

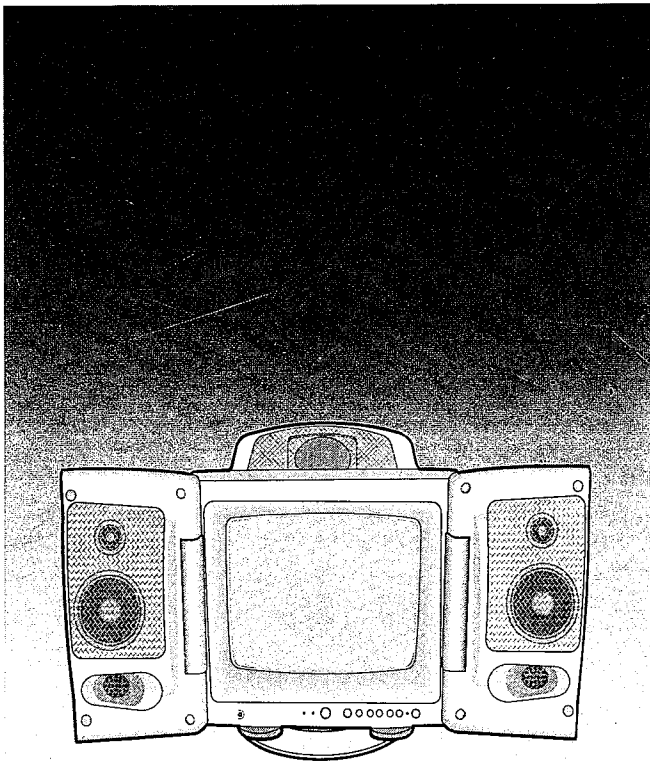
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**SAMSUNG**

# COLOR TELEVISION REC

CHASSIS : KG1  
MODEL : GXE1395

# **SERVICE** Manual

## COLOR TELEVISION RECEIVER



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# 1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

## 1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people--particularly children--might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. **Leakage Current Hot Check (Figure 1-1):**  
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).
5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

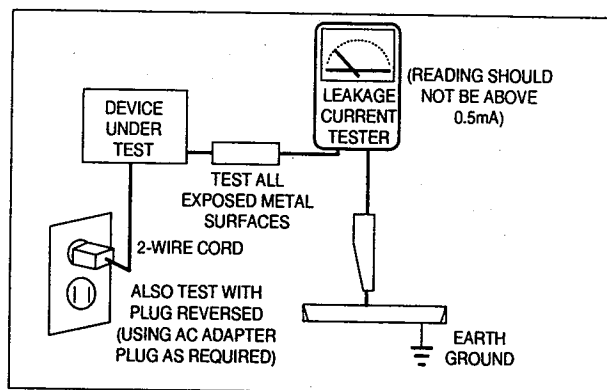




Fig. 1-1 AC Leakage Test

6. **Antenna Cold Check:**  
With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.
7. **X-ray Limits:**  
The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.
8. **High Voltage Limits:**  
High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced. (X-ray protection circuits also may be called "horizontal disable" or "hold-down".)

Heed the high voltage limits. These include the *X-ray Protection Specifications Label*, and the *Product Safety and X-ray Warning Note* on the service data schematic.

## 1-1 Safety Precautions (Continued)

9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
10. Design Alteration Warning:  
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
11. Hot Chassis Warning:  
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.  
  
To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.
12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, *regardless of the AC plug polarity*. These units can be safely serviced *only* if an isolation transformer is inserted between the receiver and the power source.
13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.
14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
16. Picture Tube Implosion Warning:  
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.
17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
18. Product Safety Notice:  
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.  
  
Components that are critical for safety are indicated in the circuit diagram by shading, () or (). Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

## 1-2 Servicing Precautions

**WARNING1:** First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

**WARNING2:** An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.  
  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

## 1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static"; these can accumulate sufficient electrical charge to damage ESDs.
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

# MEMO

## 2. Specifications

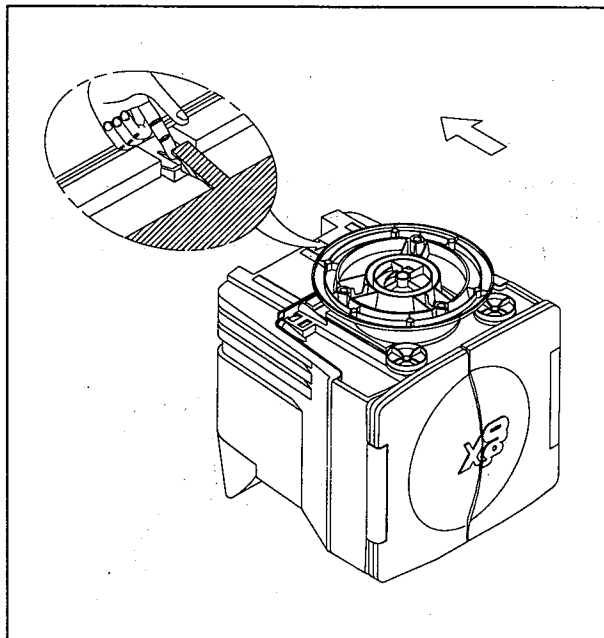
Television System	13" NTSC COLOR TV SIGNAL
Power Consumption	13" : 75 WATTS NOMINAL
Picture Tube	13" : A34KQV42X
Power Requirement	AC 120V, 60Hz
Operating System	REMOCON SYSTEM (SZM-282EGT)
Tuning Range	VHF CH : 2-13, UHF CH : 14-69, CABLE CH : 1,14-125
Antenna Input Impedance	75 ohm UNBALANCED TYPE FOR VHF/UHF, 75 ohm UNBALANCED TYPE FOR VIDEO GAME PLAYER 3CH, 4CH
Intermediate Frequency	PICTURE 45.75MHz, SOUND 41.25MHz, COLOR SUB CARRIER 42.17MHz
Speaker Impedance	Main : 16 ohm 5W Woofer : 4 ohm 20W

# MEMO

## 3. Disassembly and Reassembly

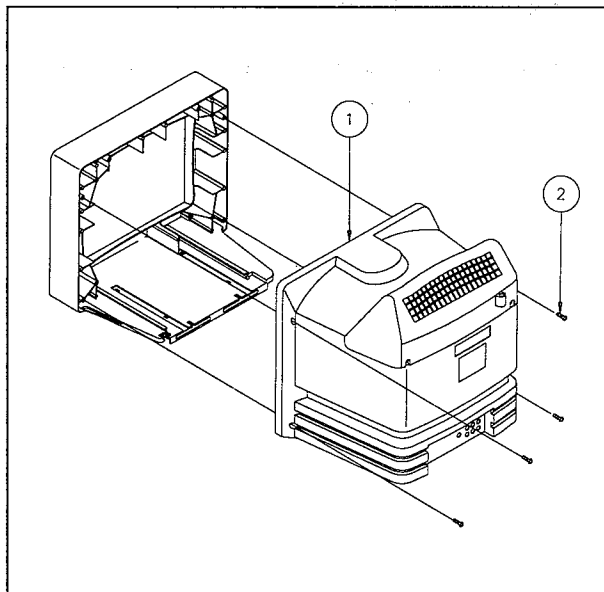
### 3-1 Swivel Removal

1. Place the TV set upside down.
2. Unlock the tab and slide out the swivel in the direction of the arrow.



### 3-2 Back Cover Removal

1. Remove the 4 screws located on the side of the back cover.
2. Remove the screws from A/V Jack.
3. Pull the cover backwards to remove.
4. Separate the inside woofer connector.

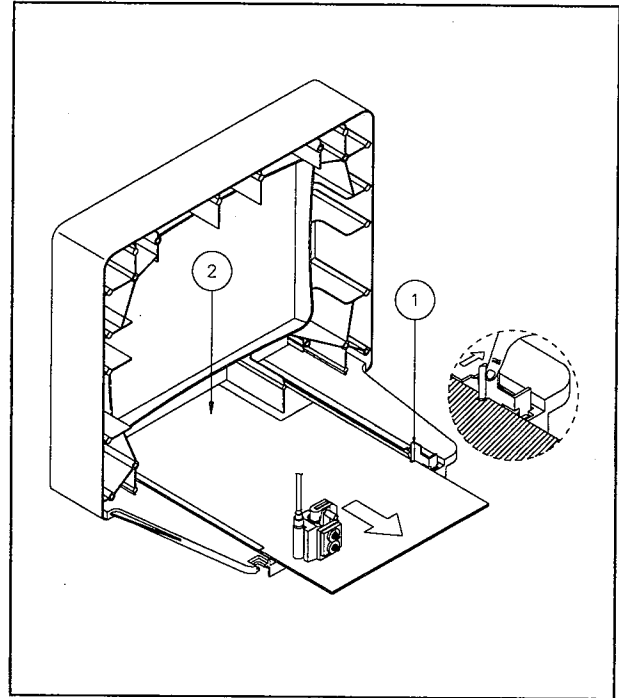
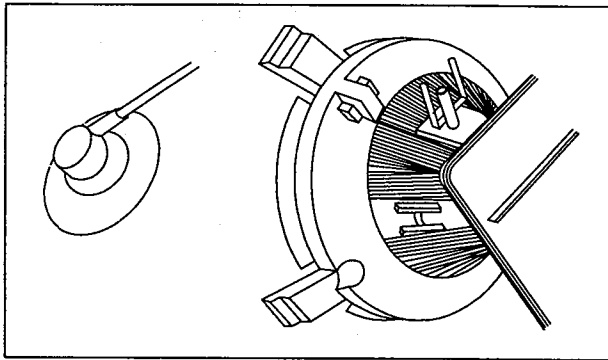




### 3-3 Main Board Removal

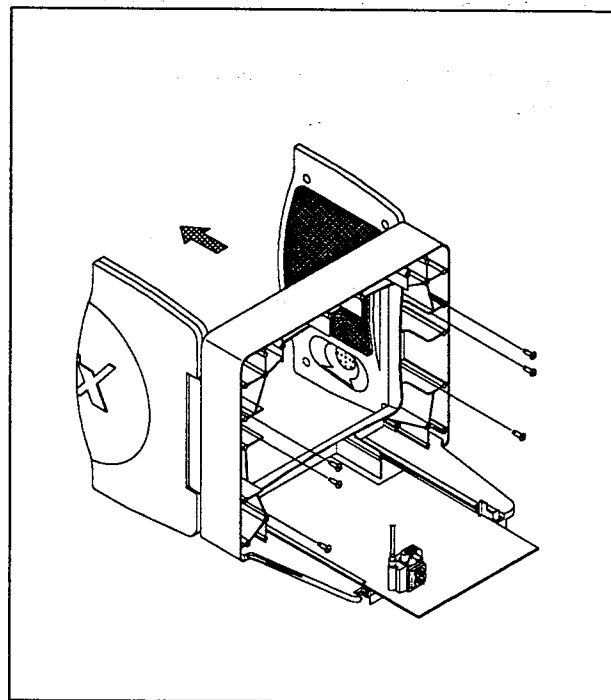
1. Carefully separate the CRT socket board from the CRT neck.
2. Remove the Anode Cap from the CRT.
3. After pressing the Main Board Stopper, remove the main board by pulling it backwards with both hands.

**WARNING : The FBT is charged with high voltage. Before removing the Anode Cap, discharge the voltage through one of the heat sinks on the Main Board.**



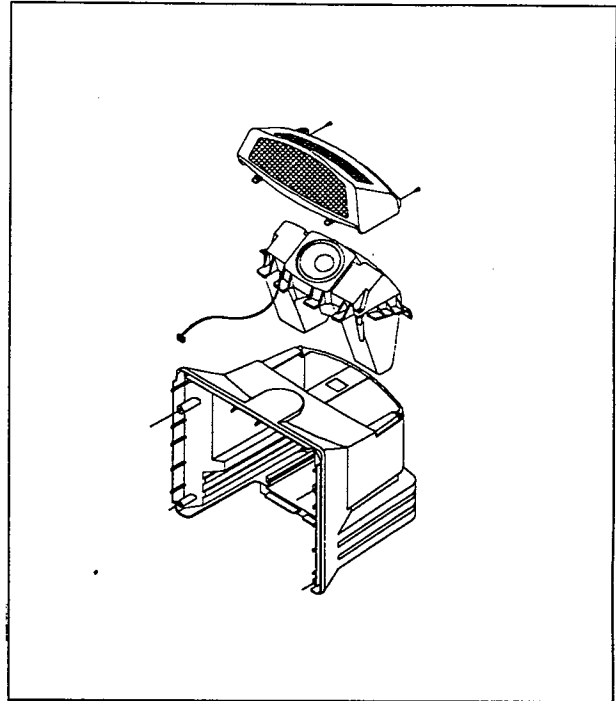
### 3-4 Front Speaker Removal

1. Remove the 6 screws located on the left and right sides of the front cover.
2. Pull the front speaker in the direction of the arrow to remove.



### 3-5 Woofer Speaker Removal

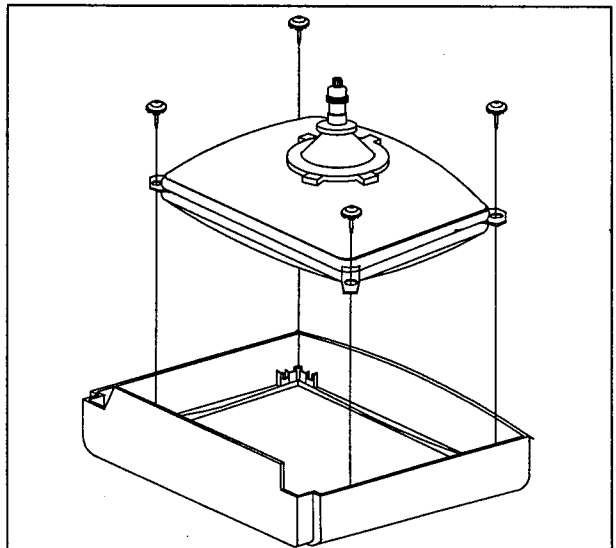
1. Remove the 2 screws located on the back of the Cabinet-Top.
2. After separating the Cabinet-Top, remove the woofer speaker.



### 3-6 CRT Removal

1. Spread a soft mat on the floor. Place the TV set face down.
2. Remove the 4 nuts mounting the CRT to the front cabinet. Lift the CRT.

**Caution** : Due to the high vacuum and large surface area of the picture tube, great care must be exercised when handling: (1) Always lift the picture tube by grasping it firmly around the faceplate, (2) Never lift the tube by its neck. The picture tube must not be scratched or subjected to excessive pressure. Fractures of the glass may cause an implosion.



# MEMO

## 4. Alignment and Adjustments

### 4-1 Service Mode Adjustments

#### 4-1-1 Service Mode Menus

Since there are no VRs in the KG1 chassis, all adjustments after parts replacement must be done in the Service Mode. Service Mode adjustments are necessary when either the EEPROM (IC902) or the CRT is replaced.

#### 4-1-2 Entering the Service Mode

Press the following transmitter keys while in STAND-BY mode:

MUTE → 1 → 8 → 2 → POWER  
 "Factory Mode Menu" is displayed

ADJUSTMENT	←-selected (Black)
TEST PATTERN	
SET OPTION BYTE	
FACTORY RESET	

Enter Service Mode using the Volume +,- keys. Service Mode Menu:

AGC	XX	SB	XX
VCO	XX	VA	XX
SC	XX	VS	XX
SR	XX	HS	XX
ST	XX		
SS	XX		
RC	XXX		
GC	XXX		
BC	XXX		
GG	XXX		
BG	XXX		SVC : MUTE

Select a mode to be adjusted, using the channel down key. Example: VCO.

AGC	XX	SB	XX
VCO	XX	VA	XX
SC	XX	VS	XX
SR	XX	HS	XX
ST	XX		
SS	XX		
RC	XXX		
GC	XXX		
BC	XXX		
GG	XXX		
BG	XXX		SVC : MUTE

Change the data with "Volume +, -" keys.

VCO	71
-----	----

Return to the Service mode by pressing MENU.

AGC	XX	SB	XX
VCO	XX	VA	XX
SC	XX	VS	XX
SR	XX	HS	XX
ST	XX		
SS	XX		
RC	XXX		
GC	XXX		
BC	XXX		
GG	XXX		
BG	XXX		SVC : MUTE

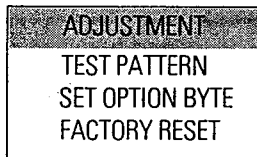
Return to the Factory mode by Re-pressing MENU.

ADJUSTMENT
TEST PATTERN
SET OPTION BYTE
FACTORY RESET

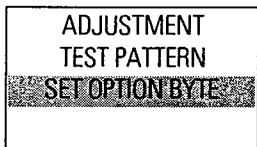
Press POWER to enter the Stand-by mode.

### 4-1-3 Adjustment in Option Mode

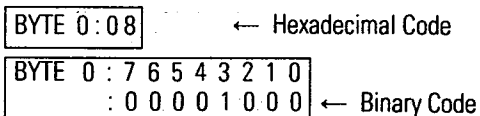
This adjustment is necessary whenever the EEPROM (IC902) is replaced. The Option Bytes initial value is 08 (hexadecimal Code).



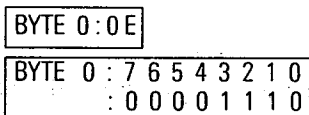
Select "SET OPTION BYTE" by pressing the Channel ▼ key twice.



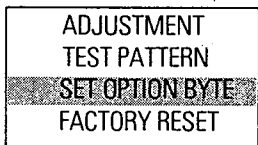
Press the Volume +/- keys to enter the Set Option mode.



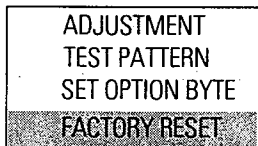
Press the Volume "+" key to increase and press the Volume "-" key to decrease. Example Volume "+" key



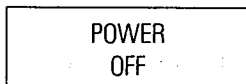
Press MENU to return to the factory mode.



Select "Factory Reset" using the channel ▼ key.



Press the volume "+" key.



#### 4-1-4 Service Mode Adjustments

ADJUSTMENT TEST PATTERN SET OPTION BYTE FACTORY RESET
--

1. The "Test Pattern" Adjustment is done only in the factory. Do not attempt to readjust it.
2. Refer to 4-2 for other adjustments.
3. "SET OPTION BYTE"  
Adjustment should be set to the factory-preset values

#### 4-1-5 Service Mode Adjustment Values

No	Item	Function	Range	Initialized MICOM Data
1	AGC	RF AGC Adjustment	0 ~ 63	40
2	VCO	PIF VCO Adjustment	0 ~ 127	63
3	SC	SUB-CONTRAST Adjustment	0 ~ 63	15
4	SR	SUB-COLOR Adjustment	0 ~ 27	4
5	ST	SUB-TINT Adjustment	0 ~ 27	19
6	SS	SUB-SHARPNESS Adjustment	0 ~ 31	25
7	RC	RED-CUT OFF Adjustment	0 ~ 255	0
8	GC	GREEN-CUT OFF Adjustment	0 ~ 255	0
9	BC	BLUE-CUR OFF Adjustment	0 ~ 255	0
10	GG	GREEN-GAIN Adjustment	0 ~ 255	90
11	BG	BLUE-GAIN Adjustment	0 ~ 255	140
12	SB	SUB-BRIGHTNESS Adjustment	0 ~ 63	25
13	VA	VERTICAL SIZE Adjustment	0 ~ 63	38
14	VS	VERTICAL CENTER Adjustment	0	0
15	HS	HORIZONTAL PHASE Adjustment	0 ~ 31	17
16	SVC	Input a Horiz Line Pattern		

Note : These are the initial MICOM data values when IC902 is replaced.


## 4-2 Alignment and Adjustment

### 4-2-1 General Alignment Instructions

1. Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as picture height, focus and a horizontal and vertical sync.
2. Observe the picture and check for good back and white details; there should be no objectionable color shading. If color shading is present, demagnetize the receiver. If color shading persists, perform purity and convergence adjustments described below.
3. To protect against shock hazard, use an isolation transformer.

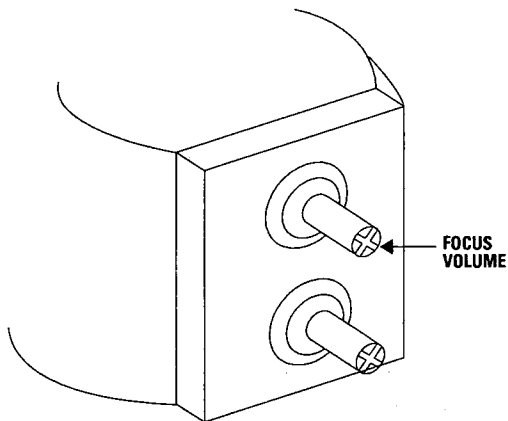
### 4-2-2 Power Supply Check

Check the following :

- A: "Stand-by" mode (power cord is connected).
- B: Power On ("Power ON" button is pressed).
- C: Power On (FBT).  
Each supply is marked on its lead-in wire.  
(  )

### 4-2-3 Focus Adjustment

Adjust the focus control on the FBT for well defined scanning lines on the picture screen.



### 4-2-4 Fail Safe Circuit Check (FS)

1. The failsafe check must be the final step in servicing.
2. Turn the power switch ON and adjust customer controls for normal operation.
3. Temporarily short Pin X to Pin R on the main board (RX05, RX04) with a jumper wire. Raster will disappear.
4. The TV must remain in this state even after removing the jumper wire. This shows that the failsafe circuit is working properly.
5. To recover picture and sound, temporarily turn off the TV and allow the failsafe circuit more than 30 seconds to reset. Then switch power ON to produce normal picture and sound.

### 4-2-5 IC902 Replacement

1. When IC902 is replaced, all values are reset to "Initialized MICOM Data" and readjustment is necessary.
2. Press POWER button 10 seconds after plug-in.
3. To enter the Service Mode, refer to 4-1 (Service Mode Adjustment).

### 4-2-6 PIF VCO Adjustment

1. Without connecting an antenna to the tuner, input 45.75MHz IF signal to C151( IF ). Use a pattern generator.
2. Adjust VCO in the Service Mode. Set IC201 Pin 44 (AFT) to 2.5V.

### 4-2-7 RF-AGC Adjustment

1. Input a Color Bar pattern.
2. Enter into the AGC in the Service Mode.
3. Adjust AGC until color bar noise disappears.

**4-2-8 Sub-Contrast Adjustment**

1. Enter SC while in the Service Mode.
2. Set SC to 15.

**4-2-9 Sub-Tint Adjustment**

1. Enter ST while in the Service Mode.
2. Set ST to 16.

**4-2-10 Sub-Color Adjustment**

1. Enter SR while in the Service Mode.
2. Set SR to 5.

**4-2-11 White Balance Adjustment**

Low-Light Adjustments:

1. Input a "pure white" color pattern.
2. Warm up the receiver for 30 minutes.
3. Check and set the data in the Service Mode:  
RC, GC, BC are 0. SB is 25;  
Steps BG and GG are 127.
4. Enter the Horizontal Line mode by pressing the MUTE key.
5. Adjust the screen VR on the FBT until a dim colored line (red, green or blue) appears on the screen.
6. Adjust RC, BC, GC so the dim colored line becomes white.
7. Exit the Horizontal Line via the MUTE key.

High Light Adjustments:

1. After making the low-light adjustments, input a 5-step staircase pattern.
2. Adjust GG, BG in the Service Mode.
3. Check "Pure White" in the high-light.
4. Recheck in low light.

**4-2-12 Sub-Brightness Adjustment**

1. Input a 10-step staircase pattern.
2. Warm up the receiver for 10 minutes.
3. Enter into the Service Mode and set SB to the point which is sectioned with 10 steps on the screen.

**4-2-13 Vertical Size Adjustment**

1. After the vertical center adjustment, enter into the Service Mode.
2. Adjust VA so that the vertical size is over scanned about 10% on the screen.

**4-2-14 Horizontal Shift Adjustment**

1. Enter into the Service Mode.
2. Adjust HS so that the picture is centralized

**4-2-15 When CRT Is Replaced**

Do the following adjustments after the basic purity adjustments and convergence adjustment.

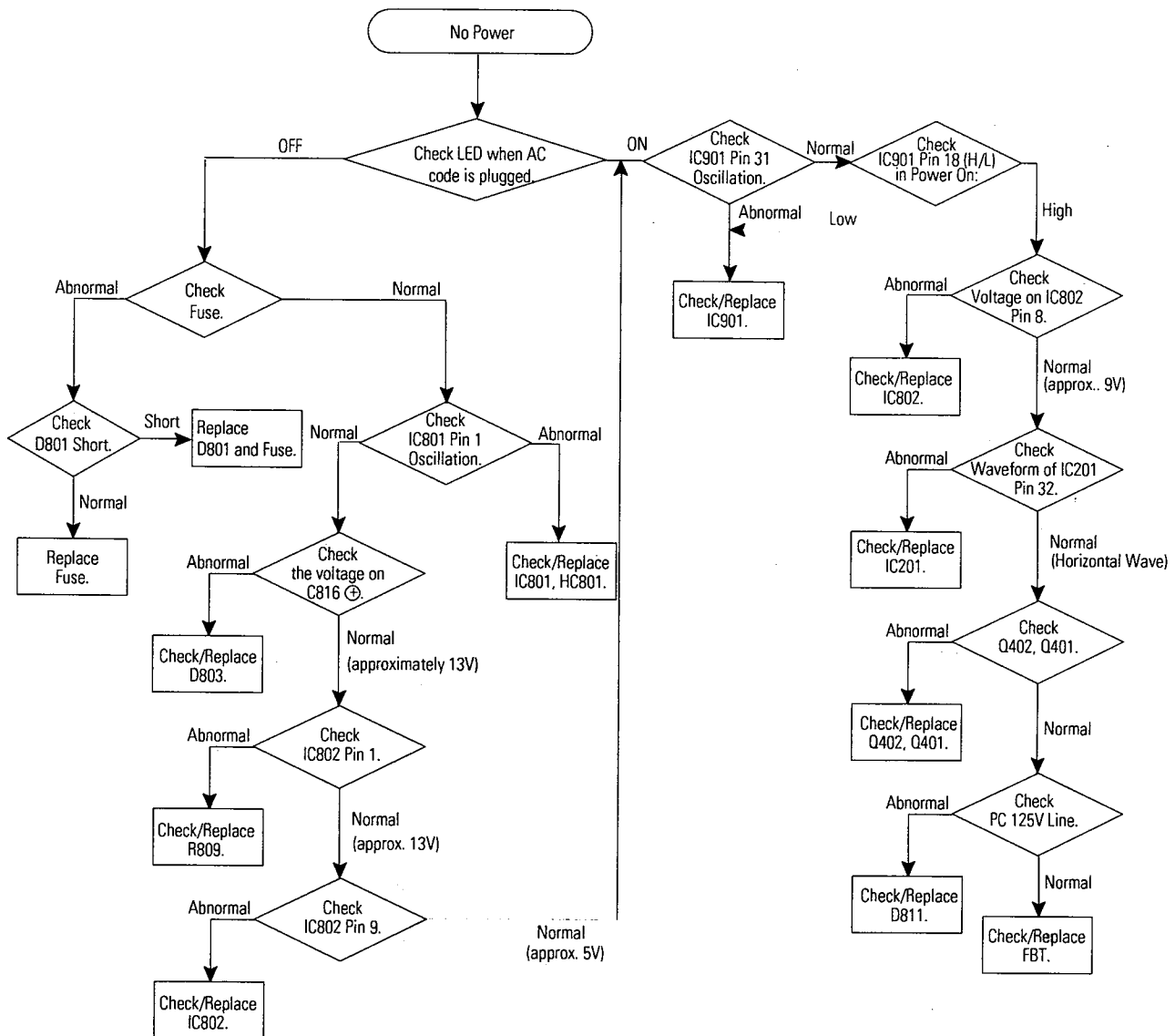
1. White Balance Adjustment
2. Sub-brightness Adjustment
3. Vertical Size Adjustment
4. Horizontal Shift Adjustment
5. Fail Safe adjustment (Note: Do the Fail Safe adjustment as the final step).



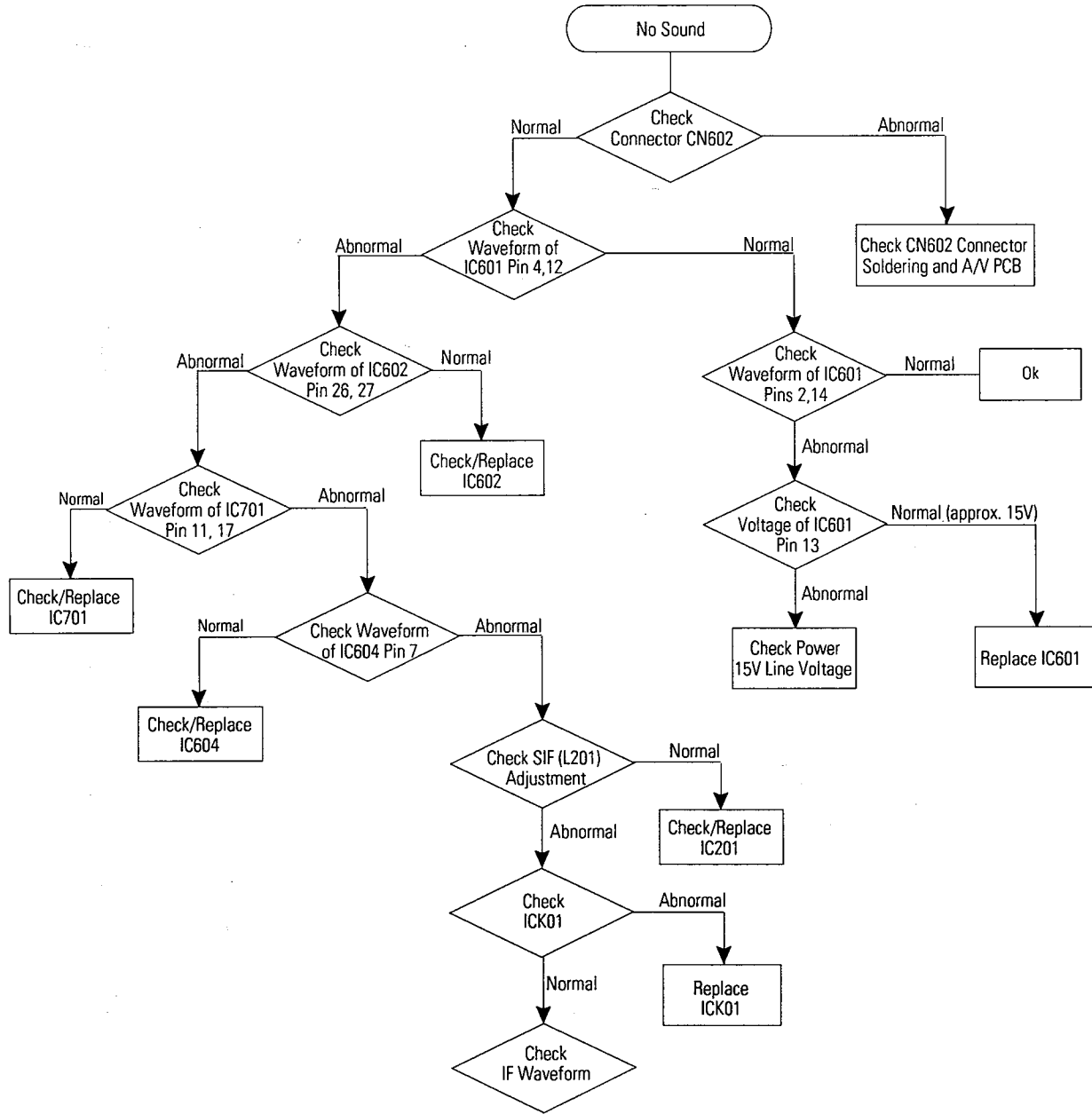
# MEMO

# 5. Troubleshooting

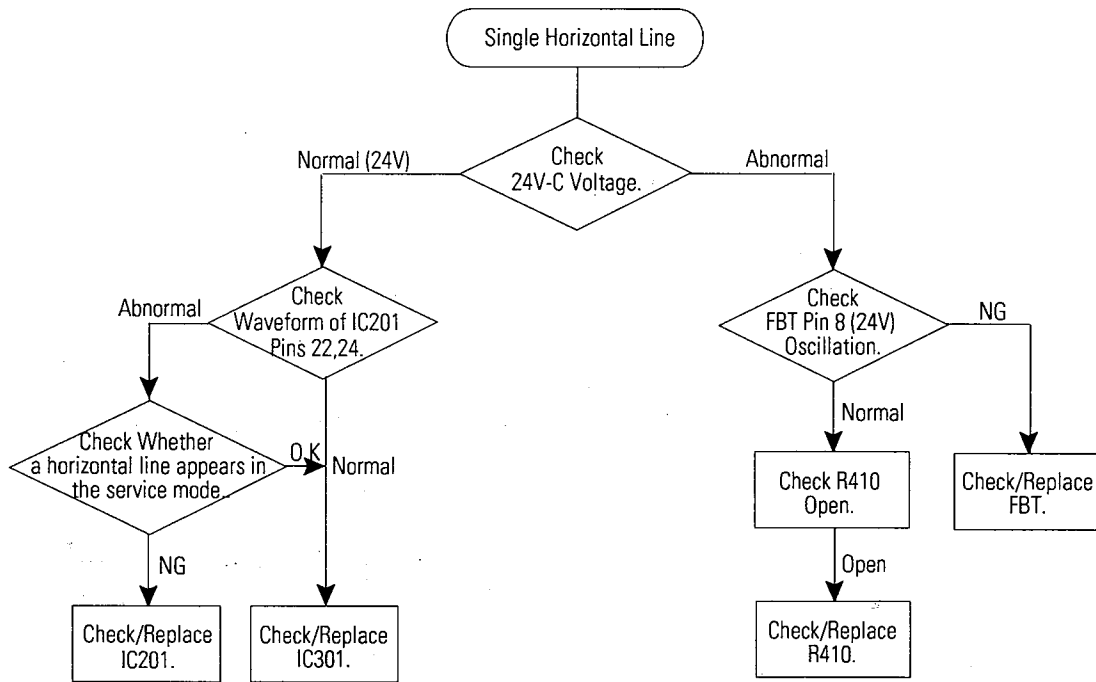
## 5-1 No Power



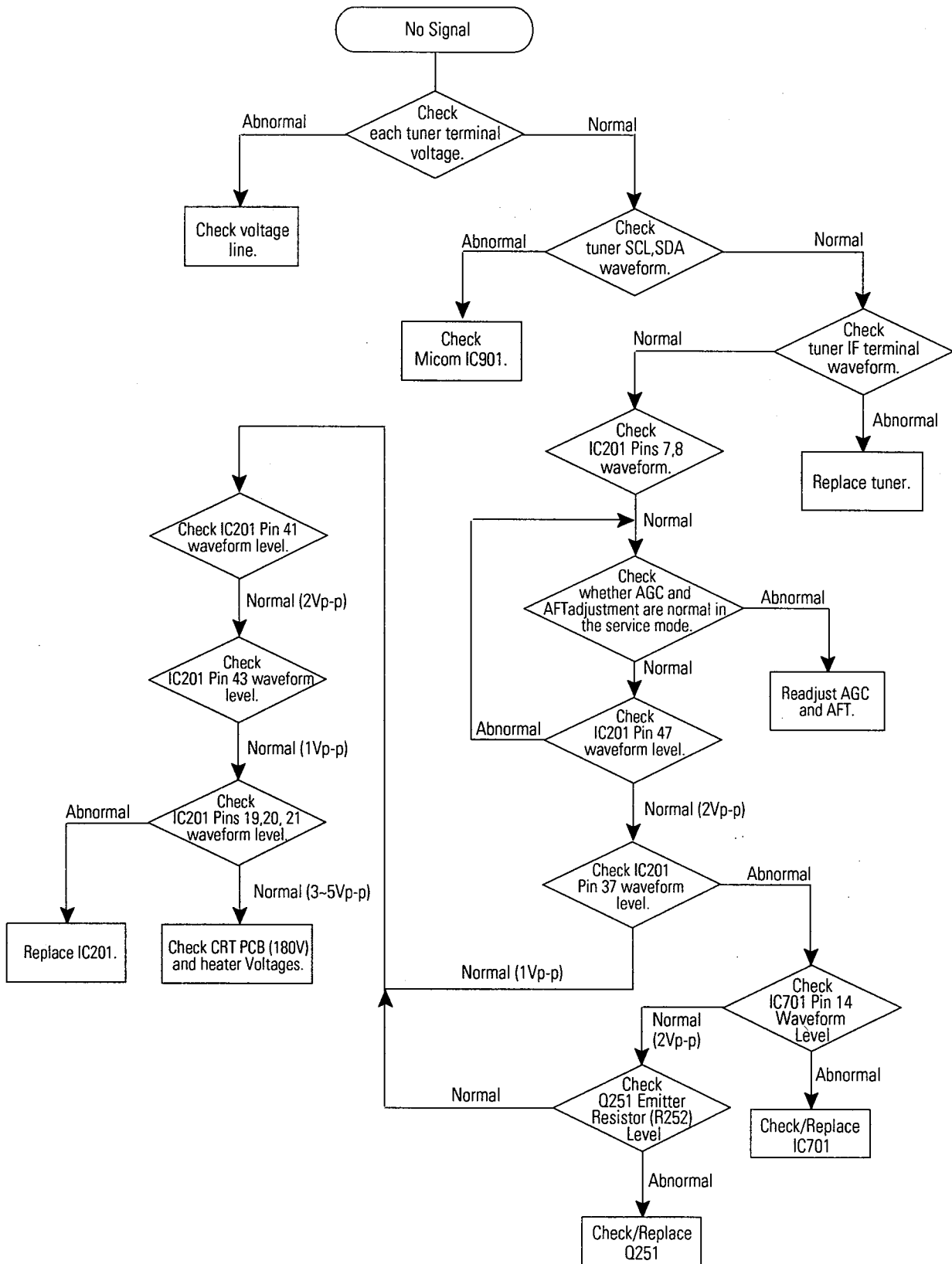
## 5-2 No Sound



## 5-3 Horizontal Line Appears

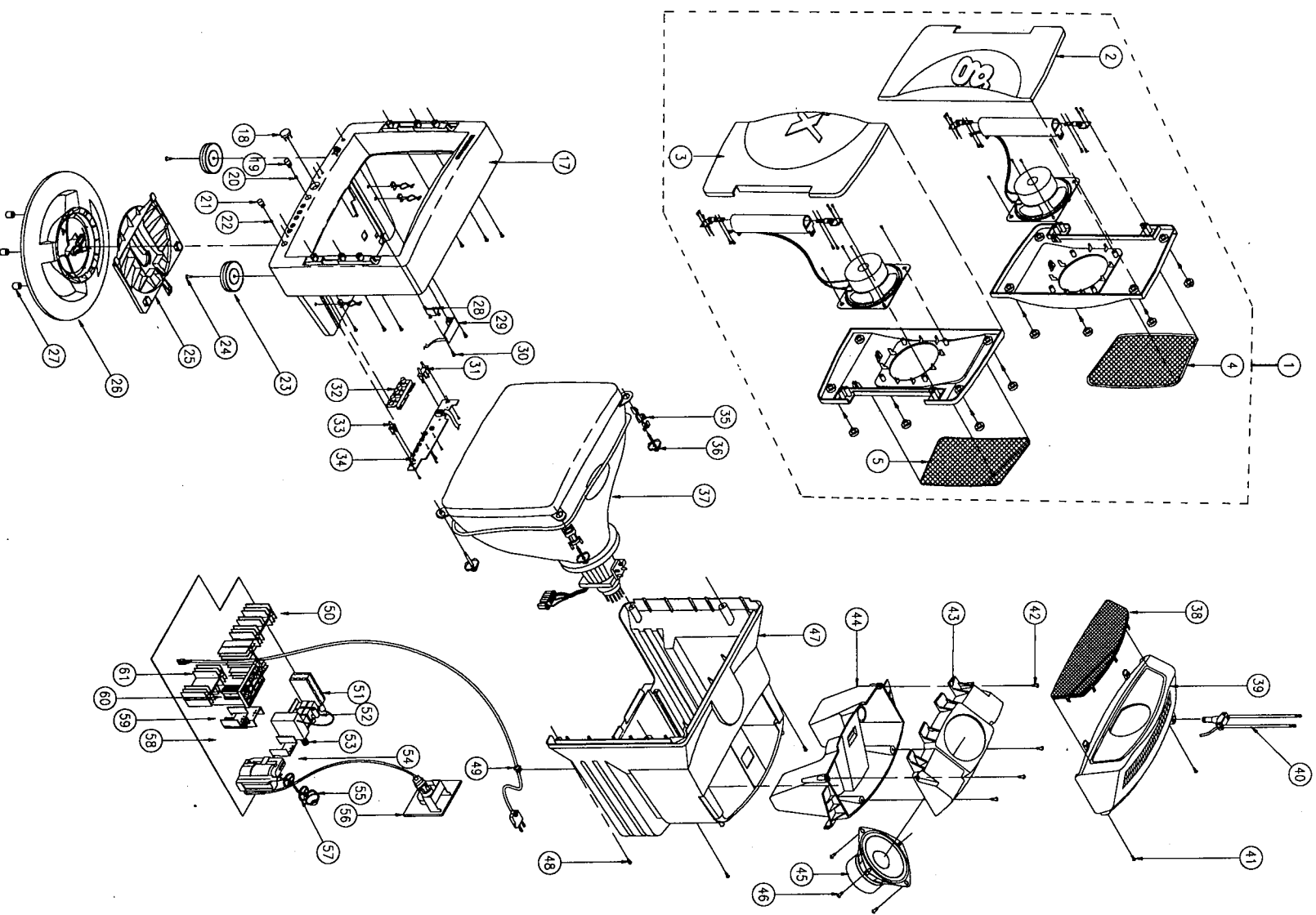


### 5-4 No Signal



## 6. Exploded View and Parts List

### GXE1395/UCX



No	New Code No.	Old Code No.	Description	Specification	Qty	Remarks
1	*AA92-80101A		ASSY-HOLDER, SPK	DP, ABS, VO, WP100016H5W, T1L	1	
2	AA61-40051A	33093-0016-000	HINGE-ASSY, L	ZUD0BF, 3374G	1	
3	AA61-40050A	33093-0015-000	HINGE-ASSY, R	ZUD0BF, 3374G	1	
4	AA63-50199A	34003-0097-000	GRILLE-WOOFER, L	SECC, T0.5, 3374G	1	
5	AA63-50198A	34003-0096-000	GRILLE-WOOFER, R	SECC, T0.5, 3374G	1	
17	*AA92-30155A		ASSY-CABINET, FRONT	GXE1395/UCX	1	
18	AA64-30917A		CABINET-FRONT	DP, HIPS, VO, BLK, WP1000	1	
19	AA64-40253A	34073-0108-000	WINDOW-REMOON	ABS, HB, 3374G	1	
20	AA61-60003U	34083-0244-000	KNOB-MENU	ABS, HB, BLK, 3374G	1	
21	AA64-10363A	36674-142-920	SPRING-CS	SUS304, 0.4, C05, 5, H12	1	
22	AA61-60003U	34083-0242-000	KNOB-POWER	ABS, HB, BLK, 3374G	1	
23	AA64-80020A	36674-142-920	SPRING-CS	SUS304, 0.4, C05, 5, H12	1	
24	6002-000507	33003-0019-000	LEG-BOTTOM	HIPS, VO, BLK, 3374G	2	
25	AA61-10362A	37148-530-121	SCREW-TAPPING	RH, 2, M4, L12, ZPC(YEL)SW	2	
26	*AA91-70055A		BRACKET-STAND	SECC, T1.6, BLK, 3374G	1	
27	AA60-10002A	37144-001-210	ASSY-STAND	DP, AA91-70054A, 3374G	1	
28	AA61-40053A	33383-0004-000	SCREW-TAPPING	RH, M4, L12, ZPC(YEL)CD	1	
29	*AA97-90003A		STOPPER-POB	HIPS, HB, WHI, ALL, MODEL	3	
30	6002-000514	37148-540-153	ASSY-POB, F/AV	DP, GXE1395/UCX, KGI	1	
31	AA59-60002B	A1294-0063	SCREW-TAPPING	RH, 2, M4, L15, ZPC(BLK), SW	2	
32	AA64-10616A		MODULE-REMOON	ORC----50HF, 38KHZ, 940MM, ME	1	
33	AA64-40257A	34164-0083-000	KNOB-CONTROL	DP, AA64-10361A, 3374	1	
34	*AA97-80003A		INDICATOR-LED, S	ABS, HB, 3374G	1	
35	AA65-30016A	33609-101-003	ASSY-POB, CONTROL	KGI, GXE1395, SMX, SEA	1	
36	AA60-10017A	36635-001-910	SWITCH-TACT	12V, 50MA, 90-150GF, 6X6MM, S	7	
37	AA03-10001D	37124-100-830	CLAMP-D, COIL	NYLON, VO, NTR, DADH-360	2	
38	AA63-50200A	32019-400-083	SCREW-ASSY(CRT+CF)	WC, RH, M5, L35, SHRCH18A	4	
39	AA64-30698A	34003-0119-000	CRT-COILDR	A34KOV42X, +380MG, 14*, 90	1	
40	AA42-10001Q	32001-0249-000	GRILLE-WOOFER, T	SECC, T0.5, PA110	1	
41	6002-000514	34509-223-022	CABINET-TOP	HIPS, VO, BLK, 3374G	1	
42	6002-000514	37148-540-153	ANT-ROD	DP, 4S, 500MM, MT, UL	1	
43		37148-540-153	SCREW-TAPPING(TC+CB)	RH, 2, M4, L15, ZPC(BLK), SW	2	
44	*AA63-30154A		SCREW-TAPPING	RH, 2, M4, L15, ZPC(BLK), SW	4	
45			COVER	DP, AA63-30105A	1	
46	6002-000514	37148-540-153	COVER-TOP, ASSY		1	
47	AA64-30916A		SPEAKER-GENERAL	RH, 2, M4, L15, ZPC(BLK), SW	4	
48	6002-000514	37148-540-153	SCREW-TAPPING	DP, VO, AA64-30701A	1	
49	AA39-10002X	A6006-0253	CABINET-BACK	RH, .2, M4, L15, ZPC(BLK)SW	4	
50	*AA96-60363A		POWER-CORD	KJ-10, SPT2, 2, 4MM, HOUS, UL	1	
51	AA40-10005A	A3040-0198	ASSY-H/S, SOUND((C801)	TDA7266	1	
52	3722-000499	A3040-0198	TUNER-F/S	TECC1880PK25B, NTSC/USA	1	
53	AA59-40002F	37179-0006-000	JACK-RCA	9P(S), SN	1	
54	*AA96-60042A	3782-20068-010	MODULE-RF S/W	2GR-10UT, NTSC, USA	1	
55	AA26-30002T	A1201-0059	ASSY-H/S, VERT(QA01)	KSD5071VD	1	
56	3704-000102	A3047-0021	TRANS-FLY BACK	FCK-14B044, 14*, 125V	1	
57	AA65-30002A	33333-0005-010	SOCKET-CRT	10P, 22, 5P, 14, 3P1, SN	1	
58	*AA97-10031D	36633-101-911	CLAMP-FBT	NYLON-66, VO, BLK	1	
59	*AA96-60368A		CLAMP-FBT	ABS, VO, BLK	1	
60	*AA96-60365A		ASSY-POB, MAIN	TXE1395/UCX, KGI, USA	1	
61	*AA96-60364A		ASSY-H/S, POWER((C802)	KA7631 SIP	1	
			ASSY-H/S, TR(D810)	FML-G22S 200V	1	
			ASSY-H/S, POWER((C801)	STR86707 CO	1	



## 7. Electrical Parts List

### 7-1.GXE1395/UCX

Loc No	New Code No	Old Code No	Description	Specification	Remarks
			ASSY-PCB,MAIN(COM)		
	*AA97-10031D		ASSY-PCB,MAIN(COM)	TXE1395/UCX,KG1,USA	
PCB	AA41-10472A	36029-0554-000	PCB-MAIN	KG1,1,FR-1,330X245X1.6T	BARE PCB
C/FBT	AA65-30002A	33333-0005-010	CLAMP-FBT	- ,NYLON-66,V0,BLK,-,-	
C/FBT	AA65-30009A	36633-101-911	CLAMP-FBT	- ,ABS,V0,BLK,-,-	
C101	2202-000127	A1100-0803	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
C102	31607-402-220		C-ELECTROLYTIC	CE04W TAPG 50V 2.2M	
C104	2202-000127	A1100-0803	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
C107	2401-000832	31607-401-690	C-AL	220UF,20%,25V,GP,8X11MM,5	
C108	2401-000480	31607-402-250	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C109	2401-001530	31607-401-670	C-AL	47UF,20%,25V,GP,5X11MM,5M	
C110	2401-000269	31607-401-470	C-AL	100UF,20%,16V,GP,6X11MM,5	
C151	2202-000173	A1100-0338	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,1.9X3.5MM	
C152	2202-000127	A1100-0803	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
C153	2202-000127	A1100-0803	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
C154	2202-000127	A1100-0803	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
C201	2201-000292	31417-104-400	C-CERAMIC,DISC	1NF,10%,50V,Y5P,5*4,5MM,T	
C202	31607-402-200		C-ELECTROLYTIC	CE04W TAPG 50V 0.47M	
C203	2401-001495	31607-401-460	C-AL	47UF,20%,16V,GP,5X11MM,5M	
C204	2301-000201	31507-127-002	C-FILM,PEF	2.2NF,5%,50V,7.4X3.9X13MM	
C205	31607-402-200		C-ELECTROLYTIC	CE04W TAPG 50V 0.47M	
C206	2301-000224	31507-127-008	C-FILM,PEF	22NF,5%,50V,7.4X3.9X13MM,	
C207	31607-402-200		C-ELECTROLYTIC	CE04W TAPG 50V 0.47M	
C209	2306-000122	B1102-0318	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C210	2306-000122	B1102-0318	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C211	2306-000122	B1102-0318	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C212	2202-000127	A1100-0803	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
C213	2201-000193	31407-105-090	C-CERAMIC,DISC	10PF,0.25PF,50V,NPO,-,5MM	
C214	2401-000620	31607-402-580	C-AL	2.2UF,10%,50V,GP,5X11MM,5	
C215	2401-000269	31607-401-470	C-AL	100UF,20%,16V,GP,6X11MM,5	
C218	2301-000181	31507-127-018	C-FILM,PEF	18NF,5%,50V,7.1X3.5X13MM,	
C219	2401-000620	31607-402-580	C-AL	2.2UF,10%,50V,GP,5X11MM,5	
C220	2401-000480	31607-402-250	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C221	2401-000480	31607-402-250	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C222	2306-000122	B1102-0318	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C223	2201-000354	31407-057-200	C-CERAMIC,DISC	20PF,5%,50V,NPO,5.0*3.0,2	
C225	2401-000480	31607-402-250	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C226	2401-000603	31607-402-210	C-AL	1UF,20%,50V,GP,5X11MM,5MM	
C227	2306-000122	B1102-0318	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C231	2401-001495	31607-401-460	C-AL	47UF,20%,16V,GP,5X11MM,5M	
C232	2401-000808	31607-401-480	C-AL	220UF,20%,16V,GP,8X11MM,5	
C234	2202-000279	A1100-0796	C-CERAMIC,MLC-AXIAL	47PF,5%,50V,SL,3.5X19MM,-	
C235	2202-000127	A1100-0803	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
C236	2202-000127	A1100-0803	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
C237	2202-000154	A1100-0799	C-CERAMIC,MLC-AXIAL	150PF,10%,50V,Y5P,-,-,TP	
C251	2401-000480	31607-402-250	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C301	2301-000310	31507-127-011	C-FILM,PEF	68NF,5%,50V,8.0X8.5X4.0X5	
C302	2301-000226	31507-137-017	C-FILM,PEF	27NF,5%,100V,7.3X4X12.5MM	
C303	2201-000161	31417-109-140	C-CERAMIC,DISC	10NF,+80-20%,500V,Y5V,10X	
C304	2401-000553	31607-402-570	C-AL	1UF,10%,50V,GP,5X11MM,5MM	
C305	2305-000427	A1102-0299	C-FILM,MPEF	47NF,5%,100V,7.5X12.5X3.5	
C306	2401-000360	31607-402-290	C-AL	100UF,20%,50V,GP,8X11MM,5	
C307	2305-000470	A1102-0300	C-FILM,MPEF	68NF,5%,100V,-,5MM,TP	



Loc No	New Code No	Old Code No	Description	Specification	Remarks
C308	2201-000556	31417-106-090	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5M	
C309	2401-000175	31607-402-710	C-AL	1000UF,20%,35V,GP,13X25MM	
C310	2401-000480	31607-402-250	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C311	31607-402-200		C-ELECTROLYTIC	CE04W TAPG 50V 0.47M	
C312	2401-000553	31607-402-570	C-AL	1UF,10%,50V,GP,5X11MM,5MM	
△ C401	2301-000148	31507-137-013	C-FILM,PEF	10NF,5%,100V,7X3.2X7MM,5M	
C402	A1102-0205		C-FILM	CF 922 P 1.6KV T 632-J BU	
C403	2201-000467	31417-767-331	C-CERAMIC,DISC	330PF,10%,2KV,Y5P,-,5MM,T	
△ C404	2306-000184	31517-333-334	C-FILM,MPPF	330nF,5%,250V,-,7.5mm,TP	
△ C405	2305-000154	31517-003-020	C-FILM,MPEF	100NF,5%,400V,21.5X6.5X11	
C406	2201-000556	31417-106-090	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5M	
△ C407	2401-001397	A1104-0012	C-AL	470UF,20%,25V,GP,10X16MM,	
C408	2201-000556	31417-106-090	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5M	
C409	31607-402-320		C-ELECTROLYTIC	CE04W TAPG 50V 470M-M(RO)	
C410	A1104-0741		C-ELEC	CE 04 -40/105 250V T 2R2-	
C411	2201-000556	31417-106-090	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5M	
C412	2401-000927	31607-403-500	C-AL	22UF,20%,250V,GP,13X20MM,	
C413	2301-000224	31507-127-008	C-FILM,PEF	22NF,5%,50V,7.4X3.9X13MM,	
△ C414	2306-000122	B1102-0318	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
△ C415	2401-000832	31607-401-690	C-AL	220UF,20%,25V,GP,8X11MM,5	
△ C416	2401-000839	A1104-0527	C-AL	220UF,20%,25V,WT,10X12.5M	
C417	2201-000599	31417-468-561	C-CERAMIC,DISC	560PF,10%,500V,Y5P,6X4MM,	
△ C418	2306-000122	B1102-0318	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C501	2305-000289	A1102-0291	C-FILM,MPEF	220NF,5%,63V,-,5MM,TP	
C502	2401-000636	31607-403-580	C-AL	2.2UF,20%,315V,GP,10X12.5	
C503	2202-000243	A1100-0341	C-CERAMIC,MLC-AXIAL	33PF,5%,50V,SL,3.5X19MM,-	
C504	2202-000205	A1100-0812	C-CERAMIC,MLC-AXIAL	22PF,5%,50V,SL,3.5X19MM,-	
C505	2202-002003		C-CERAMIC,MLC-AXIAL	39PF,5%,50V,SL,1.9X3.5MM,	
C506	A1100-0783		C-CERAMIC	CK 45 F 3KV 103-Z CK45FZ3	
C507	31517-390-502		C-M,POLYESTER	CFS922M TAPG 250V 104-J	
C508	2401-000636	31607-403-580	C-AL	2.2UF,20%,315V,GP,10X12.5	
C601	2202-000279	A1100-0796	C-CERAMIC,MLC-AXIAL	47PF,5%,50V,SL,3.5X19MM,-	
C602	2202-000279	A1100-0796	C-CERAMIC,MLC-AXIAL	47PF,5%,50V,SL,3.5X19MM,-	
C603	2306-000122	B1102-0318	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C604	2301-000201	31507-127-002	C-FILM,PEF	2.2NF,5%,50V,7.4X3.9X13MM	
C605	2301-000224	31507-127-008	C-FILM,PEF	22NF,5%,50V,7.4X3.9X13MM,	
C606	2301-000224	31507-127-008	C-FILM,PEF	22NF,5%,50V,7.4X3.9X13MM,	
C607	2301-000192	31507-127-000	C-FILM,PEF	1NF,5%,50V,5.3X10MM,5MM,T	
C608	2301-000301	31507-127-017	C-FILM,PEF	6.8NF,5%,50V,6.5X5.5X3.0X	
C609	2306-000122	B1102-0318	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C610	2301-000301	31507-127-017	C-FILM,PEF	6.8NF,5%,50V,6.5X5.5X3.0X	
C611	2306-000122	B1102-0318	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C612	2305-000289	A1102-0291	C-FILM,MPEF	220NF,5%,63V,-,5MM,TP	
C613	2305-000289	A1102-0291	C-FILM,MPEF	220NF,5%,63V,-,5MM,TP	
C614	2401-001397	A1104-0012	C-AL	470UF,20%,25V,GP,10X16MM,	
C615	2301-000320	31507-127-021	C-FILM,PEF	82NF,5%,50V,8.0X4.5X8.5MM	
C616	2201-000642	31417-104-270	C-CERAMIC,DISC	680PF,10%,50V,Y5P,4.0X4.0	
C617	2401-000480	31607-402-250	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C618	2401-000480	31607-402-250	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C619	2401-000947	31607-402-070	C-AL	22UF,20%,35V,GP,5X11MM,-,	
C620	2401-000947	31607-402-070	C-AL	22UF,20%,35V,GP,5X11MM,-,	
C621	2201-000471	31417-104-330	C-CERAMIC,DISC	330PF,10%,50V,Y5P,4X3.5MM	
C622	2201-000471	31417-104-330	C-CERAMIC,DISC	330PF,10%,50V,Y5P,4X3.5MM	
C623	2401-001026	31607-402-230	C-AL	3.3UF,20%,50V,GP,5X11MM,5	
C624	2401-001026	31607-402-230	C-AL	3.3UF,20%,50V,GP,5X11MM,5	
C625	2301-000264	31507-127-016	C-FILM,PEF	4.7NF,5%,50V,6.5X5.5X3.0X	
C626	2301-000264	31507-127-016	C-FILM,PEF	4.7NF,5%,50V,6.5X5.5X3.0X	
C627	A1104-0472		C-ELEC	CE 04 -40/85 25V T 102-M	
C628	2306-000122	B1102-0318	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C631	2401-000480	31607-402-250	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C632	2401-000480	31607-402-250	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C633	2401-000480	31607-402-250	C-AL	10UF,20%,50V,GP,5X11MM,5M	

