

NOBLEX

MODELO:

14TC612

20TC613

MANUAL DE SERVICE

*** * * CONTENTS * * ***

Safety Instructions
Block Diagram
General Alignment Instructions.....
Picture I-F Sweep Alignment
Installation and Service Adjustment....
Trouble Shooting Charts
Connecting Diagram.....
Circuit Diagram.....
Exploded view.....
Replacement Parts List

*** * ELECTRICAL SPECIFICATIONS * ***

Antenna Input Impedance
75ohm Unbalanced type
Tuning Range.....
VHF SECTION : CH.2 - W + 11
UHF SECTION : CH.W + 12 - 69
Power Input
Ac 110/220, 50/60 Hz
Color System
3SYSTEM(NTSC,PALM/N)
Power Consumption65 Watts(14")
75 Watts(20")
Picture Tube 14",20"
Cabinet..... Plastic Portable

*** * * WARNING * * ***

In order to prevent electric shock, do not remove cover.

No user-serviceable parts inside. Refer servicing to qualified service personal.

SAFETY INSTRUCTIONS

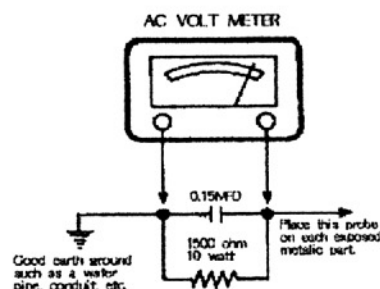
■ SAFETY PRECAUTION

WARNING: Service should not be attempted by anyone unfamiliar with the necessary precaution on this receiver. The following are the necessary precaution to be observed before servicing.

1. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatterproof goggles and keep picture tube away from the body while handling.
2. When replacing chassis in the cabinet, always be certain that all the protective devices are put back in place, such as: nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.
3. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, screwheads, metal overlays, control shafts etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly onto a 110/220V AC outlet. Use an AC voltmeter having 500 ohms per volt or more sensitivity in the following manner.

board.

Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 mfd. AC type capacitor, between a known good earth ground (water pipe, conduit etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and 0.15 mfd capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts RMS. This corresponds to 0.2 milliamp. AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



[Fig 1]

■ PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement part which have these special safety characteristics are identified in this manual and its

supplements. Electrical components having such features are identified by shading on the schematic diagram and the part list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have same safety characteristics as specified in the parts list may create shock, fire or other hazards.

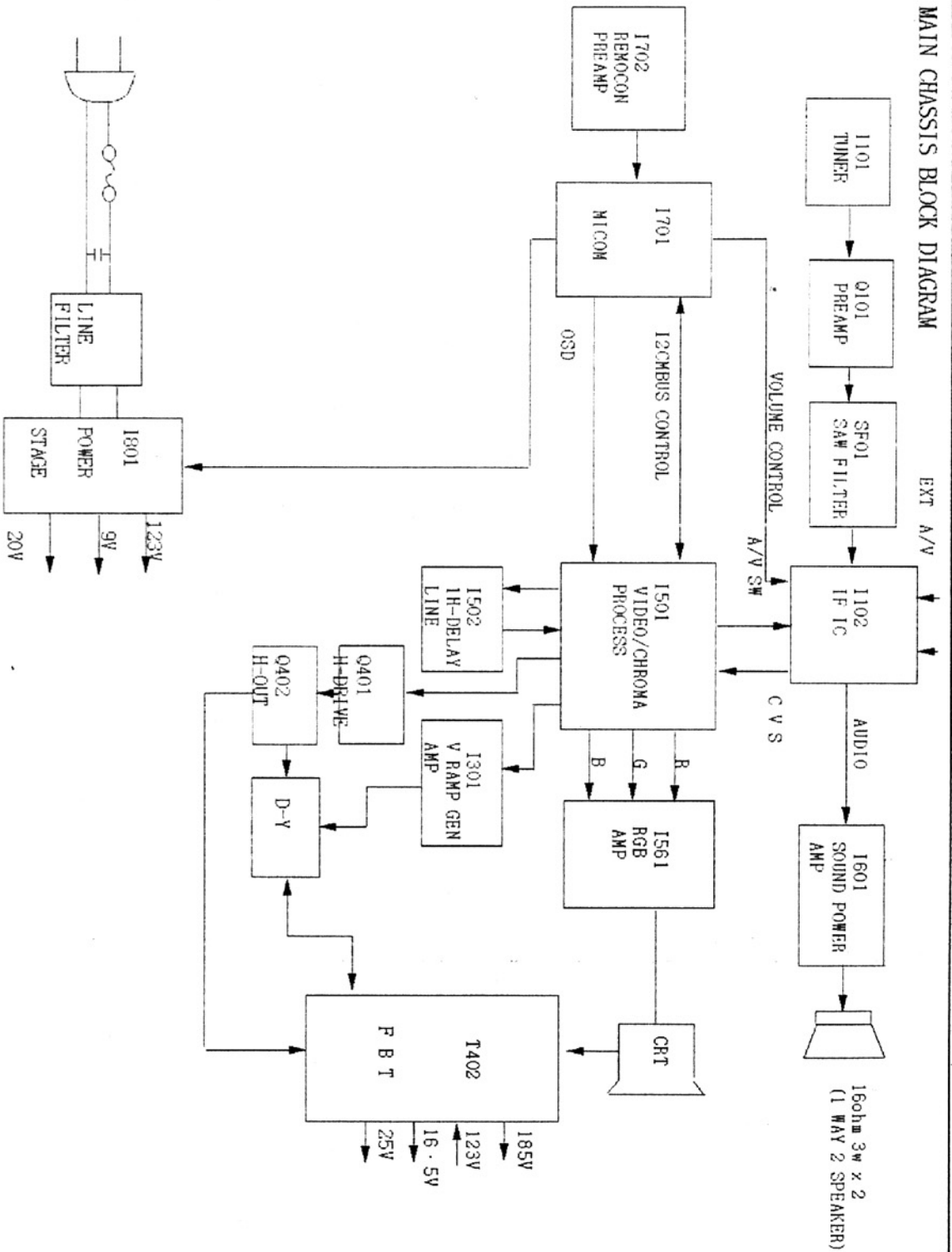
SERVICE NOTES

1. When replacing parts or circuit boards, clamp the lead wires to terminals before soldering.
2. When replacing a high wattage resistor (metal oxide film resistor in the circuit board) ke-

3. Keep wires away from high voltage or high temperature components.

BLOCK DIAGRAM

■ MAIN CHASSIS BLOCK DIAGRAM



GENERAL ALIGNMENT INSTRUCTIONS

THIS RECEIVER IS TRANSISTORIZED SPECIAL CARE MUST BE TAKEN WHEN SERVICING, READ THE FOLLOWING NOTES BEFORE ATTEMPTING ALIGNMENT.

- . Alignment requires an exacting procedure and should be undertaken only when necessary.
- . The test equipment specified or its equivalent is required to perform the alignment properly.
Use a equipment which does not meet these requirements may result in improper alignment.
- . Correct matching of the equipment is essential. Failure to use proper matching will result in responses which cannot represent the true operation of the receiver.
- . Use of excessive signal from a sweep generator can cause overloading of receiver circuit overloading should be avoided to obtain a true response curve. Insertion of markers from the marker generator should not cause distortion of the response.
- . The AC Power line voltage should be kept within from 100 to 250 volts while alignment.
- . Do not attempt to connect or disconnect any wire while the receiver is in operation
Make sure the power cord is disconnected before replacing any parts in the receiver.

■ TEST EQUIPMENTS

Digital voltmeter	National Model VP-2600A or equivalent.
Oscilloscope	Tektronix Model 2215A or equivalent.
Direct/Low-capacity probe.....	Tektronix Model P6120 or equivalent. (Accessory of oscilloscope)
Color-Bar/Dot/Crosshatch generator.....	Tektronix Model 146 or equivalent.
Pif sweep marker generator	Nihon Tsushinki Model 4723 or equivalent.
Grey scale pattern Generator	PM5515 / 5518 or equivalent

■ CONVERGENCE MAGNET

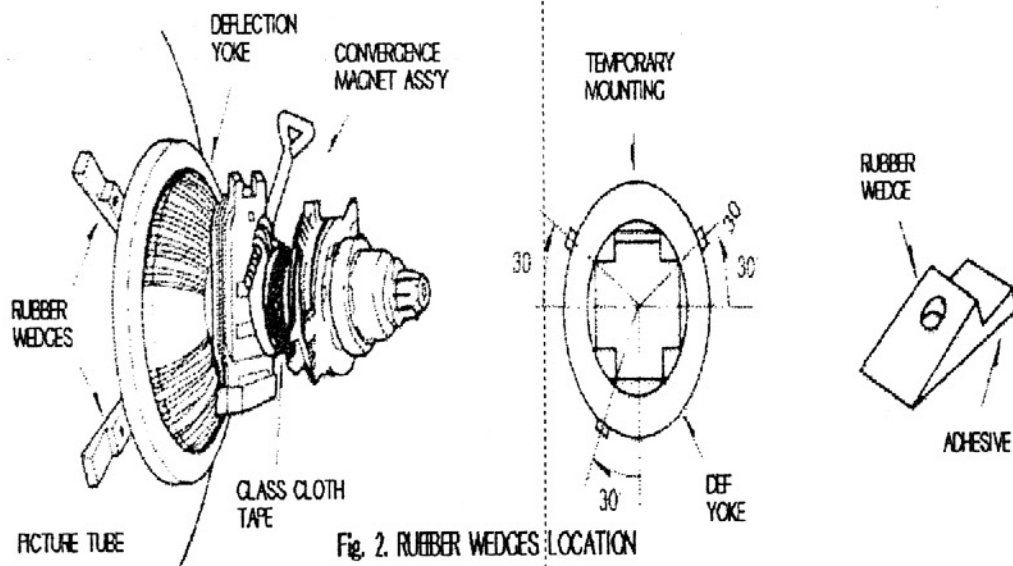
ASSEMBLY POSITIONING

Convergence magnet assembly and rubber wedges need mechanical positioning following figure 2.

■ COLOR-PURITY-ADJUSTMENT

NOTE: Before attempting any purity adjustments, the receiver should be operated for at least 15 minutes.

1. Demagnetize the picture tube and cabinet using a degaussing coil.
2. Turn the CONTRAST and BRIGHTNESS controls to maximum.
3. Adjust RED and BLUE Bias controls to provide only a green raster.
4. Loosen the clamp screw holding the yoke, and slide the yoke backward to provide vertical green belt(zone) in the picture screen.
5. Remove the Rubber Wedges.
6. Rotate and spread the tabs of the purity magnet (See figure 3) around the neck of the picture tube until the green belt is in the center of the screen.
At the same time, center the raster vertically.
7. Move the yoke slowly forward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
8. Check the purity of the red and blue raster by adjusting the BIAS controls.
9. Obtain a white raster, referring to "CTR GRAY SCALE ADJUSTMENT".
10. Proceed with convergence adjustment.



CONVERGENCE ADJUSTMENTS

NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least 15 minutes.

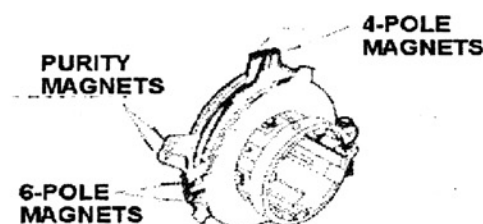
CENTER CONVERGENCE ADJUSTMENT

1. Receiver crosshatch pattern with a color bar signal generator.
2. Adjust the BRIGHTNESS and CONTRAST Controls for well defined pattern.
3. Adjust two tabs of the 4-Pole Magnets to change the angle between them (See figure 3) and superimpose red and blue vertical lines in the center area of the picture screen.
4. Turn both tabs at the same time keeping their angles constant to superimpose red and blue horizontal lines at the center of the screen. (See figure 4.)
5. Adjust two tabs of 6-Pole Magnets to superimpose red/blue line with green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines
6. Repeat adjustment 3.4.5 Keeping in mind red, green and blue moment, because 4-Pole Magnets and 6-Pole Magnets interact and make dot movement complex.

CIRCUMFERENCE CONVERGENCE ADJUSTMENT

NOTE: This adjustment requires Rubber Wedge Kit.

1. Loosen the clamping screw of deflection yoke to allow the yoke to tilt.
2. Place a wedge as shown in figure (2) temporarily. (Do not remove cover paper on adhesive part of the wedge.)
3. Tilt front of the deflection yoke up or down to obtain better convergence in circumference. (See figure 4) Push the mounted wedge into the space between picture tube and the yoke to hold the yoke temporarily.
4. Place other wedge into bottom space and remove the cover paper to stick.
5. Tilt front of the yoke right or left to obtain better convergence in circumference. (See figure 4).
6. Hold the yoke position and put another wedge in either upper space. Remove cover paper and stick the wedges, recheck overall convergence.
7. Detach the temporarily mounted wedge and put it in another upper space. Stick it on picture tube to fix the yoke.
8. After placing three wedges, recheck overall convergence. Tighten the screw firmly to hold the yoke tightly in place.
9. Stick 3 adhesive tapes on wedges as shown in figure 2.



CONVERGENCE MAGNET ASSEMBLY

ADJUST THE ANGLE
(Vertical lines)

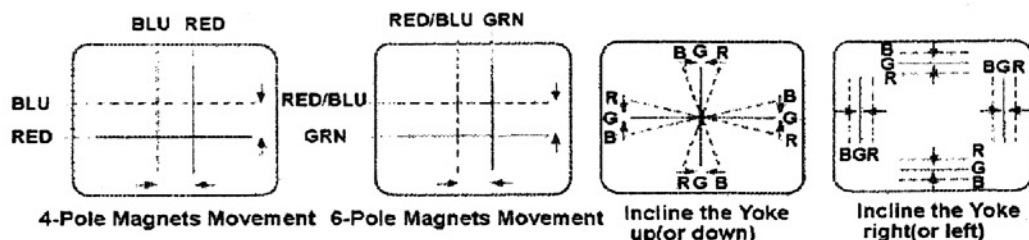
CONSTANT



ROTATE TWO TABS
AT THE SAME TIME
(Horizontal lines)

ADJUSTMENT OF MAGNETS

Fig. 3



Counter Convergence by Convergence Magnets Circumference Convergence by DEF. Yoke

Fig. 4 Dot Movement Pattern

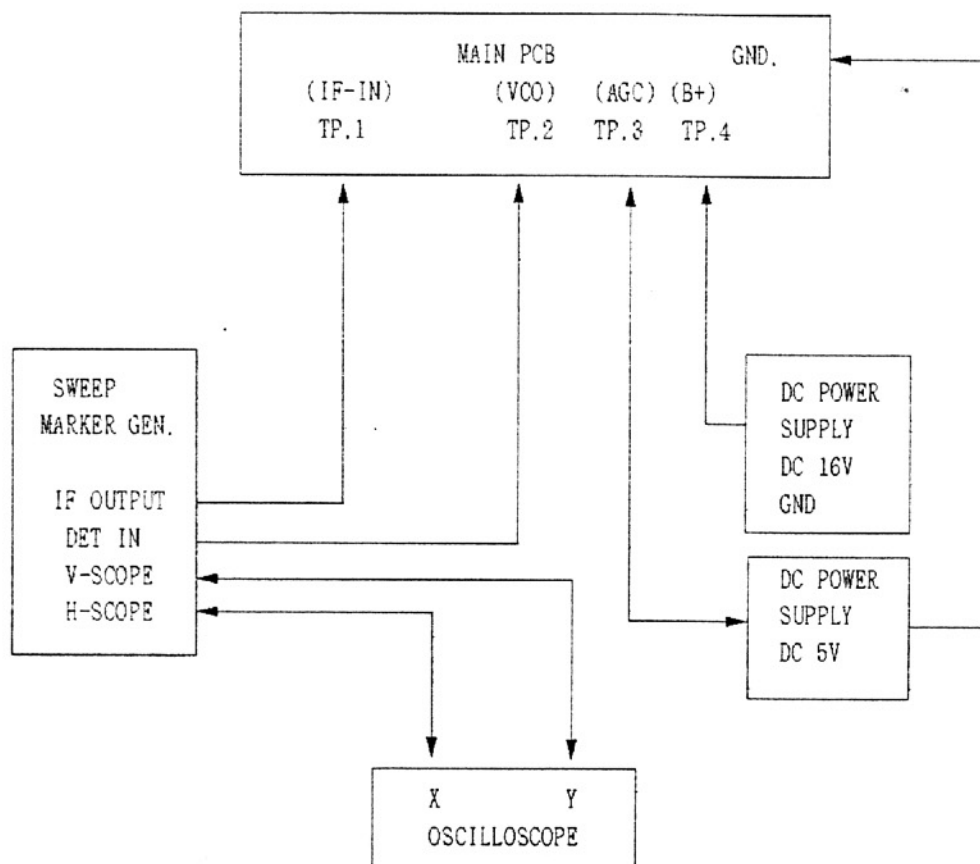
PICTURE I-F SWEEP ALIGNMENT

1. VCO ADJUSTMENT

1-1. TEST EQUIPMENTS.

- 1) DC POWER SUPPLY 1 : 10V mA
- 2) DC POWER SUPPLY 2 : 30V 350mA
- 3) PIF SWEEP MARKER GENERATOR
- 4) OSILLOSCOPE.

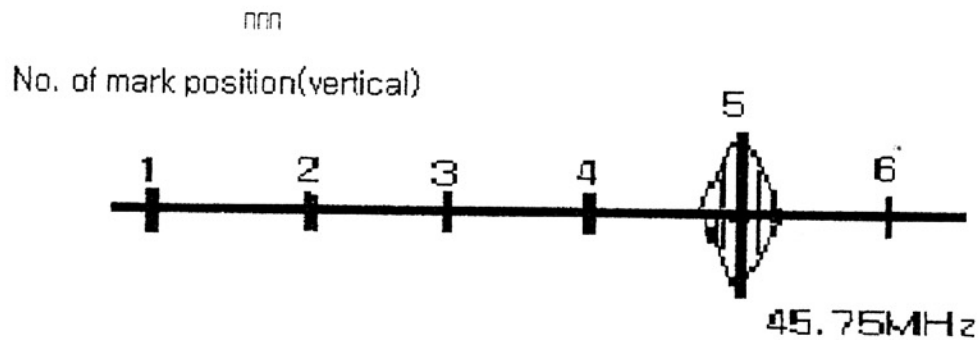
1-2 COMBINATION PICTURE.



- 1) Disconnect the TUNER IF on the PCB.
- 2) Connect the SWEEP MARKER GENERATOR IF OUTPUT to the TP.1.(IF IN)
- 3) Connect the H-SCOPE terminal of the SWEEP MARKER GENERATOR on the SCOPE X terminal.(SCOPE X-Y mode.)
- 4) Connect the V-SCOPE terminal of the SWEEP MARKER GENERATOR to the SCOPE Y terminal.
- 5) Connect the DETECTOR IN terminal of the SWEEP MARKER GENERATOR to the TP.2(VCO) of the MAIN PCB.
- 6) Connect the B+ 16V to the one side of TP.4.
- 7) Connect IF AGC POWER SUPPLY to the PIF STAGE TP.3(PIN 22 of I102)
(Add about 5V)

1-3. VCO ADJUSTMENT.

- 1) Adjust AGC voltage on to a condition before VCO wave is saturated.
- 2) Adjust the waveform of oscilloscope be same as [fig 5] by rotating AFT DETECTOR COIL L106.
- 3) After finishing the above process, let TUNER IF terminal short.



[Fig 5] VCO WAVE

MARK SETTING FREQUENCY

[Unit : MHz]

NO. of MARK POSITION	1	2	3	4	5	6
FREQUENCY	39.75	41.25	42.17	44.00	45.75	47.25

INSTALLATION AND SERVICE ADJUSTMENTS

2. GENERAL (V-POS,V-SIZE,H-SHIFT SUB-BRT,AGC ADJUSTMENT)

In the majority of cases, a color television receiver will need only slight touch-up adjustment upon installation. Check the basic characteristics such as height, vertical sync, horizontal sync, and focus. Observe the picture for good black and white details without objectionable color shading. If color shading is evident, demagnetize the receiver. If color shading still persists, perform purity and convergence adjustments. This should be all that is necessary to achieve optimum receiver performance.

- Receive the RETMA PATTERN.
- The screen is displayed as [Fig 6] by pressing FACTORY 1 key.

V POS	00
V SIZE	00
H SHIFT	00
SUB BRT	0
AGC	00

[Fig 6]

2-1. VERTICAL SIZE ADJUSTMENT.

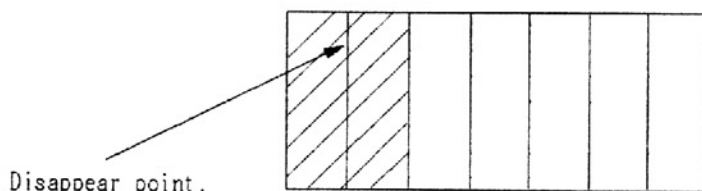
- Select the V-SIZE pressing CH UP/DOWN key
- Adjust the V-SIZE pressing VOL UP/DOWN key for approximately one-half inch over scan at top and bottom of picture screen.

2-2. VERTICAL POSITION ADJUSTMENT.

- Select the V-POS by pressing CH UP/DOWN key.
- Adjust V-POS so that the vertical center of the picture may be coincident with the mechanical center of CRT

2-3. SUB. BRIGHT ADJUSTMENT.

- Select the SUB BRT by pressing CH UP/DOWN key.
- Receive a grey scale pattern
- Press fuzzy key on the remote control unit and select a normal mode.
- CONTRAST control to minimum
- Adjust the SUB BRT in order it may be located on the position which the edge between the first and second step disappear on the image as [Fig 7] SUB BRT adjust



[Fig 7] SUB BRT Adjust

2-4. HORIZONTAL SHIFT ADJUSTMENT.

- Select the H-SHIFT by pressing CH UP/DOWN key.
- Adjust the H-SHIFT by pressing VOL UP/DOWN key to meet with screen center and mechanical center of CRT.

2-5. AGC ADJUSTMENT.

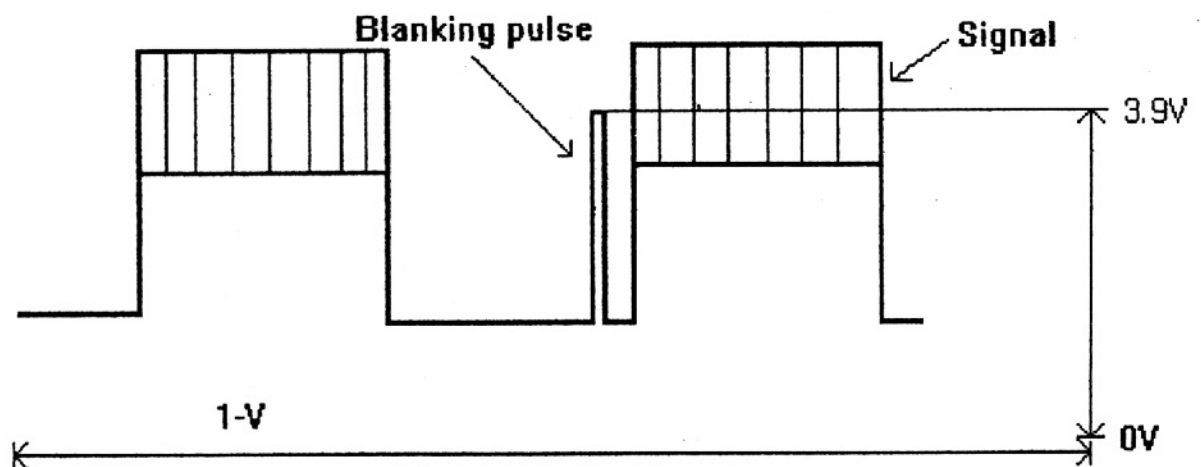
- Select the AGC by pressing CH UP/DOWN key.
- Control the strength of input signal to 63dBuV.
- Measure the voltage of TUNER AGC (using the MULTI-METER)
- Adjust the AGC by pressing the VOL UP/DOWN key till the DC voltage of TUNER AGC to 6.0V
- If there is no point to just 6.0V, set down the AGC step to the nearest 6.0V.

3. WHITE BALANCE ADJUSTMENT.

- Receive a black and white pattern or white balance Adjusting pattern
- Before attempting white balance adjustment, the receiver should be operate for at least 15 minutes.
- Set the all of position to the reference value.(nominal center)
- Adjust the WHITE BALANCE by changing the R,B DRIVE value to meet your own color temperature.
- R,G DC adjustment is free.

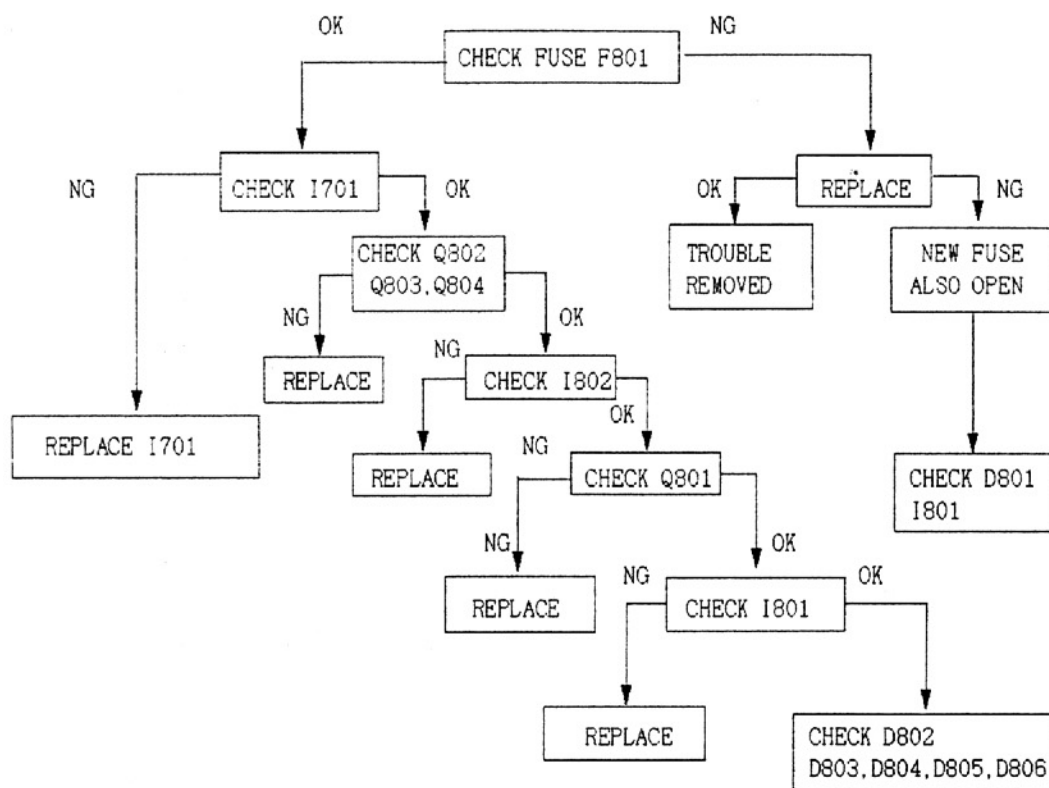
4. SCREEN VOLTAGE ADJUSTMENT.

- Receive a color-bar pattern.
- Connect the oscilloscope probe to "B" input of CRT BOARD(SCREEN TP)
- Adjust the periode of time division on the oscilloscope to the approximately 5mS.
- Measure the feedback blanking pulse in the "B" signal.
- And adjust the blanking pulse as [fig 8.]

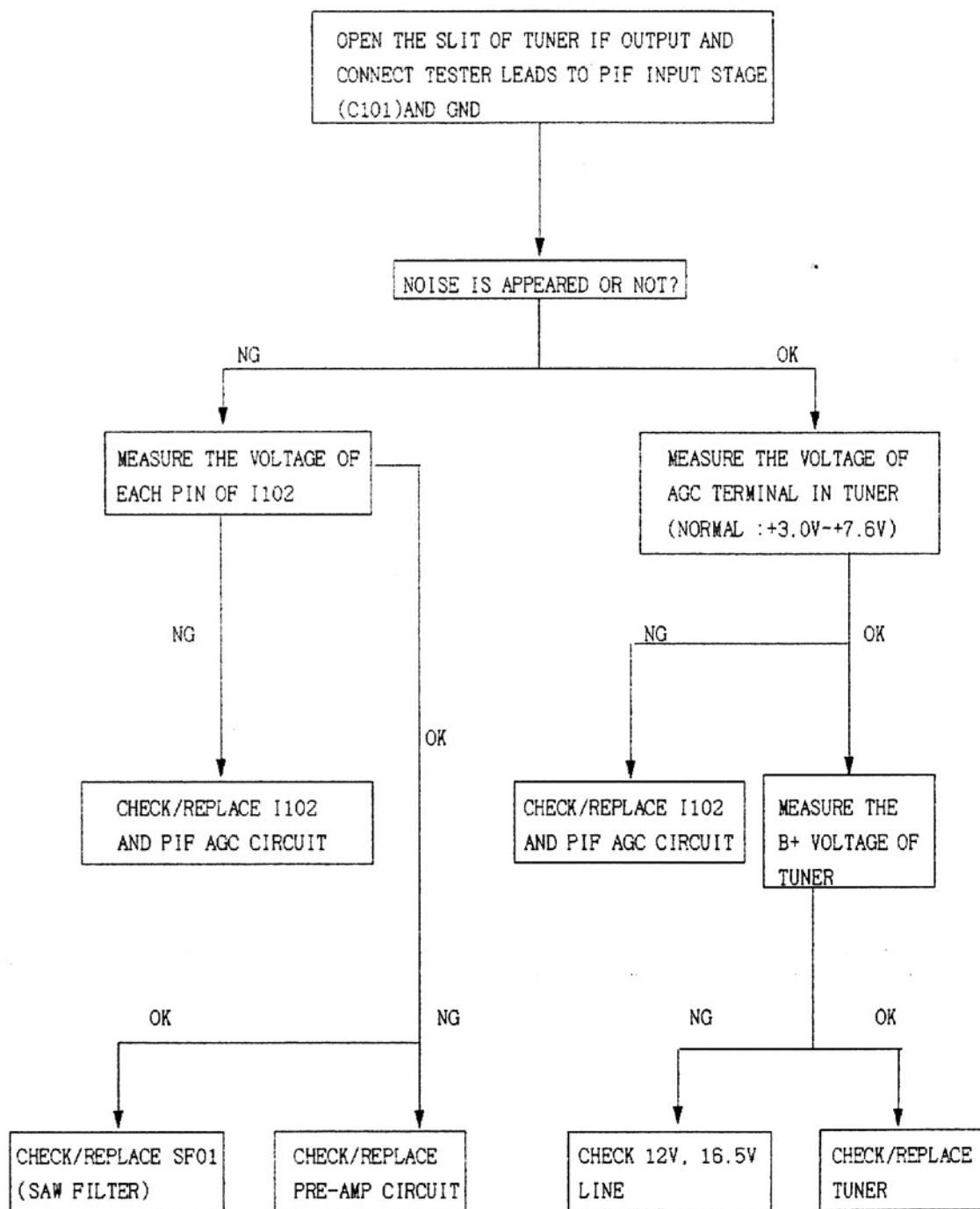


TROUBLE SHOOTING CHARTS

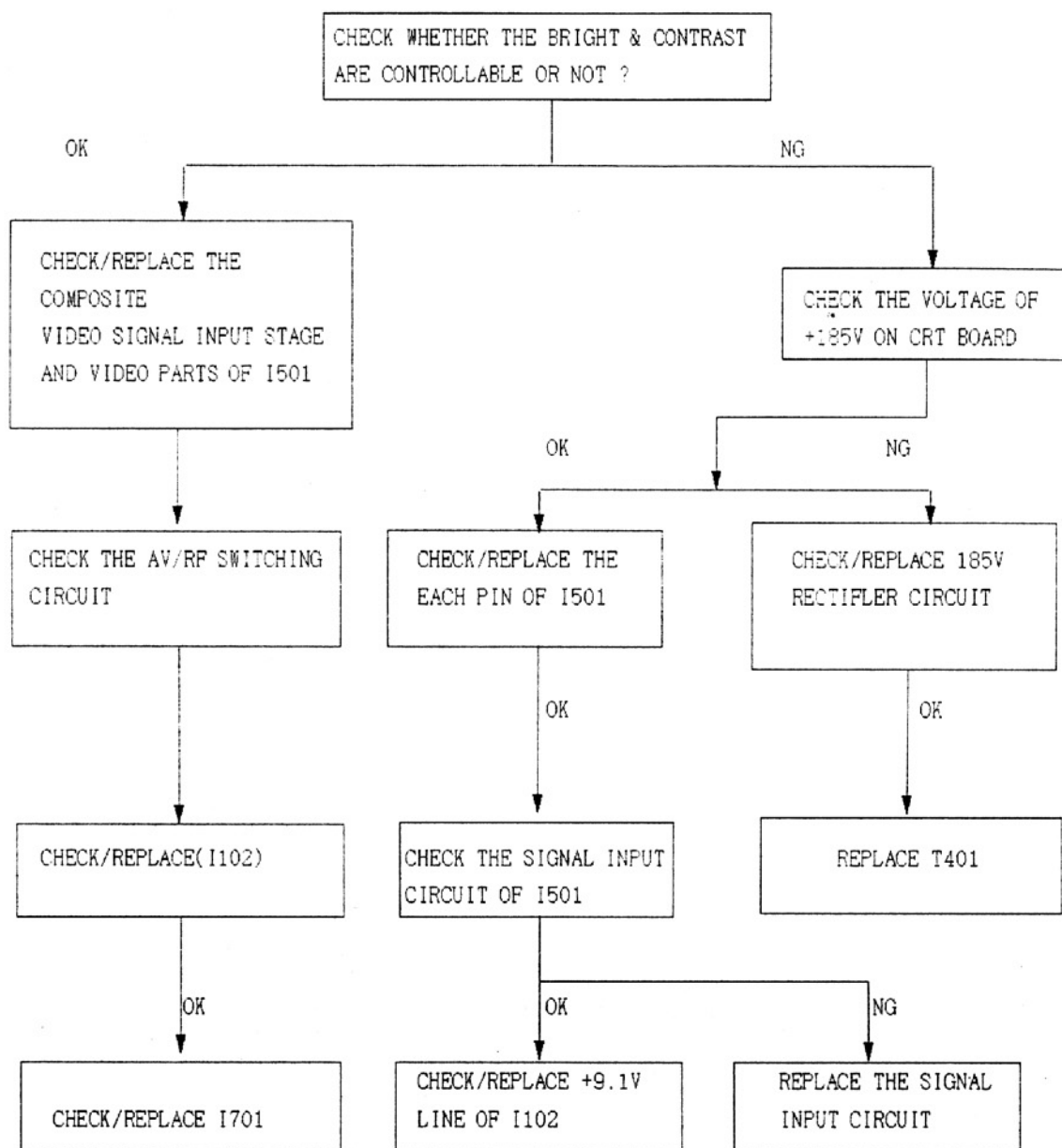
POWER FAIL TO TURN ON (NO RASTER, NO SOUND DOES NOT TURN ON)



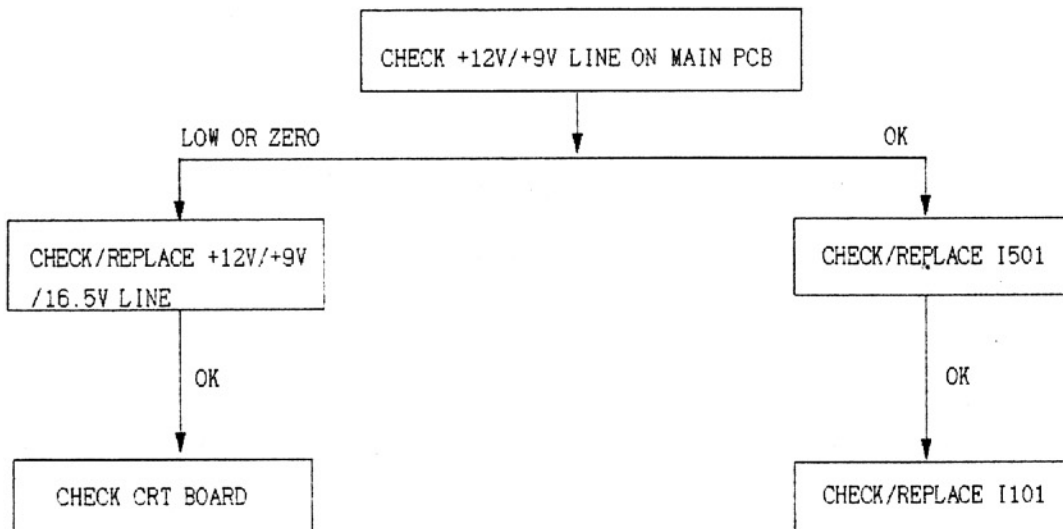
■ NO PICTURE (RASTER REMAINS AND NO SOUND)



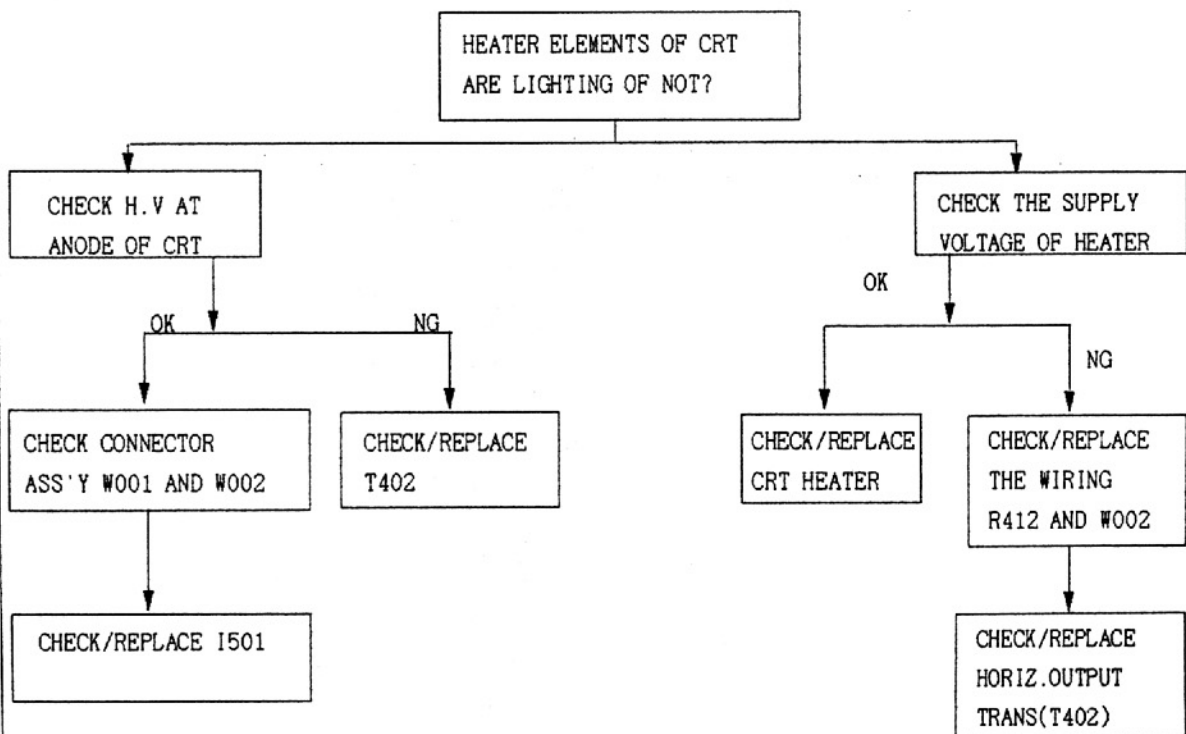
■ NO PICTURE (RASTE & SOUND)



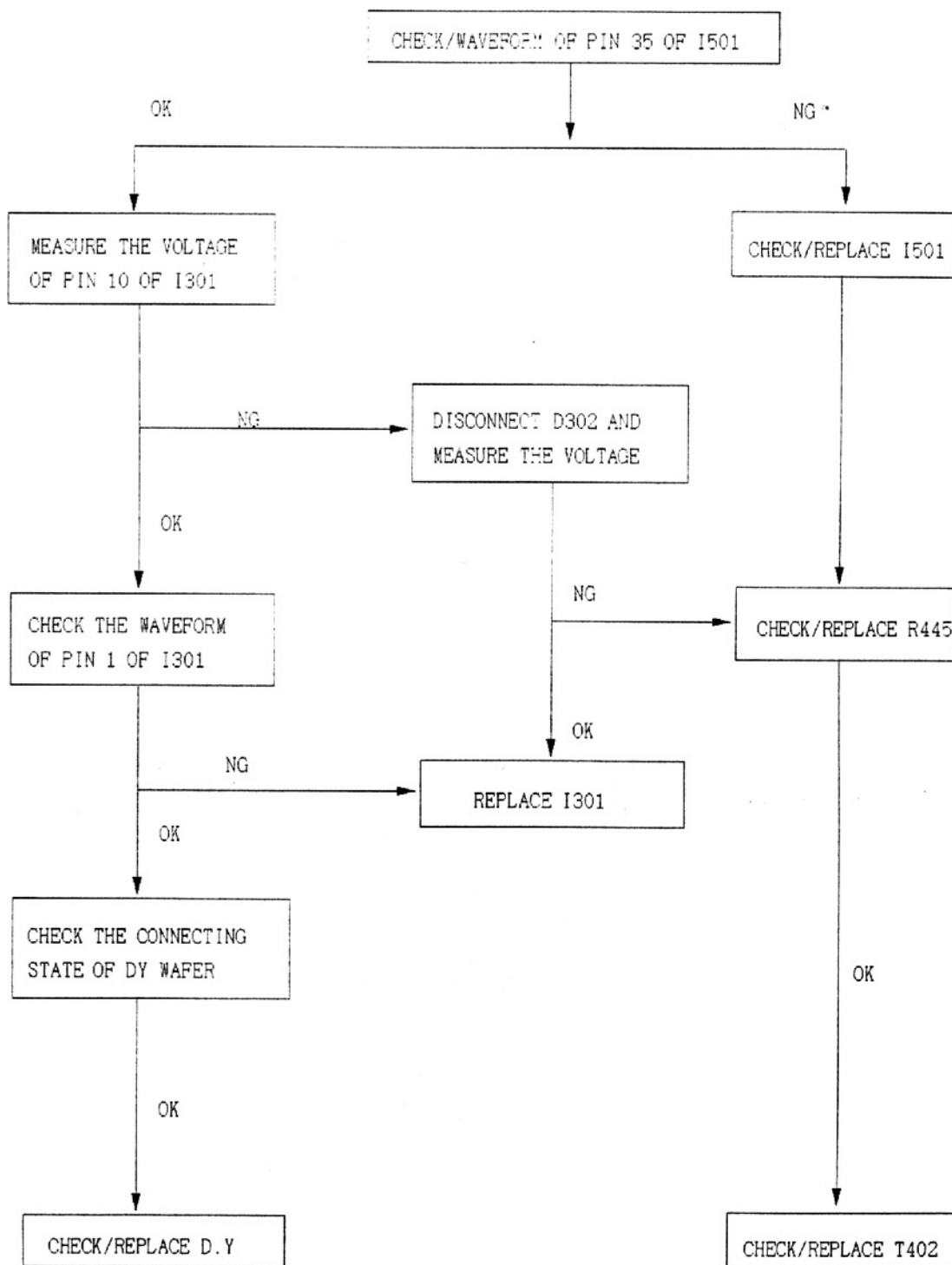
■ NO RASTER (NOISE OR WEAK SOUND)



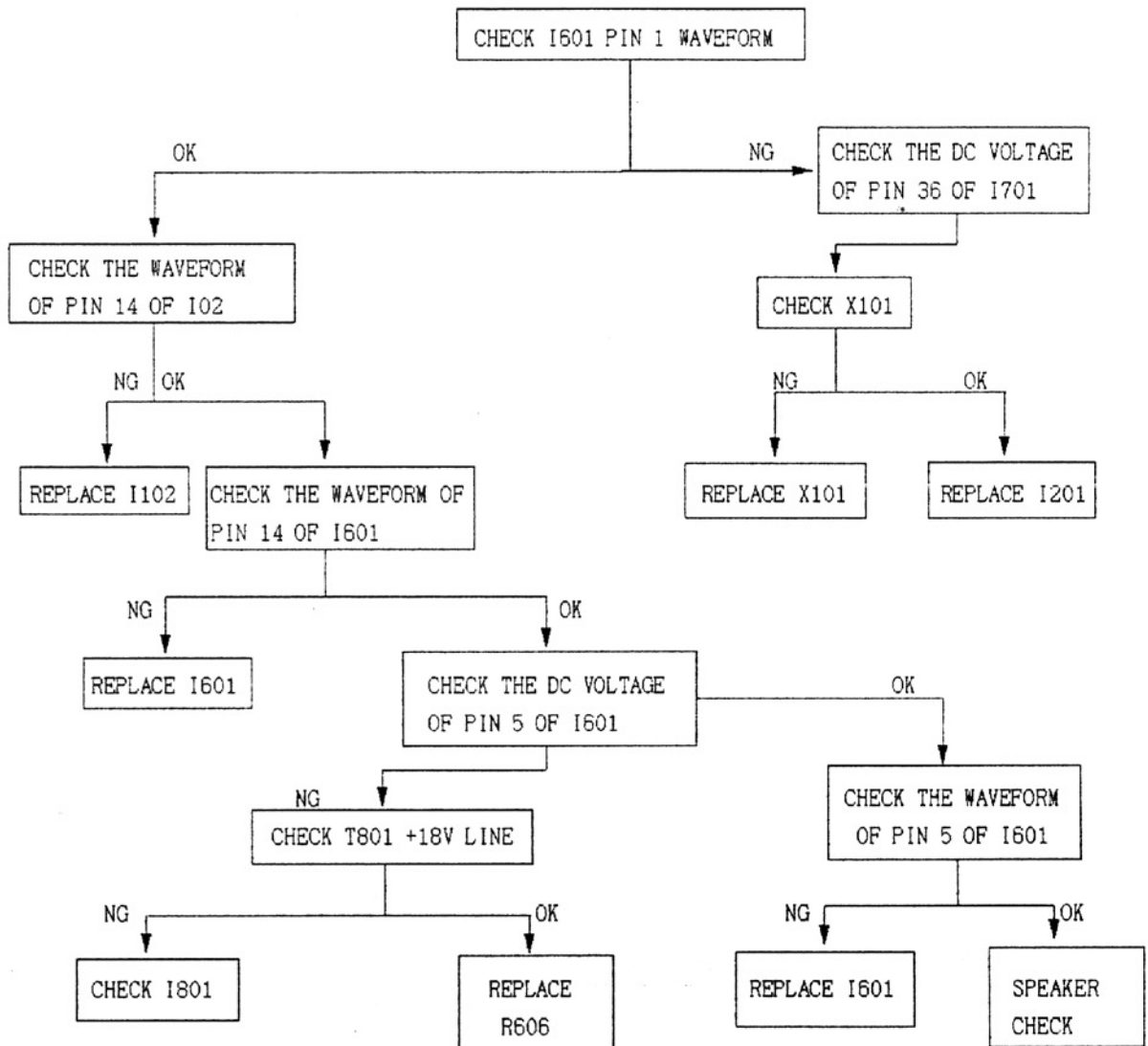
■ NO RASTER
(SOUND OK)



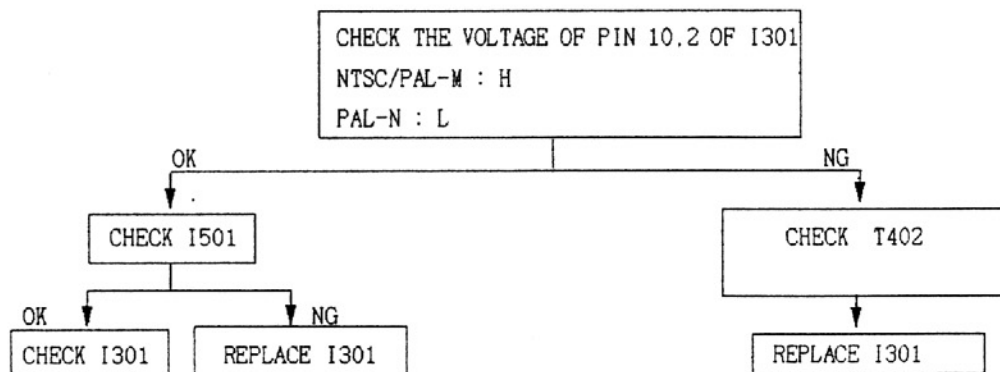
■ NO VERTICAL SCAN (ONE HORIZ. LINE RASTER)



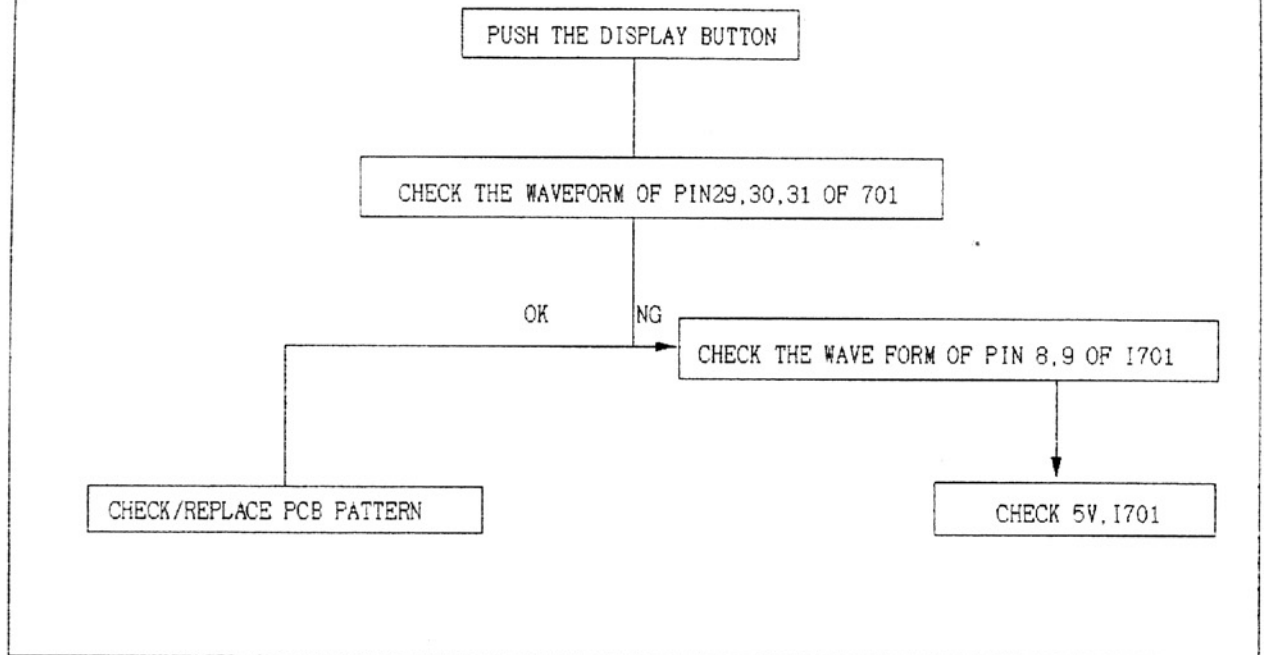
■ NO SOUND



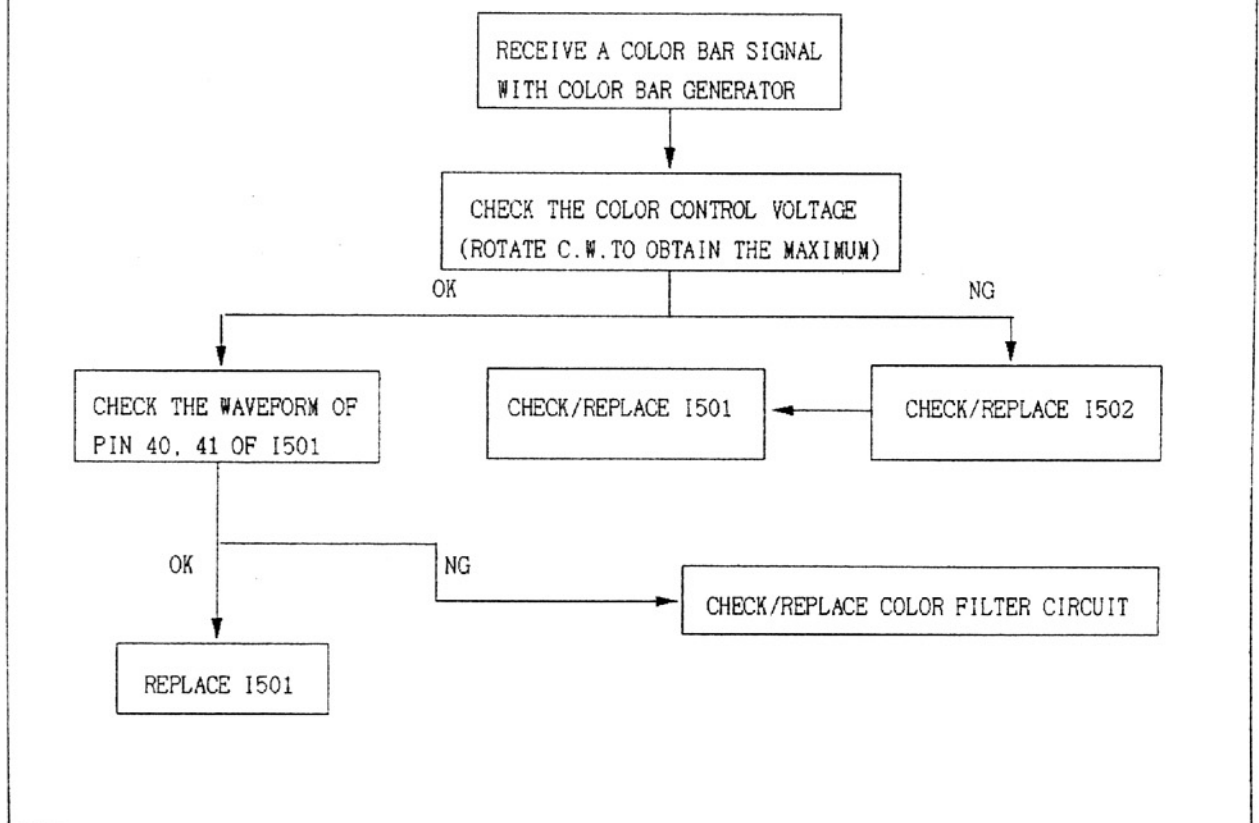
■ OUT OF VERTICAL SIZE



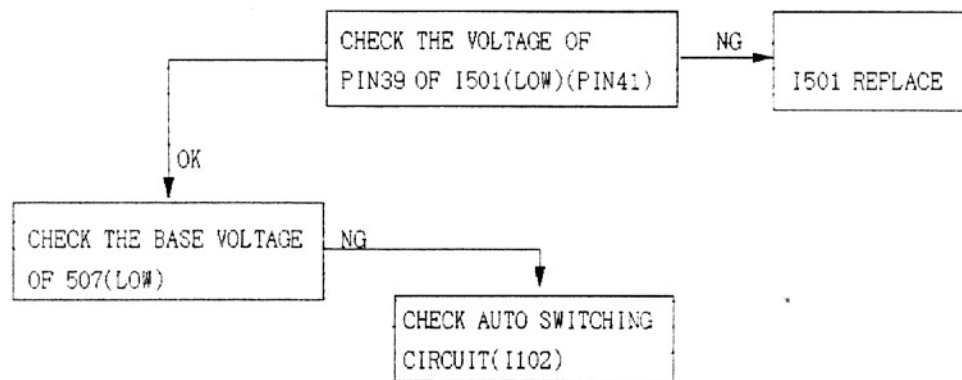
■ NO ON-SCREEN DISPLAY



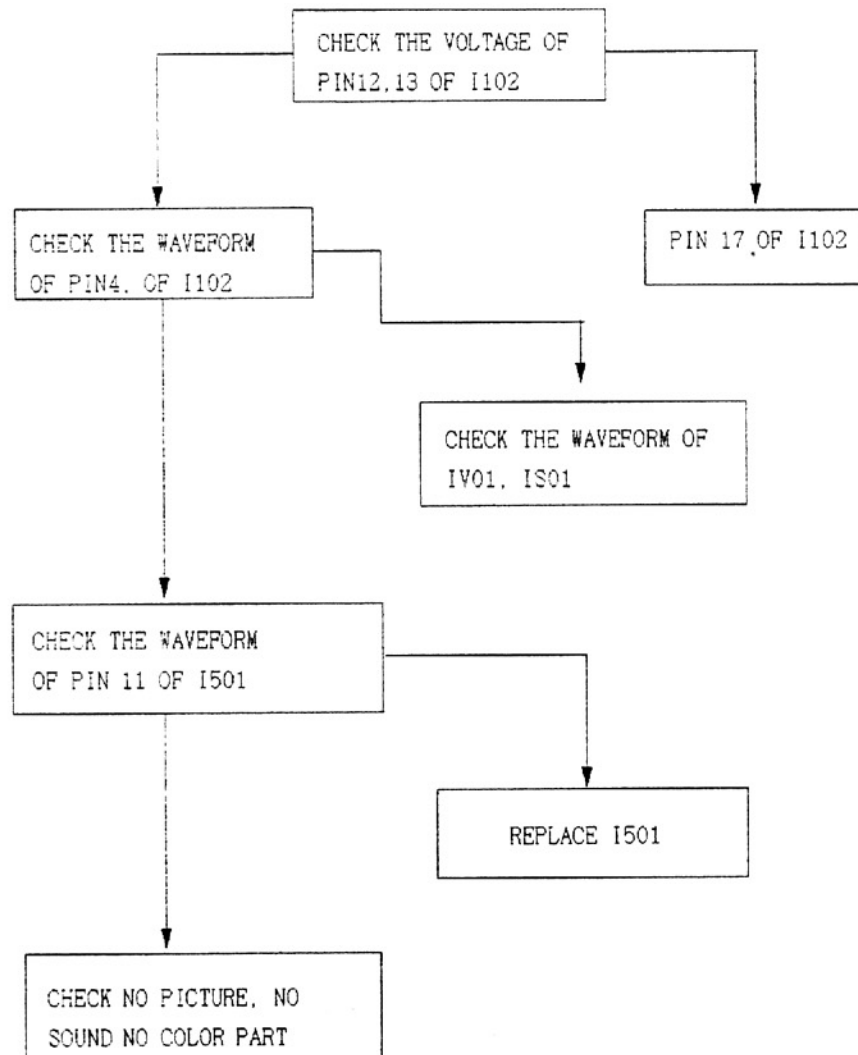
■ NO COLOR (GENERAL)



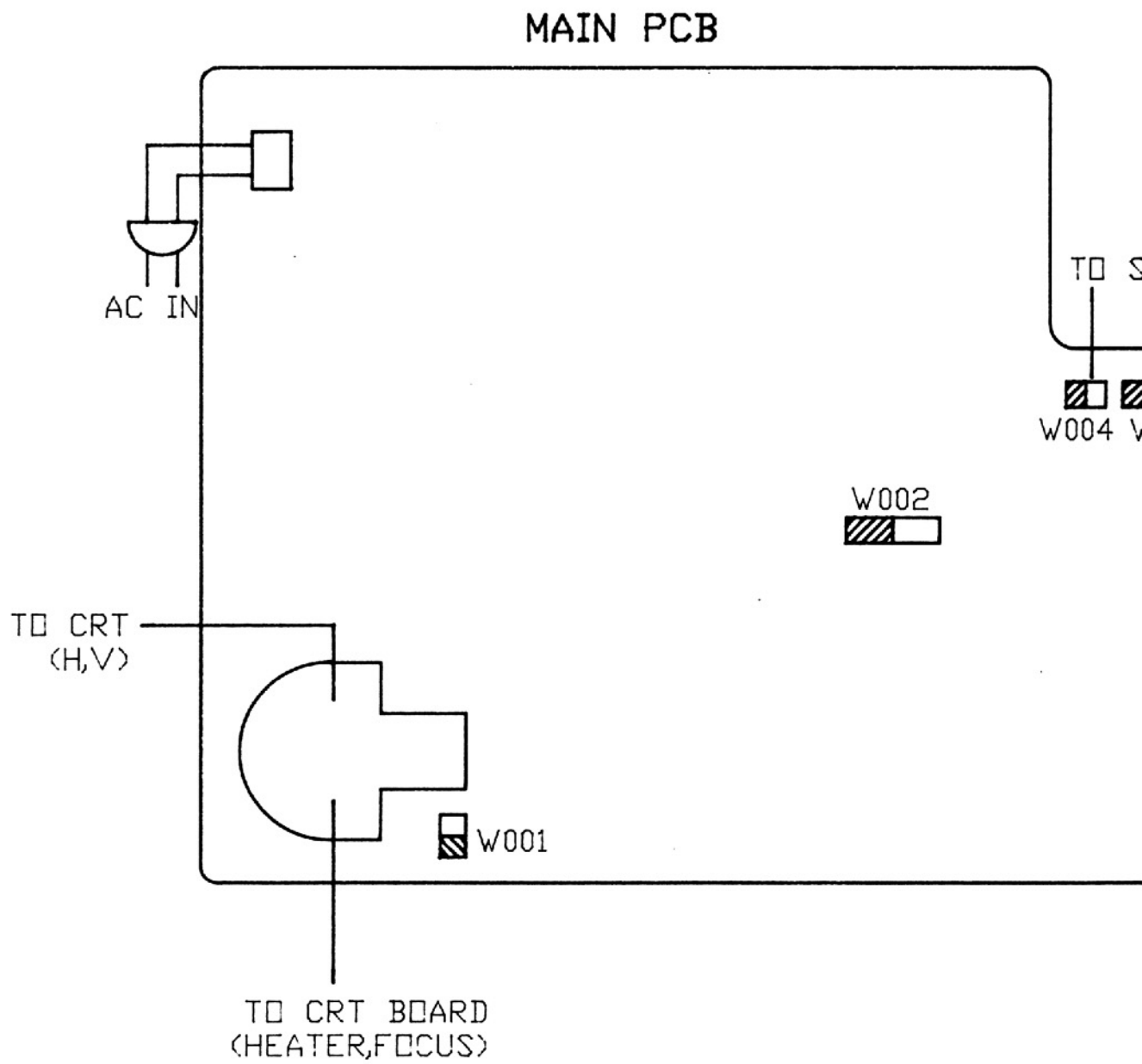
■ NO COLOR



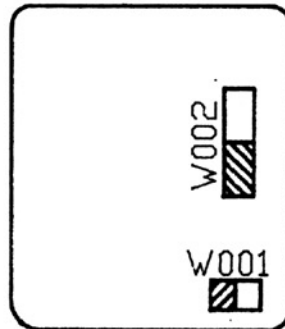
■ AV DOES NOT PERATE



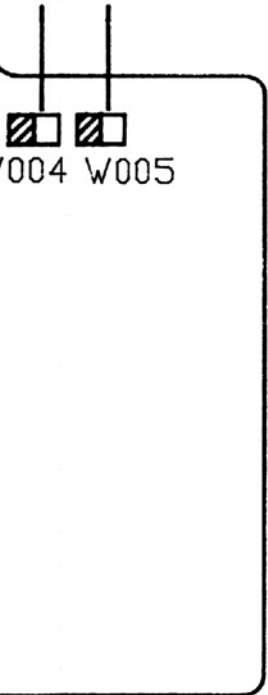
CONNECTING DIAGRAM



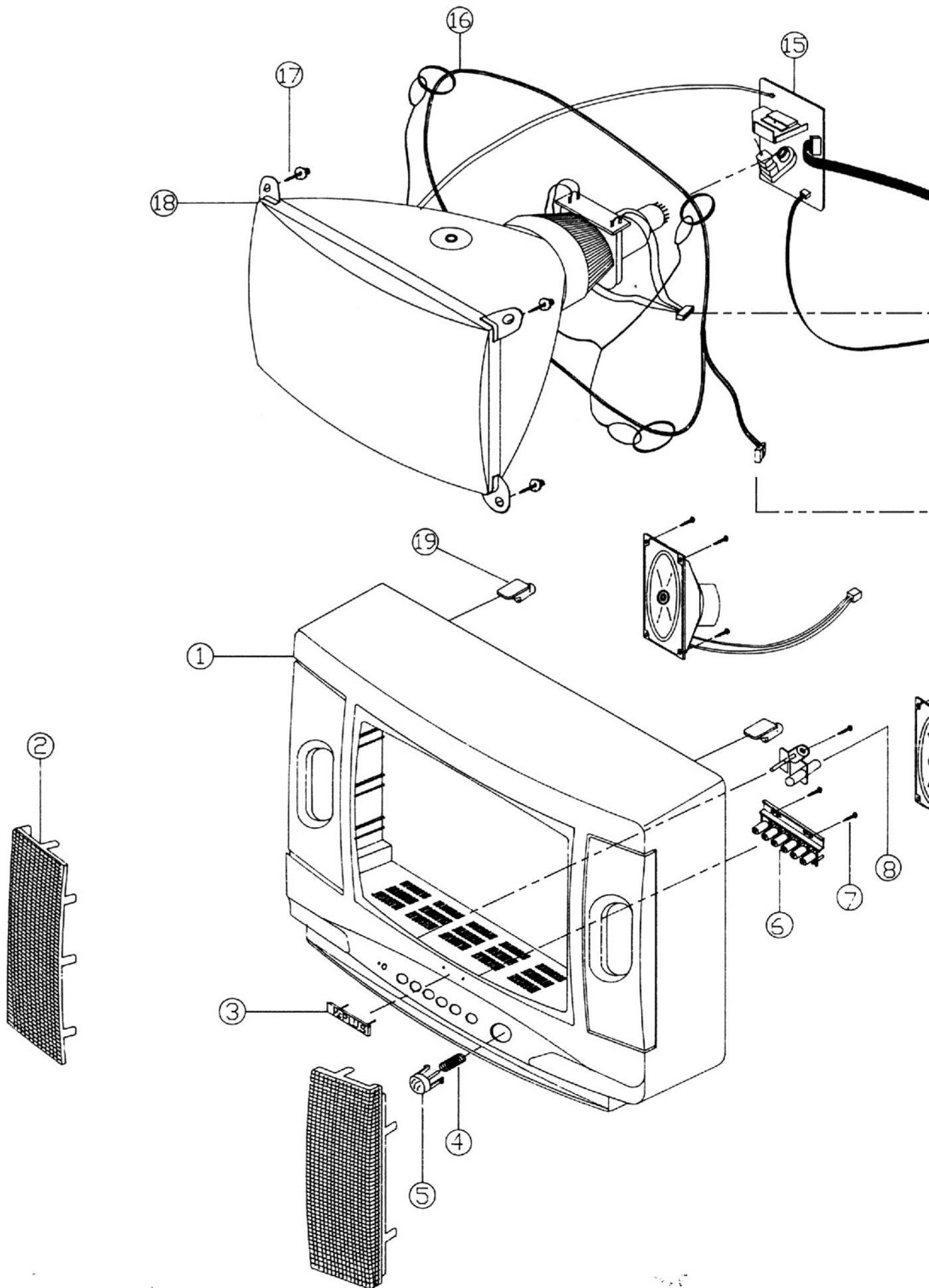
CRT PCB

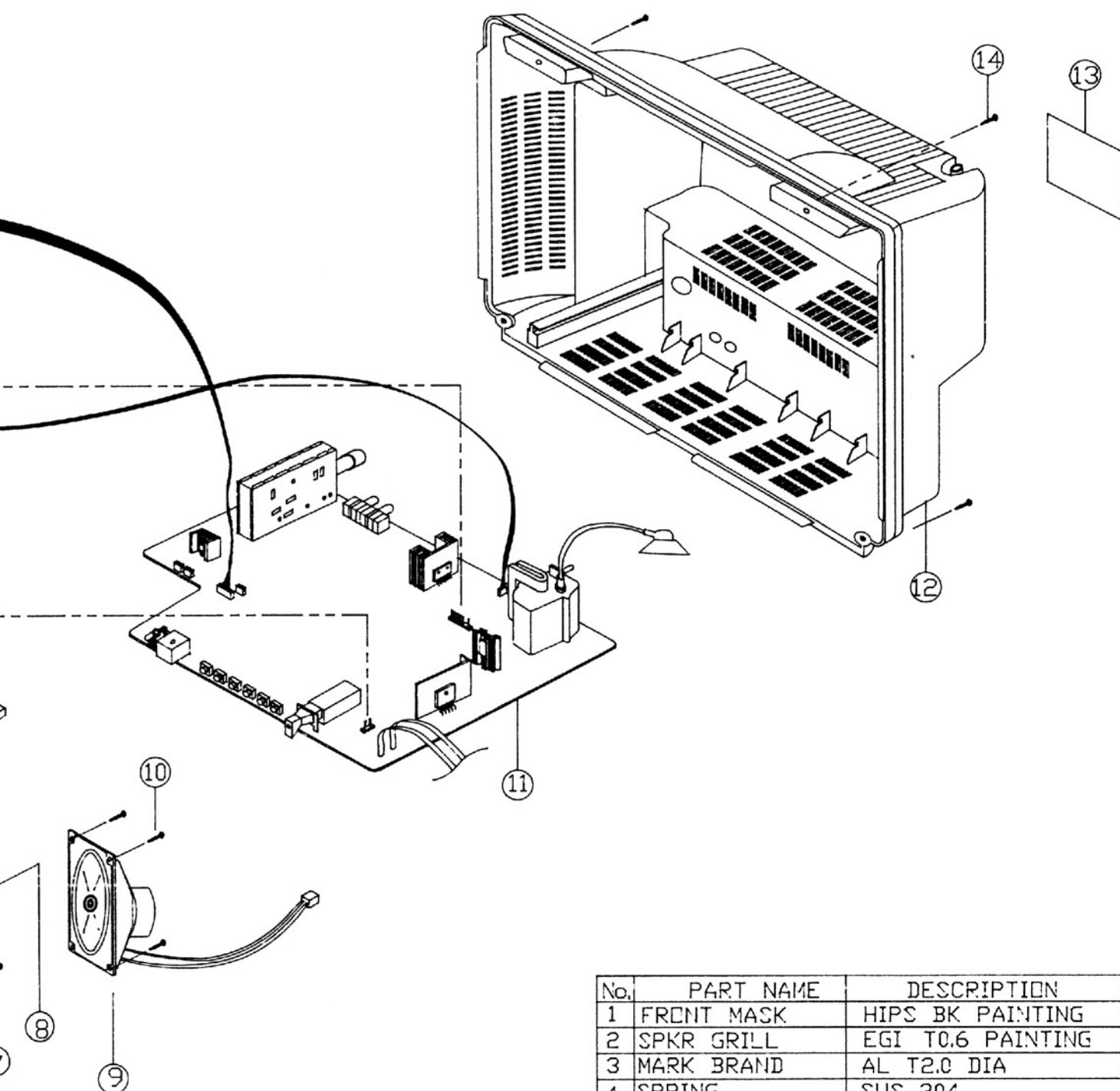


TO SPEAKERS



EXPLODED VIEW (DCT-14,2062M)





No.	PART NAME	DESCRIPTION	Q'TY
1	FRONT MASK	HIPS BK PAINTING	1
2	SPKR GRILL	EGI T0.6 PAINTING	2
3	MARK BRAND	AL T2.0 DIA	1
4	SPRING	SUS 304	1
5	MASTER S/W KNOB	ABS ETCH SP	1
6	BUTTON KNOB	ABS ETCH SP	1
7	SCREW TAPPING	T2S WAS 3x12 MFZN	3
8	INDICATOR	PMMA	1
9	SPEAKER	3W 16ohm	2
10	SCREW TAPPING	T2S WAS 3x12 MFZN	8
11	MAIN PCB ASS'Y		1
12	BACK COVER	HIPS BK.	1
13	SPEC PLATE		1
14	SCREW TAPPING	T2S TRS 4x16 MFZN BK	4
15	CRT DRV PCB		1
16	CRT GND ASS'Y		1
17	SCREW CRT	SWRM+SK-5(L=30)	4
18	CRT		1
19	RETAINER BACK	HIPS NC	2

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT'Y	REMARK
1000		ACCESSORY ASSY			
1001	5CU12RV02A	TRANSMITTER REMOCON	HRF-02A	1	
1002	5CU13DPH01	ANT ADAPTOR	PHS-02	1	
1003	5CL9100002	ANT ROD	PH-02-620	1	
1004	5ND11STR03	BATTERY	R03(AAAM) 1.5V	2	
2000		CABINET ASSY			
2001	7C1112062A	FRONT MASK	HIPS BK PAINTING	1	
2002	4CT41SS206	CRT	A48KRD82X01 ITC S300	1	14" A34KQV42X01 ITC S300
2003	4CW8120H00	CRT GROUND ASSY	16/4/0.12-1480(H)	1	14" 16/4/0.12-1100(H)
2004	5CL810200A	DEGAUSSING COIL	CD-0200A	1	14" CD-1400A
2005	6C1152062P	SPEAKER GRILLE	EGI TO.6 BK PAINTING	2	
2006	7N213CU62N	RETAINER BACK	HIPS NC	2	
2007	9N511CU62G	SPRING	SUS304	1	
2008	7C916NOB20	MARK BRAND	NOBLEX	1	
2009	7C312CU62A	MASTER S/W KNOB	ABS BK	1	
2010	7C311CU62A	BUTTON KNOB	ABS BK	1	
2011	7C217CU62T	INDICATOR	PMMA	1	
2012	ST2PK312SE	SCREW TAPPING	T2S WAS 3x12 MFZN	3	
2013	ST2H2530SE	SCREW TAPPING	SWRM + SK - 5(L=30)	4	
3000		BACK COVER ASSY			
3001	7C1122062E	BACK COVER	HIPS BK	1	
3002	7C921NOB20	SPEC PLATE	DCT-2062M	1	14" DCT-1462M
3002	ST2TN416SM	SCREW TAPPING	T2S TAS 4x16 MFZN(BK)	5	
4000		MAIN PCB ASSY			
4001	7N211CU62N	HOLDER LED	NYLON 66 BK	1	
4002	33320DA100	TIE CABLE	DA100	10	
4003	9N218CU62N	SWITCH KNOB	KK-DM960605	1	
4004	33311SNA64	SOLDER BAR	SNA 60:40		
4005	33312SNA45	SOLDER WIRE	45 SNA 1.2D		
4006	33313BF20U	FLUX SOLDER	BF2012U		
4007	33313H302T	FLUX SOLVENT	H-302		
4008	33315TV252	BOND SILICON	RTV252		
5000		SPEAKER ASSY			
5001	5CA1216031	SPEAKER	F2035C-3994 3W 160HM	2	
5002	ST2PK312SE	SCREW TAPPING	T2S WAS 3x12 MFZN	8	
5W004A	4CW3302250	CONNECTOR ASSY	2P 250.5264-02(H)	1	
5W005A	4CW3302600	CONNECTOR ASSY	2P 600.5264-02(H)	1	14" 2P 430.5264-02(H)
0100	5CB11501N0	PCB-MAIN	T1.6 x 246 x 330(H-501N)	1	
C101	CCXF1H103Z	C CERAMIC	F 50V 0.01uF Z	1	
C102	CCXF1H103Z	C CERAMIC	F 50V 0.01uF Z	1	
C103	CESS1C221M	C ELECTRO	16V 220uF RSS	1	
C104	CCXF1H103Z	C CERAMIC	F 50V 0.01uF Z	1	
C105	CCXF1H104Z	C CERAMIC	F 50V 0.1uF Z	1	
C107	CESS1H228M	C ELECTRO	50V 0.22uF RSS	1	
C108	CESS1H479M	C ELECTRO	50V 4.7uF RSS	1	
C110	CESS1H228M	C ELECTRO	50V 0.22uF RSS	1	
C111	CCXF1H103Z	C CERAMIC	F 50V 0.01uF Z	1	
C112	CCXF1H104Z	C CERAMIC	F 50V 0.1uF Z	1	
C113	CCCC1H330J	C CERAMIC	CH 50V 33pF J	1	
C114	CESS1H109M	C ELECTRO	50V 1uF RSS	1	

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT' Y	REMARK
C115	CCCC1H470J	C CERAMIC	CH 50V 47pF J	1	
C116	CCXF1H104Z	C CERAMIC	F 50V 0.1uF Z	1	
C117	CESS1H478M	C ELECTRO	50V 0.47uF RSS	1	
C118	CESS1C470M	C ELECTRO	16V 47uF RSS	1	
C210	CESS1H109M	C ELECTRO	50V 1uF RSS	1	
C211	CESS1H100M	C ELECTRO	50V 10uF RSS	1	
C213	CCXB1H182K	C CERAMIC	B 50V 1800pF K	1	
C214	CESS1H109M	C ELECTRO	50V 1uF RSS	1	
C215	CESS1C100M	C ELECTRO	16V 10uF RSS	1	
C216	CCXB1H151K	C CERAMIC	B 50V 150pF K	1	
C231	CCXF1H104Z	C CERAMIC	F 50V 0.1uF Z	1	
C232	CCXF1H104Z	C CERAMIC	F 50V 0.1uF Z	1	
C233	CCXF1H104Z	C CERAMIC	F 50V 0.1uF Z	1	
C234	CCXF1H333Z	C CERAMIC	F 50V 0.033uF Z	1	
C235	CCXF1H103Z	C CERAMIC	F 50V 0.01uF Z	1	
C240	CESS1H109M	C ELECTRO	50V 1uF RSS	1	
C251	CCXF1H103Z	C CERAMIC	F 50V 0.01uF Z	1	
C252	CMXM2A104K	C MYLAR	100V 0.1uF K	1	
C253	CCCC1H470J	C CERAMIC	CH 50V 47pF J	1	
C254	CCCC1H470J	C CERAMIC	CH 50V 47pF J	1	
C255	CCXF1H333Z	C CERAMIC	F 50V 0.033uF Z	1	
C256	CCCC1H160J	C CERAMIC	CH 50V 16pF J	1	
C257	CCCC1H160J	C CERAMIC	CH 50V 16pF J	1	
C258	CCCC1H160J	C CERAMIC	CH 50V 16pF J	1	
C260	CCXF1H104Z	C CERAMIC	F 50V 0.1uF Z	1	
C301	CMXM2A104K	C MYLAR	100V 0.1uF K	1	
C302	CESS1V101M	C ELECTRO	35V 100uF RSS	1	
C303	CMXM2A103K	C MYLAR	100V 0.01uF K	1	
C304	CMXM2A393G	C MYLAR	100V 0.039uF G PP	1	
C305	CCXB1H151K	C CERAMIC	B 50V 150pF K	1	
C306	CESS1V330M	C ELECTRO	35V 33uF RSS	1	
C307	CESS1V102M	C ELECTRO	35V 1000uF RSS	1	
C308	CCXB1H221K	C CERAMIC	B 50V 220pF K	1	
C309	CCXF1H473Z	C CERAMIC	F 50V 0.047uF Z	1	
C310	CESS1H479M	C ELECTRO	50V 4.7uF RSS	1	
C311	CCXB1H102K	C CERAMIC	B 50V 1000pF K	1	
C312	CESS1C221M	C ELECTRO	16V 220uF RSS	1	
C401	CMXM2D103K	C MYLAR	200V 0.01uF K	1	
C402	CMXN2D394J	C MYLAR	MPP 200V 0.39uF J	1	14" MPP 200V 0.47uF J
C403	CMXN2D474J	C MYLAR	MPP 200V 0.47uF J	1	
C404	CMPP3C682J	C MYLAR	PP 1.6KV 6800pF J	1	
C405	CCXF2H222Z	C CERAMIC	F 500V 2200pF Z	1	
C407	CCXF2H102Z	C CERAMIC	F 500V 1000pF Z	1	
C408	CCXF2H102Z	C CERAMIC	F 500V 1000pF Z	1	
C409	CMXM2A104K	C MYLAR	100V 0.1uF K	1	
C421	CESS1C101M	C ELECTRO	16V 100uF RSS	1	
C423	CESS1C221M	C ELECTRO	16V 220uF RSS	1	
C430	CCXF2H102Z	C CERAMIC	F 500V 1000pF Z	1	
C431	CESS2C100M	C ELECTRO	160V 10uF RSS	1	
C432	CERU2C101M	C ELECTRO	160V 100uF RUS	1	

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS	NAME	DESCRIPTION	QT' Y	REMARK
C440	CCXF1H102Z	C	CERAMIC	F 500V 1000pF Z	1	
C441	CESS1E221M	C	ELECTRO	25V 220uF RSS	1	
C442	CESS1C471M	C	ELECTRO	16V 470uF RSS	1	
C443	CESS1C471M	C	ELECTRO	16V 470uF RSS	1	
C445	CESS1C101M	C	ELECTRO	16V 100uF RSS	1	
C446	CCXF2H102Z	C	CERAMIC	F 500V 1000pF Z	1	
C447	CESS1V471M	C	ELECTRO	35V 470uF RSS	1	
C448	CESS1E221M	C	ELECTRO	25V 220uF RSS	1	
C450	CMXM2A104K	C	MYLAR	100V 0.1uF K	1	
C452	CESS1H229M	C	ELECTRO	50V 2.2uF RSS	1	
C501	CESS1C471M	C	ELECTRO	16V 470uF RSS	1	
C502	CESS1E221M	C	ELECTRO	25V 220uF RSS	1	
C507	CCXB1H472K	C	CERAMIC	B 50V 4700pF K	1	
C508	CCXF1H104Z	C	CERAMIC	F 50V 0.1uF Z	1	
C509	CCXF1H104Z	C	CERAMIC	F 50V 0.1uF Z	1	
C510	CCXF1H104Z	C	CERAMIC	F 50V 0.1uF Z	1	
C511	CCXF1H104Z	C	CERAMIC	F 50V 0.1uF Z	1	
C512	CCXF1H104Z	C	CERAMIC	F 50V 0.1uF Z	1	
C513	CESS1H109M	C	ELECTRO	50V 1uF RSS	1	
C514	CMXM2A102K	C	MYLAR	100V 1000pF K	1	
C515	CCXF1H103Z	C	CERAMIC	F 50V 0.01uF Z	1	
C516	CCCC1H470J	C	CERAMIC	CH 50V 47pF J	1	
C517	CMXM2A104K	C	MYLAR	100V 0.1uF K	1	
C518	CESS1H109M	C	ELECTRO	50V 1uF RSS	1	
C519	CMXM2A472K	C	MYLAR	100V 4700pF K	1	
C520	CCXF1H103Z	C	CERAMIC	F 50V 0.01uF Z	1	
C521	CCXF1H103Z	C	CERAMIC	F 50V 0.01uF Z	1	
C522	CCXF1H103Z	C	CERAMIC	F 50V 0.01uF Z	1	
C523	CCXF1H103Z	C	CERAMIC	F 50V 0.01uF Z	1	
C524	CMXM2A102K	C	MYLAR	100V 1000pF K	1	
C525	CESS1H108M	C	ELECTRO	50V 0.1uF RSS	1	
C526	CCXB1H151K	C	CERAMIC	B 50V 150pF K	1	
C527	CESS1H100M	C	ELECTRO	50V 10uF RSS	1	
C528	CCXF1H104Z	C	CERAMIC	F 50V 0.1uF Z	1	
C561	CESS1C470M	C	ELECTRO	16V 47uF RSS	1	
C562	CCCC1H100J	C	CERAMIC	CH 50V 10pF J	1	
C563	CCCC1H100J	C	CERAMIC	CH 50V 10pF J	1	
C564	CCCC1H100J	C	CERAMIC	CH 50V 10pF J	1	
C565	CCXB1H681K	C	CERAMIC	B 50V 680pF K	1	
C566	CCXB1H681K	C	CERAMIC	B 50V 680pF K	1	
C567	CCXB1H681K	C	CERAMIC	B 50V 680pF K	1	
C568	CMXM2D104K	C	MYLAR	200V 0.1uF K	1	
C569	CCXE3D472P	C	CERAMIC	E 2KV 4700pF P	1	
C581	CCXB1H101K	C	CERAMIC	B 50V 100pF K	1	
C582	CCXB1H101K	C	CERAMIC	B 50V 100pF K	1	
C583	CCXB1H101K	C	CERAMIC	B 50V 100pF K	1	
C584	CMXM2A104K	C	MYLAR	100V 0.1uF K	1	
C601	CMXM2A333K	C	MYLAR	100V 0.033pF K	1	
C602	CMXM2A103K	C	MYLAR	100V 0.01uF K	1	
C603	CESS1V471M	C	ELECTRO	35V 470uF RSS	1	

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT'Y	REMARK
C604	CESS1E221M	C ELECTRO	25V 220uF RSS	1	
C605	CMXM2A104K	C MYLAR	100V 0.1uF K	1	
C606	CESS1V102M	C ELECTRO	35V 1000uF RSS	1	
C701	CESS1H100M	C ELECTRO	50V 10uF RSS	1	
C702	CCCC1H150J	C CERAMIC	CH 50V 15pF J	1	
C703	CCCC1H150J	C CERAMIC	CH 50V 15pF J	1	
C704	CCXF1H104Z	C CERAMIC	F 50V 0.1uF Z	1	
C705	CCCC1H150J	C CERAMIC	CH 50V 15pF J	1	
C706	CCCC1H150J	C CERAMIC	CH 50V 15pF J	1	
C707	CESS1H108M	C ELECTRO	50V 0.1uF RSS	1	
C708	CESS1H229M	C ELECTRO	50V 2.2uF RSS	1	
C709	CESS1C471M	C ELECTRO	16V 470uF RSS	1	
710	CCXF1H103Z	C CERAMIC	F 50V 0.01uF Z	1	
C801	CMS12E104K	C LINE ACROSS	AC 250V 0.1uF K	1	
C802	CMS12E104K	C LINE ACROSS	AC 250V 0.1uF K	1	
C807	CELH2G221M	C ELECTRO	400V 220uF LHS	1	
C809	CESS1E221M	C ELECTRO	25V 220uF RSS	1	
C810	CESS1E101M	C ELECTRO	25V 100uF RSS	1	
C811	CMXM2A102K	C MYLAR	100V 1000pF K	1	
C812	CESS2C100M	C ELECTRO	160V 10uF RSS	1	
C813	CCAC3E222P	C CERAMIC-AC	E AC400V 2200pF S. 400V	1	
C817	CESS1C470M	C ELECTRO	16V 47uF RSS	1	
C818	CESS1V471M	C ELECTRO	35V 470uF RSS	1	
C819	CERU2C101M	C ELECTRO	160V 100uF RUS	1	
C820	CESS1C471M	C ELECTRO	16V 470uF RSS	1	
C821	CMXM2A104K	C MYLAR	100V 0.1uF K	1	
C823	CMPP3C152J	C MYLAR	PP 1.6KV 1500pF J	1	
C825	CMXM2A104K	C MYLAR	100V 0.1uF K	1	
C826	CESS1C471M	C ELECTRO	16V 470uF RSS	1	
C850	CCXB2H102K	C CERAMIC	B 500V 1000pF K	1	
CS01	CCXB1H102K	C CERAMIC	B 50V 1000pF K	1	
CS02	CESS1H479M	C ELECTRO	50V 4.7uF RSS	1	
CV01	CESS1C101M	C ELECTRO	16V 100uF RSS	1	
CV02	CESS1H100M	C ELECTRO	50V 10uF RSS	1	
D302	DD1N4937-T	DIODE RECT-FAST	1N4937	1	
D303	DZUZ-5.1BT	DIODE ZENER	UZ-5.1B	1	
D401	DDPS156R-N	DIODE RECT-FAST	PS156R	1	
D404	DD1N4148-T	DIODE SW	1N4148	1	
D405	DZUZ-7.5BM	DIODE ZENER	UZ-7.5BM	1	
D406	DD1N4937-T	DIODE RECT-FAST	1N4937	1	
D407	DZUZ-12BMT	DIODE ZENER	UZ-12BM	1	
D408	DD1N4148-T	DIODE SW	1N4148	1	
D430	DD1N4937-T	DIODE RECT-FAST	1N4937	1	
D440	DD1N4937-T	DIODE RECT-FAST	1N4937	1	
D441	DZUZ-12BMT	DIODE ZENER	UZ-12BM	1	
D442	DZUZ-9.1BM	DIODE ZENER	UZ-9.1BM	1	
D443	DZUZ-9.1BM	DIODE ZENER	UZ-9.1BM	1	
D444	DZUZ-5.1BT	DIODE ZENER	UZ-5.1B	1	
D445	DD1N4937-T	DIODE RECT-FAST	1N4937	1	
D501	DD1N4148-T	DIODE SW	1N4148	1	

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT'Y	REMARK
D511	DD1N4148-T	DIODE SW	1N4148	1	
D512	DD1N4148-T	DIODE SW	1N4148	1	
D513	DD1N4148-T	DIODE SW	1N4148	1	
D561	DD1N4148-T	DIODE SW	1N4148	1	
D562	DD1N4148-T	DIODE SW	1N4148	1	
D563	DD1N4148-T	DIODE SW	1N4148	1	
D564	DD1N4148-T	DIODE SW	1N4148	1	
D565	DD1N4148-T	DIODE SW	1N4148	1	
D601	DD1N4148-T	DIODE SW	1N4148	1	
D602	DD1N4148-T	DIODE SW	1N4148	1	
D701	DZUZ-3.9BT	DIODE ZENER	UZ-3.9B	1	
D702	DD1N4148-T	DIODE SW	1N4148	1	
~703	DD1N4148-T	DIODE SW	1N4148	1	
.301	DB156GU-CD	DIODE BRIDGE	PBS156GU-CD	1	
D802	DD1N4937-T	DIODE RECT-FAST	1N4937	1	
D803	DZUZ-7.5BM	DIODE ZENER	UZ-7.5BM	1	
D804	DD1N4937-T	DIODE RECT-FAST	1N4937	1	
D805	DD1N4937-T	DIODE RECT-FAST	1N4937	1	
D806	DD1N4937-T	DIODE RECT-FAST	1N4937	1	
D807	DDRU-3AM-N	DIODE RECT-FAST	RU-3AM	1	
D809	DD1N4937-T	DIODE RECT-FAST	1N4937	1	
D810	DDPS156R-N	DIODE RECT-FAST	PS156R	1	
D811	DD1N4148-T	DIODE SW	1N4148	1	
D812	DD1N4148-T	DIODE SW	1N4148	1	
D813	DZUZ-9.1BM	DIODE ZENER	UZ-9.1BM	1	
D826	DZUZ-5.1BT	DIODE ZENER	UZ-5.1B	1	
DL01	DKLR113L-N	LED	KLR113L	1	
F801	5NS3124001	FUSE	MF51NR, 250V 4A NORMAL	1	
F801A	5NJ41BSP3M	FUSE CLIP	BSP3-M T0.45SN5	2	
I101	5CF11MD004	TUNER-F/S, US	VTSH7USZFD1D	1	
I102	USTV8223A1	IC	STV8223A1	1	
		IC ASSY-VERT			
.301	UTDA8174WN	IC	TDA8174W	1	
I301A	7C611212B2	HEAT SINK	MH9212-B2	1	
I301B	ST2PN310SE	SCREW TAPPING	T2S WAS 3x10 MFZN	2	
I301C	33317G600-	GRESE SILICON	G-600		
I501	USTV2216AN	IC	STV2216A	1	
I502	USTV2180-N	IC	STV2180	1	
I503	UKIA7809PI	IC	KIA7809PI	1	
		IC ASSY-CRT DRV			
I561	UTEA5101BN	IC	TEA5101B	1	
I561A	7C611SA011	HEAT SINK	DS-HTSA01	1	
I561B	ST2PN310SE	SCREW TAPPING	T2S WAS 3x10 MFZN	1	
I561C	33317G600-	GRESE SILICON	G-600		
		IC ASSY-SOUND AMP			
I601	UTDA2003-N	IC	TDA2003	1	
I601A	7C6119212D	HEAT SINK	MH9212-D	1	
I601B	ST2PN310SE	SCREW TAPPING	T2S WAS 3x10 MFZN	1	
I601C	33317G600-	GRESE SILICON	G-600		
I701	UST63156-N	u-COM	ST63156	1	

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT' Y	REMARK
I702	5CU21GP1U7	IR PREAMP IC ASSY-POWER	GP1U781Q	1	
I801	USTRS6707N	IC	STR-S6707	1	
I801A	7C611PM031	HEAT SINK	DS-HTSB03	1	
I801B	ST2PN310SE	SCREW TAPPING	T2S WAS 3x10 MFZN	1	
I801C	33317G600-	GRESE SILICON	G-600		
I802	UPC817---N	IC PHOTO	PC817	1	
I825	UKA33V---N	IC	KA33V	1	
J001	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J002	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J003	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J004	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J005	4NWJP175-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J006	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J007	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J008	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J009	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J010	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J011	4NWJP050-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J012	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J013	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J014	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J015	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J016	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J017	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J018	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J019	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J020	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J021	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J022	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J023	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J024	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J025	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J026	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J027	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J028	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J029	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J030	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J031	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J032	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J033	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J034	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J035	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J036	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J037	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J038	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J039	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J040	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J041	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J042	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT'Y	REMARK
J043	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J044	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J045	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J046	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J047	4NWJP050-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J048	4NWJP175-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J049	4NWJP175-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J050	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J051	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J052	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J053	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J054	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J055	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J056	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J057	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J058	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J059	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J060	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J061	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J062	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J063	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J064	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J065	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J066	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J067	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J068	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J069	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J070	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J071	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J072	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J073	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J074	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J075	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J076	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J077	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J078	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J079	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J080	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J081	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J082	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J083	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J084	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J085	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J086	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J087	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J088	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J089	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J090	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J091	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J092	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT'Y	REMARK
J093	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J094	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J095	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J096	4NWJP175-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J097	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J098	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J099	4NWJP175-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J100	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J101	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J102	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J103	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J104	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J105	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J106	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J107	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J108	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J109	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J110	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J111	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J112	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J113	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J114	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J115	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J116	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J117	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J118	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J119	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J120	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J121	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J122	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J123	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J124	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J125	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J126	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J127	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J128	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J129	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J130	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J131	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J132	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J133	4NWJP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J134	4NWJP150-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J135	4NWJP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J136	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	20" ONLY
J137	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	20" ONLY
J138	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	14" ONLY
J139	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	14" ONLY
J140	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J141	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J142	4NWJP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT'Y	REMARK
J143	4NWP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J144	4NWP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J145	4NWP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J146	4NWP100-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J147	4NWP175-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J148	4NWP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J149	4NWP175-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J150	4NWP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J151	4NWP125-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
J152	4NWP075-T	WIRE COPPER	AWG22 1/0.65 TIN COATING	1	
JAV1	5CJ51YSJ7R	PHONE JACK	YSC02P-4200-13A	1	
L101	LR06062R2K	COIL PEAKING, RDL	2.2uH K	1	
L102	LR06061R0K	COIL PEAKING, RDL	1uH K	1	
L103		COIL-CAN	TRF-1R4K	1	
L104	LR06068R2K	COIL PEAKING, RDL	8.2uH K	1	
L105	LR0606220J	COIL PEAKING, RDL	22uH J	1	
L106	5CL1110660	COIL-TRF	TRF-1066	1	
L402	5CL35TL64-	COIL-LINEARITY	TRL-64	1	14" TRL-102
L440	5CL34CH388	COIL-CHOKE	10uH (AXL CH-388)	1	
L561	LR0606181J	COIL PEAKING, RDL	180uH J	1	
L701	LR06065R6K	COIL PEAKING, RDL	5.6uH K	1	
L702	LR0606560J	COIL PEAKING, RDL	56uH J	1	
L801	5CL31LF303	FILTER-LINE	LF-303	1	
L805	5CL349004Y	COIL-CHOKE	AZ-9004Y	1	
Q101	TKSC388C-Y	TR NPN	KSC388C-Y	1	
Q211	TKSA733C-Y	TR PNP	KSA733C-Y	1	
Q212	TKSC945C-Y	TR NPN	KSC945C-Y	1	
Q213	TKSC945C-Y	TR NPN	KSC945C-Y	1	
Q251	TKSC945C-Y	TR NPN	KSC945C-Y	1	
Q252	TKSC945C-Y	TR NPN	KSC945C-Y	1	
Q253	TKSC945C-Y	TR NPN	KSC945C-Y	1	
Q302	TKSC945C-Y	TR NPN	KSC945C-Y	1	
Q401	TKSC2330-Y	TR NPN	KSC2330-Y	1	
Q402	T2SD1878-N	TR NPN	2SD1878	1	14" 2SD1877
Q402A	7C6119212C	HEAT SINK	MH9212-C	1	
Q402B	ST2TN310SM	SCREW TAPPING	T2S PAN 3x10 MFZN	1	
Q402C	33317G600-	GRESE SILICON	G-600		
Q561	TKSA733C-Y	TR PNP	KSA733C-Y	1	
Q701	TKSA733C-Y	TR PNP	KSA733C-Y	1	
Q703	TKSC945C-Y	TR NPN	KSC945C-Y	1	
Q704	TKSC945C-Y	TR NPN	KSC945C-Y	1	
Q801	TKSC2316-Y	TR NPN	KSC2316-Y	1	
Q802	TKSA940--N	TR PNP	KSA940	1	
Q803	TKSC2316-Y	TR NPN	KSC2316-Y	1	
Q804	TKSC2316-Y	TR NPN	KSC2316-Y	1	
Q805	USE120N--N	IC	SE120N	1	
QV01	TKSC945C-Y	TR NPN	KSC945C-Y	1	
P801	4CW11ARG02	POWER CORD ASSY	JP-900	1	
R101	RDD2402JNT	R CARBON FILM	1/6W 24K J	1	
R102	RDD4702JNT	R CARBON FILM	1/6W 47K J	1	

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT' Y	REMARK
R103	RDD5601JNT	R CARBON FILM	1/6W 5.6K J	1	
R104	RDD1001JNT	R CARBON FILM	1/6W 1K J	1	
R105	RDD5600JNT	R CARBON FILM	1/6W 560 J	1	
R106	RDD33R0JNT	R CARBON FILM	1/6W 33 J	1	
R107	RDD6802JNT	R CARBON FILM	1/6W 68K J	1	
R108	RDD3902JNT	R CARBON FILM	1/6W 39K J	1	
R109	RDD4702JNT	R CARBON FILM	1/6W 47K J	1	
R110	RDD2001JNT	R CARBON FILM	1/6W 2K J	1	
R111	RDD1000JNT	R CARBON FILM	1/6W 100 J	1	
R112	RDD1001JNT	R CARBON FILM	1/6W 1K J	1	
R113	RDD1101JNT	R CARBON FILM	1/6W 1.1K J	1	
R114	RDD2204JNT	R CARBON FILM	1/6W 2.2M J	1	
R115	RDD2204JNT	R CARBON FILM	1/6W 2.2M J	1	
R120	RDD2200JNT	R CARBON FILM	1/6W 220 J	1	
R121	RDD1500JNT	R CARBON FILM	1/6W 150 J	1	
R122	RDD1602JNT	R CARBON FILM	1/6W 16K J	1	
R123	RDD2700JNT	R CARBON FILM	1/6W 270 J	1	
R201	RDD4700JNT	R CARBON FILM	1/6W 470 J	1	
R202	RDD5600JNT	R CARBON FILM	1/6W 560 J	1	14" 1/6W 470 J
R211	RDD4700JNT	R CARBON FILM	1/6W 470 J	1	
R212	RDD5603JNT	R CARBON FILM	1/6W 560K J	1	
R213	RDD2201JNT	R CARBON FILM	1/6W 2.2K J	1	
R214	RDD3301JNT	R CARBON FILM	1/6W 3.3K J	1	
R215	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R216	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R217	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R218	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R219	RDD3001JNT	R CARBON FILM	1/6W 3K J	1	
R220	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R221	RDD4702JNT	R CARBON FILM	1/6W 47K J	1	
R222	RDD1003JNT	R CARBON FILM	1/6W 100K J	1	
R232	RDD8200JNT	R CARBON FILM	1/6W 820 J	1	
R233	RDD8200JNT	R CARBON FILM	1/6W 820 J	1	
R234	RDD8200JNT	R CARBON FILM	1/6W 820 J	1	
R235	RDD6800JNT	R CARBON FILM	1/6W 680 J	1	
R236	RDD6800JNT	R CARBON FILM	1/6W 680 J	1	
R238	RDD8200JNT	R CARBON FILM	1/6W 820 J	1	
R239	RDD1000JNT	R CARBON FILM	1/6W 100 J	1	
R251	RDD3300JNT	R CARBON FILM	1/6W 330 J	1	
R252	RDD3300JNT	R CARBON FILM	1/6W 330 J	1	
R253	RDD1802JNT	R CARBON FILM	1/6W 18K J	1	
R254	RDD1803JNT	R CARBON FILM	1/6W 180K J	1	
R255	RDD1802JNT	R CARBON FILM	1/6W 18K J	1	
R256	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R257	RDD1003JNT	R CARBON FILM	1/6W 100K J	1	
R258	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R259	RDD1803JNT	R CARBON FILM	1/6W 180K J	1	
R301	RDA2R20JNT	R CARBON FILM	1/2W 2.2 J	1	
R302	RDD1503JNT	R CARBON FILM	1/6W 150K J	1	
R303	RDD1503JNT	R CARBON FILM	1/6W 150K J	1	

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT'Y	REMARK
R304	RDD1503JNT	R CARBON FILM	1/6W 150K J	1	
R305	RDD1102JNT	R CARBON FILM	1/6W 11K J	1	14" 1/6W 15K J
R306	RDD1501JNT	R CARBON FILM	1/6W 1.5K J	1	
R307	RDD2201JNT	R CARBON FILM	1/6W 2.2K J	1	
R308	RDD2401JNT	R CARBON FILM	1/6W 2.4K J	1	
R309	RDD33R0JNT	R CARBON FILM	1/6W 33 J	1	
R310	RDA1R30JNT	R CARBON FILM	1/2W 1.3 J	1	
R312	RS15600JCN	R MOX FILM	1W 560 J	1	
R313	RS256R0JCN	R MOX FILM	2W 56 J	1	
R315	RDD1003JNT	R CARBON FILM	1/6W 100K J	1	
R316	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R317	RDD2201JNT	R CARBON FILM	1/6W 2.2K J	1	
R318	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R319	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R323	RDD3002JNT	R CARBON FILM	1/6W 30K J	1	
R324	RDD4701JNT	R CARBON FILM	1/6W 4.7K J	1	
R401	RDD56R0JNT	R CARBON FILM	1/6W 56 J	1	
R402	RDD5600JNT	R CARBON FILM	1/6W 560 J	1	
R403	RS21002JCN	R MOX FILM	2W 10K J	1	
R404	RS21002JCN	R MOX FILM	2W 10K J	1	
R405	RDB1000JNT	R CARBON FILM	1/4W 100 J	1	
R406	RDA2002JNT	R CARBON FILM	1/2W 20K J	1	
R407	RDA3001JNT	R CARBON FILM	1/2W 3K J	1	
R408	RDB4702JNT	R CARBON FILM	1/4W 47K J	1	
R409	RDB4702JNT	R CARBON FILM	1/4W 47K J	1	
R410	RDA2200JNT	R CARBON FILM	1/2W 220 J	1	
R411	RDA2002JNT	R CARBON FILM	1/2W 20K J	1	
R412	RS33R00JCN	R MOX FILM	3W 3 J	1	14" 3W 3.9 J
R413	RDA7501JNT	R CARBON FILM	1/2W 7.5K J	1	
R414	RDA1002JNT	R CARBON FILM	1/2W 10K J	1	
R415	RDB4701JNT	R CARBON FILM	1/4W 4.7K J	1	
R416	RDA3001JNT	R CARBON FILM	1/2W 3K J	1	
R430	RS13R00JCN	R MOX FILM	1W 3 J	1	
R440	RS12R20JCN	R MOX FILM	1W 2.2 J	1	
R441	RS256R0JCN	R MOX FILM	2W 56 J	1	
R442	RS268R0JCN	R MOX FILM	2W 68 J	1	
R443	RS11500JCN	R MOX FILM	1W 150 J	1	
R444	RS22700JCN	R MOX FILM	2W 270 J	1	
R445	RS12R20JCN	R MOX FILM	1W 2.2 J	1	
R446	RS11000JCN	R MOX FILM	1W 100 J	1	
R447	RS11500JCN	R MOX FILM	1W 150 J	1	
R450	RDB8201JNT	R CARBON FILM	1/4W 8.2K J	1	14" 1/4W 7.5K J
R451	RDA1502JNT	R CARBON FILM	1/2W 15K J	1	
R452	RDD2202JNT	R CARBON FILM	1/6W 22K J	1	
R501	RS256R0JCN	R MOX FILM	2W 56 J	1	
R502	RDB4R70JNT	R CARBON FILM	1/4W 4.7 J	1	
R503	RDD1001JNT	R CARBON FILM	1/6W 1K J	1	
R504	RDD2703JNT	R CARBON FILM	1/6W 270K J	1	
R505	RDD3303JNT	R CARBON FILM	1/6W 330K J	1	
R506	RDD1802JNT	R CARBON FILM	1/6W 18K J	1	

REPLACEMENT PART LIST

LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT'Y	REMARK
R507	RDD1000JNT	R CARBON FILM	1/6W 100 J	1	
R508	RDD1000JNT	R CARBON FILM	1/6W 100 J	1	
R509	RDD1000JNT	R CARBON FILM	1/6W 100 J	1	
R510	RDD5601JNT	R CARBON FILM	1/6W 5.6K J	1	
R511	RDD2203JNT	R CARBON FILM	1/6W 220K J	1	
R512	RDD2202JNT	R CARBON FILM	1/6W 22K J	1	
R513	RDD2402JNT	R CARBON FILM	1/6W 24K J	1	
R514	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R515	RDD3901JNT	R CARBON FILM	1/6W 3.9K J	1	
R516	RDD1502JNT	R CARBON FILM	1/6W 15K J	1	
R517	RDD4300JNT	R CARBON FILM	1/6W 430 J	1	
R518	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R519	RDD2204JNT	R CARBON FILM	1/6W 2.2M J	1	
R521	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R552	RDD5601JNT	R CARBON FILM	1/6W 5.6K J	1	
R561	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R562	RDD9100JNT	R CARBON FILM	1/6W 910 J	1	
R563	RDA6802JNT	R CARBON FILM	1/2W 68K J	1	
R564	RDD1501JNT	R CARBON FILM	1/6W 1.5K J	1	
R565	RDD9100JNT	R CARBON FILM	1/6W 910 J	1	
R566	RDA6802JNT	R CARBON FILM	1/2W 68K J	1	
R567	RDD1501JNT	R CARBON FILM	1/6W 1.5K J	1	
R568	RDD9100JNT	R CARBON FILM	1/6W 910 J	1	
R569	RDA6802JNT	R CARBON FILM	1/2W 68K J	1	
R570	RDD1501JNT	R CARBON FILM	1/6W 1.5K J	1	
R571	RDD2200JNT	R CARBON FILM	1/6W 220 J	1	
R572	RDD2200JNT	R CARBON FILM	1/6W 220 J	1	
R573	RDD2200JNT	R CARBON FILM	1/6W 220 J	1	
R574	RDA1501JNT	R CARBON FILM	1/2W 1.5K J	1	
R575	RDA1501JNT	R CARBON FILM	1/2W 1.5K J	1	
R576	RDA1501JNT	R CARBON FILM	1/2W 1.5K J	1	
R577	RDD4701JNT	R CARBON FILM	1/6W 4.7K J	1	
R578	RDD4701JNT	R CARBON FILM	1/6W 4.7K J	1	
R579	RDD4701JNT	R CARBON FILM	1/6W 4.7K J	1	
R581	RDD4702JNT	R CARBON FILM	1/6W 47K J	1	
R582	RDD10R0JNT	R CARBON FILM	1/6W 10 J	1	
R601	RDD8200JNT	R CARBON FILM	1/6W 820 J	1	
R602	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R603	RDA2200JNT	R CARBON FILM	1/2W 220 J	1	
R604	RDD2R20JNT	R CARBON FILM	1/6W 2.2 J	1	
R605	RDB4R70JNT	R CARBON FILM	1/4W 4.7 J	1	
R606	RS215R0JCN	R MOX FILM	2W 15 J	1	
R608	RDD1000JNT	R CARBON FILM	1/6W 100 J	1	
R701	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R702	RDD4700JNT	R CARBON FILM	1/6W 470 J	1	
R705	RDD3301JNT	R CARBON FILM	1/6W 3.3K J	1	
R706	RDD3301JNT	R CARBON FILM	1/6W 3.3K J	1	
R707	RDD3301JNT	R CARBON FILM	1/6W 3.3K J	1	
R709	RDD1001JNT	R CARBON FILM	1/6W 1K J	1	
R710	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	

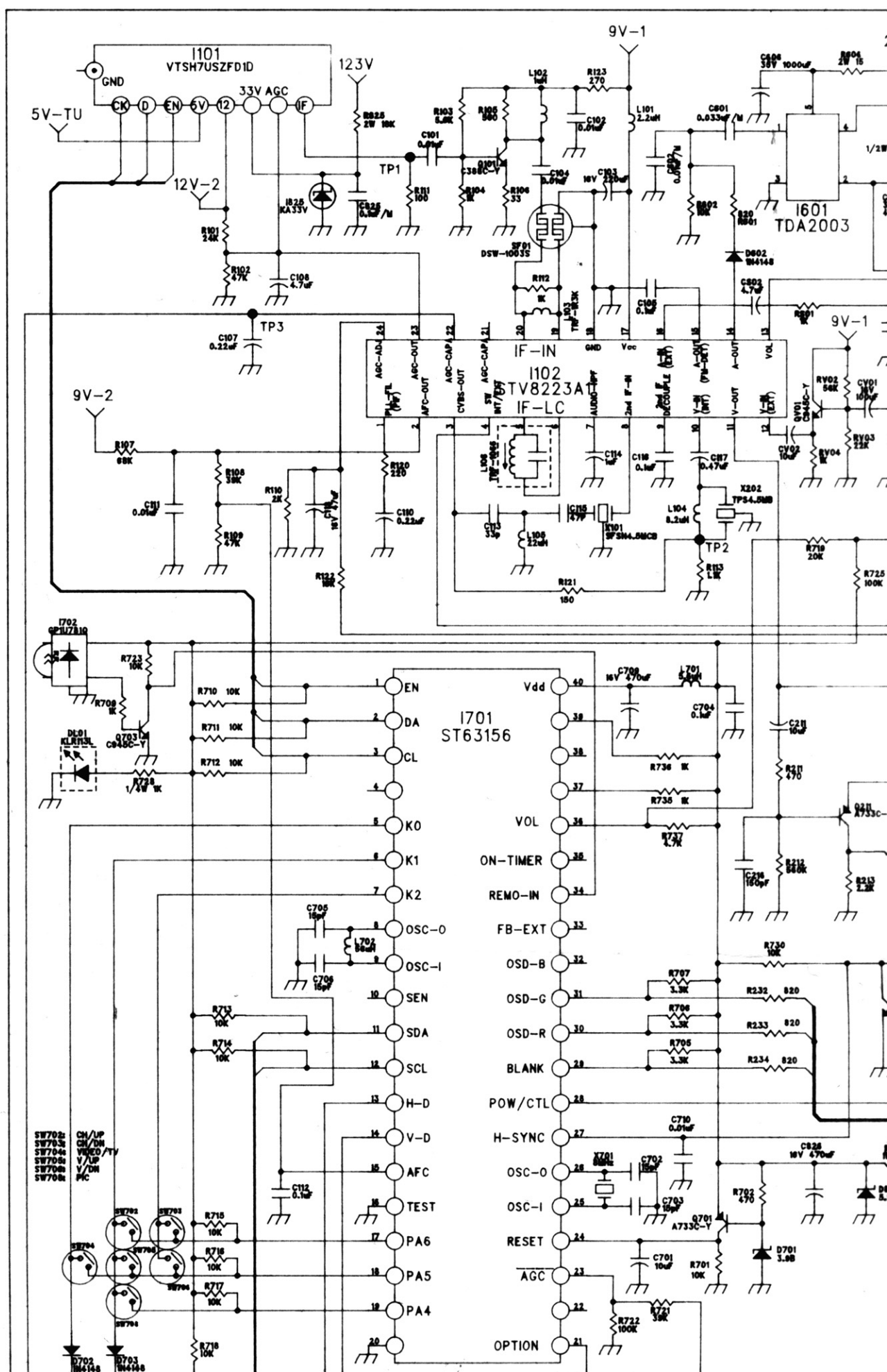
REPLACEMENT PART LIST

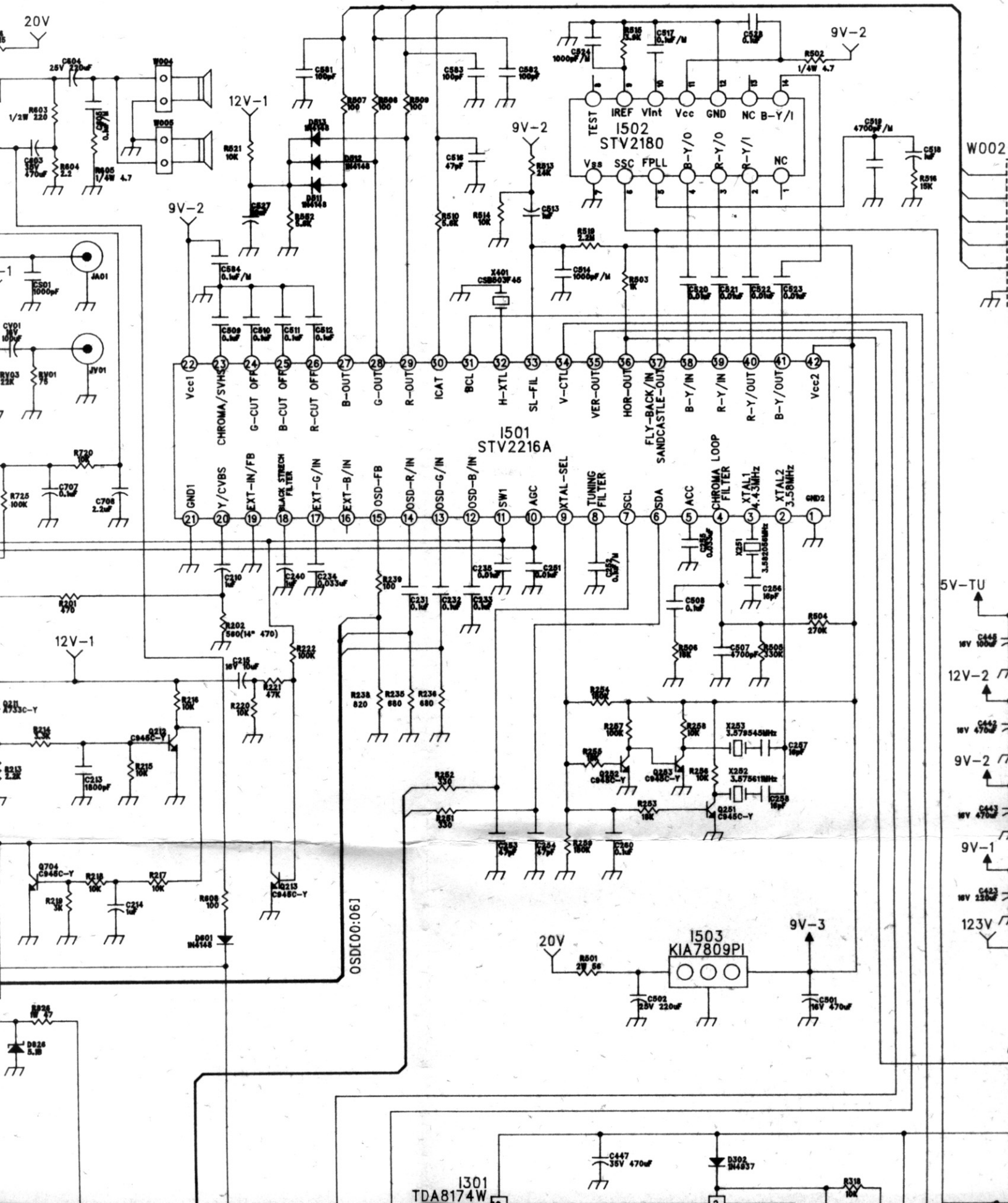
LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT' Y	REMARK
R711	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R712	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R713	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R714	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R715	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R716	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R717	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R718	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R719	RDD2002JNT	R CARBON FILM	1/6W 20K J	1	
R720	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R721	RDD3902JNT	R CARBON FILM	1/6W 39K J	1	
R722	RDD1003JNT	R CARBON FILM	1/6W 100K J	1	
R723	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R725	RDD1003JNT	R CARBON FILM	1/6W 100K J	1	
R728	RDB1001JNT	R CARBON FILM	1/4W 1K J	1	
R730	RDD1002JNT	R CARBON FILM	1/6W 10K J	1	
R737	RDD4701JNT	R CARBON FILM	1/6W 4.7K J	1	
R801	5CR5111801	POSISTOR	ECPC180M290	1	
R802	RWZ2R20JAR	R CEMENT	10W 2.2 J R-LEAD	1	
R803	RDA2203JNT	R CARBON FILM	1/2W 220K J	1	
R804	RS127R0JCN	R MOX FILM	1W 27 J	1	
R805	RS10R39JCN	R MOX FILM	1W 0.39 J	1	
R806	RDB3301JNT	R CARBON FILM	1/4W 3.3K J	1	
R807	RDA2203JNT	R CARBON FILM	1/2W 220K J	1	
R808	RDA68R0JNT	R CARBON FILM	1/2W 68 J	1	
R809	RDA2002JNT	R CARBON FILM	1/2W 20K J	1	
R810	RDA2002JNT	R CARBON FILM	1/2W 20K J	1	
R811	RDB1501JNT	R CARBON FILM	1/4W 1.5K J	1	
R812	RDD2201JNT	R CARBON FILM	1/6W 2.2K J	1	
R813	RS13R90JCN	R MOX FILM	1W 3.9 J	1	
R817	RDA3302JNT	R CARBON FILM	1/2W 33K J	1	
R818	RDB6802JNT	R CARBON FILM	1/4W 68K J	1	
R819	RDB4702JNT	R CARBON FILM	1/4W 47K J	1	
R820	RDD1001JNT	R CARBON FILM	1/6W 1K J	1	
R821	RDD4701JNT	R CARBON FILM	1/6W 4.7K J	1	
R822	RDB6802JNT	R CARBON FILM	1/4W 68K J	1	
R823	RDA2202JNT	R CARBON FILM	1/2W 22K J	1	
R824	RS22200JCN	R MOX FILM	2W 220 J	1	
R825	RS21802JCN	R MOX FILM	2W 18K J	1	
R826	RS147R0JCN	R MOX FILM	1W 47 J	1	
R835	RDD1001JNT	R CARBON FILM	1/6W 1K J	1	
R836	RS11601JCN	R MOX FILM	1W 1.6K J	1	
RS01	RDD1001JNT	R CARBON FILM	1/6W 1K J	1	
RV01	RDD75R0JNT	R CARBON FILM	1/6W 75 J	1	
RV02	RDD5602JNT	R CARBON FILM	1/6W 56K J	1	
RV03	RDD2202JNT	R CARBON FILM	1/6W 22K J	1	
RV04	RDD1001JNT	R CARBON FILM	1/6W 1K J	1	
SC01	5CJ61SHS04	CRT SOCKET	ISHS-04	1	14" ISMM-01
SF01	5CF811003S	FILTER-SAW	DSW-1003S	1	
SW702	5NS11115B3	SW-TACT	1105B3	1	

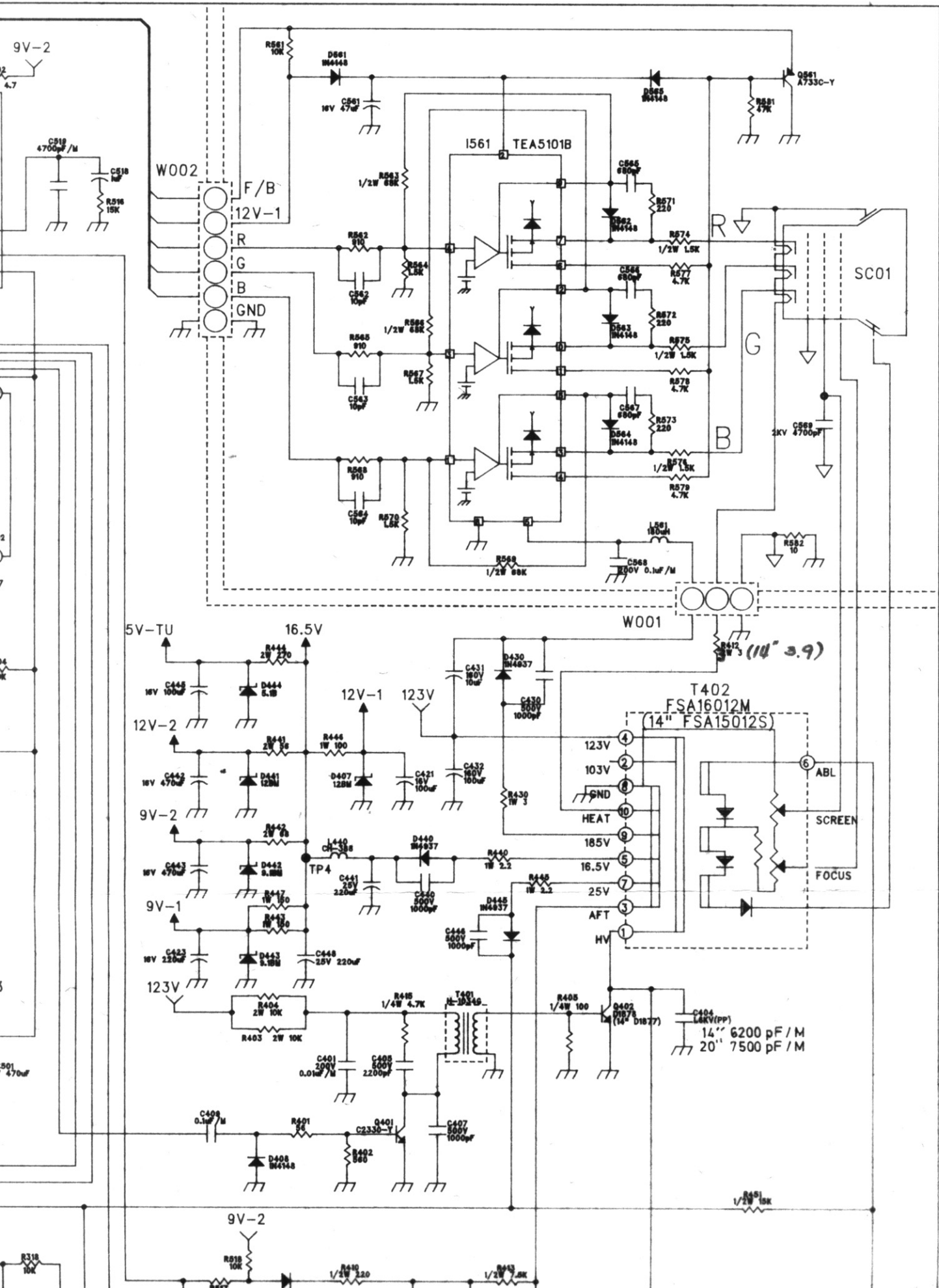
REPLACEMENT PART LIST

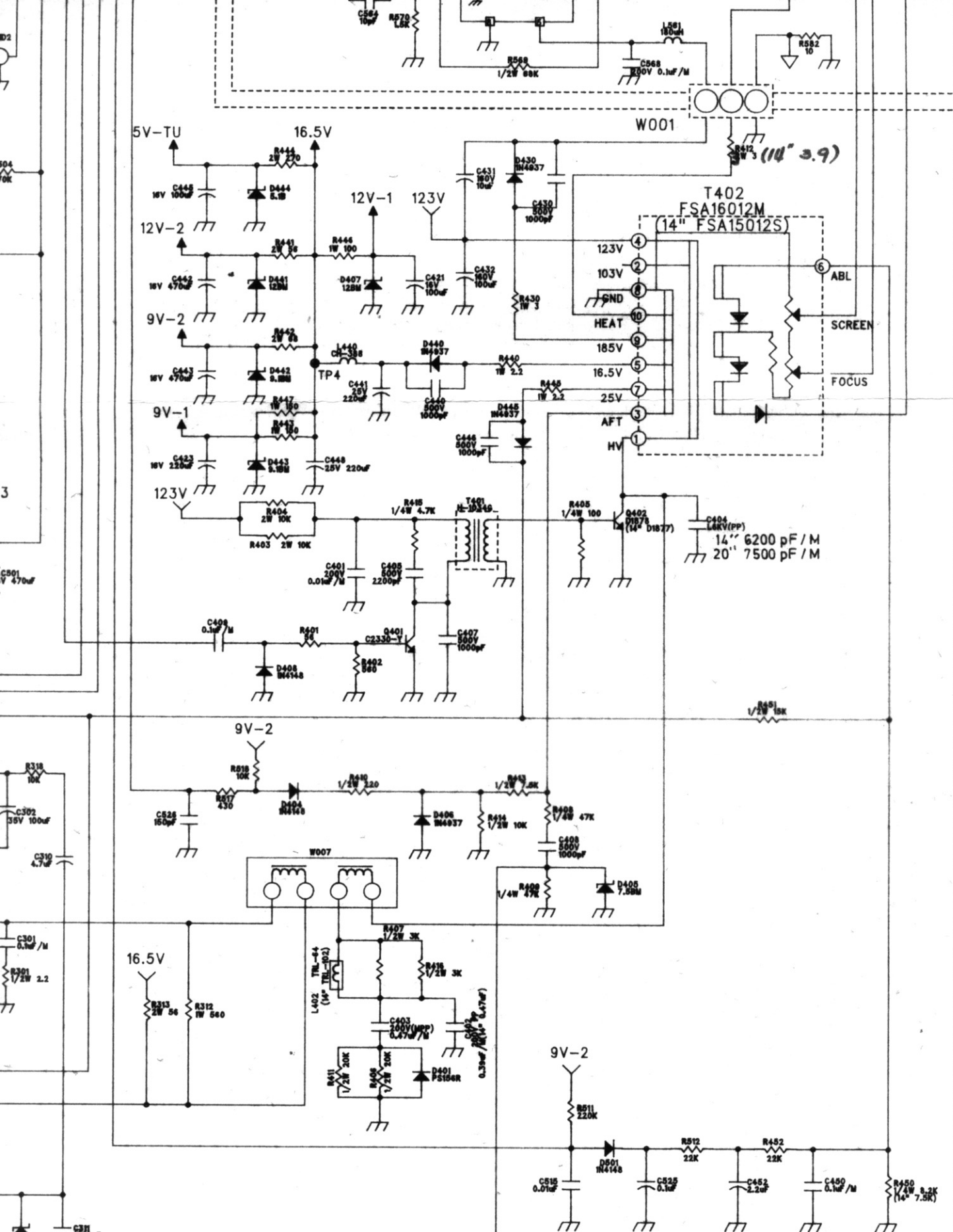
LOCA NO.	S/N	PARTS NAME	DESCRIPTION	QT'Y	REMARK
SW703	5NS11115B3	SW-TACT	1105B3	1	
SW704	5NS11115B3	SW-TACT	1105B3	1	
SW705	5NS11115B3	SW-TACT	1105B3	1	
SW706	5NS11115B3	SW-TACT	1105B3	1	
SW708	5NS11115B3	SW-TACT	1105B3	1	
SW801	5CS13ME722	SW-POWER	ME-70063-220	1	
T401	5CL321034G	HDT	H-1034G	1	
T402	5CL411612S	FBT	FSA16012M	1	14" FSA15012S
T801	5CL61SM703	TRANS-SMPS	TSM-703	1	
W001	4CW3103350	CONNECTOR ASSY	3P 350.51088-03(B-B)	1	MAIN PCB-CRT PCB
W002	4CW3106450	CONNECTOR ASSY	6P 450.51088-06(B-B)	1	MAIN PCB-CRT PCB
W003	4NJ2252672	WAFER	5267-02	1	
W004	4NJ2252672	WAFER	5267-02	1	SPEAKER
W005	4NJ2252672	WAFER	5267-02	1	SPEAKER
W006	4CJ21YF801	WAFER	YFW-800-01	1	
W007	4CJ21YF506	WAFER	YFW-500-06	1	
W802	4CJ21YF802	WAFER	YFW-800-02	1	
X101	5CF31SFSH4	FILTER-CERA	SFSH4.5MCB	1	
X202	5CF32TPS45	TRAP-CERA	TPS4.5MB	1	
X251	5CV11PN001	CRYSTAL	3.582056MHz	1	
X252	5CV11PM001	CRYSTAL	3.575611MHz	1	
X253	5CV11NT001	CRYSTAL	3.579545MHz	1	
X401	5CV1250345	RESONATOR-CERA	CSB503F45	1	
X701	5CV11CL002	CRYSTAL	8MHz	1	

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