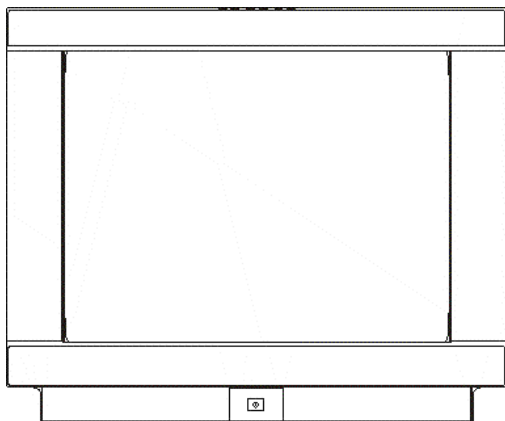


21T3A-T

COLOUR TELEVISION

Service Manual



MODEL :
21T3A-T
(Latvia)

■ Features

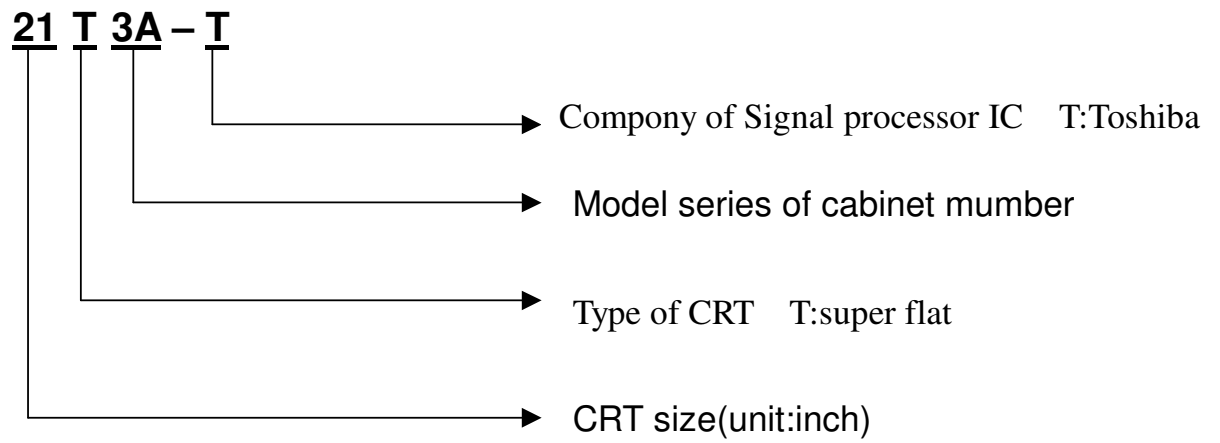
- 54cm square flat picture tube
 - Auto search 218 program presetting and memory
- Child lock & on screen help function

Haier Group

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1. Product Code illumination and Series Introduction



2. Features

NO.	ITEM	FUNCTION	MODEL 21T3A-T	NO.	ITEM	FUNCTION	MODEL 21T3A-T
			Latvia				Latvia
1	PICTURE	Main IC	8821	24	SOFTWARE	Digital curtain	✓
2		CRT	super flat	25		Slow fading on & off	✓
3		Color system	PAL SECAM NTSC	26		Semitransparent menu	✓
4		Audio system	B/G D/K	27		Non-flashing channel changing	✓
5		NO.of channels	218	28		ZOOM	×
6		OSD language	ENGLISH/arabic	29		16:9 mode	×
7		Multi-picture modes	5	30		Games	marine game
8	AUDIO	AV stereo	×	31		Calendar	✓
9		Super woofer	×	32		Child-lock	✓
10		Surrounding sound	×	33		Multi-functional lock	✓
11		Treble/bass boost	×	34		No-picture listening	✓
12		Left/right balancer	×	35		Background light	×
13		NICAM	×	36		Auto-timer on	✓
14		Multi-audio modes	×	37		CCD	×
15		Tone adjuster	×	38		V-CHIP	×
16		MTS/SAP	×	39	PARAMETER	NO. of built-in speakers	2
17		Auto-volume leveling	×	40		Audio output power(W)	3
18	JACK	AV input	back 1,side1	41		Total power input (W)	70
19		AV output	back 1	42		Voltage range (V)	220
20		DVD terminal	back 1	43		Power frequency (Hz)	50
21		S-video jack	back 1	44		Time of sleep timer(MINS)	120
22		Headphone socket	side 1	45		Net weight(KG)	24
23		SCART socket	×	46		Gross weight(KG)	26
				47		Net dimension(MM)	576×395×458
				48		Packaged dimension(MM)	650×565×525
				49		Quantity for 20' container	×
				50		Quantity for 40' container	×
				51		Quantity for 40' high container	×

FUNCTIONS :

- | | |
|------------------------------------|--|
| 1.ALL-BAND CATV (470MHz) | 2.I ² C bus control |
| 3.Auto and manual tuning | 4.Audio/video input/output interfaces |
| 5.Multiple picture modes selection | 6.Screen saver when no signal |
| 7.Sliding color bar | 8.218 programs Preset |
| 9.volume setting stored | 10.Program scan |
| 11.Child hold | 12.Slide curtain power on/off display, improved eye protection |

3. Specifications

- POWER SUPPLY: AC 220V, 50 Hz
- Tuning system: voltage synthesized type auto-search fine tuning system
- IF: 38.9MHz
- Power consumption: 70W
- Antenna input impedance: 75Ω
- Receiving system:
 - a) Color system: PAL/SECAM/NTSC 3.58MHz/4.43MHz
 - b) Broadcast TV system: B/G D/K
- Language displayed: ENGLISH
- Video input: $1.0V_{P-P}$ (75Ω)
- Audio input: 436m Vrms ($40K\Omega$)

4.Safety Precautions

IMPORTANT SAFETY NOTICE

Many electrical identify these parts and mechanical parts in this chassis have special safety-related characteristics! In the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.

Do not modify the original design without permission of the manufacturer.

General Guidance

An Isolation Transformer should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents that might result in personal injury caused by electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that might be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with a specified one.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to the high vacuum and large surface area of the picture tube, extreme care should be taken in handling the Picture Tube. Do not lift the Picture Tube by its Neck.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the Picture Tube.

For continued X-RAY RADIATION protection, the replacement tube must be of the same type as specified in the Replacement Parts List.

Before returning the receiver to the customer,

Always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to make sure that the set is safe to operate without any danger of electrical shock.

5. Warning and Cautions

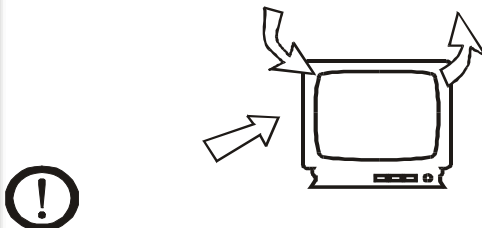
1. When you clean the TV set, please pull out the power plug from AC outlet. Don't clean the cabinet and the screen with benzene, petrol and other chemicals.



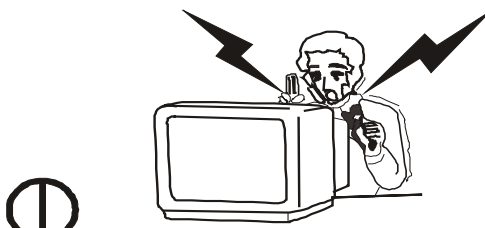
4. To prevent the TV set from firing and electric shock, don't make the TV set rain or moisture.



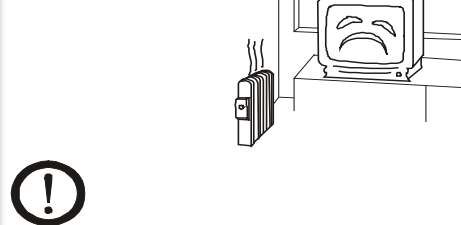
2. In order to prolong the using life of the TV set, please place it on a ventilated place.



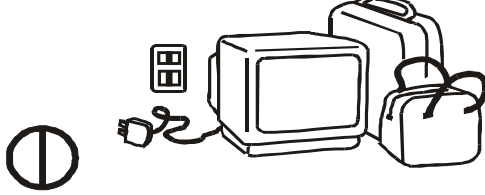
5. Don't open the back cover, otherwise it is possible to damage the components in the TV set and harm you.



3. Don't place the TV set in the sunshine or near heat source.



6. When the TV set isn't going to be used for long time or it is in thunder and lightening, please pull out the plug from AC outlet and the antenna plug from the cover of the TV set.



Explanation on the display tube

Generally, it is not needed to clean the tube surface. However, if necessary, its surface can be cleaned with a dry cotton cloth after cutting off the power. Don't use any cleanser. If using hard cloth, the tube surface will be damaged.

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the **SAFETY PRECAUTIONS**.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before:
 - a. Removing or reinstalling any component, circuit board module or any other assembly of the receiver.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.

CAUTION: A wrong substitution part or incorrect installation polarity of electrolytic capacitors may result in an explosion hazard.

- d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage-measuring device (DVM, FETVOM, etc.) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

6. Do not defeat any plug / socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.

9. Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatic ally Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such

components are usually called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor- equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as “anti-static” can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise even some normally harmless motions such as mutual brushing of your clothes’ fabric or lifting of your foot from a carpeted floor might generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range of 500 °F to 600 °F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique

- a. Allow the soldering iron tip to reach normal temperature. (500 ° F to 600° F)
- b. Heating the component lead until the solder melts.
- c. Quickly draw the melted solder with an anti-static, suction-type solder removal device with solder braid.

CAUTION: Work quickly to avoid overheating the circuit board printed foil.

6. Use the following unsoldering technique

- a. Allow the soldering iron tip to reach normal temperature. (500 ° F to 600° F)
- b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
- c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.

CAUTION: Work quickly to avoid overheating the circuit board printed foil.

- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

Remove /Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are of slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined.

Removal

Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.

Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

Carefully insert the replacement IC in the circuit board.

Carefully bend each IC lead against the circuit foil pad and solder it.

Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

“Small-Signal” Discrete Transistor

Removal/Replacement

Remove the defective transistor by clipping its leads as close as possible to the component body.

Bend into a “U” shape the end of each of three leads remaining on the circuit board.

Bend into a “U” shape the replacement transistor leads.

Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the “U” with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

Heat and remove all solder from around the transistor leads.

Remove the heat sink mounting screw (if so equipped).

Carefully remove the transistor from the heat sink of the circuit board.

Insert new transistor in the circuit board.

Solder each transistor lead, and clip off excess lead.

Replace heat sink.

Diode Removal/Replacement

Remove defective diode by clipping its leads as close as possible to diode body.

Bend the two remaining leads perpendicularly to the circuit board.

Observing diode polarity, wrap each lead of the new diode round the corresponding lead on the circuit board.

Securely crimp each connection and solder it.

Inspect (on the circuit board copper side) the solder joints of the two “original” leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds foil to the circuit board causing the foil to separate from or “lift-off” the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much

copper as absolutely necessary).

2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At other connections

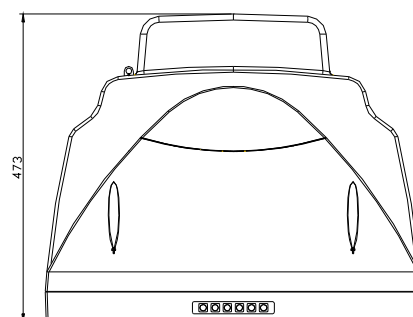
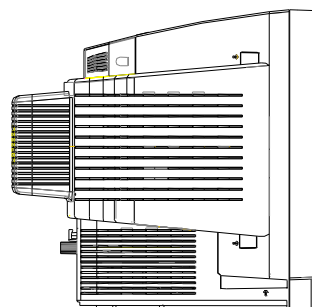
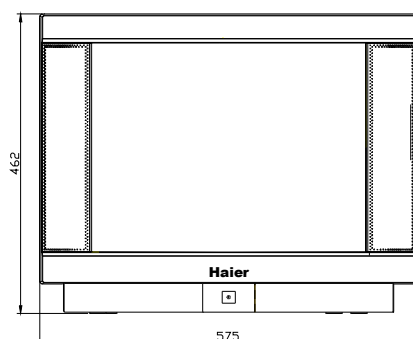
Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife.
Remove at least 1/4 inch of copper, to insure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.

Carefully crimp and solder the connections.

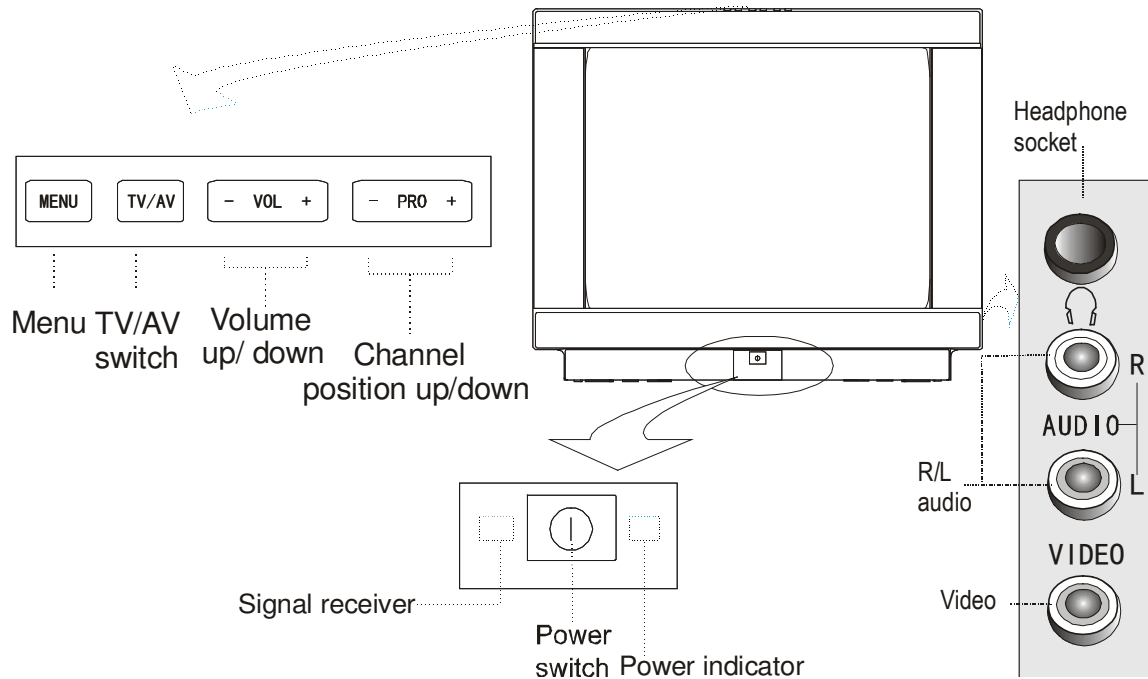
CAUTION: Be sure the insulated jumper wire is dressed so that it does not touch components or sharp edges.

6. Net dimension

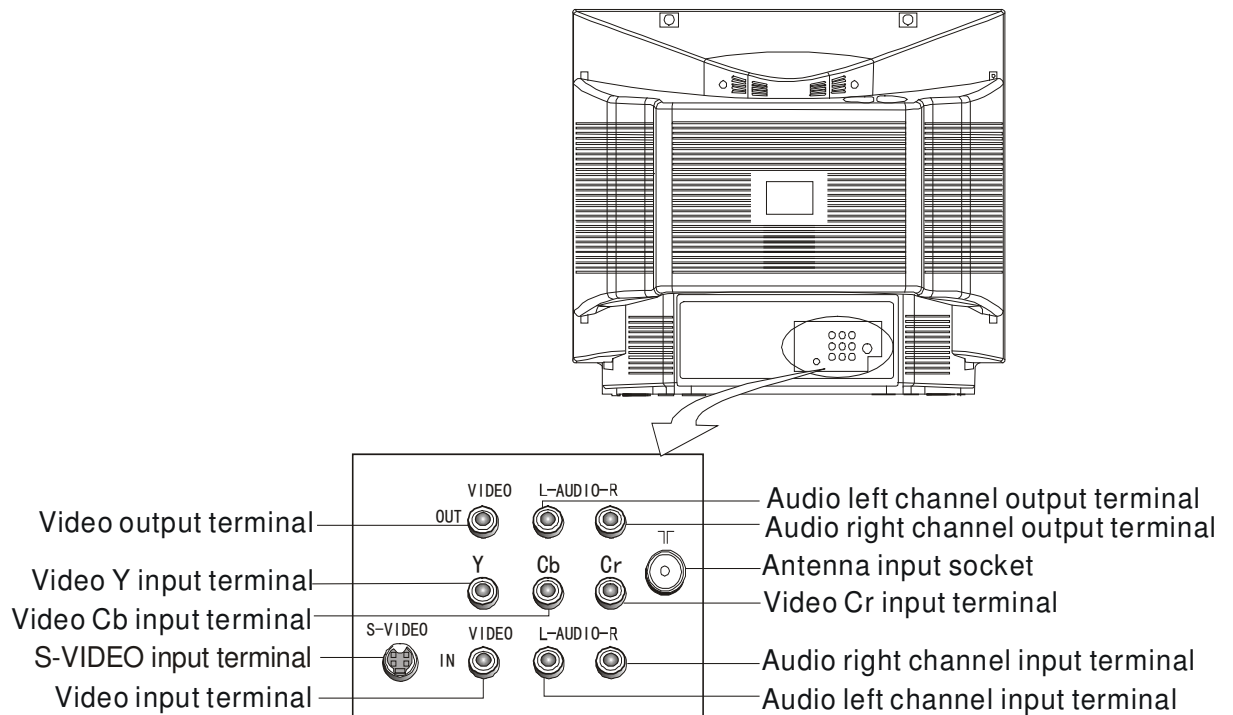


7. Parts and Functions

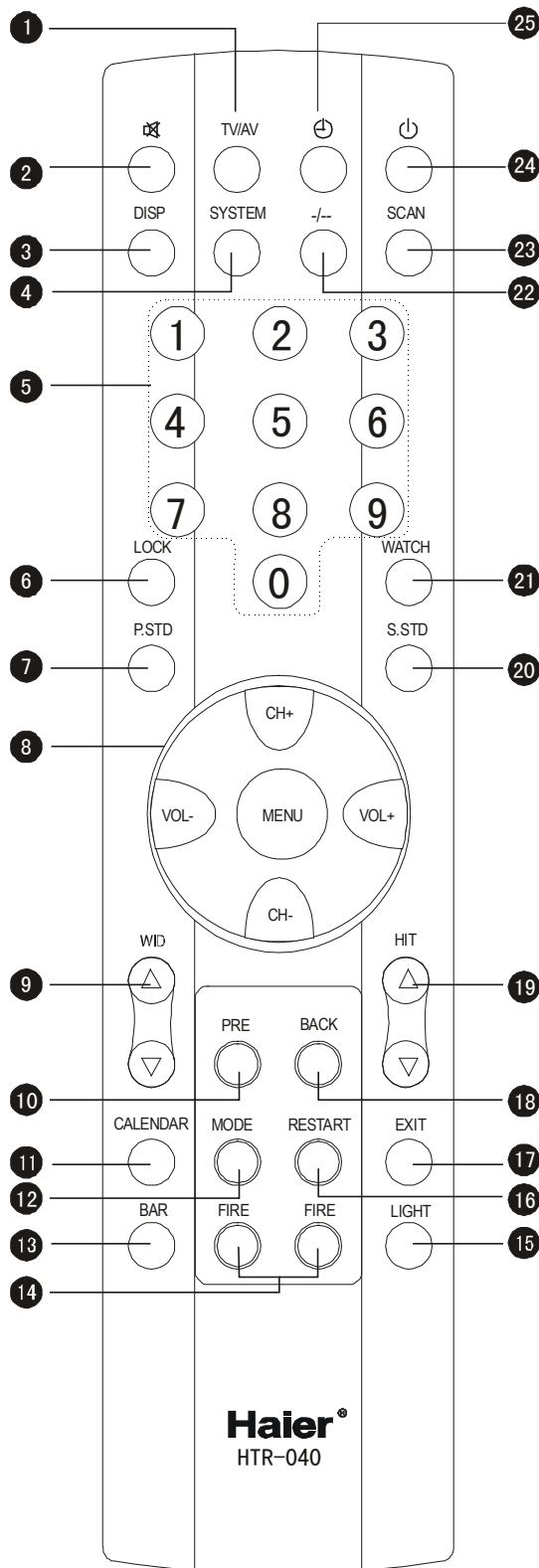
1. Front panel of the TV set



2. Rear panel of the TV set




8. Remote Controller Functions



Buttons and Descriptions






- 1 TV and AV Exchange Button**
To exchanger between TV and other available video inputs
- 2 Mute Button**
Press to conceal the sound of programs.
- 3 Screen Display Button**
- 4 System Adjust Button**
- 5 Direct-digit Choosing Button**
Directly select channel numbers
- 6 Lock Setting button**
Used for setting lock for channel-searching, channel,AV and clock,etc.
- 7 Picture Mode Select Button**
There are DYNAMIC, STANDARD, MILD,MEMORY, PICTURE MUTEand COLOR MUTE six modes of picture.
- 8 Menu Select/ Adjust Button**
Use this button to adjust the menu, the volume and the channels, as well as to control the game.
- 9 Chromaic Belt Length Adjust Button**
(this machine has not this function)
- 10 Program Play-forward Button**
- 11 Calendar**
- 12 Game Background Select Button**
- 13 BAR Button**(this machine has not this function)
- 14 Fire Button**(can call the calendar)
- 15 Background Lamp Control Button**
- 16 Restart Game Button**
- 17 Game Exit Button**
- 18 Program Play-backward Button**
- 19 Chromatic Belt Width Adjust Button**
(this machine has not this function)
- 20 Sound Mode Select Button**
There are high,normal and low three kinds of sound modes.
- 21 Stopwatch Button**
The stopwatch can work 1 hour without interruption and when you use this function,do not operate other function button as well.
- 22 Digit Select Button**
Change the channel position number between one digit, two-digits and three -digits.
- 23 Program Scan Button**
- 24 DC Standby Button**
- 25 Sleep Timer Button**

9. Program Diagram





Insert the power plug into the power line socket and insert the antenna plug into the antenna socket on the rear panel. Press down the power switch of the TV set. The red indicator light goes on. If no picture appears, press the button  on the remote controller. Follow the steps below.

A. Program preset



1. Auto searching and storing program

Press MENU button on the remote controller then use the "" key to call up the "tune program" menu on the screen. Then Press the menu "" item to select it. Use the "" key to select the bar "auto search program" then press the "" to make sure. If you want to stop, press the key "".

2. Manual search and fine tune

Press MENU button then use the "" key to call up the "tune program" menu on the screen. Then Press the menu "" item to select it. Use the "" key to select the bar "Manual search program" then press the "" to make sure.

3. Deleting channel number

Press Program up/down buttons to select a channel to skip. Press MENU to call Menu. then use the "" key to call up the "TUNING" menu on the screen. Then Press the menu "" item to select it. Then select "SKIP" and select SKIP to ON. Now the program number is deleted. Repeat the above steps and select SKIP to OFF, the deleted program number can be resumed.

B. Volume tuning

Press VOLUME buttons  - to increase and  + to decrease the volume.

C Personal preference settings

Picture modes

Press SELC PICTURE repeatedly to change the Picture Mode.

10. Maintenance Service and Trouble shooting

A. Principle integrated circuits

A1. 21T3A-T color TV set composed of the following sections

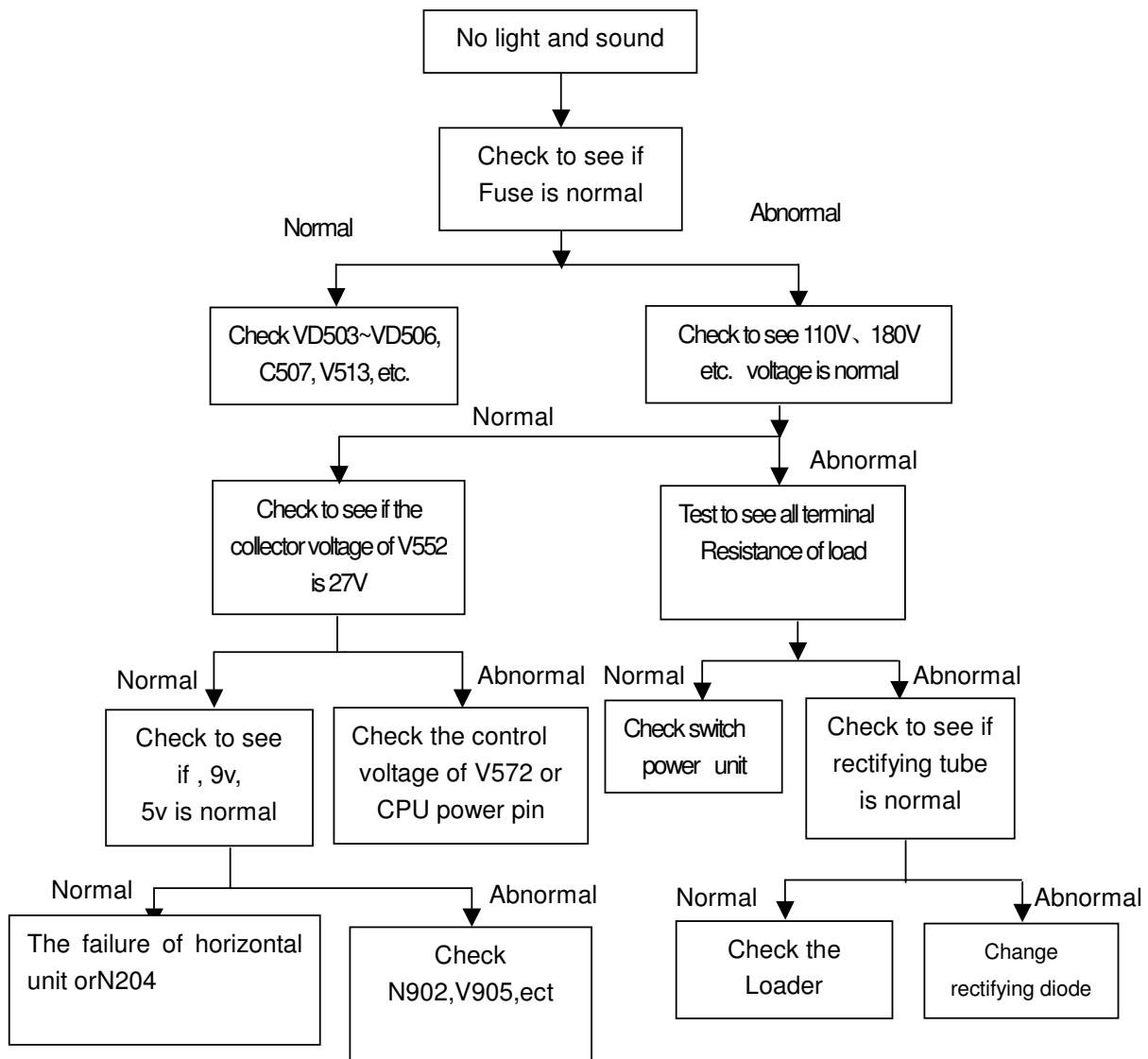
- (1) Small signal processing: super monolithic integrated circuits N204(HAIER8821). and memory N901 (AT24C08).
- (2) Sound power amplifying: integrated circuits N701 (TDA2611).
- (3) Horizontal and Vertical scan output circuits: Vertical output integrated circuits N402 (LA7840), Horizontal output transistor V411 (2SD1879), Horizontal flying back transformer T402 (JF0501-19910).
- (4) Switch power supply: switch transformer T501 (BCK-08A6F), power transistor V503 (2SC4236).
- (5) AV switch integrated circuits N203 (HEF4053).

A2. Main integrated circuits:

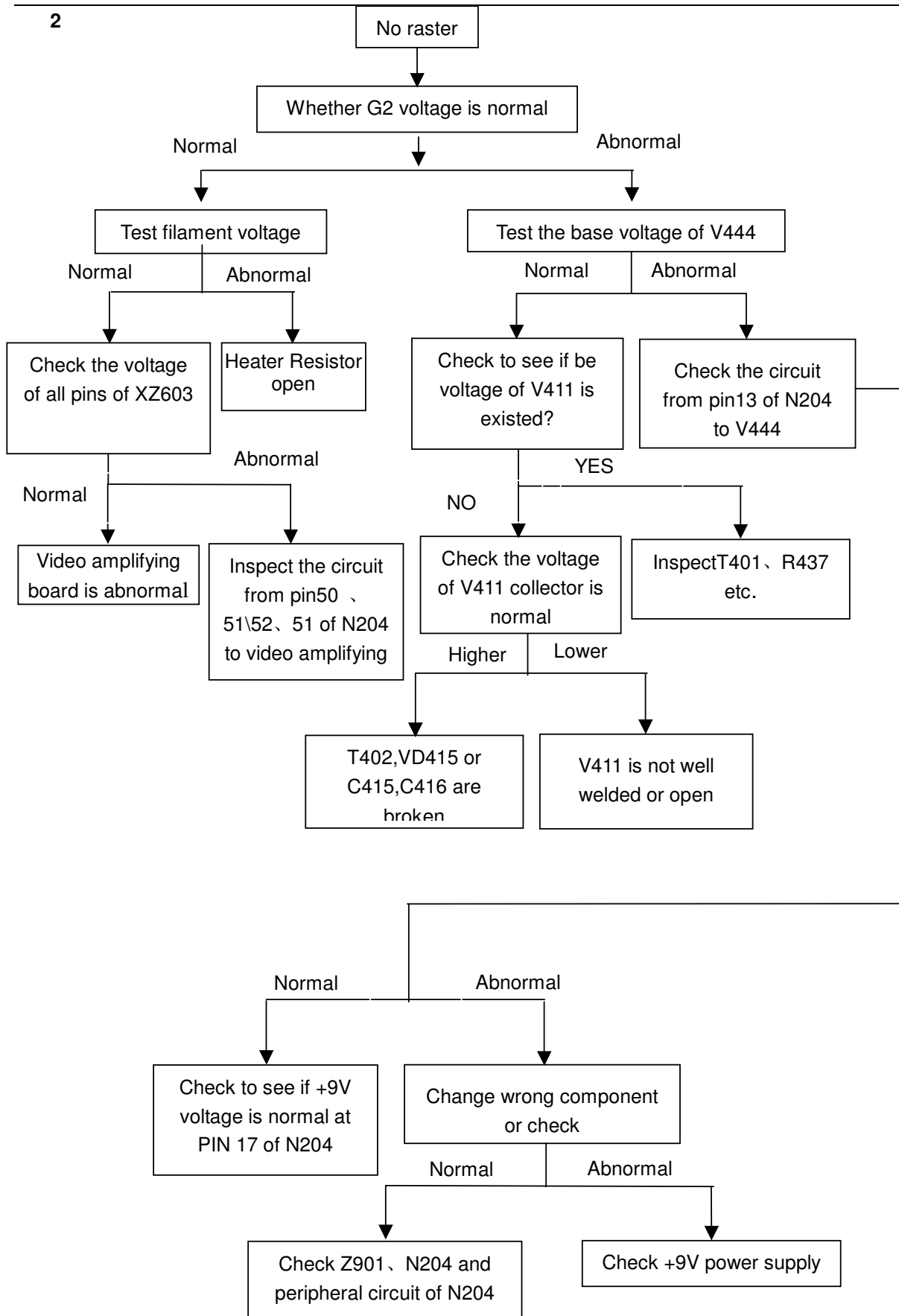
- | | |
|---------------|---|
| (1) HAIER8821 | Microprocessor
Picture IF/sound IF/video processing/H and V
Scan/color decoding |
| (2) LA7840 | Vertical output integrated circuits |
| (3) TDA2611 | Sound power amplifying integrated circuits |

A3. Error Detection Process

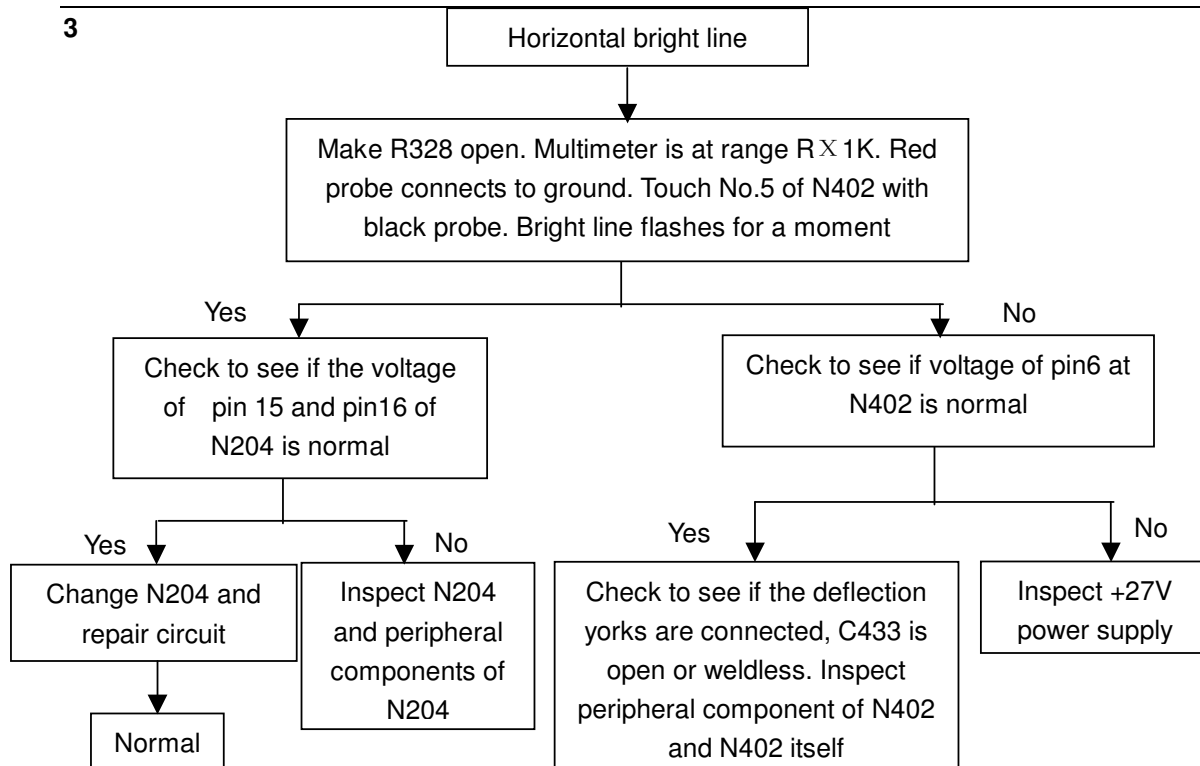
1.



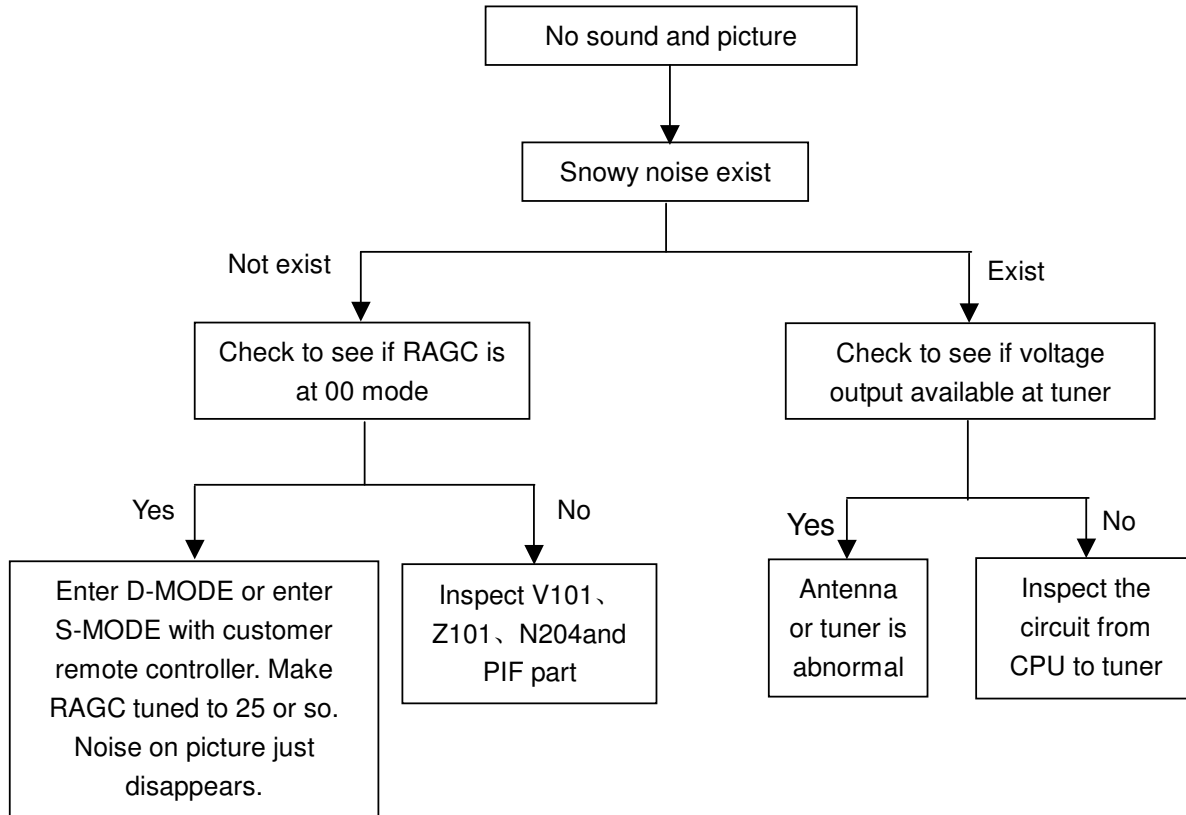
2



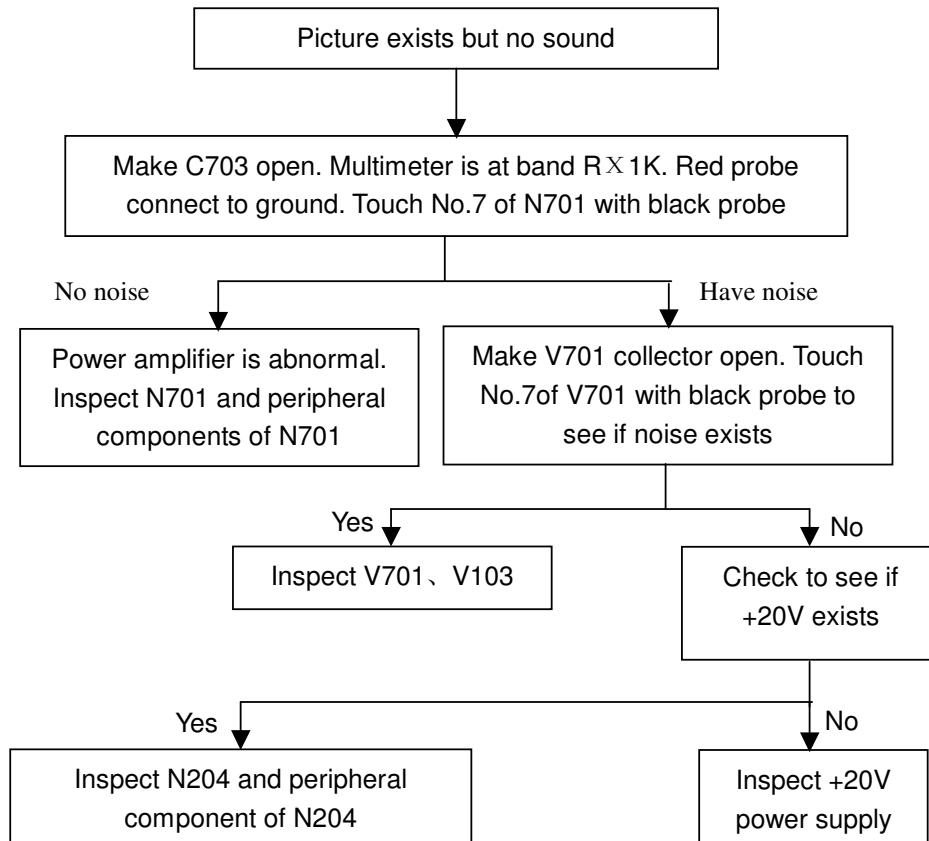
3



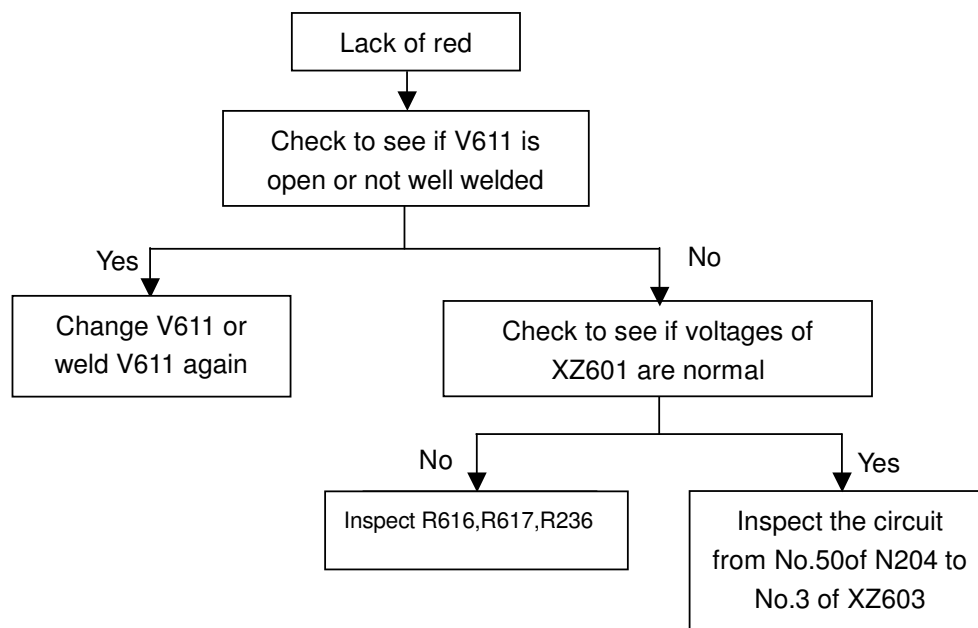
4.



5



6.



Troubleshooting

- Before calling service personnel, please check the following chart for a possible cause to the trouble you are experiencing.

Symptom	Check these things
TV is not turned on	<ul style="list-style-type: none"> • Be sure the power cord is plugged in.
Good picture , no sound	<ul style="list-style-type: none"> • The MUTE function may be used. • Adjust the volume of the TV set.
Poor color / tint, good sound	<ul style="list-style-type: none"> • The contrast, color and tint may be incorrectly adjusted. • If you change the direction of the TV while the TV is on, the picture may suffer from color shading. If so, turn off the TV and allow about 30 minutes to cool, then turn on the TV again.
Spots appear on the screen	<ul style="list-style-type: none"> • The broadcast signal may be jammed by other electrical sources such as cars, motorcycles, electric trains, high tension lines, neon signs, hair dryers.
Lines appear on the screen	<ul style="list-style-type: none"> • The broadcast signal may be jammed by other TV receivers, personal computers, and TV games, as well as interference from radio stations.
Double images or ghosts	<ul style="list-style-type: none"> • Interference may be due to broadcast waves reflected from mountains or buildings. • Check if the direction of the antenna is changed.
Snowy picture or black screen	<ul style="list-style-type: none"> • The antenna may be disconnected or falling out. • Check if the direction of the antenna is changed.
Remote control does not work	<ul style="list-style-type: none"> • The batteries in the remote control may be exhausted. • The batteries may be improperly installed. • Check if there are obstacles between the remote control and the remote (infrared ray) receiver. • Check if there is strong light interference around the remote (infrared) receiver. • Check if the main power is ON.

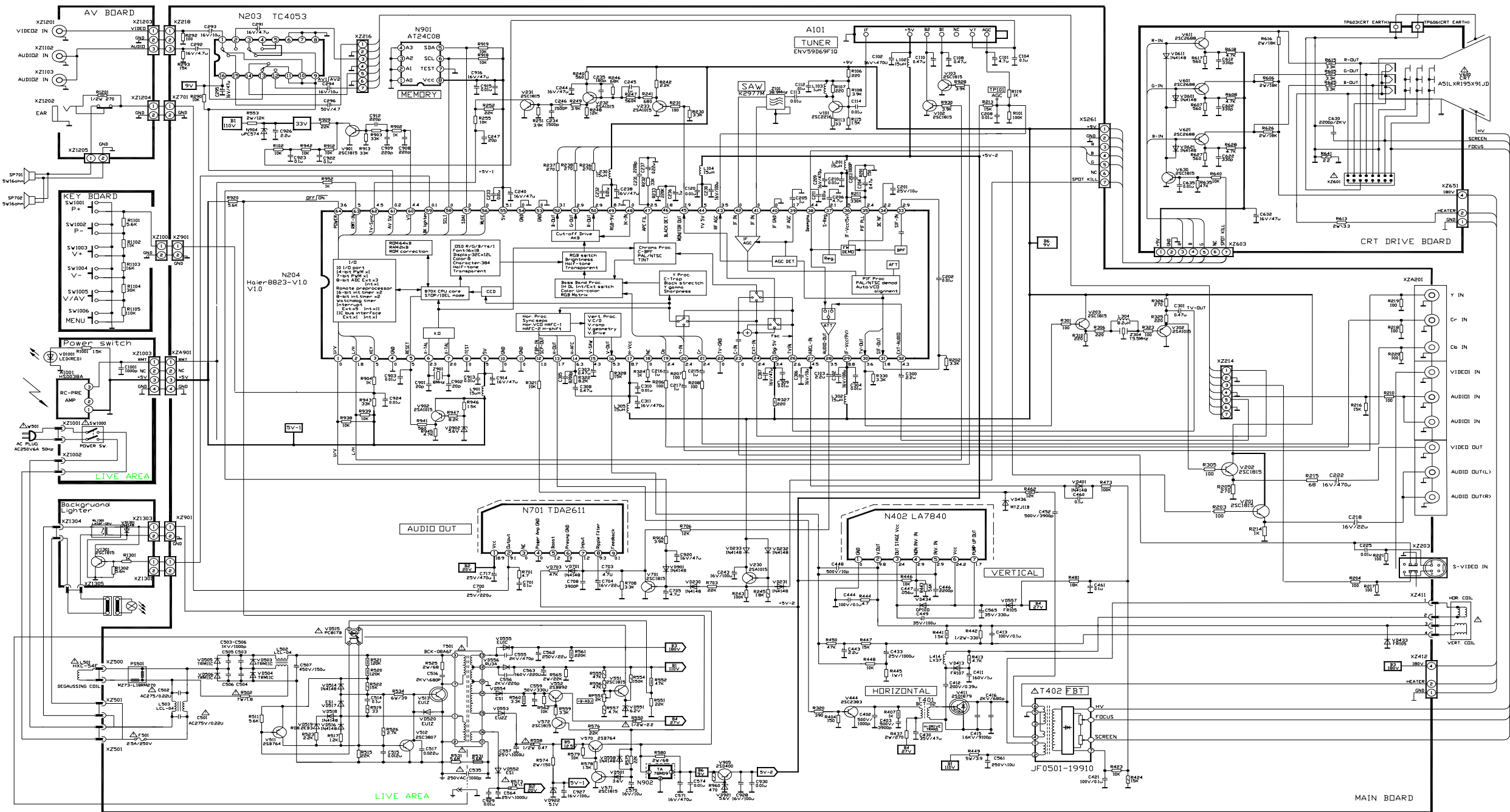
The following conditions are not troubles

Clacking noise inside the receiver	<ul style="list-style-type: none"> • It may result from the expansion of the shell caused by a temperature change. This will not affect the picture and sound quality.
Uneven colour in a certain portion of the screen	<ul style="list-style-type: none"> • If the picture is too bright, this may occur according to the nature of the pictures. Reduce the contrast, it may resume to normal.

CAUTION

In case of problems, have your TV serviced by qualified personnel. Never attempt to service the set yourself since opening the cabinet may expose you to dangerous voltage or other hazards.

11. Circuit Diagram



The value of different component maybe changed for advantages

12. Circuit Explanation

- 1、Microprocessor and Small signal processing: super monolithic integrated circuits : V
HAIER8821 is super large integrated circuit decoder, containing intermediate image
amplifying, intermediate sound amplifying, horizontal and vertical scan, small signal
processing, color decoding, hi-pressure tracing and over-load protection, I²C bus
control.

Information introducing functions and testing data for maintenance is listed in Table 1.

Table 1

Step	Function	Working Voltage (V)	Ground Resistance (R)	
			Positive (Ω)	Negative (Ω)
1	BAND1	0	600	5000
2	BAND2	1.8	600	5000
3	KEY INPUT	5	600	15000
4	DIGITAL GND	0	0	0
5	CPU RESET	5	600	10000
6	CPU CLOCK	2.3	600	1000
7	CPU CLOCK	2.0	600	15000
8	TEST	0	0	0
9	+5 VCC	5	400	4500
10	GND	0	0	0
11	SIGNAL GND	0	0	0
12	HORIZONTAL SYNC SIGNAL INPUT	1	750	150
13	HORIZONTAL RETURN PULSE SIGNAL INPUT CHARACTER HORIZONTAL LOCATION	1.7	500	550
14	HORIZONTAL AGC	6.3	750	1400
15	VERTICAL SIGNAL PRODUCE LOCATION	4.3	750	1500
16	VERTICAL RETURN PULSE SIGNAL INPUT CHARACTER VERTICAL LOCATION	5.3	750	1300
17	HORIZONTAL VCC	8.7	100	100
18	NC	0	700	900
19	Cb SIGNAL INPUT	2.4	750	5000
20	Y SIGNAL INPUT	2.4	750	5000
21	Cr SIGNAL INPUT	2.4	700	4500
22	TV GND	0	0	0
23	COLOR SIGNAL INPUT	0	0	0
24	EXTERIOR VEDIO SIGNAL INPUT2	2.4	700	4500
25	TV VCC	3.4	320	300
26	VEDIO SIGNAL INPUT	2.6	750	5000
27	AUTOMATIC BRIGHT CONTROL	4.5	750	5000
28	AUDIO OUTPUT	3.5	750	1400
29	+9 VCC	8.8	100	100
30	IF SIGNAL OUTPUT	3.6	700	950
31	SIF SIGNAL OUTPUT	1.8	700	2100
32	EXTERIOR SIGNAL INPUT	4.3	750	1400

33	SIF SIGNAL INPUT AND LEVEL REVIS	2.9	750	5000
34	DC FEEDBACK	2.2	750	1400
35	PIF PLL	2.4	500	1500
36	+5 VCC	5	750	1100
37	FLITE RIPPLE	2.1	750	4000
38	DEEMPHA	4.4	700	1400
39	IF AGC	1.7	0	5000
40	IF GND	0	650	0
41	IF INPUT	0	650	4500
42	IF INPUT	0	750	4500
43	RF AGC	3.5	500	1400
44	Y/C VCC +5	5	600	1100
45	MONITOR OUTPUT	1.9	650	2200
46	BLACK EXTEND	1.8	750	5000
47	COLOR DECODE PLL	2.5	0	5000
48	GND	0	100	0
49	+9V VCC	8.7	750	100
50	RED SIGNAL OUTPUT	2.9	750	1100
51	GREEN SIGNAL OUTPUT	2.9	750	1100
52	BLUE SIGNAL OUTPUT	3.1	0	1100
53	TV SIMULATE GND	0	0	0
54	GND	0	400	0
55	+5V VCC	5.1	600	4500
56	MUTE	0	600	7500
57	I ² C SERIAL BUS DATA LINE 0	0	600	12500
58	I ² C SERIAL BUS COLOCK LINE 0	0	600	12500
59	BACKGROUND LAMB CONT	0.1	600	12500
60	TUNE VOLTAGE	4.4	600	10000
61	AV CHOICE CONTROL	0.2	600	10000
62	HORIZONTAL SYNCHRONIZATION SIGNAL	4.5	600	12500
63	REMOTE CONTROL INPUT	5	600	12500
64	STANDBY CONTROL	3.6	600	8000

2. Analysis of common path circuits

High frequency television signals, received via an antenna (or transmitted through a cable TV system) to the input terminal of the high frequency tuner A101, are processed for tuning and high frequency amplifying and mixing, then a 38.9MHz image intermediate frequency and 34.4MHz and intermediate frequency signal will be released at the IF terminal of Z101 to b of the transistor V101, where signals are amplified to compensate for the insertion losses of the sound surface wave filter. Single or dual-ended input is used for the sound surface wave filters Z101 of this appliance according to system properties. Intermediate frequency signals will be transmitted to (41) and (42) of N204(Haier8821). The mixed signals of picture video signals and secondary sound intermediate frequency signals output from (31) of N204, After sound carrier frequency is trapped by the trap filter, intermediate frequency signals are amplified and PLL image decoded, The AGC time constant is dependent on C205 (1u) connected to (39) of N204 (HAIER8821),.

3. Analysis of sound power amplifying circuits

Sound power amplifying circuits are composed of integrated circuits TDA2611 and peripheral components. TDA2611 is an integrated electrical circuit. Information introducing functions and testing data for TDA2611 maintenance is listed in Table 4. If a cylindrical color card is installed then a fluke III digital multimeter is used.

Table 4

No.	Function	Working Voltage (V)	Grounding Resistance (R)	
			Positive (Ω)	Negative (Ω)
1	+20V POWER SUPPLY	20	0.43	1.8
2	AMPLIFIED AUDIO SIGNAL OUTPUT	7.5	0.58	1.6
3	GROUND	0	0	0
4	RIPPLE FILTER	5.1	0.66	1
5	GROUND	0	0	0
6	AUDIO SIGNAL INPUT	1.7	0.76	2
7	NEGATIVE FEEDBACK	2.05	0.78	1.9

3. Analysis of vertical sync and vertical scan output circuits

The field sync signals segregated from compound sync signals are used to activate the vertical frequency segregation system which commences when a set amount of vertical sync pulse signals are tested. Of the sync pulse frequencies obtained from segregation, some are transmitted to the vertical tooth wave generator. The vertical frequency tooth wave, after geometric processing, is transmitted from (16) of N204 (HAIER8821) to (5) of vertical scan output IC N402 (LA7840). The external resistor R443 (5.6K Ω) of N204 (16) provides a reference current to the vertical tooth wave generator. The external capacitor C244 (0.1 μ F) of pin (2) forms the vertical ramp wave. The vertical ramp wave is sending the pin (4) of the vertical scan output integrated circuit N402 that is a complete bridge current drive output circuit. After shaped and amplified the vertical ramp wave is output from pin (2) of N402.

Information introducing functions and testing data for LA7840 maintenance is listed in Table 4. If a cylindrical color card is installed then a fluke III digital multimeter is used.

Table 5

No.	Function	Working Voltage (V)	Grounding Resistance (R)	
			Positive (Ω)	Negative (Ω)
1	GROUND	0	0	0
2	VERTICAL SCAN WAVE OUTPUT	13	0.45	1.9
3	PUMP UP OUT	27	0.5	∞
4	VERTICAL RAMP WAVE INPUT	0.95	0.9	1.25
5	WAVE CORRECTION	0.75	0.68	1.75
6	+26V POWER SUPPLY	27	0.5	Circuit Explanation
7	VERTICAL SYNC DETECT	0.83	0.65	

4. Analysis of horizontal sync and horizontal scan output circuits

As the horizontal oscillation circuit is installed inside N204 (HAIER8821), . Some brightness signals including compound sync signals are transmitted to the internal sync segregation circuits, where horizontal sync and vertical sync pulses are segregated. R321 (10K), R462 (12K) 、 C452 (3900pF) 、 VD436 and T402 are connected to N204 (13) are phase-lock loop filters. Horizontal pumping signals are transmitted from (13) of N204 to horizontal promotion transistor V444 (2SC2383), and then drive the H-DRIVE transformer. After being amplified through it switches power transistor V411 (2SD1879) to control the horizontal scan of the electronic-beam. C412 is a horizontal S correction capacitor and L414 is for horizontal linear inductor. T402 is a horizontal output transformer. The horizontal return pulse output from (7) of T402 is transmitted to pin (27) of N204 who controls ABL circuits. ABL avoid high-voltage over rated value that will cause X-ray and affect your health.

5. Analysis of video amplifying circuits

The video amplifying circuits are comprised of V601, V611, V621 and peripheral components. R, G and B signals output from N204 (50), (51) and (52), 3 video power transistor are available for amplifying the input R, G, B. White balance adjustment is completed through N901 under control of an I²C serial bus control system.

6. Analysis of switching mode power circuits

The installed switching mode power source is a typical autonomous pulse switch power source. The circuits are comprised of switching transistor V513, switching mode transformer T501, bridge-rectifier components. When the switch is set to on, the pulse voltage of the 220V voltage rectified by VD503~VD506 rectifier is filtered by the capacitor C507 (150uF) to obtain +300V direct current, which is added through (3)-(4) of the switching mode transformer T501 to the collective polar of switching transistor V513 (2SC4236). V513, Primary coil 3-7 and feedback coil 1-2 form a self-actuated oscillator. When the appliance is first switched on. Some 560Vp-p voltage oscillating pulses will come into being and the duty ratio is controlled by C514. The shut down time of V513 is controlled by V512. The current passed V512 is larger and the operating time of V513 is shorter and the output voltage is smaller. The coupler VD515 (PC817B inlet) functions to control voltage, and the voltage tolerance information from RP551 and V551 are transmitted to V511 to control the switch velocity and hold the output voltage normal.

The pulse voltage output from the secondary (12) of the switching mode transformer T501, rectified and filtered by VD556 and C563 is +110V direct current voltage which is the main voltage. The pulse voltage output from (13) is rectified and filtered by VD555 and C562 and the resultant +180V direct current voltage is supplied. The pulse voltage output from (16) is rectified and filtered by VD552 and C564 and the resultant +20V direct current voltage is supplied to the sound power amplifying circuits. The pulse voltage output from (15) is rectified and filtered via VD554 and C559 to obtain +27V direct current voltage to supply the vertical scan IC. The pulse voltage output from (14) is rectified and filtered via VD553 and C557 to obtain +12.5V direct current voltage. +12V direct current voltage output from N506 (3), after rectification of the secondary source, +9V and +5v are supplied to the decoder chip. and CPU. The voltage of VT comes from the main voltage.

13. Adjustment

A..Factory adjustment information

Operation method: after the appliance is switched on, make the volume value to zero. Then press “◀” key on the TV set and press the DISP button on remote controller at the same time to enter the S state. Press DISP button one times and “S” will disappear, Repeat the first step, you will enter the D mode. Now one “D” is displayed on the TV screen.

Press PRO- and PRO+ buttons to select items for adjustment.

Press VOL- and VOL+ buttons to adjust selected items.

Press the POWER button to switch off the appliance and go back to the normal state.

B.Maintenance menu (Table 8)

Item	Specifications	Default Value	Variable Mark
OSD H-pos	OSD Horizontal position	0A	
OPT	Multiple setting	3D	
RCUT	R CUT OFF	55	*
GCUT	G CUT OFF	3D	*
BCUT	B CUT OFF	2B	*
GDRV	G DRIVE	44	*
BDRV	B DRIVE	62	*
CNTX	SUB CONTRAST MAX	7F	
BRTC	SUB BRIGHT CENTER	52	*
COLC	SUB COLOR CENTER FOR NTSC (NTSC)	40	
TNTC	SUB TINT CENTER	40	
COLP	SUB COLOR CENTER FOR PAL (PAL)	20	
COLS	SUB COLOR CENTER FOR SECAM (SECAM)	40	
SCOL	Cr input(#21) gain up,000~111:0dB;1.1dB;1.9dB;2.5dB;3.0dB;3.3dB;3.6dB;3.9dB	07	
SCNT	Y-SUB CONTRAST	0E	
CNTC	SUB CONTRASRT CENTER	50	
CNTN	SUB CONTRASRT MINIMUM	01	
BRTX	SUB BRIGHT MAX	35	
BRTN	SUB BRIGHT MINIMUM	35	
COLX	SUB COLOR MAX	35	
COLN	SUB COLOR MINIMUM	00	
TNTX	SUB TINT MAX	28	
TNTN	SUB TINT MINIMUM	28	
ST3	SUB SHARP CENTER NTSC3.58 IN TV (NTSC3.58 IN TV)	25	
SV3	SUB SHARP CENTER NTSC3.58 IN VIDEO (NTSC3.58 IN VIDEO)	25	
ST4	SUB SHARP CENTER OTHER COLOR SYSTEM IN TV (OTHER COLOR SYSTEM IN TV)	25	
SV4	SUB SHARP CENTER OTHER COLOR SYSTEM IN VIDEO (OTHER COLOR SYSTEM IN VIDEO)	25	
SVD	SUB SHARP CENTER IN DVD	26	
ASSH	ASYMMETRY – SHARPNESS	07	
SHPX	SUB SHARPNESS MAX POINTS FROM CENTER VALUE	38	

Item	Specifications	Default Value	Variable Mark
SHPN	SUB SHARPNESS MIN POINTS FROM CENTER VALUE	15	
TXCX	RGB CONTRAST DATA AT MAX DATA OF USER CONTRAST OSD	1F	
RGCN	RGB CONTRAST DATA AT MIN DATA OF USER CONTRAST OSD	1F	
ABL	ABL	37	
DCBS	DCBS	33	
CLTO	The data when TV mode & SOUND SYS != M	0B	
CLTM	The data when TV mode & SOUND SYS = M	4B	
CLVO	The data when YVU mode & SOUND SYS != M	4B	
CLVD	The data when YVU mode & SOUND SYS = M	4B	
DEF	0:V AGC reference, depends on YC Vcc;1:Depends on integrated regulator	01	
AKB	00:AKB off; 01:ACB (cutoff :align to targets);10:ADB(drive: align to targets);11:AKB(cutoff0/drive:align to targets)	00	
SECD	Secam mode	18	
HPOS	50HZ HORIZONTAL PHASE	0F	*
VP50	50 HZ VERTICAL PHASE	07	*
HIT	50HZ VERTICAL AMPLITUDE	26	*
HPS	SHIFT DAT OF 50/60HZ HORIZONTAL PHASE	03	*
VP60	60HZ VERTICAL PHASE	04	*
HITS	SHIFT DATA OF 50/60 HZ HORIZONTAL PHASE	02	*
VLIN	V-LINEARITY	0B	*
VSC	V-S CORRECTION	05	*
VLIS	V-LINEARITY	00	*
VSS	V-S CORRECTION	02	*
SBY	SECAM B-Y	08	
SRY	SECAM R-Y	08	
BRTS	SUB BRIGHT	00	
AGC	RF AGC ADJUSTMENT	20	
HAFC	1/2 AFC DATA ADJUSTMENT	09	
V25	VOLUME OUTPUT DATA AT 25%	38	
V50	VOLUME OUTPUT DATA AT 50%	57	
V100	VOLUME 100	7F	
MUTT	Y-MUTE FOR SOFT START	00	
STAT	CONTRAST UP FOR SOFT START	00	
FLG0	Flag0	52	
FLG1	Flag1	04	
REFP	AKB Ref Pulse Position	00	
RSNS	R SENS	00	
GSNS	G SENS	00	
BSNS	B SENS	00	
MOD	00:akb CUTOFF SENSITIVITY,*9.75;01:*10.00;10:*10.25;11:*10.50; MOD.3:0 CUTOFF range:-0.65~+0.65;1:-0.65~+0.85	30	
STBY	Bit0,1:IF Standby; Bit2,3: VCD Standby	00	
SVM	PIC1 SVM	60	
VLBK	V BLANKING START AND STOP POINT	00	
VCEN	V CENTERING	27	
HSIZ	PICTURE WIDTH	20	
PRBR	E-W PARABOLA	20	
TRUM	TRAPEZIUM	10	
ECCT	EW-CORNER CORRECTION(TOP)	10	
ECCB	EW-CORNER CORRECTION(BOTTOM)	10	

Item	Specifications	Default Value	Variable Mark
EHT	Vertical size adjusting under HV	24	
UCOM	00:GND;01:R OUTPUT;10:B OUTPUT;11:MONITOR RF AGC VIA ADC	00	
PYNX	Normal H.SYNC max	2E	
PYNN	Normal H.SYNC min	18	
PYXS	Search H.SYNC max	22	
PYNS	Search H.SYNC min	1E	
RCUTS	RCUTS	10	
GCUTS	GCUTS	00	
BCUTS	GDRVS	10	
GDRVS	GDRVS	00	
BDRVS	BDRVS	00	
NOIS	Signal strength setting	01	
AV_OPT	Multiple setting	06	
OPT2	Multiple setting	0C	
WAIT TIME	Timing between power on and picture appearing	3F	
CUR_CEN	Curtain beginning position	A0	*
CUR_STEP	Curtain moving speed	01	
AUSTP	When mute off,vol attup step number	0A	
MODE0	Multiple setting	1D	
MODE1	Multiple setting	01	
OSDF	OSD frequency	53	
OSD H	OSD horizontal position	0A	*
OPT	Multiple setting	B7	

OPT:

BIT	FUNCTION
0	Mute ON/OFF when B.B is OFF i n N O Signal(=1:OFF)
1	EXT_Mute ON/OFF when B.B is OFF i n N O Signal(=1:OFF)
2	V_Mute ON/OFF when C H changes(=1:ON)
3	AUDIO GAIN SW of tb1240
4	Not VT Down of AFT when No Signal(=1)
5	TINT 0:use 1:unused
6	Select TV sync(0) or MONITOR sync(1)
7	Unuse

ABL:

BIT	FUNCTION
0	ABL-Gain 00:-0.2;01:-0.4;10:-0.6;11:-0.8v
1	
2	ABL Start Point 00:-0.0;01:-0.15;10:-0.3;11:-0.45v
3	
4	WPS
5	RGB ABCL
6	1: CLEAR COUNT TIME TO 20H; 0: CLEAR COUNT TIME TO 0H
7	1: USER CAN PRESS SLEEP BUTTON TO CLEARUP COUNT TIME; 0: CAN NOT CLEARUP COUNT TIME

DCBS

BIT	FUNCTION
0	BLACK STRETCH
1	00: Off; 01: Black stretch point,25IRE;02:35 IRE;03:45 IRE
2	Y GAMMA
3	00: Off; 01: Y y point 90 IRE,`Gain -3dB;02:80 IRE;03:70 IRE
4	OSD CONTRAST
5	00:80 IRE 01:70;02:60;03:50;

6	UNUSE
7	BLK

CLTO\CLTM\CLVO\CLVD

BIT	FUNCTION
0	Y Delay Time
1	000:-40 nsec;001:0;010:40 nsec;011:80 nsec;100:120 nsec;101:160 nsec;110:200 nsec; 111:240 nsec
2	
3	N Phase
4	00:USA(105 degree);01:Japan(93 degree);10:11:DVD
5	Color Y 0:Color gamma off ;1:On;
6	PN-ID Sens 0:PAL/NTSC killer sensitivity,1mVpp; 1:10mVpp
7	FID 0:Normal;1:Alwas killer off,i.e. always color on..

FLG0:

BIT	FUNCTION
0	0:NORMAL;1:PIF over modulation switch on
1	0:BPF;1:TOF
2	0:Nyquist Buzz cancel,on;2:off
3	Q det Gain
4	L SECAM Mode
5	SIF FIX Select 0:fix to normal, 1:control with sound system
6	SIF 5.74 Select In D mode, apply this bit to SIF 574
7	vco readjust when position select 0:disable;1:enable;

FLG1:

BIT	FUNCTION
0	CW SW
1	YOUT ON
2	HD input polarity select
3	0:SIF beat down frequency,1MHz;1:+62.5kHz shift
4	0:Sync separation level,40%;1:36%
5	0:SIF 1MHz convert gain,Low gain;1:High gain for Evaluation
6	DET358 for Evaluation
7	C TRAP PASS for Evaluation

SVM:

BIT	FUNCTION
0	00:-6dB;01:0dB;10:+6dB;11:+12dB
1	
2	00:off;01:-100ns;10:-60ns;11:-40ns
3	
4	CO MAX
5	COUNT TIME 1: YES 0: NO
6	SOFT CHANGE CHANNEL: 1: YES 0: NO
7	UNUSE

VBLK

BIT	FUNCTION
0	00:23H;01:33H;10:37H;11:41H (50Hz) 00:22H;01:30H;10:34H;11:38H (60Hz)
1	
2	00:310H;01:299H;10:295H;11:291H (50Hz) 00:263H;01:254H;10:250H;11:246H (60Hz)
3	
4	
5	

MODE0:

BIT	FUNCTION
0	1: 218 PROGRAM; 0: 100 PROGRAM
1	1: SET AUTO WHEN PONCHO SYSTEM; 0: NO CHANGE TO AUTO
2	SECAM: 0: YES; 1: NO
3	1: RGB Out-Cut Off DC; 0: Y-MUTE
4	1: ALWAYS DISPLAY SOME MENU; 0: SOMETIMES DISPLAY SOME MENU
5	UNUSE
6	SHOP OUT
7	00: DK; 01: I; 10: BG

MODE1:

BIT	FUNCTION
0	BG: 0:NO ;1:YES
1	I: 0:NO; 1:YES
2	DK : 0:NO; 1:YES
3	M: 0:NO;1:YES
4	0:when asm & search,set up VCO adjust req. ,1:only power on
5	The algorithm of ASM. 0:ASM doesn't judge IFLOCK with case 4. 1:ASM judge IF LOCK with case 4
6	The algorithm of ASM. 0:ASM doesn't judge Fhsync with case 4. 1:ASM judge Fhsync with case 4
7	TINT polarity ,input to V/C/D. 0:normal 1:invert

MODE2:

BIT	FUNCTION
0	1:CHINESE
1	1、 THAILAND
2	1、 SLIDE CURTAIN
3	00: POWER OFF WITH MEMORY; 01: POWER ON WITH MEMORY; 10: POWER OFF WITH MEMORY
4	
5	
6	1、 BLUE BACKGROUND
7	

AV_OPT:

Byte	FUNCTION		
	Video1	Video2	Video3
0	VIDEO	DVD	
1	VIDEO	S-VIDEO	DVD
2	VIDEO	DVD	VIDEO
3	VIDEO	S-VIDEO	DVD
4	VIDEO/S-VIDEO	DVD	
5	VIDEO/S-VIDEO	VIDEO	DVD
6	VIDEO	DVD	VIDEO
7	VIDEO	VIDEO	DVD

OPT2:

BIT	FUNCTION
0	DELAY TIME WHEN POWER ON
1	
2	CHINESE: 1: YES; 0: NO
3	AV WITH MUTE; 1: YES; 0: NO
4	BACKGROUND; 1: YES; 0: NO
5	
6	
7	DVD: 1.YES; 0.NO

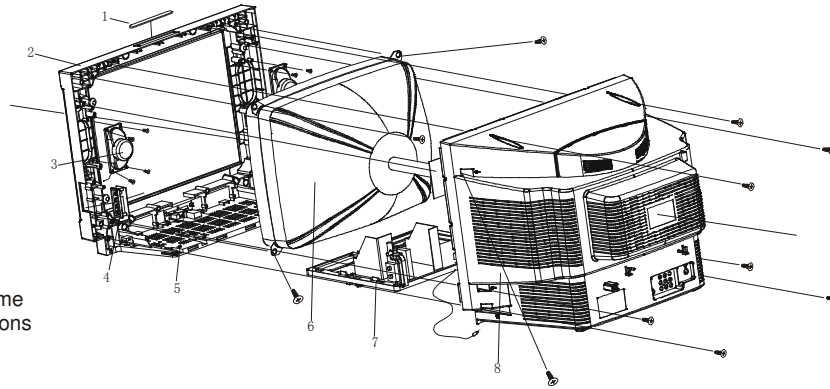
MOD:

BIT	FUNCTION	
0	akb CUTOFF SENSITI VITY	00: *9.75;01:*10.00;10:*10.25;11:*10.50
1		
2		
3	MOD.3:0 CUTOFF range:-0.65~+0.65;1:-0.65~+0.85	
4	000: 无; 001: 45.75; 011: 38.9; 100: 38.0	
5		
6		
7		

You can change the DATA with “*” mark when necessary.

14. Exploded View

21F3A-T EXPLOSIVE CHART



Main components name

- 1.Top membrane buttons
- 2.Front frame
- 3.Speaker
- 4.Side AV
- 5.Power board
- 6.Picture tube
- 7.Main board,bracket & terminals board
- 8.Rear cover

Note: The view borrows from 21F3A-T

No.	Material coding	Name	Specification	Quantity	Mark
1	0094002610	POLYSTER TOUCH		1	
2	0090202675	FRONT FRAME		1	*
3	0090401161	SPEAKER	YDT0511-7BU-5W-16 Ω	1	
4	0094005087	SIDE AV		1	
5	0094005086	POWER BOARD		1	
6	0094005081	COLOR PICTURE TUBE	A51LXR195X91JD	1	
7	0094005090	MAIN BOARD,BRACKET&TERMINAL BOARD		1	
8	0090203345	REAR COVER		1	

15. List of Parts

Location	Material coding	Name	specification	Quantity	ReMark
	10900402006-0065	TV	21T3A-T(Latvia)	1	
	0090803751	FRONT FRAME SUBASSEMBLY		1	
	0090204168	FRONT FRAME ASSEMBLY		1	
	0090203217	FRONT FRAME		1	
	0090202190	BUTTON CAP		2	
	0090202319	POWER SWITCH PUSH BUTTON	MTAA6000AB--Q	1	
	0090100107	SPRING UNDER BUTTON	Φ0.5	1	
	0090202673	REMOTE REICEIVER WINDOW	MTAE6000AE--Q	1	
	0094003324	SPEAKER	YDT0511-7BU-5W-16Ω	2	
	0090600013	SCREW	SJ2825-87 ST3X12F	8	
	0090600013	SCREW	SJ2825-87 ST3X12F	1	
	0090203686	POLYESTER KEYSTROKE			
	0090802880	REAR COVER SUBASSEMBLY		1	
	0090203175	REAR COVER	MTAA6076AB--Q	1	
	0090203021	REAR COVER	MTAA6076AB--Q		
	0090203288	BACKGROUND LIGHT COVER	MTAH6012AA--Q	1	
	0090600013	SCREW	SJ2825-87 ST3X12F	2	
	0090802871	ASSEMBLY PLANT SUBASSEMBLY		1	
	0090300453	RUBBER GASKET	2mm	1	
	0090100091	IRON GASKET	φ 8.5, 1mm	3	
	0090800045	DEGAUSSING LOOP BUCKLE	MTAJ1001AG--Q	4	
	0090600297	KNOCKDOWN NUT	SJ2840-87 ST5X25F	4	
	0090600023	SCREW	SJ2824-87 ST4X16F	8	
	0090200008	HV LOOP-RACKT	TEM101	1	
	0090203289	POWER CORD BUCKLE		1	
	0090600020	SCREW	SJ2825-87 ST3X12F (BLACK)	2	
	0094004110	BRACKET SUBASSEMBLY	BXY6045----Q	1	
	0090202322	BRACKET	FOR 8803MAIN BOARD	1	
	0090200025	SWITCH CUSHION		1	
	0090202661	BRACKET FIXED ON FBT	MTAC6005AC--Q	1	
	0090600015	SCREW	SJ2824-87 ST4X12F	2	
	0090600037	SCREW	SJ2825-87 ST3x10F	9	
	0090200038	WIRE BUCKLE	MTAJ3000AA--Q	1	
	0090200036	WIRE RACK	TMMOA404	3	
	0090202941	BRACKET FIXING SIDE AV		1	
	0090600034	SJ2825-87 ST3x10F	SJ2824-87 ST3X12F	3	
	0090202668	SCUTCHEON	MTFB6082AJ--Q	1	
W501	0090400533	POWER WIRE	(TJC1-2Y)	1	
	0090400520	JT2291-83030Q	JT2291-83030Q	2	
	0090803034	PACKAGE SUBASSEMBLY		1	
	0090502828	POP	21T3A-T	1	

List of Parts

Location	Material coding	Name	specification	Quantity	ReMark
	0090502829	POP	21T3A-T	1	
	0090504160	POP	21T3A-T	1	
	0090504249	CARTON	21T3A-T		
	0090502070	TOP FOAM PAD	MTEA6035----Q	1	
	0090502071	BOTTOM FOAM PAD	MTEA6036----Q	1	
	0090500694	PLASTIC BAG FOR TV	MTEA3011AF-Q	1	
	0090500001	PLASTIC BAG FOR OPRATOR	0090500001	1	
	0090503485	OPERATOR	0090502826 V1.0		
	0090503486	OPERATOR	0090502827 V1.0		
	0090100027	PACKING STAPALE			
	0094000105	5#BATTERY	BTWH0002CF--Q	2	
	0090500018	PLASTIC BAG FOR POWER CORD	MTEA0006AF--Q	1	*
	0090100306	METALIZED ROPE	60mm	1	
	0090202922	BACK COVER NAMEPLAE		1	*
	0094004258	REMOTE CONTROLLER	HTR-040	1	*
	0094005081	CRT SUBASSEMBLY	BUG3117-----Q	1	
	0094004133	COLOR TUBE	A51LXR195X91JD	1	
	0090401291	TERRA WIRE	21 寸 TJC1-1Y/2	1	*
	0094500900	DEGAUSSING LOOP	HXC-54F	1	
	0090401161	SPEAKER CONNECTING WIRE(160mm)	TJC3-2Y	1	
	0090400966	SPEAKER CONNECTING WIRE(850mm)		1	
	0094005084	KEY CONTROLE SUBASSEMBLY		1	
	0094005082	ROBOTICIZED INSERTING SUBASSEMBLY		1	
	0091800540	PCB		1	
R1101	0094100721	CARBON FILM RESISTOR	RT13-1/6W-5.6K-J-----T	1	
R1102	0094100707	CARBON FILM RESISTOR	RT13-1/6W-11K-J-----T	1	
R1103	0094100880	CARBON FILM RESISTOR	RT13-1/6W-16KΩ-J-----T	1	
R1104	0094100076	CARBON FILM RESISTOR	RT13-1/6W-30K-J-----T	1	
R1105	0094100809	CARBON FILM RESISTOR	RT13-1/6W-110K-J-----T	1	
XZ1101	0094300304	PLUG SEAT	520315-7	1	
XZ1102	0094300092	PLUG SEAT	TJC3-2A	1	
	0094005086	POWER CONTROLLING SUBASSEMBLY		1	
	0094005085	POWERCONTROLLINGADVANCE SUBASSEMBLY		1	
A1002	0094400282	LED	BT205-L	1	
	0090200157	LED BRACKET	AUA7.747.0004	1	
	0091800586	PCB		1	
SW1000	0094000479	POWER SWITCH	KDC-A10	1	
A1001	0094000136	INFRARED REMOTE CONTROL RECEIVER	HS0038A IMPORT	1	
R1001	0094101288	CARBON FILM RESISTOR	RT14-1/4W-680-J-----T	1	
XZ1001	0094300110	PLUG SEAT	TJC1-2A	1	
XZ1002	0094300110	PLUG SEAT	TJC1-2A	1	
XZ1003	0094300112	PLUG SEAT	TJC3-4A	1	
	0094005087	SIDE AV SUBASSEMBLY		1	
	0091800469	PCB		1	
XZ1203	0094300111	PLUG SEAT	TJC3-3A	1	
XZ1204	0094300092	PLUG SEAT	TJC3-2A	1	
XZ1205	0094300092	PLUG SEAT	TJC3-2A	1	
R1201	0094100794	OXIDE-FILM RESISTOR	RY15-1/2W-270-J-10-D-A	1	

List of Parts

Location	Material coding	Name	specification	Quantity	ReMark
XZ1201	0094300196	AV TERMINAL	AV3-8.35-6AK	1	
XZ1202	0094300195	EARPHONE JACK	CK3-3.5-09K	1	
	0094005098	MAIN BOARD SUBASSEMBLY			
	0094005096	MAIN BOARD ADVANCED SUBASSEMBLY			
V513	0094401180	TRIODE	2SC4236----B-A IMPORT	1	*
V513a	0090100448	HEAT SINK		1	
	0090600097	SCREW	SJ2831-87 ST3X8F	1	
	0090300032	MICAEIOUS CHIP	AC263 IMPORT	1	
V411	0094400753	TRIODE	2SD1879----B-A IMPORT	1	*
N402	0094400470	IC	LA7840 IMPORT	1	
	0090100449	HEAT SINK		1	
	0090600097	SCREW	SJ2831-87 ST3X8F	3	
	0090200451	WIRE FRAME	TMM0A102	1	
N701	0094401179	IC	TDA2611 IMPORT	1	*
	0090100289	HEAT SINK		1	
	0090600097	SCREW	SJ2831-87 ST3X8F	1	
N902	0094400808	IC	LM7809CS IMPORT	1	
	0090100290	HEAT SINK		1	
	0090600097	SCREW	SJ2831-87 ST3X8F	1	
	0094005097	ROBOTICIZED INSERTING SUBASSEMBLY			
	0091800331	PCB	0091800331 V4.0	1	
	0090100008	RIVET	φ 1.6x3.0/mm	37	
	0090100009	RIVET	φ 2.3x3.5/mm	16	
W310	0094101552	JUMPER WIRE	φ 0.58/5mm	1	
C314	0094101552	JUMPER WIRE	φ 0.58/5mm	1	
W101	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W103	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W105	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W108	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W201	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W204	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W205	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W206	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W208	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W209	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W210	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W211	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W230	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W232	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W234	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W236	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W295	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W302	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W305	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W433	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W434	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W435	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W436	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	

List of Parts

Location	Material coding	Name	specification	Quantity	ReMark
W437	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W439	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W505	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W506	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W508	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W601	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W602	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W605	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W608	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W609	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W901	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W903	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W905	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W915	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W916	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W917	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R212	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R222	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R235	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R480	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R601	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R604	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R611	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R614	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R621	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R624	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R700	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R705	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R709	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R901	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R907	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R908	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R951	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
R952	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
VD502	0094101552	JUMPER WIRE	φ 0.58/7.5mm	1	
W106	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W203	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W213	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W430	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W431	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W576	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W908	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W910	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W913	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W914	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W918	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W919	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W920	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
R318	0094101552	JUMPER WIRE	φ 0.58/10mm	1	

List of Parts

Location	Material coding	Name	specification	Quantity	ReMark
R472	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
L163	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
L561	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
L564	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
VD603	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
VD613	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
VD623	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
VD904	0094101552	JUMPER WIRE	φ 0.58/10mm	1	
W308	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
W432	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
W572	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
W906	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
W907	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
W909	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
W912	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
W935	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
R209	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
R329	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
R926	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
R932	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
R934	0094101552	JUMPER WIRE	φ 0.58/12.5mm	1	
R319	0094101552	JUMPER WIRE	φ 0.58/15mm	1	
R924	0094101552	JUMPER WIRE	φ 0.58/15mm	1	
R925	0094101552	JUMPER WIRE	φ 0.58/15mm	1	
W207	0094101552	JUMPER WIRE	φ 0.58/17.5mm	1	
R444	0094101020	CARBON FILM RESISTOR	RT13-1/6W-4.7-J-----T	1	
R701	0094101020	CARBON FILM RESISTOR	RT13-1/6W-4.7-J-----T	1	
R113	0094100797	CARBON FILM RESISTOR	RT13-1/6W-33-J-----T	1	
R215	0094100805	CARBON FILM RESISTOR	RT13-1/6W-68-J-----T	1	
R203	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R204	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R206	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R207	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R208	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R210	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R217	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R218	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R219	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R220	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R221	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R231	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R292	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R301	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R305	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R323	0094100017	CARBON FILM RESISTOR	RT13-1/6W-100-J-----T	1	
R201	0094100802	CARBON FILM RESISTOR	RT13-1/6W-150-J-----T	1	
R205	0094100802	CARBON FILM RESISTOR	RT13-1/6W-150-J-----T	1	
R404	0094100802	CARBON FILM RESISTOR	RT13-1/6W-150-J-----T	1	
R106	0094100019	CARBON FILM RESISTOR	RT13-1/6W-220-J-----T	1	
R107	0094100019	CARBON FILM RESISTOR	RT13-1/6W-220-J-----T	1	
R325	0094100019	CARBON FILM RESISTOR	RT13-1/6W-220-J-----T	1	
R236	0094100795	CARBON FILM RESISTOR	RT13-1/6W-270-J-----T	1	

List of Parts

Location	Material coding	Name	specification	Quantity	ReMark
R237	0094100795	CARBON FILM RESISTOR	RT13-1/6W-270-J-----T	1	
R238	0094100795	CARBON FILM RESISTOR	RT13-1/6W-270-J-----T	1	
R306	0094100019	CARBON FILM RESISTOR	RT13-1/6W-220-J-----T	1	
R310	0094100019	CARBON FILM RESISTOR	RT13-1/6W-220-J-----T	1	
R326	0094100795	CARBON FILM RESISTOR	RT13-1/6W-270-J-----T	1	
R320	0094100134	CARBON FILM RESISTOR	RT13-1/6W-390-J-----T	1	
R240	0094100021	CARBON FILM RESISTOR	RT13-1/6W-560-J-----T	1	
R607	0094100021	CARBON FILM RESISTOR	RT13-1/6W-560-J-----T	1	
R617	0094100021	CARBON FILM RESISTOR	RT13-1/6W-560-J-----T	1	
R627	0094100021	CARBON FILM RESISTOR	RT13-1/6W-560-J-----T	1	
R941	0094100021	CARBON FILM RESISTOR	RT13-1/6W-560-J-----T	1	
R241	0094100792	CARBON FILM RESISTOR	RT13-1/6W-680-J-----T	1	
R119	0094100023	CARBON FILM RESISTOR	RT13-1/6W-1K-J-----T	1	
R214	0094100023	CARBON FILM RESISTOR	RT13-1/6W-1K-J-----T	1	
R902	0094100023	CARBON FILM RESISTOR	RT13-1/6W-1K-J-----T	1	
R904	0094100023	CARBON FILM RESISTOR	RT13-1/6W-1K-J-----T	1	
L306	0094100023	CARBON FILM RESISTOR	RT13-1/6W-1K-J-----T	1	
R115	0094100025	CARBON FILM RESISTOR	RT13-1/6W-1.5K-J-----T	1	
R517	0094100753	CARBON FILM RESISTOR	RT13-1/6W-1.2K-J-----T	1	
R578	0094100025	CARBON FILM RESISTOR	RT13-1/6W-1.5K-J-----T	1	
R946	0094100025	CARBON FILM RESISTOR	RT13-1/6W-1.5K-J-----T	1	
R242	0094100026	CARBON FILM RESISTOR	RT13-1/6W-2.2K-J-----T	1	
R523	0094100026	CARBON FILM RESISTOR	RT13-1/6W-2.2K-J-----T	1	
R559	0094100028	CARBON FILM RESISTOR	RT13-1/6W-3.3K-J-----T	1	
R708	0094100028	CARBON FILM RESISTOR	RT13-1/6W-3.3K-J-----T	1	
R202	0094100028	CARBON FILM RESISTOR	RT13-1/6W-3.3K-J-----T	1	
R230	0094100028	CARBON FILM RESISTOR	RT13-1/6W-3.3K-J-----T	1	
R330	0094100028	CARBON FILM RESISTOR	RT13-1/6W-3.3K-J-----T	1	
R108	0094100071	CARBON FILM RESISTOR	RT13-1/6W-3.9K-J-----T	1	
R249	0094100071	CARBON FILM RESISTOR	RT13-1/6W-3.9K-J-----T	1	
R251	0094100071	CARBON FILM RESISTOR	RT13-1/6W-3.9K-J-----T	1	
R916	0094100071	CARBON FILM RESISTOR	RT13-1/6W-3.9K-J-----T	1	
R928	0094100071	CARBON FILM RESISTOR	RT13-1/6W-3.9K-J-----T	1	
R930	0094100071	CARBON FILM RESISTOR	RT13-1/6W-3.9K-J-----T	1	
R608	0094100029	CARBON FILM RESISTOR	RT13-1/6W-4.7K-J-----T	1	
R618	0094100029	CARBON FILM RESISTOR	RT13-1/6W-4.7K-J-----T	1	
R628	0094100029	CARBON FILM RESISTOR	RT13-1/6W-4.7K-J-----T	1	
R945	0094100029	CARBON FILM RESISTOR	RT13-1/6W-4.7K-J-----T	1	
R443	0094100721	CARBON FILM RESISTOR	RT13-1/6W-5.6K-J-----T	1	
R511	0094100721	CARBON FILM RESISTOR	RT13-1/6W-5.6K-J-----T	1	
R920	0094100721	CARBON FILM RESISTOR	RT13-1/6W-5.6K-J-----T	1	
R322	0094100032	CARBON FILM RESISTOR	RT13-1/6W-8.2K-J-----T	1	
R947	0094100032	CARBON FILM RESISTOR	RT13-1/6W-8.2K-J-----T	1	
R102	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R255	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R256	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T		
R290	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R321	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R332	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T		
R333	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T		
R423	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R446	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R448	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R562	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R579	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R640	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	

List of Parts

Location	Material coding	Name	specification	Quantity	ReMark
R912	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R918	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R919	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R927	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T		
R938	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R939	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R942	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T	1	
R948	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T		
R949	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T		
R950	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T		
R955	0094100033	CARBON FILM RESISTOR	RT13-1/6W-10K-J-----T		
R248	0094100073	CARBON FILM RESISTOR	RT13-1/6W-12K-J-----T	1	
R706	0094100073	CARBON FILM RESISTOR	RT13-1/6W-12K-J-----T	1	
R216	0094100034	CARBON FILM RESISTOR	RT13-1/6W-15K-J-----T	1	
R293	0094100034	CARBON FILM RESISTOR	RT13-1/6W-15K-J-----T	1	
R328	0094100034	CARBON FILM RESISTOR	RT13-1/6W-15K-J-----T	1	
R447	0094100034	CARBON FILM RESISTOR	RT13-1/6W-15K-J-----T	1	
R481	0094100929	CARBON FILM RESISTOR	RT13-1/6W-18K-J-----T	1	
R252	0094100779	CARBON FILM RESISTOR	RT13-1/6W-22K-J-----T	1	
R515	0094100779	CARBON FILM RESISTOR	RT13-1/6W-22K-J-----T	1	
R551	0094100779	CARBON FILM RESISTOR	RT13-1/6W-22K-J-----T	1	
R575	0094100779	CARBON FILM RESISTOR	RT13-1/6W-22K-J-----T	1	
R576	0094100779	CARBON FILM RESISTOR	RT13-1/6W-22K-J-----T	1	
R703	0094100779	CARBON FILM RESISTOR	RT13-1/6W-22K-J-----T	1	
R909	0094100779	CARBON FILM RESISTOR	RT13-1/6W-22K-J-----T	1	
R213	0094100075	CARBON FILM RESISTOR	RT13-1/6W-24K-J-----T	1	
R232	0094100036	CARBON FILM RESISTOR	RT13-1/6W-33K-J-----T	1	
R903	0094100036	CARBON FILM RESISTOR	RT13-1/6W-33K-J-----T	1	
R913	0094100036	CARBON FILM RESISTOR	RT13-1/6W-33K-J-----T	1	
R943	0094100036	CARBON FILM RESISTOR	RT13-1/6W-33K-J-----T	1	
R450	0094100800	CARBON FILM RESISTOR	RT13-1/6W-47K-J-----T	1	
R635	0094100800	CARBON FILM RESISTOR	RT13-1/6W-47K-J-----T	1	
R246	0094100039	CARBON FILM RESISTOR	RT13-1/6W-68K-J-----T	1	
R101	0094100077	CARBON FILM RESISTOR	RT13-1/6W-100K-J-----T	1	
R243	0094100077	CARBON FILM RESISTOR	RT13-1/6W-100K-J-----T	1	
R473	0094100077	CARBON FILM RESISTOR	RT13-1/6W-100K-J-----T	1	
R233	0094100917	CARBON FILM RESISTOR	RT13-1/6W-220K-J-----T	1	
R211	0094100881	CARBON FILM RESISTOR	RT13-1/6W-330K-J-----T	1	
R247	0094100726	CARBON FILM RESISTOR	RT13-1/6W-560K-J-----T	1	
R641	0094101578	CARBON FILM RESISTOR	RT14-1/4W-2.2-J-----T	1	
R519	0094100946	CARBON FILM RESISTOR	RT14-1/4W-33-J-----T	1	
R960	0094100991	CARBON FILM RESISTOR	RT14-1/4W-470-J-----T	1	
R245	0094101443	CARBON FILM RESISTOR	RT14-1/4W-1.8K-J-----T	1	
R526	0094101092	CARBON FILM RESISTOR	RT14-1/4W-2.7K-J-----T	1	
R557	0094100993	CARBON FILM RESISTOR	RT14-1/4W-4.7K-J-----T	1	
R424	0094100994	CARBON FILM RESISTOR	RT14-1/4W-15K-J-----T	1	
R522	0094100994	CARBON FILM RESISTOR	RT14-1/4W-15K-J-----T	1	
R555	0094101289	CARBON FILM RESISTOR	RT14-1/4W-47K-J-----T	1	
R556	0094101289	CARBON FILM RESISTOR	RT14-1/4W-47K-J-----T	1	
R554	0094100997	CARBON FILM RESISTOR	RT14-1/4W-150K-J-----T	1	
R327	0094101148	CARBON FILM RESISTOR	RT15-1/2W-220-J-----T	1	
R440	0094100953	CARBON FILM RESISTOR	RT15-1/2W-1.5K-J-----T		
R560	0094101002	CARBON FILM RESISTOR	RT15-1/2W-3.3K-J-----T	1	
R605	0094101002	CARBON FILM RESISTOR	RT15-1/2W-3.3K-J-----T	1	
R615	0094101002	CARBON FILM RESISTOR	RT15-1/2W-3.3K-J-----T	1	
R625	0094101002	CARBON FILM RESISTOR	RT15-1/2W-3.3K-J-----T	1	

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Location	Material coding	Name	specification	Quantity	ReMark
R413	0094101165	CARBON FILM RESISTOR	RT15-1/2W-4.7K-J-----T	1	
R462	0094102156	CARBON FILM RESISTOR	RT15-1/2W-12K-J-----T	1	
R561	0094100956	CARBON FILM RESISTOR	RT15-1/2W-220K-J-----T	1	
R501	0094100956	CARBON FILM RESISTOR	RT15-1/2W-220K-J-----T	1	
R442	0094102233	CARBON FILM RESISTOR	RY15X-1/2W-330-J-----T	1	
R407	0094102218	CARBON FILM RESISTOR	RT15X-1/2W-1K-J-----T	1	
R552	0094100995	CARBON FILM RESISTOR	RT15X-1/2W-47K-J-----T	1	
R531	0094102100	GLASS RESISTOR	RI40-1/2W-5.6M-K-----T	1	
R532	0094102100	GLASS RESISTOR	RI40-1/2W-5.6M-K-----T	1	
C901	0094202141	CERAMIC CAPACITOR	CC1-06-CH-63V-20PF-J-F05	1	
C902	0094202141	CERAMIC CAPACITOR	CC1-06-CH-63V-20PF-J-F05	1	
C313	0094202166	CERAMIC CAPACITOR	CC1-06-CH-63V-22pF-J-F05		
C247	0094201124	CERAMIC CAPACITOR	CC1-06-CH-63V-33PF-J-F05	1	
C235	0094201610	CERAMIC CAPACITOR	CC1-CH-63V-180pF-J-F05	1	
C448	0094202177	CERAMIC CAPACITOR	CC1-06-SL-500V-10PF-J-F05	1	
C908	0094201446	CERAMIC CAPACITOR	CC1-CH-63V-220pF-J-F05	1	
C909	0094201446	CERAMIC CAPACITOR	CC1-CH-63V-220pF-J-F05	1	
C912	0094201446	CERAMIC CAPACITOR	CC1-CH-63V-220pF-J-F05	1	
C602	0094202373	CERAMIC CAPACITOR	CC1-CH-63V-330pF-J-F05	1	
C612	0094202373	CERAMIC CAPACITOR	CC1-CH-63V-330pF-J-F05	1	
C622	0094202373	CERAMIC CAPACITOR	CC1-CH-63V-330pF-J-F05	1	
C203	0094200799	CERAMIC CAPACITOR	CT1-B-63V-1000pF-K-F05	1	
C934	0094200799	CERAMIC CAPACITOR	CT1-B-63V-1000pF-K-F05		
C246	0094202324	CERAMIC CAPACITOR	CT1-06-2B4-63V-1500PF-K-F05	1	
C551	0094201038	CERAMIC CAPACITOR	CT1-06-2B4-63V-1800PF-K-F05	1	
C234	0094202191	CERAMIC CAPACITOR	CT1-08-2B4-63V-2700PF-K-F05	1	
C112	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C113	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C114	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C120	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C202	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C208	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C211	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C225	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C232	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C233	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C304	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C309	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C310	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C574	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C635	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C903	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C913	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C915	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C924	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C929	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C930	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C402	0094201237	CERAMIC CAPACITOR	CT1-10A-2B4-500V-1000PF-K-F05	1	
C403	0094201042	CERAMIC CAPACITOR	CT1-10A-2B4-500V-3900PF-K-F05	1	
C452	0094201042	CERAMIC CAPACITOR	CT1-10A-2B4-500V-3900PF-K-F05	1	
C294	0094200008	AI ELECTROLYTIC CAPACITOR	CD110-16V-10uF-M-----F	1	
C293	0094200008	AI ELECTROLYTIC CAPACITOR	CD110-16V-10uF-M-----F	1	
C306	0094200008	AI ELECTROLYTIC CAPACITOR	CD110-16V-10uF-M-----F	1	
C570	0094200008	AI ELECTROLYTIC CAPACITOR	CD110-16V-10uF-M-----F	1	
C218	0094201043	AI ELECTROLYTIC CAPACITOR	CD110-16V-22uF-M-----F	1	
C704	0094201043	AI ELECTROLYTIC CAPACITOR	CD110-16V-22uF-M-----F	1	

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C238	0094200988	AI ELECTROLYTIC CAPACITOR	CD110-16V-47uF-M-----F	1	
C240	0094200988	AI ELECTROLYTIC CAPACITOR	CD110-16V-47uF-M-----F	1	
C244	0094200988	AI ELECTROLYTIC CAPACITOR	CD110-16V-47uF-M-----F	1	
C295	0094200988	AI ELECTROLYTIC CAPACITOR	CD110-16V-47uF-M-----F	1	
C307	0094200988	AI ELECTROLYTIC CAPACITOR	CD110-16V-47uF-M-----F	1	
C632	0094200988	AI ELECTROLYTIC CAPACITOR	CD110-16V-47uF-M-----F	1	
C914	0094200988	AI ELECTROLYTIC CAPACITOR	CD110-16V-47uF-M-----F	1	
C916	0094200988	AI ELECTROLYTIC CAPACITOR	CD110-16V-47uF-M-----F	1	
C920	0094200988	AI ELECTROLYTIC CAPACITOR	CD110-16V-47uF-M-----F	1	
C230	0094200747	AI ELECTROLYTIC CAPACITOR	CD110-16V-100uF-M-----F	1	
C243	0094200747	AI ELECTROLYTIC CAPACITOR	CD110-16V-100uF-M-----F	1	
C927	0094200747	AI ELECTROLYTIC CAPACITOR	CD110-16V-100uF-M-----F	1	
C928	0094200747	AI ELECTROLYTIC CAPACITOR	CD110-16V-100uF-M-----F	1	
C209	0094201044	AI ELECTROLYTIC CAPACITOR	CD110-16V-470uF-M-----F	1	
C222	0094201044	AI ELECTROLYTIC CAPACITOR	CD110-16V-470uF-M-----F	1	
C571	0094201044	AI ELECTROLYTIC CAPACITOR	CD110-16V-470uF-M-----F	1	
C430	0094200990	AI ELECTROLYTIC CAPACITOR	CD110-35V-47uF-M-----F	1	
C449	0094200991	AI ELECTROLYTIC CAPACITOR	CD110-35V-100uF-M-----F	1	
C237	0094200042	AI ELECTROLYTIC CAPACITOR	CD110-50V-0.22uF-M-----F	1	
C108	0094200016	AI ELECTROLYTIC CAPACITOR	CD110-50V-0.47uF-M-----F	1	
C110	0094200016	AI ELECTROLYTIC CAPACITOR	CD110-50V-0.47uF-M-----F	1	
C204	0094200016	AI ELECTROLYTIC CAPACITOR	CD110-50V-0.47uF-M-----F	1	
C301	0094200016	AI ELECTROLYTIC CAPACITOR	CD110-50V-0.47uF-M-----F	1	
C215	0094200043	AI ELECTROLYTIC CAPACITOR	CD110-50V-1uF-M-----F	1	
C216	0094200043	AI ELECTROLYTIC CAPACITOR	CD110-50V-1uF-M-----F	1	
C217	0094200043	AI ELECTROLYTIC CAPACITOR	CD110-50V-1uF-M-----F	1	
C236	0094200043	AI ELECTROLYTIC CAPACITOR	CD110-50V-1uF-M-----F	1	
C245	0094200043	AI ELECTROLYTIC CAPACITOR	CD110-50V-1uF-M-----F	1	
C103	0094200044	AI ELECTROLYTIC CAPACITOR	CD110-50V-2.2uF-M-----F	1	
C300	0094200044	AI ELECTROLYTIC CAPACITOR	CD110-50V-2.2uF-M-----F	1	
C443	0094200044	AI ELECTROLYTIC CAPACITOR	CD110-50V-2.2uF-M-----F	1	
C926	0094200044	AI ELECTROLYTIC CAPACITOR	CD110-50V-2.2uF-M-----F	1	
C101	0094200992	AI ELECTROLYTIC CAPACITOR	CD110-50V-4.7uF-M-----F	1	
C206	0094200992	AI ELECTROLYTIC CAPACITOR	CD110-50V-4.7uF-M-----F	1	
C291	0094200992	AI ELECTROLYTIC CAPACITOR	CD110-50V-4.7uF-M-----F	1	
C292	0094200992	AI ELECTROLYTIC CAPACITOR	CD110-50V-4.7uF-M-----F	1	
C296	0094200992	AI ELECTROLYTIC CAPACITOR	CD110-50V-4.7uF-M-----F	1	
C705	0094200992	AI ELECTROLYTIC CAPACITOR	CD110-50V-4.7uF-M-----F	1	
C411	0094200993	AI ELECTROLYTIC CAPACITOR	CD110-160V-1uF-M-----F	1	
C700	0094200550	AI ELECTROLYTIC CAPACITOR	CD110X-25V-220uF-M-----F	1	
C201	0094201135	AI ELECTROLYTIC CAPACITOR	CD71-25V-10uF-M-----F	1	
C205	0094200824	AI ELECTROLYTIC CAPACITOR	CD117H-50V-1uF-K-----F	1	
C303	0094202200	AI ELECTROLYTIC CAPACITOR	CD117H-50V-0.47uF-K-----F	1	
C231	0094202192	POLYESTER CAPACITOR	CL12-100V-2200PF-J-----F	1	
C446	0094202192	POLYESTER CAPACITOR	CL12-100V-2200PF-J-----F	1	
C515	0094201091	POLYESTER CAPACITOR	CL21X-50V-0.012uF-F5-J-----F	1	*
C305	0094202170	POLYESTER CAPACITOR	CL21X-100V-8200PF-K-----F	1	
C517	0094202194	POLYESTER CAPACITOR	CL21X-100V-0.022uF-F5-J-----F	1	
C447	0094202195	POLYESTER CAPACITOR	CL21X-100V-0.056uF-F5-K-----F	1	
C104	0094200096	POLYESTER CAPACITOR	CL21X-100V-0.1uF-J-----F	1	
C314	0094200096	POLYESTER CAPACITOR	CL21X-100V-0.1uF-J-----F		
C413	0094200096	POLYESTER CAPACITOR	CL21X-100V-0.1uF-J-----F	1	
C421	0094200096	POLYESTER CAPACITOR	CL21X-100V-0.1uF-J-----F	1	
C444	0094200096	POLYESTER CAPACITOR	CL21X-100V-0.1uF-J-----F	1	
C460	0094200096	POLYESTER CAPACITOR	CL21X-100V-0.1uF-J-----F	1	
C461	0094200096	POLYESTER CAPACITOR	CL21X-100V-0.1uF-J-----F	1	

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Location	Material coding	Name	specification	Quantity	ReMark
C514	0094200096	POLYESTER CAPACITOR	CL21X-100V-0.1μF-J-----F	1	
C701	0094200096	POLYESTER CAPACITOR	CL21X-100V-0.1μF-J-----F	1	
C922	0094200096	POLYESTER CAPACITOR	CL21X-100V-0.1μF-J-----F	1	
C923	0094200096	POLYESTER CAPACITOR	CL21X-100V-0.1μF-J-----F	1	
L103	0094500263	FIXED INDUCTANCE	LGA0305-1uH-K-----T	1	
L102	0094500237	FIXED INDUCTANCE	LGA0305-15uH-J-----T	1	
L104	0094500237	FIXED INDUCTANCE	LGA0305-15uH-J-----T	1	
L201	0094500237	FIXED INDUCTANCE	LGA0305-15uH-J-----T	1	
L230	0094500237	FIXED INDUCTANCE	LGA0305-15uH-J-----T	1	
L302	0094500237	FIXED INDUCTANCE	LGA0305-15uH-J-----T	1	
L305	0094500237	FIXED INDUCTANCE	LGA0305-15uH-J-----T	1	
L901	0094500237	FIXED INDUCTANCE	LGA0305-15uH-J-----T	1	
L306	0094500241	FIXED INDUCTANCE	LGA0305-27μH-J-----T		
L303	0094500682	FIXED INDUCTANCE	LGA0307-8.2uH-K-----F	1	
L304	0094500682	FIXED INDUCTANCE	LGA0307-8.2uH-K-----F	1	
VD503	0094400288	DIODE	TRM11C-----T	1	
VD504	0094400288	DIODE	TRM11C-----T	1	
VD505	0094400288	DIODE	TRM11C-----T	1	
VD506	0094400288	DIODE	TRM11C-----T	1	
VD230	0094400049	DIODE	1N4148-----T	1	
VD231	0094400049	DIODE	1N4148-----T	1	
VD232	0094400049	DIODE	1N4148-----T	1	
VD233	0094400049	DIODE	1N4148-----T	1	
VD401	0094400049	DIODE	1N4148-----T	1	
VD514	0094400049	DIODE	1N4148-----T	1	
VD516	0094400049	DIODE	1N4148-----T	1	
VD518	0094400049	DIODE	1N4148-----T	1	
VD558	0094400049	DIODE	1N4148-----T	1	
VD601	0094400049	DIODE	1N4148-----T	1	
VD611	0094400049	DIODE	1N4148-----T	1	
VD621	0094400049	DIODE	1N4148-----T	1	
VD901	0094400049	DIODE	1N4148-----T	1	
VD434	0094400388	DIODE	EM01Z-----T	1	
VD517	0094400328	DIODE	ES1-----T	1	
VD552	0094400328	DIODE	ES1-----T	1	
VD554	0094400328	DIODE	ES1-----T	1	
VD413	0094400331	DIODE	EU1C-----T	1	
VD555	0094400331	DIODE	EU1C-----T	1	*
VD520	0094400829	DIODE	EU1Z-10-L-----T		
VD433	0094400329	DIODE	EU2Z-----T	1	
VD553	0094400329	DIODE	EU2Z-----T	1	
VD557	0094400329	DIODE	EU2Z-----T	1	
VD556	0094400454	DIODE	RU3A-----T	1	*
VD501	0094400361	DIODE	RD3.6L-----T	1	
VD902	0094400361	DIODE	RD3.6L-----T	1	
VD903	0094400361	DIODE	RD3.6L-----T		
VD922	0094400359	DIODE	RD5.1EB2-----T	1	
VD921	0094400362	DIODE	RD5.6EB3-----T	1	
VD551	0094400358	DIODE	RD6.2EB3-----T	1	
VD519	0094400397	DIODE	RD8.2EB3-----T	1	
VD436	0094400258	DIODE	MTZJ11B-----T IMPORT	1	
V230	0094400211	TRIODE	2SA1015(Y)-----F IMPORT	1	
V232	0094400211	TRIODE	2SA1015(Y)-----F	1	
V233	0094400211	TRIODE	2SA1015(Y)-----F IMPORT	1	
V302	0094400211	TRIODE	2SA1015(Y)-----F IMPORT	1	

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V902	0094400211	TRIODE	2SA1015(Y)-----F IMPORT	1	
V102	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	
V103	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	
V201	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	
V202	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	
V203	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	
V231	0094400207	TRIODE	2SC1815(Y)-----F IMPORT		
V320	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	
V551	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	*
V571	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	
V572	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	
V630	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	
V701	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	
V901	0094400207	TRIODE	2SC1815(Y)-----F IMPORT		
V903	0094400207	TRIODE	2SC1815(Y)-----F IMPORT	1	
N904	0094401395	IC	PC574----F IMPORT	1	
R445	0094100968	OXIDE-FILM RESISTOR	RY16-1W-1-J-15-C-A	1	
R520	0094102374	CARBON FILM RESISTOR	RY16-1W-120K-J-C-A	1	*
R521	0094102374	CARBON FILM RESISTOR	RY16-1W-120K-J-C-A	1	*
R525	0094100972	OXIDE-FILM RESISTOR	RY17-2W-68-J-20-C-A	1	*
R580	0094100972	OXIDE-FILM RESISTOR	RY17-2W-68-J-20-C-A	1	
R574	0094101155	OXIDE-FILM RESISTOR	RY17-2W-150-J-20-C-A	1	
R437	0094100719	OXIDE-FILM RESISTOR	RY17-2W-270-J-20-C-A	1	*
R553	0094101011	OXIDE-FILM RESISTOR	RY17-2W-12K-J-20-C-A	1	
R606	0094102168	OXIDE-FILM RESISTOR	RY17-2W-18K-J-20-C-A	1	
R616	0094102168	OXIDE-FILM RESISTOR	RY17-2W-18K-J-20-C-A	1	*
R626	0094102168	OXIDE-FILM RESISTOR	RY17-2W-18K-J-20-C-A	1	*
R565	0094100976	OXIDE-FILM RESISTOR	RY17-2W-22K-J-20-C-A	1	
R449	0094101693	WIRE-WOUND RESISTOR	RX27-6-5W-3.9-J-15-----A	1	
R534	0094101296	WIRE-WOUND RESISTOR	RX27-3A-6W-27-K		
R502	0094101297	WIRE-WOUND RESISTOR	RX27-3A-6W-1.8-J	1	*
R558	0094102214	FUSE RESISTOR	RF10-1/2W-0.47-J-15-C-A	1	*
R550	0094101395	FUSE RESISTOR	RF10-1/2W-2.2-J-15-C-A	1	
R573	0094101006	FUSE RESISTOR	RF10-1W-1-J-15-C-A	1	
R613	0094101008	FUSE RESISTOR	RF10-2W-3.3-J-20-C-A	1	
C210	0094200982	CERAMIC CAPACITOR	CT1-B-63V-0.01μF-K-F05	1	
C503	0094201071	CERAMIC CAPACITOR	CT81-10B-2B4-1KV-1000PF-K-07-C-A	1	
C504	0094201071	CERAMIC CAPACITOR	CT81-10B-2B4-1KV-1000PF-K-07-C-A	1	
C505	0094201071	CERAMIC CAPACITOR	CT81-10B-2B4-1KV-1000PF-K-07-C-A	1	
C506	0094201071	CERAMIC CAPACITOR	CT81-10B-2B4-1KV-1000PF-K-07-C-A	1	
C556	0094201056	CERAMIC CAPACITOR	CT81-10B-2B4-2KV-220PF-K-07-C-A	1	
C555	0094201217	CERAMIC CAPACITOR	CT81-10B-2B4-2KV-470PF-K-07-C-A	1	
C516	0094201373	CERAMIC CAPACITOR	CT81-10B-2B4-2KV-680PF-K-07-C-A	1	
C416	0094201059	CERAMIC CAPACITOR	CT81-10B-2B4-2KV-680PF-K-10-C-A		
C630	0094201061	CERAMIC CAPACITOR	CT81-10B-2B4-2KV-2200PF-K-10-C-A	1	
C535	0094200840	CERAMIC CAPACITOR	CT7-B-400VAC-1000pF-K-10-A IMPORT	1	*
C302	0094200747	AI ELECTROLYTIC CAPACITOR	CD110-16V-100uF-M-----F	1	*
C102	0094201044	AI ELECTROLYTIC CAPACITOR	CD110-16V-470uF-M-----F	1	*
C311	0094201044	AI ELECTROLYTIC CAPACITOR	CD110-16V-470uF-M-----F	1	
C717	0094201009	AI ELECTROLYTIC CAPACITOR	CD110-25V-470uF-M-05-E-A	1	
C308	0094200016	AI ELECTROLYTIC CAPACITOR	CD110-50V-0.47uF-M-----F	1	
C703	0094200992	AI ELECTROLYTIC CAPACITOR	CD110-50V-4.7uF-M-----F	1	
C561	0094201321	AI ELECTROLYTIC CAPACITOR	CD288-250V-10uF-M-05-G-A	1	
C433	0094201010	AI ELECTROLYTIC CAPACITOR	CD288H-25V-1000uF-M-05-E-A	1	
C557	0094201010	AI ELECTROLYTIC CAPACITOR	CD288H-25V-1000uF-M-05-E-A	1	

List of Parts

Location	Material coding	Name	specification	Quantity	ReMark
C564	0094201010	AI ELECTROLYTIC CAPACITOR	CD288H-25V-1000uF-M-05-E-A	1	
C565	0094202201	AI ELECTROLYTIC CAPACITOR	CD288H-35V-1000uF-M-05-E-A	1	
C559	0094200770	AI ELECTROLYTIC CAPACITOR	CD288H-50V-330uF-G-A	1	*
C563	0094201603	AI ELECTROLYTIC CAPACITOR	CD288H-160V-220uF-M-07-G-A	1	
C562	0094201229	AI ELECTROLYTIC CAPACITOR	CD288H-250V-22uF-M-05-E-A	1	*
C507	0094202176	AI ELECTROLYTIC CAPACITOR	CESMS2W151M2540TA-02	1	*
C708	0094202193	POLYESTER CAPACITOR	CL21X-100V-3900pF-F5-J-----F	1	
C412	0094202175	POLYESTER CAPACITOR	CBB13-250V-0.36uF-J-22-M-A	1	
C415	0094201304	POLYESTER CAPACITOR	CBB81-1600V-9100PF-J-22-K-A	1	
C501	0094200944	POLYESTER CAPACITOR	MKT1.40-AC275V-0.22uF-M IMPORT	1	
C502	0094200944	POLYESTER CAPACITOR	MKT1.40-AC275V-0.22uF-M IMPORT	1	
V570	0094401676	TRIODE	2SB764E----D-A IMPORT	1	*
V511	0094401676	TRIODE	2SB764E----D-A IMPORT	1	*
V552	0094401677	TRIODE	2SB892(S)----D-A IMPORT	1	*
V101	0094400405	TRIODE	2SC2216(O)----D-A IMPORT	1	
V444	0094400600	TRIODE	2SC2383O----D-A	1	
V601	0094401675	TRIODE	3DG2482-----F	1	
V611	0094401675	TRIODE	3DG2482-----F	1	
V621	0094401675	TRIODE	3DG2482-----F	1	
V512	0094400539	TRIODE	2SC3807 (R) ---B-A IMPORT	1	*
V905	0094400834	TRIODE	2SD400(E,D)----D-A	1	
FZ503	0094400806	voltage nimble resistance	TVR14561(KS)	1	
RP551	0094100979	RESISITOR	WI06-2AL-2K	1	
PS502	0094400341	THERMOSENSITIVE RESISTOR	MZ73-L18RM270	1	
F501	0094000150	FUSE	T2.5A/250V	1	
L401	0094500325	MAGNETIC BEAD INDUCTANCE	ZZ0008-15-A-A	1	
Z901	0094600224	CRYSTAL OSCILLATOR	HC-491S (8.0000MHz)	1	
Z303	0094600013	CERAMIC TRAP	XT5.5B		
Z304	0094600239	CERAMIC TRAP	XT6.5MHz	1	
Z101	0094600235	SAWF	K2977M	1	
A101	0094004220	TUNER	ENV59D69EQ	1	
L414	0094500295	HORIZONTAL LINEARITY COIL	LX37	1	
T401	0094500426	LBT	BCT-02	1	
T402	0094500843	FBT	JF0501-19910	1	*
L502	0094500346	POWER FILTER	LCL-04	1	
L503	0094500346	POWER FILTER	LCL-04	1	
T501	0094500865	POWER TRANSFORMER	BCK-08A6F	1	
VD515	0094400196	PHOTOTRANSISTOR	PC817(C) IMPORT	1	
N901	0094400316	IC	AT24C08 IMPORT	1	
N201	0094400138	IC	TC4052BP		
N204	0094401582	IC	Haier8821-V2.0 IMPORT	1	*
N209	0094400417	IC	HEF4053 IMPORT	1	
TP603	0094300090	PLUG SEAT	TJC1-1A	1	
TP605	0094300090	PLUG SEAT	TJC1-1A	1	
XZ503	0094300110	PLUG SEAT	TJC1-2A	1	
XZ411	0094300307	PLUG SEAT	TJC1-4A	1	
XZ500	0094300063	PLUG SEAT	TJC2-2A	1	

List of Parts

Location	Material coding	Name	specification	Quantity	ReMark
XZ213	0094300111	PLUG SEAT	TJC3-3A	1	*
F501a	0090100007		AUA7.749.0013	1	
F501b	0090100007		AUA7.749.0013	1	
XZA201	0094300368	REAR AV PLUG SEAT	AV9-5	1	
XZ203	0094300058	S TERMINAL	SW-3K	1	
XZ601	0094300060	TUBE SOCKET	GZS10-2-10C1	1	
	0090400957	WIRE	600V-350mm	1	
XZ218	0090401106	WIRE	450mm	1	
XZ701	0090401109	WIRE	600mm	1	
A901	0090400906	WIRE	190mm	1	
XZ901	0090401109	WIRE	600mm	1	
XZ412	0090400903	WIRE	350mm	1	
XS261	0090400904	WIRE	400mm	1	
XZ214	0090400905	WIRE	180mm	1	

16. Damageable Parts List

Location	Material coding	Name	Specification	Quantity	Mark
R550	0094101395	FUSE RESISITOR	RF10-1/2W-2.2-J-15-C-A	1	*
R558	0094102214	FUSE RESISITOR	RF10-1/2W-0.47-J-15-C-A	1	*
R573	0094101006	FUSE RESISITOR	RF10-1W-1-J-15-C-A	1	*
R613	0094101008	FUSE RESISTOR	RF10-2W-3.3-J-20-C-A	1	
PS502	0094400341	THERMOSENSITIVE RESISTOR	MZ73-L18RM270	1	
C507	0094202176	AL ELECTROLYTIC CAPACITOR	CESMS2W151M2540TA-02		
V511	0094401676	TRIODE	2SB764E---D-A		
V552	0094401677	TRIODE	2SB892(S)---D-A	1	*
V411	0094400753	TRIODE	2SD1879---B-A		
V512	0094400539	TRIODE	2SC3807 (R)---B-A	1	*
V513	0094401182	TRIODE	2SC4236---B-A	1	*
	0090300032	MICAEIOUS CHIP	AC263	1	*
N402	0094400470	IC	LA7840	1	*
N701	0094401179	IC	TDA2611	1	
N902	0094400808	IC	LM7809CS	1	*
N901	0094400316	IC	AT24C08	1	*
N201	0094400138	IC	TC4052BP		
N204	0094401582	IC	Haier8821		
N904	0094401395	IC	uPC574---F		
Z101	0094600235	SAW	K2977M	1	
A101	0094004220	TUNER	ENV59D69FEQ		
T402	0094500843	FBT	JF0501-19910	1	*
T501	0094500865	POWER TRANSFORMER	BCK-08A6F	1	*
XZ601	0094300060	TUBE SOCKET	GZS10-2-10C1	1	
F501	0094000150	FUSE	T2.5A/250V	1	*
	0094002610	POLYESTER KEYSTROKE			
W501	0090400456	POWER CABLE	2.0m	1	*
SW1000	0094000479	POWER SWITCH	KDC-A10	1	
	0094004258	REMOTE CONTROLLER	HTR-040	1	
	0094004133	COLOR TUBE	A51LXR195X91JD	1	
	0090203217	FRONT FRAME		1	
	0090203021	BACK COVER	MTAA6076AB--Q	1	

17. Information of Resistors ,Capacitors and other components

RESISTORS & CAPACITORS-PARTS NO.CODE

Notes: 1.part numbers are indicated on most mechanical parts.

Please use this part number for parts orders.

2.The unit of resistance is Ω (ohm).K=1000 Ω ,M=1000K Ω

3.The unit of capacitance is μ F(microfarad). 1pF= 10^{-6} μ F.

Numbering system of Capacitor

Example

<u>CL42</u>	----	<u>17</u>	----	<u>50V</u>	----	<u>2F4</u>	----	<u>104 *</u>	----	<u>Z</u>
Type				Voltage				Value (pF)		Tolerance
<u>CL21X</u>	----	<u>100V</u>	----	<u>223 *</u>	----	<u>J</u>				
Type		Voltage		Value (pF)		Tolerance				
<u>CL110X</u>	----	<u>25V</u>	----	<u>100 μ F</u>		\pm		<u>20%</u>		
Type		Voltage		Value		Tolerance				
* 104 = 10×10^4 223 = 22×10^3										

Numbering system of resistor

Example

<u>RY17S</u>	----	<u>2W</u>	----	<u>390</u>	----	<u>J</u>	----	<u>05-E-A</u>
Type		Wattage		Value(Ω)		Tolerance		
<u>RS11</u>	----	<u>1/2W</u>	----	<u>1.8K</u>	----	<u>K</u>		
Type		Wattage		Value		Tolerance		

ABBREVIATION OF PART NAME AND DESCRIPTION

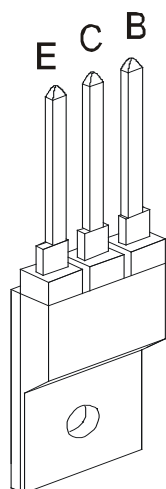
RESISTOR

PART NAME & DESCRIPTION			
TYPE		ALLOWANCE	
T	Carbon	F	$\pm 1\%$
S	Solid	J	$\pm 5\%$
J	Metal	K	$\pm 10\%$
Y	Oxide	M	$\pm 20\%$
F	Fuse	G	$\pm 2\%$

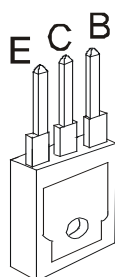
CAPACITOR

PART NAME & DESCRIPTION			
TYPE		ALLOWANCE	
C	Ceramic	J	$\pm 5\%$
T	Ceramic	K	$\pm 10\%$
L	Film	L	$\pm 15\%$
D	Electrolytic	M	$\pm 20\%$
A	Tantalum	P	+100%-0%
		Z	+80%-0%

Terminal view of transistors



2SC4236
2SD1879



2SC2688
2SC3807



2SB764
2SB892
2SD400



2SA1015
2SC1815

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