3	5.2	5.6
Q208	3.3	8	2.7	10	11.9	3	0	5.6
Q201	2.3	11.6	1.7	11	11.9	0	2.9	11.9
Q206	8.5	3	8	12	0.3	0	2.9	5.7
Q205	2.1	7.8	1.5	13	11.9	0	0	11.9
Q204	3	7.4	2.3	14	3.4	0	1.3	5.7
Q117	5	0	0	15	0	1.2	0	11.9
Q116	0.6	0	0	16	11.9	0.6	1.3	2.5
Q002	2	3	1.3	17				0
Q001	2	5.3	2.6	18				0
Q003	0.3	11.8	0					
Q118	0.6	0	0					
Q331	2.3	5.3	1.7					
Q332	2.3	5.3	1.7					
Q401	0.4	38.2	0					
Q114	0.7	2.7	0					
Q404	11.2	0.5	11.7					
Q405	0.5	14.2	0					
Q410	2	10.1	1.4					
Q406	0	2	1.6					
Q402	0	113.6	0					
Q106	11.5	0.4	11.8					
Q151	0.02	10.6	0					
Q601	3.1	118.3	2.5					
Q602	3	119.7	2.5					
Q603	3.2	113	2.6					
Q604	3.7	0	4.1					
Q605	0	173.8	0.15					
Q606	0.1	11.2	0					

SYMBOL PIN NO.	IC401 TDA3654	IC202 TA7347P	IC104 24C01B2	IC901 ST6309
1	1.1	8.3	0	0.7
2	0	GND	5	0.2
3	1.2	8.3	0	0.1
4	0	GND	0	0.3
5	15.6	0	2.6	0.7
6	25.6	7.5	3	0.1
7	1.2	11.9	5	0.2
8	5.8		5	0.5
9	25.4			10

SYMBOL PIN NO.	IC102 L7805	IC403 L7812	IC404 L7808
1	10	14	12
2	GND	GND	GND
3	5	12	8

NOTE : VOLTAGE ARE TAKEN UNDER TUNED CONDITION WITH

CONTRAST : Maximum Position  
 BRIGHTNESS : Maximum Position  
 COLOR : Maximum Position  
 SIGNAL INPUT : 70dB  $\pm$ 10dB  
 CHANNEL SETTING : The Last Channel of UHF High  
 SIGNAL PATTERN : Colour Bar

VOLTAGE TABLE FOR TRANSISTOR ( ONLY FOR REFERENCE )								
LOCATION \ TR	B (V)	C (V)	E (V)	LOCATION \ TR	B (V)	C (V)	E (V)	
Q108	11.7	0	11.8	Q332	2.3	5.3	1.7	
Q107	11	11.7	11.8	Q401	0.4	38.2	0	
Q111	9.9	11.8	10.6	Q114	0.7	2.7	0	
Q112	2.7	11.1	10.6	Q404	11.2	0.5	11.7	
Q113	0.2	2.7	0	Q405	0.5	14.2	0	
Q101	0.7	1.5	0	Q410	2	10.1	1.4	
Q104	0	11.7	0	Q406	0	2	1.6	
Q105	0.6	0	0	Q402	0	113.6	0	
Q103	0.02	4.6	0.02	Q106	11.5	0.4	11.8	
Q208	3.3	8	2.7	Q151	0.02	10.6	0	
Q201	2.3	11.6	1.7	Q601	3.1	118.3	2.5	
Q206	8.5	3	8	Q602	3	119.7	2.5	
Q205	2.1	7.8	1.5	Q603	3.2	113	2.6	
Q204	3	7.4	2.3	Q604	3.7	0	4.1	
Q117	5	0	0	Q605	0	173.8	0.15	
Q116	0.6	0	0	Q606	0.1	11.2	0	
Q002	2	3	1.3					
Q001	2	5.3	2.6					
Q003	0.3	11.8	0					
Q118	0.6	0	0					
Q331	2.3	5.3	1.7					

NOTE : VOLTAGE ARE TAKEN UNDER TUNED CONDITION WITH

CONTRAST : Maximum Position  
 BRIGHNESS : Maximum Position  
 COLOR : Maximum Position  
 SIGNAL INPUT : 70dB  $\pm$ 10dB  
 CHANNEL SETTING : The Last Channel of UHF High  
 SIGNAL PATTERN : Colour Bar

VOLTAGE TABLE FOR IC ( ONLY FOR REFERENCES ) ( FOR TEXT. IC VOLTAGE )						
PIN NO.	SYMBOL	IC 801 SAA5246	IC 801 SAA5254PT	IC 802 GM76C88AL-15		
1		5.1	5.1	0		
2		2.17	2.2	4.38		
3		3.64	3.7	2.5		
4		0.04	0.044	2.2		
5		GND	GND	4.24		
6		5.09	5.1	1.4		
7		2.1	2.2	1.07		
8		2.09	2.4	3.65		
9		2.55	2.56	3.63		
10		5.1	5.1	3.74		
11		GND	GND	0.03		
12		2.18	2.4	0.82		
13		5.1	5.1	2.5		
14		GND	GND	GND		
15		0.28	0.12	1.2		
16		0.2	0.12	1.5		
17		0.28	0.11	1.6		
18		3.92	3.93	1.3		
19		4.85	0.11	1.08		
20		0.048	GND	GND		
21		2.56	0.08	4.32		
22		0.045	0.05	2.55		
23		2.87	0.05	0.85		
24		2.56	3.11	0.87		
25		GND	2.84	0.83		
26		1.2	5.09	5.1		
27		1.62	5.09	5.07		
28		1.7	5.09	5.1		
29		1.5	5.09			
30		1.1	5.09			
31		2.5	5.09			
32		0.8	0.058			
33		0.036	5.09			
34		3.74	5.09			
35		3.63	5.09			
36		3.65	0.057			
37		1.07	5.09			
38		1.4	5.09			
39		4.24	0.056			
40		2.1	0.06			
41		2.5				
42		4.38				
43		4.33				
44		0.8				
45		0.88				
46		0.83				
47		2.55				
48		5.07				
49						
50						

NOTE : VOLTAGE ARE TAKEN UNDER TUNED CONDITION WITH

CONTRAST : Maximum Position  
 BRIGHNESS : Maximum Position  
 COLOR : Maximum Position  
 SIGNAL INPUT : 70dB  $\pm$ 10dB  
 CHANNEL SETTING : The Last Channel of UHF High  
 SIGNAL PATTERN : Colour Bar

## CTF803

PART_NO	DESCRIPTION	QTY	LOCATION
155-R83308-00-00	REMOTE CONTROL ASSEMBLY		
107-800455-4G	RESONATOR 455 KHZ ET455Z PO TUNG	1	CF701
113-109005-17	CARBON FILM RESISTOR 1 OHM 1/16W +-5%	2	R701,703
113-221005-17	CARBON FILM RESISTOR 220 OHM 1/16W +-5%	1	R702
123-151350-93	CERAMIC CAP. 150 PF 50V +-10% (NPO)	2	C701,702
127-105072-06	ELECT CAP. 1 MFD 50V +-20% {TAPING TYPE}	1	C703
130-134148-01	SILICON DIODE IN4148	3	D702-704
130-600101-0G	INFRARED EMITTER EL-1L1 KODENS HI "GUANG ZHOU XIONGGUANG"	1	LED701
131-231815-0A	TRANSISTOR 2SC1815 TOSHIBA	1	Q701
133-803428-12	I.C. M34280M1 MITSUBISHI	1	IC701
172-726000-99	BARE WIRE 54MM	0.11	W701,703
190-R83301-02	REMOTE P.C.B. (270499 REV.1)	1	
514-200407-10	SELF-TAPPING SCREW 2 X 7 B/T (HARDEN)	1	FOR HANDSET
774-002001-00	BATTERY SPRING +VE & -VE	1	
774-R83301-00	BATTERY SPRING (-VE)	1	
774-R83302-00	BATTERY SPRING (+VE)	1	
810-041104-13	POLYBAG 4" X 11" X 0.04MM W/RE-CYCLING MARK	1	FOR HANDSET
849-R83301-08	RUBBER KEY PAD - ENG STD {FOR MTSUBISHI IýC}	1	
849-R83302-01	RUBBER KEY PAD - ENG STD {FOR MITSUBISHI IýC} W/TXT	1	
900-R83301-46	R/TOP CAB-ENG STD/M.BLK SILVER 877C (FOR MITSUBISHI IýC)	1	
902-R83301-01	HANDSET REAR CAB - MATT BLK SPARY	1	
910-R83301-01	BATTERY DOOR - MATT BLACK	1	
919-R83301-13	R/T.DOOR-STD M.B.SPY.SILVER SS {MITSUBISHI IýC}HOTEL LOCK/CCD	1	
504-305006-10	MACHINE SCREW 3 X 6 B/M (WHITE)	2	FOR POWER SWITCH BRACKET
509-305010-00	MACHINE SCREW 3 X 10 KM (BLACK)	2	FOR JACK PLATE MTG
514-300110-10	SELF-TAPPING SCREW 3 X 10 B/T (WHITE)(HARDEN)	6	FOR F.COVER TO F.CAB
514-400416-10	SELF-TAPPING SCREW 4 X 16 B/T (HARDEN)	8	FOR SPEAKER HOLDER
514-400435-10	SELF-TAPPING SCREW 4 X 35 B/T (HARDEN)	3	FOR CAB MTG (BOTTOM)
515-303410-10	SELF-TAPPING SCREW 3 X 10 W/B/T (HARDEN)	3	1-FOR GEAR HOLDER,2-FOR SENSOR PCB
515-303412-10	SELF-TAPPING SCREW 3 X 12 W/B/T (HARDEN)	2	FOR POWER SWITCH BRACKET
516-500418-10	SELF-TAPPING SCREW 5 X 18 P/T (HARDEN) HEAD DIA. 9.5MM MAX	8	4 FOR SPK HOLDER MTG,4 FOR CRT MTG
516-500420-10	SELF-TAPPING SCREW 5 X 20 P/T (HARDEN) HEAD DIA. 9.5MM MAX	20	FOR CRT MTG
516-500435-10	SEIF-TAPPING SCREW 5X35 P/T (HARDEN) HEAD DIA. 9.5MM MAX	11	FOR CAB MTG
580-101261-01	CABLE TIE L=100MM	12	9-DEGAUSSING COIL, 2-SPK WIRE FIXING,1-SPK WIRE
580-101261-01	CABLE TIE L=100MM	1	FOR SPK WIRE

## CTF803

PART_NO	DESCRIPTION	QTY	LOCATION
580-102261-00	CABLE TIE L=200MM W=3.5MM	2	FOR DEGAUSSING COIL
580-103261-00	CABLE TIE L=300MM W=3.5MM	12	FOR DEGAUSSING COIL
611-733A01-00	GIFT BOX-BOTTOM 951(W) X680(D) X 309(H)MM W/HANDLE {K33333K}	1	
618-733A01-00	PACKING PAD	2	FOR EARE CAB
622-882802-00	FELT L240 X W17 X T0.5MM W/TAPE	30	AND OTHER PARTS
630-238010-00	FIBRE WASHER OD=23 , ID=8 T=1MM	12	FOR CRT MTG
723-932002-01	POWER SWITCH BRACKET (NEW) FOR POWER	1	
744-881301-00	SPRING FOR C.R.T. MOUNTING 5.2 X 42 X 0.6MM	2	FOR CRT MTG
748-733A01-00	CRT MTG. WASHER	8	FOR CRT MTG
750-063102-01	35MM SOLDERING LUG OD:7 ID:3.2 LEG:4X35MM	2	FOR SPK WIRE
750-733A01-00	SOLDERING LUG	2	FOR SPK WIRE FIXING
777-283301-00	SPRING	1	FOR POWER KNOB
800-283301-00	POLYFOAM - TOP LEFT W/WOOFER	1	FOR UNIT
800-283302-00	POLYFOAM - TOP RIGHT W/WOOFER	1	FOR UNIT
800-283303-00	POLYFOAM - BOTTOM LEFT	1	FOR UNIT
800-283304-00	POLYFOAM - BOTTOM RIGHT	1	FOR UNIT
810-555204-14	POLYBAG 55"X52"X0.04MM W/PUNCH HOLE RE-CYCLING MARK {P/O MAT}	1	FOR UNIT
822-733A01-00	SPEAKER HOLDER CUSHION	2	FOR SPK HOLDER
826-503005-00	FOAM SHEET 50" X 30" X 0.5MM THK (APPROX)	1	FOR UNIT TOP
834-230802-00	RUBBER WASHER OD=23, ID=8, T=2	4	FOR CRT MTG FOR FRONT
840-011024-21	PAD CORD L240 X W10 X T1 MM W/TAPE	30	CAB AND ORDER PARTS
840-052530-00	RUBBER PAD (ONE SIDE W/TAPE)	2	FOR SPEAKER HOLDER AND CRT
840-082929-11	RUBBER PAD (ONE SIDE W/TAPE)	4	2-FOR SPK HOLDER,2-FOR BETWEEN SPK HOLD AND CRT
840-082929-11	RUBBER PAD (ONE SIDE W/TAPE)	3	FOR CRT
918-733A01-00	SPEAKER HOLDER COVER BLACK PP	2	FOR SPK HOLDER
948-882003-00	DOOR LOCKER	1	
954-733A02-00	SPEAKER HOLDER BLACK PP	2	
954-733A20-00	CRT MTG. BRACKET	4	
954-882100-00	AC LINE CORD CLIP	1	
954-882804-00	HIGH VOLTAGE CABLE SPACER	3	FOR FBT
969-282902-00	LIGH GUIDING POST(TRANSPARENT)	1	FOR F.CAB
988-033801-00	GEAR (BLACK MOULDED)	1	
989-882801-00	GEAR HOLDER	1	
002-134001-4N	34" CRT #M78KXC110X01 S/H (AUS.) {SUPER FLAT} "WANGSANG"	1	
003-131325-0K	TUNER 38.9 MHZ (WSP) 5V TDQ-3B9/125 "CHENGDU YUGUANG"	1	TUNER



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PART_NO	DESCRIPTION	QTY	LOCATION
008-120331-05	DEGAUSSING COIL 120T L=3750MM (5 TAPE) #XC-GW 74B "ART-TECH"	1	L903
107-105500-66	SOUND TRAP CERAMIC FILTER 5.5MHZ WEI HAW	1	CF101
107-731500-00	SAW FILTER TSB-5308U (SANYO)	1	SAW101
107-738916-00	SAW FILTER TSF-5316 SANYO	1	SAW102
			R708,707,716,717,(ON
			7,(ON
113-101005-17	CARBON FILM RESISTOR 100 OHM 1/16W +-5%	7	CHANNEL
			P.C.B)
			R134,801,839
			R702,715,721
113-101005-17	CARBON FILM RESISTOR 100 OHM 1/16W +-5%	3	(ON SENSOR
			P.C.B)
			R703,704(ON
			CHANNEL
113-102005-17	CARBON FILM RESISTOR 1K OHM 1/16W +-5%	4	PCB),R701,713(
			ON SENSOR
			PCB)
113-102005-17	CARBON FILM RESISTOR 1K OHM 1/16W +-5%	1	R341
113-109005-17	CARBON FILM RESISTOR 1 OHM 1/16W +-5%	1	R454
113-151105-17	CARBON FILM RESISTOR 150 OHM 1/4W +-5%	1	R620
113-2215K5-75	METAL OXIDE FILM RES. 220 OHM 3W +-5% "CHAOZHOU SANHUAN"	1	R453
			R711,712(ON
113-223005-17	CARBON FILM RESISTOR 22K OHM 1/16W +-5%	2	CHANNEL
			P.C.B)
113-229005-17	CARBON FILM RESISTOR 2.2 OHM 1/16W +-5%	1	L104
113-331005-17	CARBON FILM RESISTOR 330 OHM 1/16W +-5%	3	R135,136,137
113-471005-17	CARBON FILM RESISTOR 470 OHM 1/16W +-5%	1	R342
			R722,706,705
113-472005-17	CARBON FILM RESISTOR 4.7K OHM 1/16W +-5%	3	(ON CHANNEL
			P.C.B)
			R714,718
113-473005-17	CARBON FILM RESISTOR 47K OHM 1/16W +-5%	2	(SENSOR
			P.C.B)
113-479005-17	CARBON FILM RESISTOR 4.7 OHM 1/16W +-5%	1	R455
113-561005-17	CARBON FILM RESISTOR 560 OHM 1/16W +-5%	1	R343
113-569405-75	METAL OXIDE FILM RESISTOR 5.6 OHM 2W +-5%	1	R501
			R723,724,710
113-750005-17	CARBON FILM RESISTOR 75 OHM 1/16W +-5%	3	(ON CHANNEL
			P.C.B)
			R709 (ON
113-821005-17	CARBON FILM RESISTOR 820 OHM 1/16W +-5%	1	CHANNEL
			P.C.B)
123-102350-90	CERAMIC CAP. 0.001 MFD 50V +-10% (B TYPE)	2	C124,125
123-104270-91	CERRAMIC CAP. 0.1 MFD 25V +80 -20% {TAPING TYPE}	3	C705(SENSOR
			P.C.B),C801,120
123-221350-60	CERAMIC CAP. 220 PF 50V +-10% (SL TYPE)	1	C490
126-152150-41	METALIZED POLYPROPYLENE CAP. 0.0015 MFD 1500VH +-5%	1	C495
126-153630-32	POLYPROPYLENE CAP. 0.015 MFD 630V +-5% "TAIWAN TAIYANG"	1	C464
126-332161-41	METALIZED POLYPROPYLENE CAP. 0.0033 MFD 1600V +-10%	1	C463
126-564211-31	POLYPROPYLENE CAP. 0.56 MFD 250V +-10%	1	C461
			C703,704,706
127-105042-0C	ELECT CAP. 1 MFD 16V +-20% "FOSHAN NO.3"	3	(CHANNEL
			P.C.B)

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PART_NO	DESCRIPTION	QTY	LOCATION
127-106042-06	ELECT CAP. 10 MFD 16V +-20% {TAPING TYPE}	2	C702 (CHANNEL P.C.B),C701 (SENSOR PCB) FOR MAIN SPK
127-225072-28	ELECT. CAP. 2.2 MFD 50V +-20% (NON-POLAR) "JAMICON"	1	R`-' TO TWEETER SPK '`'
127-225072-28	ELECT. CAP. 2.2 MFD 50V +-20% (NON-POLAR) "JAMICON"	1	FOR TWEETOR SPK
127-477042-06	ELECT CAP. 470 MFD 16V +-20% {TAPING TYPE}	1	C803
130-410051-01	ZENER DIODE 5.1V 1/2W +-5%	1	ZD801
130-610605-00	LED 3MM ROUND (RED/GREEN) BT605 "FOSHAN"	1	LED601 (ON SENSOR P.C.B)
131-211015-02	TRANSISTOR A1015Y "GUANZHOU"	1	Q302 Q701,702
131-231815-02	TRANSISTOR C1815Y "GUANZHOU"	2	(SENSOR P.C.B)
133-109870-33	I.C. TDA9870A DIGITAL TV SOUND PROCESSOR (DTVSP) W/O NICAM	1	IC201
133-304241-31	I.C. M74HCT241B1 SGS	1	IC103
136-500038-00	REMOTE CONTROL RECEIVER HS0038A2 "TEMIC"	1	OPT601
146-100006-14	POWER SWITCH PS5E-B "CHINA LANDMARK"	1	FOR 190- 88200A-XE
146-104062-19	TACT SWITCH KFC-A06-C2-9.5 "LEQING TUNGHAI"	7	S607,608,609,61 0,611,612,613 FOR SUB MAIN
160-101001-08	PIN CONNECTOR 1 PIN PLUG STRAIGHT	2	BOARD CN904,CN905
160-104255-27	PIN CONNECTOR 4 PINS PLUG (SHS)	1	CN603
160-105255-27	PIN CONNECTOR 5 PINS WAFER 2.5 PITCH	1	CN411
160-107255-27	PIN CONNECTOR 7 PIN PLUG	1	CN701 P601 (ON
161-123501-21	HEADPHONE SOCKET D=3.5MM CHINA=CKX3-3.5	1	CHANNEL P.C.B)
161-300102-00	DIN SOCKET W/SWITCH PJ60468-01 "MIKI"	1	JK600 JK601 (ON
161-470003-00	RCA JACK HYJ-032-03BY YELLOW "MING FUNG"	1	CHANNEL P.C.B) JK603 (ON
161-470015-06	RCA JACK 2 PIN WHITE RIGHT ANGEL "HUAJI"	1	CHANNEL P.C.B) JK602 (ON
161-473204-01	3 PIN RCA JACK (RED) ANGLE HIJ-032-03AR "UNITRONIC"	1	CHANNEL P.C.B)
166-181912-40	TWEETER SPEAKER 1-1/2" 8 OHM 10W #YDG40-3B-SD "TCL"	2	TWEETER SPK 1-L MAIN
166-281936-4Q	SPEAKER 3 X 6" 8 OHM 10W #YDT0816-AP "TIANJIN ZENMAY"	2	SPK.`+' TO L TWEETOR CAP.,
171-550084-D1	7' SAA APP. LINE CORD W/PLUG E-CUTTING 45MM,15MM PVC HOLDER	1	

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PART_NO	DESCRIPTION	QTY	LOCATION
172-626036-40	UL1007 TOP COAT WIRE AWG26 360MM BLACK 10 X 10MM	2	1-L MAIN SPK `-' ' TO L TWEETER (-), 1-R MAIN SPK. (-
172-626036-40	UL1007 TOP COAT WIRE AWG26 360MM BLACK 10 X 10MM	0	) TO R TWEETER (-)
172-626036-43	UL 1007 TOP COAT WIRE AWG 26 360MM ORANGE 10 X 10MM	2	1-L MAIN SPK (+)TO `L' TWEETER CAP
172-626036-43	UL 1007 TOP COAT WIRE AWG 26 360MM ORANGE 10 X 10MM	0	1-R MAIN SPK. (+) TO R TWEETER CAP J701-
172-726000-99	BARE WIRE 54MM	1	703,W631,198,1 99,336,338,C161 ,R164
172-726000-99	BARE WIRE 54MM	0	IC104 `12' TO `14'
190-283300-10	SENSOR P.C.B W/TWO LED(191199)	1	
190-283303-P6	CHANNEL P.C.B (13022000)	1	
190-733A10-08	AV P.C.B (301199)	1	
190-88200A-XE	POWER SWITCH P.C.B. (131196)	1	
191-101021-10	1 PIN DOUBLE INSOLATION WIRE #18 UL1672 L=200MM RED	1	FOR POWER SW P.C.B `B' TO SUB MAIN BOARD CN904 FOR POWER
191-101022-10	1 PIN DOUBLE INSOLATION WIRE #18 UL1672 L=200MM BLUE	1	SW P.C.B `A' TO SUB MAIN BOARD CN905
191-401041-10	4 PIN FLAT CABLE L=250MM	1	CN603 `1' TO SENSOR P.C.B
191-401041-10	4 PIN FLAT CABLE L=250MM	0	CN705 `1',`2' TO `2',`3' TO `3',`4' TO `4' CN703 `1' TO CN411
191-501201-10	5PIN FLAT CABLE ASS'Y L=500MM (1SIED CONNECTOR 1SIED SOCKET)	1	`1',`2'TO`2',`3'T O`3',`4'TO`4', `5'TO`5'.
191-501201-10	5PIN FLAT CABLE ASS'Y L=500MM (1SIED CONNECTOR 1SIED SOCKET)	0	CN702 `1' TO CN303
191-501235-10	5 PIN FLAT CABLE 480MM #26 UL 2547 1 SIDE SOCK,1 SIDE PLUG	1	`1',`2'TO`2',`3'T O`3',`4'TO`4', `5' TO `5',`6' TO `NC'
191-501235-10	5 PIN FLAT CABLE 480MM #26 UL 2547 1 SIDE SOCK,1 SIDE PLUG	0	CN601 `1' TO CN701
191-701209-10	7 PIN FLAT CABLE L=60MM (1 SIDE SOCKET, 1 SIDE PLUG)	1	`1',`2'TO`2',`3'T O`3',`4'TO`4',

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PART_NO	DESCRIPTION	QTY	LOCATION
191-701209-10	7 PIN FLAT CABLE L=60MM (1 SIDE SOCKET, 1 SIDE PLUG)	0	`5'TO`5',`6'TO`6', `7'TO`7'
515-303408-10	SELF-TAPPING SCREW 3 X 8 W/B/T (HARDEN)	4	FOR TWEETER SPK
515-303410-10	SELF-TAPPING SCREW 3 X 10 W/B/T (HARDEN)	5	FOR AV PCB
610-733A01-00	GIFT BOX TOP - 976(W) X 701(D) X 777(H)MM W/HANDLE {K33333K}	1	
810-052204-14	POLYBAG 5" X 22" X 0.04MM W/RE-CYCLING MARK {P/O MAT}	1	FOR AC LINE
884-283321-01	PRESET PLATE - ENG STD W/WHITE S.S {12 KEY}	1	
884-733A63-01	JACK COVER - ENG STD W/1-SCART W/AV-2/OUT1/SVHS {11 KEYS}	1	
896-882101-00	POWER BOARD COVER (UL)	1	FOR POWER SWITCH PCB
900-283301-05	FRONT CABINET (A) - SILVER 1008K SPRAY	1	
902-733A12-U0	BACK CABINET HI-PS UL 94V0 - BLK {W/O WOOFER}	1	
915-283301-00	JACK COVER - BLACK MOULDED	1	
915-283302-00	JACK COVER - BLACK MOULDED	1	
919-283301-02	PRESET DOOR - ENG STD W/SILVER 1008K SPRAY	1	
920-733A04-U0	CHASSIS MTG.BRACKET BLACK ABS UL94V0 (FOR MULT.)	1	
929-282903-00	LED BRACKET	1	
929-821C01-00	REMOTE BRACKET	1	ONLY USE AS 136-500038-00
939-932010-00	POWER SWITCH ADAPTOR	1	FOR POWER SWITCH
980-733A04-00	JACK PLATE W/BRASS INSERT (521-882001-00 2PCS)	1	
991-283301-03	POWER KNOB - SILVER 1008K SPY	1	
180-283350-41-CP	MAIN PCB		
001-234434-10	FLYBACK TRANSFORMER JF0101-0134D "SHEKOU JEWEL"	1	T402
012-502340-06	SEMI-FIXED RESISTOR EVND8AA 03B53 5KB	1	VR901
101-160984-94	STANDBY SWITCHING TRANSFORMER KB16E984 "HIGHLIGHT"	1	T907
101-191009-96	HORIZONTAL DRIVE TRANSFORMER (R1009)	1	T401
101-280493-95	LINE FILTER 20MH LB35T493A "HIGHLIGHT" FOR 33"	2	L901,902
101-490145-94	SWITCHING POWER TRANSFORMER KB49C1145K "HIGHLIGHT"	1	T901
102-371700-02	TANK COIL / AFC COIL KH-830898-00 COILS	1	T200
105-100103-08	FIXED INDUCTOR COIL 10 UH +-10% 0410 AXIAL "WITTIS"	2	L101,R151
105-109103-16	FIXED INDUCTIVE COIL 1UH 10% AL0305-1R0K "BOLUO DUIWANG"	1	L102
105-180103-08	FIXED INDUCTIVE COIL 18 UH +-10% 0410 "WITTIS"	1	L602
105-201106-06	CHOKE COIL 200UH HIGHLIGHT	2	L401,904
105-380202-16	LINEARITY COIL 38UH +-20% LX141322 "HIGHLIGHT"	1	L403
105-479103-08	FIXED INDUCTIVE COIL 4.7 UH 0410-4R7K "WITTIS"	1	L601
105-689103-16	FIXED INDUCTIVE COIL 6.8UH 10% AL0305-6R8K "BOLUO DUIWANG"	1	L105
105-821156-06	CHOKE COIL 820UH 0.37 OHM HIGHLIGHT	1	L402
106-210012-01	RELAY 12V OMIT-SS-112LM ORIGINAL	1	RLY901
113-100005-17	CARBON FILM RESISTOR 10 OHM 1/16W +-5%	4	R102,103,104,21 0
113-100505-75	METAL OXIDE FILM RESISTOR 10 OHM 3W +-5%	1	R464 R155,140,141,15
113-101005-17	CARBON FILM RESISTOR 100 OHM 1/16W +-5%	12	4,211,212,635,1 20,215,216,225, 207 R208,825,636,63
113-101005-17	CARBON FILM RESISTOR 100 OHM 1/16W +-5%	8	1,632,633,639,6 42

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PART_NO	DESCRIPTION	QTY	LOCATION
113-101005-17	CARBON FILM RESISTOR 100 OHM 1/16W +-5%	8	R637,638,309,310,313,316,923,932
113-101005-17	CARBON FILM RESISTOR 100 OHM 1/16W +-5%	7	R100,502,503,323,324,327,328
113-101005-17	CARBON FILM RESISTOR 100 OHM 1/16W +-5%	9	R504,329,630,143,148,163,162,307,308
113-101305-75	METAL OXIDE FILM RESISTOR 100 OHM 1W +-5%	1	R926
113-102005-17	CARBON FILM RESISTOR 1K OHM 1/16W +-5%	10	R421,116,223,149,922,920,928,161,171,320
113-102005-17	CARBON FILM RESISTOR 1K OHM 1/16W +-5%	10	R315,317,311,312,325,326,331,332,219,220
113-102005-17	CARBON FILM RESISTOR 1K OHM 1/16W +-5%	4	R146,521,109,139
113-102205-12	CARBON FILM RESISTOR 1K OHM 1/2W +-5%	3	R508,509,510
113-102305-75	METAL OXIDE FILM RESISTOR 1K OHM 1W +-5%	2	R463,511
113-1027L5-51	WIRE WOUND CEMENT RESISTOR 1K OHM 7W +-5% "SHENZHEN NANYAN"	1	R907
113-103005-17	CARBON FILM RESISTOR 10K OHM 1/16W +-5%	8	R221,608,615,605,616,156,322,W156
113-103005-17	CARBON FILM RESISTOR 10K OHM 1/16W +-5%	1	R514
113-103101-67	METAL FILM RESISTOR 10K OHM 1/4W +-1%	1	R607
113-104005-17	CARBON FILM RESISTOR 100K OHM 1/16W +-5%	5	R462,336,121,641,412
113-105005-17	CARBON FILM RESISTOR 1M OHM 1/16W +-5%	1	R917
113-109005-17	CARBON FILM RESISTOR 1 OHM 1/16W +-5%	4	R213,230,912,W147
113-122005-17	CARBON FILM RESISTOR 1.2K OHM 1/16W +-5%	1	R115
113-122205-12	CARBON FILM RESISTOR 1K2 OHM 1/2W +-5%	1	R468
113-123005-17	CARBON FILM RESISTOR 12K OHM 1/16W +-5%	1	R643
113-124005-17	CARBON FILM RESISTOR 120K OHM 1/16W +-5%	1	R450
113-152005-17	CARBON FILM RESISTOR 1.5K OHM 1/16W +-5%	5	R419,425,517,516,W136
113-152101-67	METAL FILM RESISTOR 1.5K OHM 1/4W +-1%	1	R458
113-153005-17	CARBON FILM RESISTOR 15K OHM 1/16W +-5%	3	R119,456,422
113-153405-75	METAL OXIDE FILM RESISTOR 15K OHM 2W +-5%	1	R440
113-158405-75	METAL OXIDE FILM RESISTOR 0.15 OHM 2W +-5%	2	R902,903
113-159905-51	WIRE WOUND CEMENT RESISTOR 1.5 OHM 10W +-5%	1	R901
113-181005-17	CARBON FILM RESISTOR 180 OHM 1/16W +-5%	1	R144
113-220005-17	CARBON FILM RESISTOR 22 OHM 1/16W +-5%	2	R438,909
113-221005-17	CARBON FILM RESISTOR 220 OHM 1/16W +-5%	6	R451,606,318,626,647,914
113-222005-17	CARBON FILM RESISTOR 2.2K OHM 1/16W +-5%	2	R617,518
113-223005-17	CARBON FILM RESISTOR 22K OHM 1/16W +-5%	11	R107,227,226,106,105,646,344,345,346,347,348
113-223005-17	CARBON FILM RESISTOR 22K OHM 1/16W +-5%	2	R349,138
113-223101-67	METAL FILM RESISTOR 22K OHM 1/4W +-1%	3	R611,614,101
113-2235Z5-75	METAL OXIDE FILM RESISTOR 22K OHM 3W +-5% "LIEAN-GIMN"	1	R905
113-224005-17	CARBON FILM RESISTOR 220K OHM 1/16W +-5%	1	R612
113-229005-17	CARBON FILM RESISTOR 2.2 OHM 1/16W +-5%	3	R229,108,217

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PART_NO	DESCRIPTION	QTY	LOCATION
113-243101-67	METAL FILM RESISTOR 24K OHM 1/4W +-1%	1	R919
113-271005-17	CARBON FILM RESISTOR 270 OHM 1/16 W +-5%	1	R201
113-272205-12	CARBON FILM RESISTOR 2.7K OHM 1/2W +-5%	1	R436
113-273005-17	CARBON FILM RESISTOR 27K OHM 1/16W +-5%	4	R640,823,337,147
113-330005-17	CARBON FILM RESISTOR 33 OHM 1/16W +-5%	2	R910,117
113-331005-17	CARBON FILM RESISTOR 330 OHM 1/16W +-5%	1	R130
113-331305-75	METAL OXIDE FILM RESISTOR 330 OHM 1W +-5%	1	R448
113-332005-17	CARBON FILM RESISTOR 3.3K OHM 1/16W +-5%	6	R623,625,471,472,467,645
113-332905-58	WIRE WOUND CEMENT RESISTOR 3K3 OHM 10W +-5% H=39MM TAIWAN O	1	R437
113-333005-17	CARBON FILM RESISTOR 33K OHM 1/16W +-5%	1	R921
113-339005-17	CARBON FILM RESISTOR 3.3 OHM 1/16W +- 5%	1	R918
113-339305-75	METAL OXIDE FILM RESISTOR 3.3 OHM 1W +-5%	1	R461
113-391005-17	CARBON FILM RESISTOR 390 OHM 1/16W +-5%	2	R228,142
113-392005-17	CARBON FILM RESISTOR 3.9K OHM 1/16W +-5%	2	R110,169
113-3938J1-67	METAL FILM RESISTOSR 39K OHM 1/8W +-1% "DONGGUAN CHANGAN"	1	R118
113-470005-17	CARBON FILM RESISTOR 47 OHM 1/16W +-5%	4	R150,153,520,301
113-470205-12	CARBON FILM RESISTOR 47 OHM 1/2W +-5%	1	R339
113-470405-75	METAL OXIDE FILM RESISTOR 47 OHM 2W +-5%	1	R515
113-471005-17	CARBON FILM RESISTOR 470 OHM 1/16W +-5%	5	R459,435,319,519,933
113-471205-75	METAL OXIDE FILM RESISTOR 470 OHM 1/2W +-5%	1	R908
113-472005-17	CARBON FILM RESISTOR 4.7K OHM 1/16W +-5%	11	R629,114,603,604,621,622,624,627,628,426,420
113-472005-17	CARBON FILM RESISTOR 4.7K OHM 1/16W +-5%	2	R457,447
113-472005-17	CARBON FILM RESISTOR 4.7K OHM 1/16W +-5%	1	R644
113-474005-17	CARBON FILM RESISTOR 470K OHM 1/16W +-5%	1	R170
113-475005-17	CARBON FILM RESISTOR 4.7M OHM 1/16W +-5%	2	R911,916
113-479005-17	CARBON FILM RESISTOR 4.7 OHM 1/16W +-5%	1	R209
113-561005-17	CARBON FILM RESISTOR 560 OHM 1/16W +-5%	2	R321,930
113-562005-17	CARBON FILM RESISTOR 5.6K OHM 1/16W +-5%	1	R931
113-565210-99	CARBON COMPOSITION RESISTOR 5.6M OHM 1/2W +-10%	2	R924,925
113-569605-51	WIRE WOUND CEMENT RESISTOR 5.6 OHM 5W +-5%	1	R934
113-681005-17	CARBON FILM RESISTOR 680 OHM 1/16W +-5%	1	R111
113-682005-17	CARBON FILM RESISTOR 6.8K OHM 1/16W +-5%	1	R122
113-683005-17	CARBON FILM RESISTOR 68K OHM 1/16W +-5%	2	R112,915
113-684005-17	CARBON FILM RESISTOR 680K OHM 1/16W +-5%	1	R473
113-688305-42	FUSING RESISTOR 0.68 OHM 1W +-5%	3	R443,469,460
113-688405-42	FUSEBLE RESISTOR 0.68 2W +-5%	3	R442,929,906
113-750005-17	CARBON FILM RESISTOR 75 OHM 1/16W +-5%	5	R304,305,306,330,303
113-750005-17	CARBON FILM RESISTOR 75 OHM 1/16W +-5%	4	R314,334,333,335
113-820005-17	CARBON FILM RESISTOR 82 OHM 1/16W +-5%	1	R167
113-822005-17	CARBON FILM RESISTOR 8.2K OHM 1/16W +-5%	3	R338,445,446
113-829105-17	CARBON FILM RESISTOR 8.2 OHM 1/4W +-5%	2	R423,424
113-829605-75	METAL OXIDE FILM RESISTOR 8.2 OHM 5W +-5%	1	R465
114-210262-00	THERMISTOR PTH451C262B	1	TH901
114-220150-00	THERMISTOR NTC5B-15.6A	1	R904
123-100340-94	CERAMIC CAP. 10PF 50V +-5% (NPO) {TAPING TYPE}	2	C230,231
123-101350-61	CERAMIC CAP. 100PF 50V +-10% (SL TYPE) {TAPING TYPE}	2	C228,620

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PART_NO	DESCRIPTION	QTY	LOCATION
123-102350-91	CERAMIC CAP. 0.001 MFD 50V +-10% (B TYPE) {TAPING TYPE}	3	C148,168,303
123-102850-10	CERAMIC CAP. 0.001 MFD 2KV +-10% MATSUSHITA	3	C504,934,936
123-103370-91	CERAMIC CAP. 0.01 MFD 50V +80 -20% {TAPING TYPE}	6	C149,113,221,22 2,483,321
123-104270-90	CERAMIC CAP. 0.1 MFD 25V +80 -20%	1	C132
123-104270-91	CERRAMIC CAP. 0.1 MFD 25V +80 -20% {TAPING TYPE}	11	C169,202,234,15 3,150,215,236,2 10,209,208,204 C226,319,615,61
123-104270-91	CERRAMIC CAP. 0.1 MFD 25V +80 -20% {TAPING TYPE}	8	6,109,323,418,4 17
123-104270-91	CERRAMIC CAP. 0.1 MFD 25V +80 -20% {TAPING TYPE}	7	C419,479,455A, 624,144,915,917
123-104370-01	CERAMIC CAP 0.1 MFD 50V+-5% (+80/-20%)	2	C432,928
123-122551-91	CERAMIC CAP. 0.0012 MFD 500V +-10% (B TYPE) MAT. {TAPING}	1	C442
123-150340-94	CERAMIC CAP. 15PF 50V +-5% (NPO) {TAPING TYPE}	2	C603,604
123-180340-94	CERAMIC CAP. 18PF 50V +-5% (NPO) {TAPING TYPE}	2	C110,111
123-220340-61	CERAMIC CAP. 22PF 50V +-5% (SL TYPE) {TAPING TYPE}	1	C216
123-222350-91	CERAMIC CAP. 0.0022 MFD 50V +-10% (B TYPE) {TAPING TYPE}	3	C612,613,456
123-222850-10	CERAMIC CAP. 0.0022 MFD 2KV +-10% MATSUSHITA	1	C908
123-223370-91	CERAMIC CAP. 0.022 MFD 50V +80 -20% {TAPING TYPE}	7	C136,606,172,17 4,105,106,107
123-270340-61	CERAMIC CAP. 27PF 50V +-5% (SL TYPE) {TAPING TYPE}	5	C617,618,619,60 7,609
123-271350-60	CERAMIC CAP. 270 PF 50V +-10% (SL TYPE)	1	C122
123-332370-90	CERAMIC CAP. 0.0033 MFD 50V	3	C112,162,163 C205,206,308,31
123-471350-61	CERAMIC CAP. 470PF 50V +-10% (SL TYPE) {TAPING TYPE}	9	0,330,331,332,3 33,334
123-471350-61	CERAMIC CAP. 470PF 50V +-10% (SL TYPE) {TAPING TYPE}	1	C335
123-472550-91	CERAMIC CAP. 0.0047 MFD 500V +-10% (B TYPE) {TAPING TYPE}	3	C453,485,454
123-472552-90	CERAMIC CAP. 0.0047 MFD 500V +-10% (B TYPE) SMALL SIZE	2	C905,906
123-509340-93	CERAMIC CAP. 5 PF 50V +-5% (NPO)	2	C218,229 (FOR X201)
123-560340-61	CERAMIC CAP. 56PF 50V +-5% (SL TYPE) {TAPING}	2	C621,622
123-561650-42	CERAMIC CAP. 560PF 1KV +-10% {TAPING TYPE}	7	C907,909,929,93 1,933,939,940
123-681350-61	CERAMIC CAP. 680PF 50V +-10% (SL TYPE) {TAPING}	1	C914
126-102071-0Q	MYLAR CAP. 0.001 MFD 50V +-10% {TAPING} "SHENZHEN XINGUANG"	1	C123
126-103071-0Q	MYLAR CAP. 0.01 MFD 50V +-10% {TAPING} "SHENZHEN XINGUANG"	3	C446,492,116
126-103150-41	METALIZED POLYPROPYLENE CAP. 0.01 MFD 1500VH +-5%	1	C462
126-104060-21	METALIZED POLYESTER FILM CAP. 0.1 MFD 63V +-5%	4	C143,114,227,92 7
126-104101-35	POLYPROPYLENE CAP. 0.1 MFD 100V +-10% "XIAMEN FALA"	1	C455
126-104210-41	METALIZED POLYPROPYLENE CAP. 0.1 MFD 250V +-5%	1	C502
126-152071-07	MYLAR CAP. 0.0015 MFD 50V +-10% {TAPING TYPE}	1	C458
126-153071-07	MYLAR CAP. 0.015 MFD 50V +-10% {TAPING TYPE}	4	C240,241,422,44 7
126-153071-0Q	MYLAR CAP. 0.015 MFD 50V +-10% {TAPING} "SHENZHEN XINGUANG"	1	C611
126-183079-07	MYLAR CAP. 0.018 MFD 50V +-10% {TAPING} "FALA"	1	C918
126-222071-07	MYLAR CAP. 0.0022 MFD 50V +-10% {TAPING TYPE}	2	C476,475
126-223401-31	POLYPROPYLENE CAP. 0.022MFD 400V +-10%	1	C496

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PART_NO	DESCRIPTION	QTY	LOCATION
126-224060-21	METALIZED POLYESTER FILM CAP. 0.22 MFD 63V +-5%	4	C180,428,429,101
126-273252-0P	MYLAR CAP. 0.027 MFD 250V +-20% "SHENZHEN XINGUANG"	1	C910
126-333071-07	MYLAR CAP. 0.033 MFD 50V +-10% {TAPING TYPE}	2	C201,213
126-472071-0Q	MYLAR CAP 0.0047 MFD 50V +-10% {TAPING} "SHENZHEN XINGUANG"	2	C141,142
126-473071-0Q	MYLAR CAP. 0.047 MFD 50V +-10% {TAPING} "SHENZHEN XINGUANG"	3	C181,182,916
126-473201-31	POLYPROPYLENE CAP. 0.047 MFD 200V +-10%	1	C491
126-473222-41	METALIZED POLYPROPYLENE CAP. 0.047 MFD 275V +-20% "OKAYA"	3	C902,903,904
126-474060-25	METALIZED POLYESTER FILM CAP. 0.47 MFD 63V +-5% XIAMEN FALA	7	C217,814,602,134,320,214,601
126-474222-45	METALIZED POLY.CAP. 0.47 MFD 275VAC +-20% "XIAMEN FALA"	1	C901
127-105042-0C	ELECT CAP. 1 MFD 16V +-20% "FOSHAN NO.3"	11	C316,317,305,306,307,311,312,313,314,315,506
127-105042-0C	ELECT CAP. 1 MFD 16V +-20% "FOSHAN NO.3"	2	C301,302
127-105042-23	ELECT. CAP. BIPOLAR 1 MFD 16V +-20%	2	C433,425
127-105072-03	ELECT. CAP. 1 MFD 50V +-20%	1	C431
127-105072-06	ELECT CAP. 1 MFD 50V +-20% {TAPING TYPE}	3	C219,140,137
127-106042-06	ELECT CAP. 10 MFD 16V +-20% {TAPING TYPE}	3	C147,325,154
127-106072-01	ELECT CAP 10MFD 50V +80 -20%	3	C614,912,406
127-106132-08	ELECT. CAP. 10 MFD 160V +-20% "JAMICON"	1	C460
127-106252-07	ELECT CAP. 10 MFD 250V +-20% "NICHICON"	1	C466
127-106252-08	ELECT CAP. 10 MFD 250V +-20% "JAMICON"	1	C501
127-107042-06	ELECT CAP. 100 MFD 16V +-20% {TAPING TYPE}	6	C220,203,108,235,923,925
127-107062-06	ELECT CAP. 100 MFD 35V +-20% {TAPING TYPE}	3	C430,494,930
127-107092-01	ELECT. CAP 100MFD 63V +-20% 10X12.5	1	C452
127-107132-07	ELECT. CAP. 100 MFD 160V +-20% "NICHICON"	2	C443,444
127-108042-06	ELECT CAP. 1000 MFD 16V +-20% {TAPING TYPE}	4	C448,926,450,416
127-108052-03	ELECT. CAP. 1000 MFD 25V +-20%	3	C426,427,497
127-108062-07	ELECT CAP. 1000 MFD 35V +-20% "NICHICON"	1	C932
127-225042-03	ELECT. CAP. 2.2 MFD 16V +-20%	7	C173,145,102,103,104,232,913
127-225072-06	ELECT CAP. 2.2 MFD 50V +-20% {TAPING TYPE}	1	C324
127-226042-06	ELECT CAP. 22 MFD 16V +-20% {TAPING TYPE}	1	C608
127-227042-06	ELECT CAP. 220 MFD 16V +-20% {TAPING TYPE}	9	C151,175,322,605,326,152,822,507,488
127-227062-06	ELECT CAP. 220 MFD 35V +-20% {TAPING TYPE}	1	C459
127-227132-0H	ELECT CAP. 220 MFD 160V +-20% "SHENZHEN JIGUANG"	1	C938
127-228052-03	ELECT. CAP. 2200 MFD 25V +-20%	1	C451
127-228062-07	ELECT CAP. 2200 MFD 35V +-20% "NICHICON"	1	C935
127-336042-06	ELECT CAP. 33 MFD 16V +-20% {TAPING TYPE}	1	C823
127-337042-03	ELECT CAP. 330 MFD 16V +-20%	1	C503
127-337422-07	ELECT CAP. 330 MFD 420V +-20% "NICHICON"	1	C911
127-474062-01	ELECT CAP. 0.47UF 35V +80% -20%	5	C146,159,160,155,156
127-475072-01	ELECT. CAP. 4.7UF 50V +-20%	2	C970,978
127-475102-26	ELECT CAP. BIPOLAR 4.7 MFD 100V +-20% {TAPING TYPE}	1	C465
127-476042-06	ELECT CAP. 47 MFD 16V +-20% {TAPING TYPE}	5	C224,223,171,170,919
127-476072-01	ELECT.CAP.47MFD 50V +-20%	1	C924
127-477042-06	ELECT CAP. 470 MFD 16V +-20% {TAPING TYPE}	3	C117,207,118



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PART_NO	DESCRIPTION	QTY	LOCATION
127-478068-01	ELECT CAP. 4700MFD 35V	1	C469 D101,102,103,10
130-134148-01	SILICON DIODE IN4148	12	4,301,302,111,4 10,412,107,601, 105 D106,602,603,50
130-134148-01	SILICON DIODE IN4148	10	7,508,509,510,5 12,901,402 D906,907,908,91
130-310001-00	RECTIFIER DIODE EU1 0.25A/400V SANKEN	4	1
130-310005-00	BRIDGE RECTIFIER DIODE D5SB "KARIN"	1	BR901
130-310012-00	RECTIFIER DIODE RU2 SANKEN	1	D411
130-310043-00	RECTIFIER DIODE RU4B SANKEN	1	D408
130-310120-00	RECTIFIER DIODE FMP-G12S SANKEN	1	D910
130-310228-50	DAMPER DIODE BY228 "PHILIPS"	1	D409
130-310345-00	RECTIFIER DIODE 3JH45 TOSHIBA 3.0A 600V	1	D406
130-310600-50	RECTIFIER DIODE BYV28-600 "PHILIPS"	1	D912
130-310600-R0	BRIDGE RECTIFIER DIODE BYV27- 600 "CHANGZHOU YINHE"	2	D904,903
130-314004-A0	RECTIFIER DIODE IN4004BL WILLAS	3	D501,502,503 D405,407,902,41
130-315295-00	RECTIFIER DIODE S5295G TOSHIBA	5	5,905
130-410039-01	ZENER DIODE 3.9V	1	ZD602
130-410047-01	ZENER DIODE MIZJ407B (4.7V 1/2W)	1	ZD902
130-410056-01	ZENER DIODE 5.6V	2	ZD102,901
130-410068-01	ZENER DIODE 6.8V 1/2W +-5%	1	ZD503
130-410082-01	ZENER DIODE 8.2V	1	ZD402
130-410091-01	ZENER DIODE 9.1V 1/2W +-5%	2	ZD301,ZD405
130-410574-00	ZENER DIODE UPC 574J NEC	1	ZD406
131-211015-02	TRANSISTOR A1015Y "GUANZHOU"	11	Q109,105,406,1 01,102,103,604, 301,504,502,602
131-220940-16	TRANSISTOR 2SB940P	1	Q407
131-231809-02	TRANSISTOR 2SC1809 "GUANGDONG SEMI-CONDUCTOR"	1	Q104
131-231815-02	TRANSISTOR C1815Y "GUANZHOU"	6	Q112,601,403,1 06,111,503
131-232482-0A	TRANSISTOR 2SC2482 TOSHIBA	3	Q405,903,902
131-233619-00	TRANSISTOR 2SC3619	1	Q401
131-242553-00	TRANSISTOR 2SD2553 TOSHIBA	1	Q402
131-460060-00	TRANSISTOR PHW7N60E PHILIPS	1	Q904
131-462369-0A	TRANSISTOR PH2369 PHILIPS	1	Q603
131-470135-14	TRANSISTOR SE135N SANKEN	1	Q901
133-000621-14	I.C. P621 (GRL) TOSHIBA	1	IC903
133-101219-14	I.C. TA1219AN I2C AV SELECTOR "TOSHIBA"	1	IC301
133-101501-33	I.C. TEA1501 PHILIPS	1	IC901
133-101504-33	I.C. TEA1504/N2 PHILIPS	1	IC902
133-103722-12	I.C. M37221EASP MITSUBISHI (O.T.P.)	1	IC602
133-106107-33	I.C. TDA6107Q PHILIPS	1	IC501
133-108354-33	I.C. TDA8354Q/N1 PHILIPS	1	IC405
133-108598-33	I.C. PCF8598C-2 PHILIPS	1	IC601
133-108843-33	I.C. TDA8843 PHILIPS	1	IC101
133-109801-33	I.C. TDA9801/V1 PHILIPS	1	IC202
133-202616-33	I.C. TDA2616Q/N1 PHILIPS	1	IC403
133-207808-31	IC L7808C-V SGS-THOMSON	1	IC904

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PART_NO	DESCRIPTION	QTY	LOCATION
133-207812-31	IC L7812CV SGS-THOMSON	1	IC407
133-517805-61	I.C. KA7805 SAMSUNG	1	IC306
137-245760-30	CRYSTAL 24.576MHZ	1	X201
137-357954-25	CRYSTAL 3.57954 MHZ +-30PPM 18PF "JOIN MARK"	1	X102
137-443362-22	CRYSTAL 4.433619 MHZ +-30PPM 20PF M.CAP 20.6PF "JOIN MARK"	1	X101
137-800000-20	CRYSTAL 8.0 MHZ KITRONICS	1	X601
160-101001-08	PIN CONNECTOR 1 PIN PLUG STRAIGHT	1	FOR CN501
160-102255-27	PIN CONNECTOR 2 PINS PLUG STRAIGHT (UL) (S.H.S)	1	CN402
160-102805-08	PIN CONNECTOR 2 PIN PLUG STRAIGHT	1	CN901
160-103255-27	PIN CONNECTOR 3 PINS PLUG	1	CN401
160-104255-27	PIN CONNECTOR 4 PINS PLUG (SHS)	2	CN408,410
160-104805-08	PIN CONNECTOR 4 PIN PLUG STRAIGHT	1	CN409
160-105255-27	PIN CONNECTOR 5 PINS WAFER 2.5 PITCH	2	CN902,702
160-106255-27	PIN CONNECTOR 6 PINS WAFER (SHS) S11-W	1	CN405
160-107255-27	PIN CONNECTOR 7 PIN PLUG	1	CN106
160-109255-27	PIN CONNECTOR 9 PINS PLUG	1	CN406
160-112255-27	WAFER 12 PINS 2.5MM PITCH STRAIGHT TYPE	1	CN302
161-305002-00	DIN CONNECTOR #HDC-020 "MIKI"	1	SK303
161-470405-01	RCA JACK 2 PINS TX2-EA2W WHITE "KWOK GUANG"	3	J004,006,008
161-471004-01	RCA JACK (HARDEN) (JPJ1022-01-020) RED	2	J003,007
161-473203-00	RCA JACK 2 PIN UIC-032-04BY YELLOW "UNITRONIC"	2	J001,002
161-473204-20	RCA JACK 2 PIN (RED) "CONIC"	1	J005
161-481105-32	RF CONNECTOR UIC-0421-01-010A CHINA LANDMARK	1	
161-541205-05	CRT SOCKET GZS10-2-1	1	
161-682102-22	21 PIN SCART SOCKET	1	SK301
172-620020-40	UL 1007 TOP COAT WIRE AWG 20 200MM BLACK 10 X 10 MM	2	POWER P.C.B GND TO GND
172-626008-40	UL 1007 TOP COAT WIRE AWG26 80MM BLACK 10 X 10 MM	2	IC405 LUG TO POWER PCB M Q402 LUG TO
172-626008-40	UL 1007 TOP COAT WIRE AWG26 80MM BLACK 10 X 10 MM	0	POWER P.C.B 'K' W601-604,101-
172-726000-99	BARE WIRE 54MM	11.2	112,802-804,115- 120 W301-322,324-
172-726000-99	BARE WIRE 54MM	0	334,401-440,606- 624
172-726000-99	BARE WIRE 54MM	0	R302,145,609,22 2,819,224,152,4 32,470,441,C133 L405,501,502,50
172-726000-99	BARE WIRE 54MM	0	3,D511,ZD502, W501,502
172-726000-99	BARE WIRE 54MM	0	CN403 `3' TO '4', `6' TO `7'
172-726000-99	BARE WIRE 54MM	0	W201-204,206- 179,335
172-726000-99	BARE WIRE 54MM	0	W137-141,150- 155,157-159,127- 135,161-165,

## CTF803

PART_NO	DESCRIPTION	QTY	LOCATION
172-726000-99	BARE WIRE 54MM	0	R113,444,913,C 318,815,971,977 ,W806
172-726000-99	BARE WIRE 54MM	0	W144-146,181- 182,901-915,121- 126,625-630 D906,909,911,40
179-001010-00	OIL SLEEVING 1 mm DIA.	0.23	6,408,409,411,R 443,460,469 L=200MM,100M
179-105000-00	UL PVC TUBE 5mm DIA	0.2	M FOR SPK.`L' 100MM FOR SPK.`R'
179-105000-00	UL PVC TUBE 5mm DIA	0.12	120MM FOR AC LINE CORD
179-110500-00	UL PVC TUBE 11MM DIA.	0.06	60MM FOR AC LINE CORD
179-403030-00	3MM DIA. SHRINKABLE TUBE	0.04	FOR 750- 063102-01
179-403080-00	SHRINKABLE TUBE	0.03	30MM FOR AC LINE CORD
182-224000-03	FUSE T4A 250V	1	F901
184-350805-08	AXIAL LEAD BEAD INDUCTORS "COILS"	6	FB401,402,901,9 02,904,201
190-382902-P0	CRT P.C.B.(19012000)	1	
190-733A09-15	SUB. MAIN BAORD	1	
190-733A13-01	MAIN P.C.B (060300)	1	
191-012207-15	12 PIN FLAT CABLE L=80MM #26 (1 SIDE SOCKET, 1 SIDE PLUG)	1	CN302 `1' TO CN009 `1`,`2'TO`2`,`3'T O`3`,`4'TO`4`,` `5'TO`5`,`6'TO`6' `,`7'TO`7`,`8'TO`8 `,`9'TO`9`,` `10'TO`10`,`11'T O`11`,`12'TO`12'
191-012207-15	12 PIN FLAT CABLE L=80MM #26 (1 SIDE SOCKET, 1 SIDE PLUG)	0	
191-012207-15	12 PIN FLAT CABLE L=80MM #26 (1 SIDE SOCKET, 1 SIDE PLUG)	0	
191-101007-10	1 PIN SOCKET ASS'Y L=350MM (DOUBLE INSOLATION) BLACK	1	CRT GND TO CN501
191-201056-10	2 PIN FLAT CABLE L=705MM AWG26 UL2468	1	CN402 `2' TO SPK.R `-',`1' TO SPK.R `+'`
191-301072-10	3 PIN FLAT CABLE L=705MM AWG26 UL2468	1	CN401 `1' TO SPK. L `+`,`2` `3' TO SPK `-'`
191-401006-10	4 PIN SOCKET ASS'Y L=550MM	1	CN409 FOR D.Y CN410`1'TO CRT 180V,`2` `3' TO GND,`4'TO `FF'
191-401044-10	4 PIN FLAT CABLE L=500MM AWG26 UL2468	1	
191-401229-10	4 PIN FLAT CABLE L=60MM AWG26 UL2468 WHITE	1	CN408 TO CN301

## CTF803

PART_NO	DESCRIPTION	QTY	LOCATION
191-501220-10	5 PIN FLAT CABLE L=60MM (1 SIDE SOCKET, 1 SIDE PLUG)	1	CN902 TO CN602
191-601228-10	6 PIN FLAT CABLE L=60MM (1 SIDE SOCKET, 1 SIDE PLUG)	1	CN405 TO CN102
191-701009-10	7 PIN FLAT CABLE L=500MM (PIN 1-4, 5-7)	1	CN106 `1' TO CN503 `1', `2' TO `2', `3' TO `3' `4' TO `4', `5' TO `5', `6' TO `6', `7' TO `7'
191-701009-10	7 PIN FLAT CABLE L=500MM (PIN 1-4, 5-7)	0	CN406 TO CN101
191-901209-10	9 PIN FLAT CABLE L=60MM AWG26 UL2468 WHITE	1	RF SPLITTER
402-522001-11	COAXIAL CABLE W/DIN, RCA 250MM W/3 SOLDERING POINT "MIKI"	1	OR RF JACK TO TUNER 1 2 FOR 779- 733A03-00, 2 FOR 779- 733A04-00 1 FOR 779- 7330A5-00, 1 FOR IC501 FOR S.V SOCKET MTG FOR HEAT SINK TO FBT
504-305006-10	MACHINE SCREW 3 X 6 B/M (WHITE)	4	4 FOR 781- 932801-00 MTG 18-MAIN BORAD FOR JACK PLATE MTG
504-305008-10	MACHINE SCREW 3 X 8 B/M (WHITE)	2	FOR 781- 733A11-01 MTG
514-260410-00	SELF-TAPPING SCREW 2.6 X 10 B/T (HARDEN) {BLACK}	1	FOR 781- 733A11-01 MTG
514-400312-10	SELF-TAPPING SCREW 4 X 12 B/A (HARDEN)	1	FOR 781- 733B02-01, 2 FOR 781- 733A03-00
515-303408-10	SELF-TAPPING SCREW 3 X 8 W/B/T (HARDEN)	4	4 FOR IC403, IC404
515-303410-10	SELF-TAPPING SCREW 3 X 10 W/B/T (HARDEN)	18	
515-303410-10	SELF-TAPPING SCREW 3 X 10 W/B/T (HARDEN)	2	
515-353410-10	SELF-TAPPING SCREW 3.5 X 10 W/B/T (HARDEN)	1	
516-300410-10	SELF-TAPPING SCREW 3 X 10 P/T (HARDEN)	2	
517-303312-10	SELF-TAPPING SCREW 3 X 12 W/A W/H=7MM (HARDEN)	6	
517-303312-10	SELF-TAPPING SCREW 3 X 12 W/A W/H=7MM (HARDEN)	4	
540-020030-01	EYELET 2 X 3 MM	8	3-T402 `1', `5', `10', 1-`402 `C', 4-L402, L403
540-020030-01	EYELET 2 X 3 MM	1	1-Q904 `D'
580-101261-01	CABLE TIE L=100MM	7	2-FBT, 1-S901, 2- CN409, 1- CN502, 1-CN503.
629-025380-03	MICA SHEET 25 X 38 X 03 MM "SHENZHEN EVERGREEN PRECISION"	1	FOR Q904
630-115512-00	FIBRE WASHER 11 X 5.5 X 1.2 mm	1	FOR IC403

## CTF803

PART_NO	DESCRIPTION	QTY	LOCATION
668-881301-07	FUSE LABEL (A) - (T4A/250V) 18 X 5 mm	1	
728-931302-00	SENSOR P.C.B. SUPPORT	2	
746-063101-01	AC LINE CORD PIN	2	
750-063101-00	SOLDERING LUG LEG:8X4MM	3	FOR IC405,Q402,IC901
750-063102-01	35MM SOLDERING LUG OD:7 ID:3.2 LEG:4X35MM	1	1 FOR AC LINE CORD
750-063102-01	35MM SOLDERING LUG OD:7 ID:3.2 LEG:4X35MM	1	FOR TUNER TO ANT PCB
766-686801-00	FUSE HOLDER	2	FOR F901
779-613A01-02	IRON HEAT SINK	1	FOR IC501
779-733A03-00	IRON HEAT SINK	1	FOR IC306,IC407
779-733A04-00	IRON HEAT SINK	1	FOR IC903,IC904
779-733A05-00	IRON HEAT SINK	1	FOR Q401
781-733A03-00	ALUMINIUM HEAT SINK (POWER)	1	FOR Q904,BR901
781-733A11-01	ALUMINIUM HEAT SINK	1	FOR IC403,IC404
781-733B02-01	ALUMINIUM HEAT SINK	1	FOR IC405,Q402,Q407
781-932801-00	ALUMINIUM HEAT SINK (POWER)	1	FOR 781- 733B02-01
783-733A01-00	SHIELD CAN	1	FOR MAIN P.C.B IC101 FOR SHIELD
783-733A04-00	SHIELD CAN COVER	1	CAN 783- 733A01-00
113-103005-17	CARBON FILM RESISTOR 10K OHM 1/16W +-5%	2	R802,804
113-331005-17	CARBON FILM RESISTOR 330 OHM 1/16W +-5%	2	R618,619
113-682005-17	CARBON FILM RESISTOR 6.8K OHM 1/16W +-5%	1	R803
123-100340-94	CERAMIC CAP. 10PF 50V +-5% (NPO) {TAPING TYPE}	1	C807
123-104270-91	CERRAMIC CAP. 0.1 MFD 25V +80 -20% {TAPING TYPE}	2	C806,808
126-682071-0Q	MYLAR CAP 0.0068 MFD 50V +-10% {TAPING} "SHENZHEN XINGUANG"	1	C805
126-683071-0Q	MYLAR CAP. 0.068 MFD 50V +-10% {TAPING} "SHENZHEN XINGUANG"	1	C804
130-134148-01	SILICON DIODE IN4148	4	D801,802,803,804
133-386129-48	I.C. Z86129PSC "ZILOG" FOR CCD	1	IC801
113-100005-17	CARBON FILM RESISTOR 10 OHM 1/16W +-5%	1	R131
113-101005-17	CARBON FILM RESISTOR 100 OHM 1/16W +-5%	5	R132,124,125,126,123
113-122005-17	CARBON FILM RESISTOR 1.2K OHM 1/16W +-5%	1	R127
113-183005-17	CARBON FILM RESISTOR 18K OHM 1/16W +-5%	1	R128
113-221005-17	CARBON FILM RESISTOR 220 OHM 1/16W +-5%	1	R133
123-101350-61	CERAMIC CAP. 100PF 50V +-10% (SL TYPE) {TAPING TYPE}	2	C184,185
123-104270-91	CERRAMIC CAP. 0.1 MFD 25V +80 -20% {TAPING TYPE}	1	C195
123-221340-90	CERAMIC CAP.220pF 50V +80 -20%	2	C194,189
123-331350-61	CERAMIC CAP. 330PF 50V +-10% (SL TYPE) {TAPING TYPE}	1	C183
126-334060-21	METALIZED POLYESTER FILM CAP. 0.33 MFD 63V +-5%	6	C187,188,190,192,193,158
127-107042-06	ELECT CAP. 100 MFD 16V +-20% {TAPING TYPE}	1	C196
133-104565-33	I.C. TDA4565 PHILIPS	1	IC102

## CTF803

PART_NO	DESCRIPTION	QTY	LOCATION
181-200TXT-00-00	TXT PCB ASSY		
113-101005-17	CARBON FILM RESISTOR 100 OHM 1/16W +-5%	5	R820,821,840,841,842
113-102005-17	CARBON FILM RESISTOR 1K OHM 1/16W +-5%	2	R826,845
113-123005-17	CARBON FILM RESISTOR 12K OHM 1/16W +-5%	1	R838
113-273005-17	CARBON FILM RESISTOR 27K OHM 1/16W +-5%	1	R844
113-472005-17	CARBON FILM RESISTOR 4.7K OHM 1/16W +-5%	12	R805,807,808,809,811,812,813,814,815,816,817,818
113-472005-17	CARBON FILM RESISTOR 4.7K OHM 1/16W +-5%	4	R827,828,836,837
113-479005-17	CARBON FILM RESISTOR 4.7 OHM 1/16W +-5%	3	R833,834,835
113-563005-17	CARBON FILM RESISTOR 56K OHM 1/16W +-5%	1	R810
123-104270-91	CERRAMIC CAP. 0.1 MFD 25V +80 -20% {TAPING TYPE}	5	C809,811,820,812,816
123-220340-94	CERAMIC CAP. 22PF 50V +-5% (NPO) {TAPING TYPE}	2	C817,818
127-106042-06	ELECT CAP. 10 MFD 16V +-20% {TAPING TYPE}	2	C813,819
127-225042-03	ELECT. CAP. 2.2 MFD 16V +-20%	1	C821
133-102421-31	I.C. ST24C02AB1 SGS	1	IC803
133-115261-33	I.C. SAA5261P/S117 10-PAGE PHILIPS	1	IC802
137-120000-32	CRYSTAL 12 MHZ +-30PPM "QEL"	1	X801
172-726000-99	BARE WIRE 54MM	1	W801,805,807,808,829-831
012-502330-06	SEMI-FIXED RESISTOR EVND2AA 03B53 5KB	1	VR020
101-190188-96	S/N MODERATION COIL TPC-188-1H A "JIANGSU HAIAN"	1	T020
105-281052-28	PIN CUSHION COIL 751HA "JIANGSU HAIAN"	1	L020
113-101105-17	CARBON FILM RESISTOR 100 OHM 1/4W +-5%	1	R021
113-222005-17	CARBON FILM RESISTOR 2.2K OHM 1/16W +-5%	1	R020
126-274210-41	METALIZED POLYPROPYLENE CAP. 0.27 MFD 250V +-5%	1	C020
160-104255-27	PIN CONNECTOR 4 PINS PLUG (SHS)	1	CN413
190-283300-20	SOUTH NORTH ATIGNMENT BOARD (271099)	1	CN413 `1' TO SOUTH NORTH ATIGNMENT BOARD
191-401041-10	4 PIN FLAT CABLE L=250MM	1	CN020 `1','2' TO `2','3' TO `3','4' TO `4'
191-401041-10	4 PIN FLAT CABLE L=250MM	0	
515-303408-10	SELF-TAPPING SCREW 3 X 8 W/B/T (HARDEN)	1	FOR HEAT SINK

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# TEAC®

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<b>TEAC CORPORATION</b>	3-7-3, Nakacho, Musashino-shi, Tokyo 180, Japan.	Phone: (0422) 52-5081
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TEAC AUSTRALIA PTY., LTD.	A.C.N. 005 408 462	
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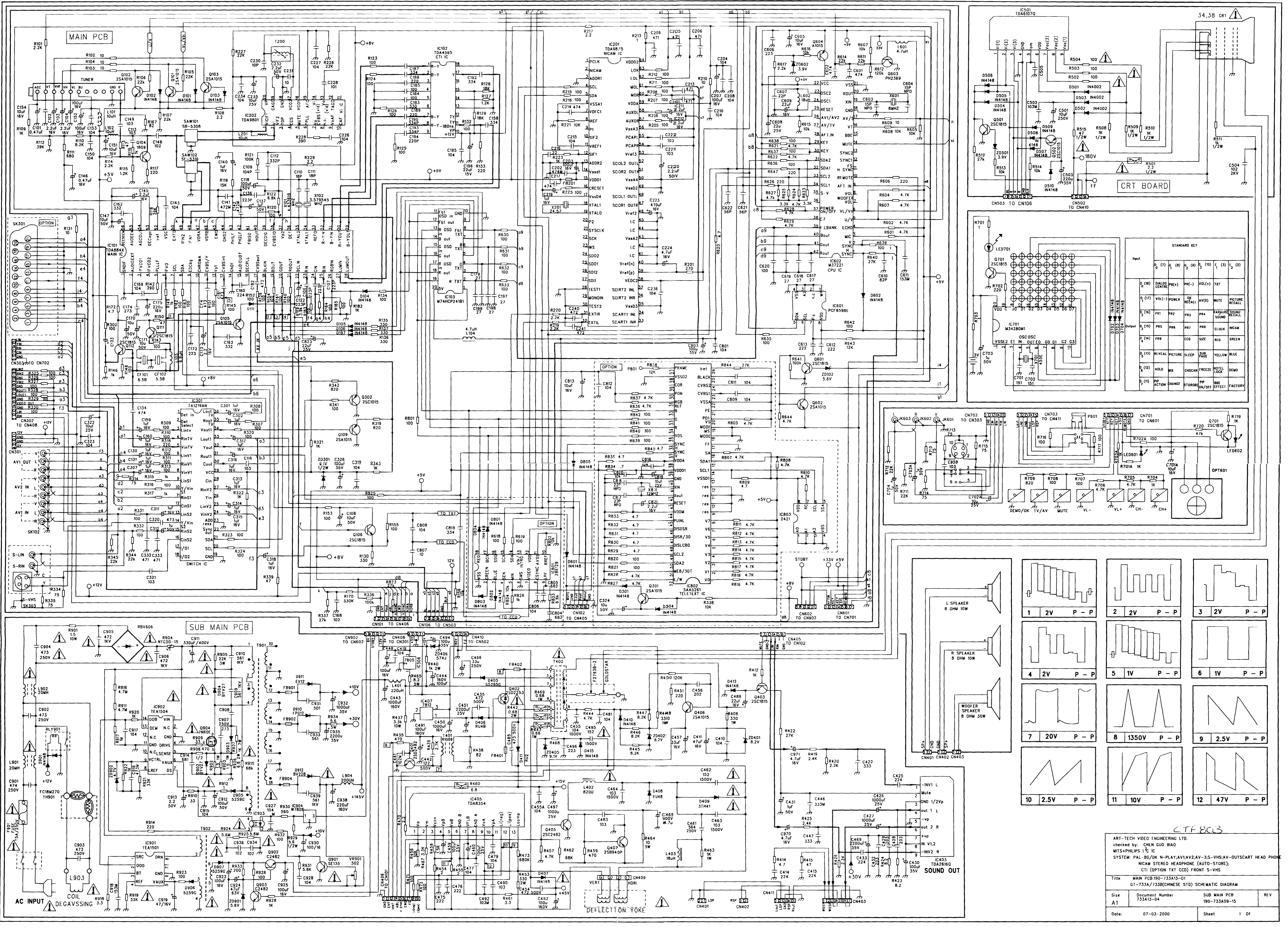
HEAD OFFICE	106 Bay Street, Port Melbourne, VIC 3207.	Phone: (03) 9644-2442
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NSW OFFICE	Unit 4, 175-179 James Ruse Drive, Rosehill, NSW 2142.	Phone: (02) 8845-1155
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QLD OFFICE	335 Montague Road, West End, QLD 4101.	Phone: (07) 3844-8866
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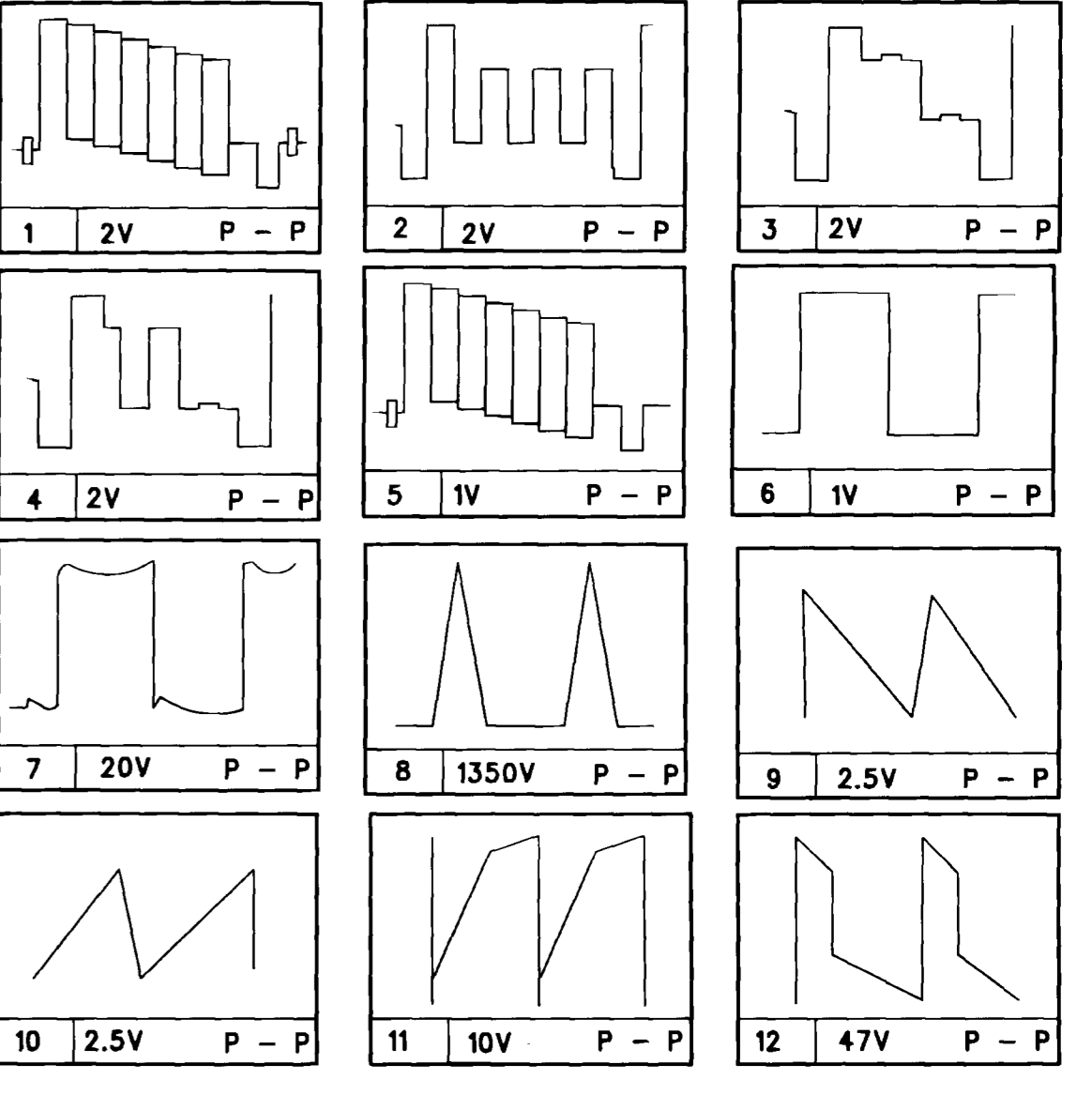
WA OFFICE	19 Vinnicombe Drive, Canningvale, WA 6155.	Phone: (08) 9455-5995
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SA OFFICE	Cnr. Burbridge & Marion Roads, Cowandilla, SA 5033.	Phone: (08) 8234-1044
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STANDARD KEY

Input	(7)	(8)	(9)	(10)	(1)	(3)	(2)
(8) (9)	DIAGNOSIS CENTRE	POWER ON RECALL	AV(0)	MUTE	PICTURE RECALL		
(9) (10)	PK1	PK2	PK3	PK4	RECALL SOUND		
(10) (1)	PK5	PK6	PK7	PK8	CLOCK	MCAM	
(1) (3)	REVEAL	PICTURE	SLEEP	SUB PAGE	YELLOW	BLUE	
(3) (2)	HOLD	RECALL	CHSCAN	FREEZE	HOTEL LOCK	DEMO	
(2) (7)	OPTION CHANGE	STORAGE	PIP ON/OFF	BEE EFFECT	FACTORY		



ART-TECH VIDEO ENGINEERING LTD.  
 checked by: CHEN GUO BIAO  
 MITS+PHILIPS I.C. IC  
 SYSTEM: PAL-PG/OK-N-PLAY;AV1AV2;AV-3S-VHS;AV-OUTSICR HEAD PHONE  
 NICAM STEREO HEADPHONE (AUTO-STORE)  
 C11 (OPTION TXT C01) FRONT S-VHS

Title: MAIN PCB:190-733A13-01  
 G1-733A/733B(CHINESE STD) FRONT S-VHS

Size: A1  
 Document Number: 733A13-04  
 SUB MAIN PCB: 190-733A09-15  
 REV: 1

Date: 07-03-2000  
 Sheet: 1 of 1