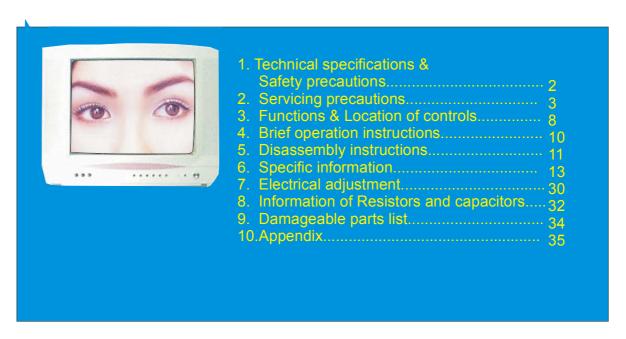


HT-3768 COLOUR TELEVISION Service Manual



Features

- 37cm super flat picture tube
- Auto search 218 programs presetting and memory
- Child Lock & On Screen Help Function

Haier group

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I. TECHNICAL SPECIFICATION & SAFETY PRECAUTIONS

POWER SUPPLY: AC150-AC 250V, 50 /60Hz

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/NTSC3.58MHz/4.43MHz

b) Broadcast TV system: B/G

Language displayed: English

• Video input: $1.0V_{P-P}$ (75 Ω)

• Audio input: 436m Vrms (40K $\Omega)$

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.

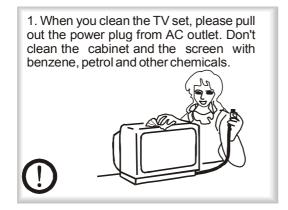
For continued X-RAY RADIATION protection, the replacement tube must be of the same type as specified in the Replacement Parts List.

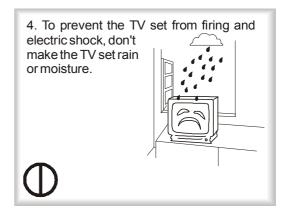
Before returning the receiver to the customer,

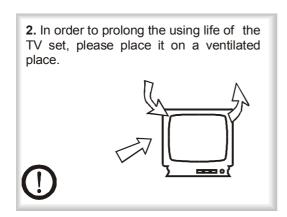
Always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to make sure that the set is safe to operate without any danger of electrical shock.

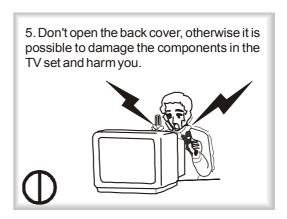
II. SERVICING PRECAUTIONS

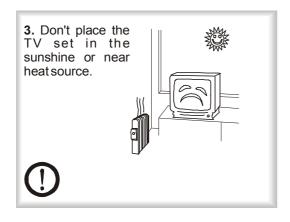
Warning and Cautions

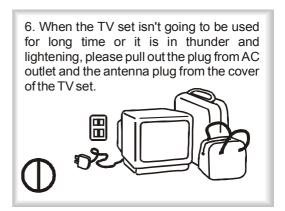












Explanation on the display tube

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 Electrostatic ally 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.

- Immediately before handling any semiconductor component or semiconductorequipped 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 folder 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.
- 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 spay-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.

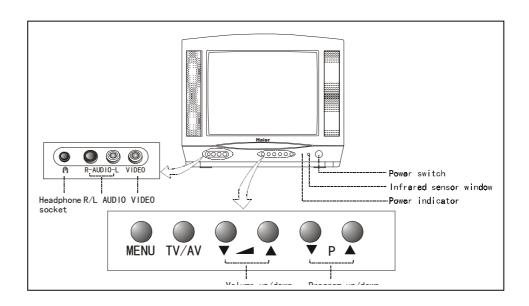
III. FUNCTIONS & LOCATION OF CONTROLS

ALL-BAND CATV (470MHz)

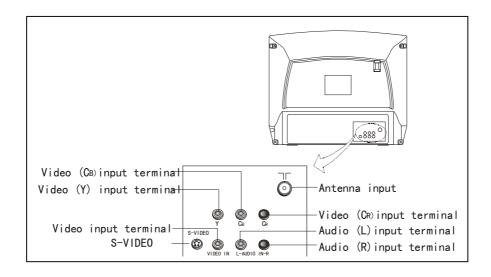
- I²C bus control
- Auto-manual tuning
- Audio/video input t interfaces
- Multiple picture modes selection
- Screen saver when no signal
- 218 programs Preset
- Slide curtain power on/off display, improved eye protection

Location of controls

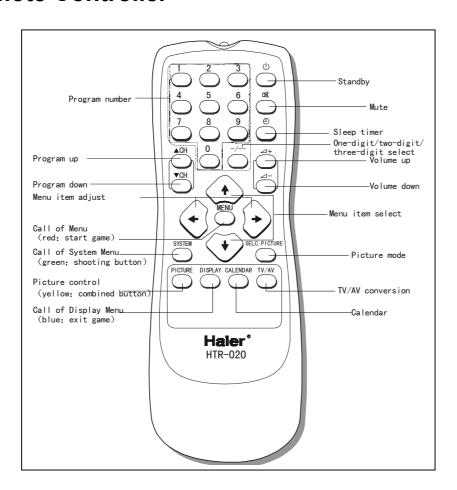
Front panel of the TV set



Rear panel of the TV set



Remote Controller



IV. BRIEF OPERATION INSTRUCTIONS

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 " then press the " ".

2. Manual search and fine tune

Press MENU button then use the " \implies "key to call up the "tune program" menu on the screen. Then Press the menu" $\boxed{\hspace{-1.5pt}}$ "item to select it.Use the " $\boxed{\hspace{-1.5pt}}$ " key to select the bar "Manual search program" then press the " \implies " 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 " it key to call up the "tune program" menu on the screen. Then Press the menu" up "item to select it. Use the " up "item to select the bar "Cannal number" then press the " item to select it. Use the " up to select the bar "Cannal number" then press the " item to select it. Use the " up to select the bar "to make sure. Enter the number that you do not want to see . Then 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 among MEMORY 1, MEMORY2, MEMORY3, to chang the Picture Mode.

V. DISASSEMBLY INSTRUCTIONS

A. Important note

This set is disconnected from the power supply through the converter transformer. An isolating transformer is necessary to service operations on the primary side of the converter transformer.

B. Back Cabinet Removal

Remove the screw residing on the back cabinet and carefully separate the back cabinet from the front cabinet.

C. Picture tube handling caution

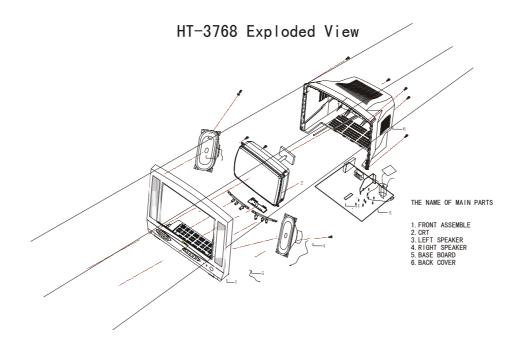
Due to high vacuum and large surface area of picture tube, great care must be exercised when handling picture tube. Always lift picture tube by grasping it firmly

around faceplate.

NEVER LIFT TUBE BY ITS NECK! The picture tube must not be scratched or subjected to excessive pressure as fracture of glass may result in an implosion of considerable violence that can cause personal injury or property damage.

EXPLODED VIEW OF CABINET PARTS

Model: HT-3768(PAL/BG)



Exploded view parts list

Model: HT-3768

| NO. | Name of part | Part specialized code | QTY. |
|-----|-----------------------|-----------------------|------|
| 1 | Power button | 0090201538 | 1 |
| 2 | Front frame | 0090202354 | |
| 3 | Jiggle button | 0090201537 | 1 |
| 4 | Light conductive pole | 0090201536 | 1 |
| 5 | Color picture tube | 0094000202 | 1 |

| 6 | Rear cover | 0090202355 | 1 |
|---|------------|------------|---|
| O | Real Cover | 0090202333 | 1 |

VI. SPECIFIC INFORMATIONS

A. Principle integrated circuits

A1. HT-3768 color TV set composed of the following sections

- (1) Small signal processing: super monolithic integrated circuits N204(TMPA8803CSN). 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 (2SD2499), Horizontal flying back transformer T402 (JF0501-19908).
- (4) Switch power supply: switch transformer T501 (BCK-08A6), power transistor V503 (2SC4584).
- (5) AV switch integrated circuits N203 (TC24C08).

A2. Main integrated circuits:

(1) TMPA8803CSN Microprocessor

Picture IF/sound IF/video processing/H and V

Scan/color decoding

(2) TDA2611 Vertical output integrated circuits

(3) LA7840 Sound power amplifying integrated circuits

A3. Electrical circuit analysis

1 Microprocessor and Small signal processing: super monolithic integrated circuits: TMPA8803CSN

TMPA8803CSN 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

| | | Working | | Ground Resistance (R) | |
|------|----------|---------|----------|-----------------------|--|
| Step | Function | Voltage | Positive | Negative | |
| | | (V) | (Ω) | (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 CIOCK | 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 34 | SIF SIGNAL INPUT AND LEVEL REVIS | 2.9 2.2 | 750 750 | 5000 |
| 35 | DC FEEDBACK PIF PLL | 2.4 | 750 500 | 1400 1500 |
| 36 | +5 VCC | 2.4 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 |
| | Y/C VCC +5 | 5 | | |
| 45 | MONITOR OUTPUT | 1.9 | 650 | 2200 |
| 46 | BLACK EXTEND | 1.8 | 750 | 5000 |
| 44 45 | Y/C VCC +5 MONITOR OUTPUT | 5 1.9 | 600 650 | 1100 2200 |

| 47 | COLOR DECODE PLL | 2.5 | 0 | 5000 |
|----|---|-----|-----|-------|
| 48 | GND | | 100 | 0 |
| | GIVD | 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 | NC | 0.1 | 600 | 12500 |
| 60 | TUNE VOLTAGE | 4.4 | 600 | 10000 |
| 61 | AV CHOICE CONTROL | 0.2 | 600 | 10000 |
| 62 | HORIZONTAL SYNCHRONIZATION | 4.5 | 600 | 12500 |
| | SIGNAL | _ | | |
| 63 | REMOTE CONTROL INPUT | 5 | 600 | 12500 |
| 64 | SLEEP 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(TMP8803SN). 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 (0.22u) connected to (39) of N204 (TMP8803SN),.

3. Analysis of sound power amplifying circuits

Sound power amplifying circuits are composed of integrated circuitsTDA2611 and peripheral components. TDA2611 is an integrated electrical circuit. Information introducing functions and testing data for TDA2611 maintenance is listed in Table 4. T if a cylindrical color card is installed then a fluke III digital multimeter is used.

Table 4

| Na | Function | Working | Grounding Resistance (R) | |
|-----|------------------------|-------------|--------------------------|------------|
| No. | Function | Voltage (V) | Positive | Negative |
| | | | (Ω) | (Ω) |
| 1 | +16V POWER SUPPLY | 16 | 0.43 | 1.8 |
| 2 | AMPLIFIED AUDIO SIGNAL | 7.5 | 0.58 | 1.6 |
| | OUTPUT | 1.5 | 0.56 | 1.0 |
| 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 (TMP8803SN) to (5) of vertical scan output IC N402 (LA7840). The external resistor R443 ($5.6\mathrm{K}\Omega$) of N204 (16) provides a reference current to the vertical tooth wave generator. The external capacitor C244 ($0.1\mathrm{uF}$) 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

| | | Working | Grounding R | esistance (R) |
|-----|---------------------------|---------|-------------|---------------|
| No. | Function | Voltage | Positive | Negative |
| | | (V) | (Ω) | (Ω) |
| 1 | GROUND | 0 | 0 | 0 |
| 2 | VERTICAL SCAN WAVE OUTPUT | 13 | 0.45 | 1.9 |
| 3 | PUMP UP OUT | 25 | 0.5 | 8 |
| 4 | VERTICAL RAMP WAVE INPUT | 0.95 | 0.9 | 1.25 |
| 5 | WAVE CORRECTION | 0.75 | 0.68 | 1.75 |
| 6 | +25V POWER SUPPLY | 25 | 0.5 | 2.95 |
| 7 | VERTICAL SYNC DETECT | 0.83 | 0.65 | 1.3 |

4. Analysis of horizontal sync and horizontal scan output circuits

As the horizontal oscillation circuit is installed inside N204 (TMP8803SN), . 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 (2SD2499) 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 (8) 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. B, G and R 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 VD501 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 (2SC4584). V503, 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 C515. 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 RP501 and V506 are transmitted to V501 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 C561 and the resultant +180V direct current voltage is supplied. The pulse voltage output from (16) is rectified and filtered by VD516 and C552 and the resultant +19V direct current voltage is supplied to the sound power amplifying circuits. The pulse voltage output from (15) is rectified

and filtered via VD515 and C542 to obtain +25V direct current voltage to supply the vertical scan IC. The pulse voltage output from (14) is rectified and filtered via VD513 and C532 to obtain +15V 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.

B. Service mode and adjusting items and data

1. Factory adjustment information

Operation method: after the appliance is switched on, make the volume value to zero. Then press "\(\pi\)" 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.

Maintenance menu (Table 8)

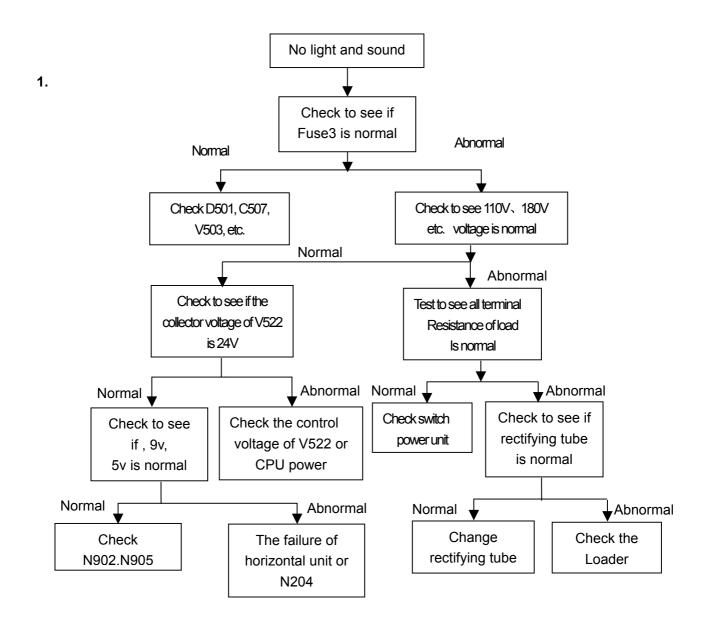
| Item | Specifications | Default Value | Variable Mark |
|------|---------------------------|---------------|------------------|
| RCUT | RED CUT OFF BALANCE | 20 | * |
| GCUT | GREEN CUT OFF BALANCE | 20 | * |
| BCUT | BLUE CUT OFF BALANCE | 20 | * |
| GDRV | GREEN DRIVE BALANCE | 40 | * |
| BDRV | BLUE DRIVE BALANCE | 40 | * |
| CNTX | CONTRAST MAX VALUE | 3F | |
| BRTC | BRIGHTNESS | 48 | |
| COLC | NTSC COLOUR CENTER VALUE | 40 | |
| TNTC | TINT CENTER VALUE | 40 | |
| COLP | PAL COLOUR CENTER VALUE | 20 | |
| COLS | SECAM COLOUR CENTER VALUE | 40 | |
| SCNT | SUB CONTRAST | 0B | |
| CNTC | SUB CONTRAST CENTER VALUE | 30 | |
| CNTN | SUB CONTRAST MIN VALUE | 00 | |
| BRTX | SUB BRIGHTNESS MAX VALUE | 30 | |
| BRTN | SUB BRIGHTNESS MIN VALUE | 30 | |
| COLX | SUB COLOUR MAX VALUE | 35 | |
| COLN | SUB COLOUR MIN VALUE | 00 | |
| TNTX | SUB TINT MAX VALUE | 28 | |
| TNTN | SUB TINT MIN VALUE | 28 | |

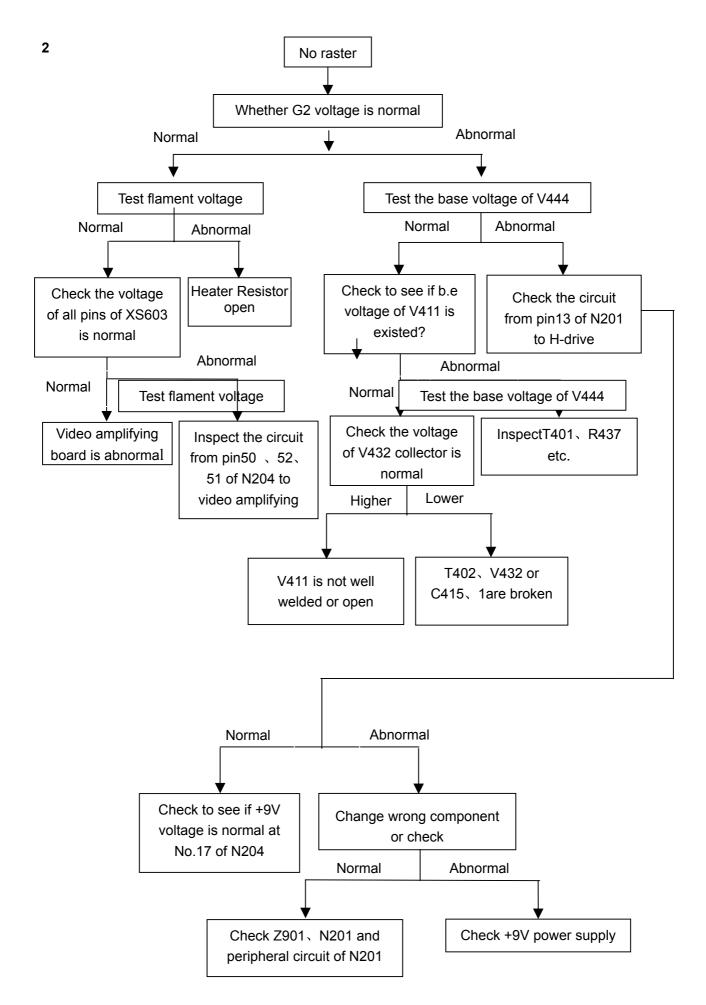
| ST3 | TV-3.58 SHARPNESS | 25 | |
|--------------|---|----------|----------|
| SV3 | AV-3.58 SHARPNESS | 25 | |
| ST4 | TV-4.43 SHARPNESS | 25 | |
| SV4 | AV-4.43 SHARPNESS | 25 | |
| SHPX | SHARPNESS MAX VALUE | 35 | |
| SHPN | SHARPNESS MIN VALUE | 35 | |
| TXCX RGCN | OSD CONTRAST MAX VALUE OSD CONTRAST MIN VALUE | 35 25 | |
| VM0 | VCD DATUM0 | 0E | |
| VM1 | VCD DATUM1 | 00 | |
| HPOS | 50Hz HORIZONTAL POSITION | 00 | * |
| VP50 | 50Hz VERTICAL POSITION | 00 | * |
| HIT | 50Hz VERTICAL HEIGHT | 14 | * |
| HPS | 50/60Hz HORIZONTAL POSITION | 03 | * |
| VP60 | 60Hz VERTICAL POSITION | 00 | * |
| HITS | 50/60Hz VERTICAL HEIGHT | 01 | * |
| VLIN | 50Hz VERTICAL LINEAR CORRECTION | 0C | * |
| VSC | VERTICAL S CORRECTION | 06 | * |
| VLIS | 50/60Hz VERTICAL LINEAR CORRECTION | FE | * |
| DPC | 50Hz PINCUSHION CORRECTION | 00 | <u> </u> |
| DPCS | 50/60Hz PINCUSHION CORRECTION | 00 | |
| KEY | 50Hz TRAPEZIUM CORRECTION | 00 | |
| | | | |
| KEYS | 50/60Hz TRAPEZIUM CORRECTION | 00 | |
| WID | 50Hz HORIZONTAL WIDTH | 00 | |
| WIDS | 50/60Hz HORIZONTAL WIDTH | 00 | |
| VCP | VERTICAL COMPENSATION | 00 | |
| CNR | CONNER CORRECTION | 00 | |
| HCP | HORIZONTAL COMPENSATION | 00 | |
| SBY | SECAM B-Y | 08 | |
| SRY | SECAM R-Y | 08 | |
| RAGC | RADIO FREQUENCY AGC | 23 | |
| AFT | AUTO FREQUENCY TRACE | 15 | |
| HAFC | HORIZONTAL AUTO FREQUENCY CONTROL | 00 | |
| V25 | 25 PERCENT OF VOLUME | 25 | |
| V50 | 50 PERCENT OF VOLUME | 50 | |
| BRTS | SUB BRIGHTNESS | 00 | |
| VM2 | SYS | 30 | |
| MOD0 | MODE0 | 00 | |
| MOD1 | MODE1 | 02 | |
| MOD2 | MODE2 | 0C | |
| SELF | ROM DATA CHECK SELF | 00 | |
| SELF VOC | VCO CHECK SELF | 80 | |
| SELF AGC | AGC CHECK SELF | 80 | |
| SELF BRTC | BRIGHTNESS CENTER VALUE CHECK SELF | 75 | |
| SELF CNTC | CONTRAST CENTER VALUE CHECK SELF | 23 | |
| SELF TNTC | TINT CENTER VALUE CHECK SELF | 00 | |

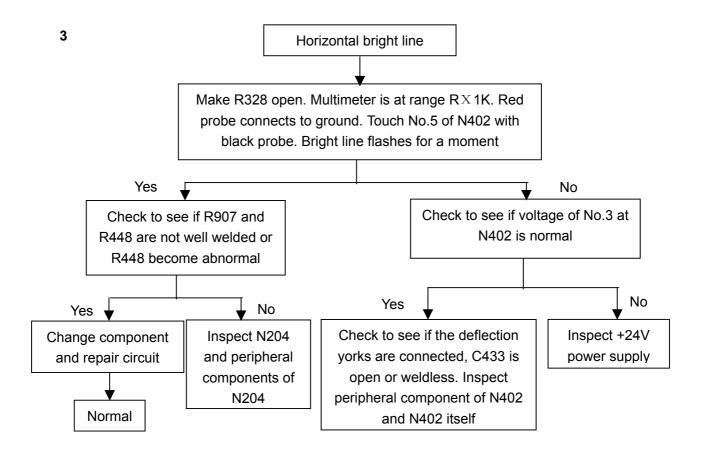
| SELF COL | COLOUR CENTER VALUE CHECK SELF | 20 | |
|----------|--------------------------------|----|--|
| OSD | OSD POSITION | 07 | |
| OPT | OPTION | 07 | |

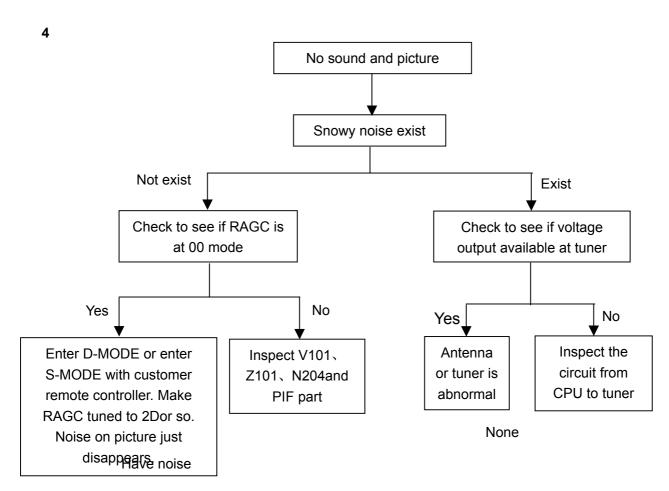
You can change the DATA with "*" mark when necessary.

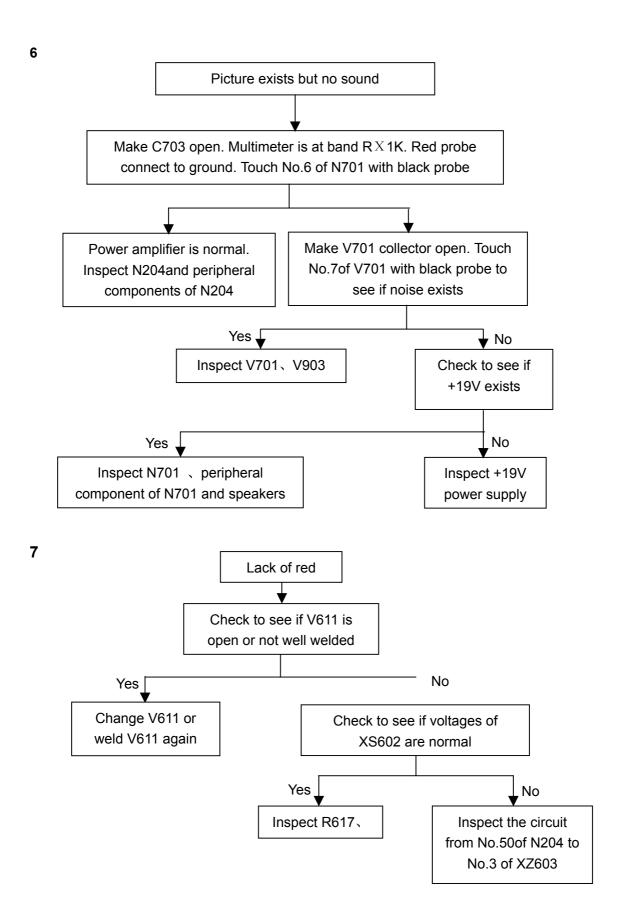
C. Error Detection Process











VII. ELECTRICAL ADJUSTMENT

A. Safety precautions

- 1. It is safe to adjust after using insulating transformer between the power supply and chassis input to prevent the risk of electric shock and protect the instrument.
- 2. Never disconnect leads while the TV receiver is on.
- 3. Don't short any portion of circuits while power is on.
- 4. The adjustment must be done by the correct appliances. But this is changeable in view of productivity.

B. Adjustment procedure

The chassis of this TV set uses Toshiba IC with the latest digital bus processing technology. The adjustment points are fewer and the adjustment is simpler. The adjustment method is as follows:

- 1. +B: 115±0.3V adjustment.
- 1) Switch on the power and connect PAL circular signals to the tuner.
- 2) Adjust variable resistor RP501 until the voltage of the main power is 115±0.3V.
- 2. Screen voltage adjustment.
- 1) Switch on the power and receive PAL system circular signal. Warm up the TV set for 15 min.
- 2) Enter the adjustment D state. Press the "-/--" button, then a bright horizontal line appears. Adjust screen potentiometer to let the horizontal line just appears.
- 3. Focus adjustment.
- 1) Receive electronic circular signal.
- 2) Set picture mode on standard mode.
- 3) Adjust focus potentiometer until the optimum picture is achieved.
- 4. White balance adjustment.
- 1) Set the picture mode on standard mode.
- 2) Enter the D state and adjust RCUT, GCUT, BCUT, GDRV and BDRV.
- 3) Coordinate of reference white color: (X=0.281, Y=0.311).
- 6. Adjustment of horizontal and vertical position and size.
- 1) Switch on the power and connect the signals to the tuner to receive PAL/NTSC system circular signal.
- 2) Enter the D state. Adjust HPOS to change the horizontal position and VP50 to change the vertical position. Adjust HIT to change the vertical size until the vertical size is 90-92%. Horizontal size is related to the capacitor C416. Hold the

horizontal size is 90-92%.

8. Adjustment of character positions

Adjust OSD for the horizontal positions of the screen menu.

VIII. INFORMATION OF RESISTORS AND CAPACITORS

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

Numbering system of resistor

Example

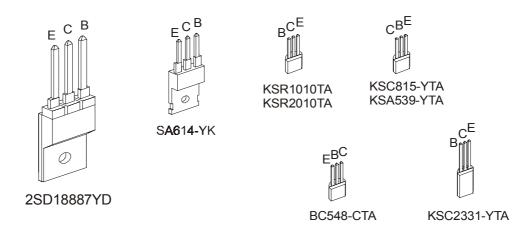
RY17S----
$$2W$$
---- 390 ---- J ---- 05 -E-ATypeWattageValue($Ω$)ToleranceRS11---- $1/2W$ ---- K TypeWattageValueTolerance

ABBREVIATION OF PART NAME AND DESCRIPTION RESISTOR CAPACITOR

| PAI | PART NAME & DESCRIPTION | | | | |
|------|-------------------------|-----|-----------|--|--|
| TYPE | | ALL | LOWANCE | | |
| Т | Carbon | F | ±1% | | |
| S | Solid | ٦ | $\pm 5\%$ | | |
| J | Metal | K | \pm 10% | | |
| Υ | Oxide | М | \pm 20% | | |
| F | Fuse | G | \pm 2% | | |

| | PART NAME & DESCRIPTION | | | | | | |
|---|-------------------------|-----------|------------|--|--|--|--|
| | TYPE | ALLOWANCE | | | | | |
| С | Ceramic | J | \pm 5% | | | | |
| Т | Ceramic | K | \pm 10% | | | | |
| L | Film | L | \pm 15% | | | | |
| D | Electrolytic | М | $\pm 20\%$ | | | | |
| Α | Tantalum | Р | +100%-0% | | | | |
| | - | Z | +80%-0% | | | | |

Terminal view of transistors



IX. DAMAGEABLE PARTS LIST REPLACEMENT PARTS LIST

| Location Code | Part Name | Specification | Stock Number |
|------------------|---------------------------|-----------------|--------------|
| XS601 | CRT SOCKET | GZS8-6-5 | 0094300098 |
| V613 | SWITCH transistor | 2SC4584 | 0094400663 |
| FU501 | FUSE | T2.5A-250V | 0094000150 |
| C507 | al electrolytic capacitor | 400-USR-150uF-M | 0094201434 |
| N902 | IC | KSA24C04 | 0094400542 |
| N402 | IC | TA8403K | 0094400352 |
| SW501 | SWITCH | KDC-A06 | 0094000370 |
| A901 | RECEIVE | HS0038A2 | 0094000136 |
| U101 | TUNER | TDC-3G2-9V | 0094000151 |
| V432 | H transistor | 2SD1651 | 0094400465 |
| | | | |

BOM

| serial number | haier 126 | element list | | compact code: 000854 | |
|---------------|--------------------------|------------------------|--------|----------------------|--|
| serial number | | | | | |
| | parts code P | module | amount | PCB place code | |
| | large module 1RC | carbon film resistance | | F | |
| 1 | D10B4R7.J-T | 1/6W 4.7 | 1 | R444 | |
| | D10B4R7J-T | 1700 177 | | R701 | |
| | D10B330 I-T | 1/6W 33 | | R113 | |
| | D10B101.J-T | 1/6W 100 | | R204 | |
| | D10B101J-T | 1/6W 100 | 1 | R205 | |
| 6 | D10B101J-T | 1/6W 100 | 1 | R206 | |
| 7 | D10B101J-T | 1/6W 100 | 1 | R207 | |
| 8 | D10B101J-T | 1/6W 100 | 1 | R208 | |
| 9 | D10B101J-T | 1/6W 100 | | R209 | |
| | D10B101J-T | 1/6W 100 | | R210 | |
| | D10B101J-T | 1/6W 100 | | R211 | |
| | D10B101J-T | 1/6W 100 | | R212 | |
| | D10B101J-T | 1/6W 100 | | R213 | |
| | D10B101J-T | 1/6W 100 | | R214 | |
| | D10B101J-T | 1/6W 100 | | R215 | |
| | D10B101J-T | 1/6W 100 | | R216 R217 | |
| | D10B101J-T D10B151J-T | 1/6W 100 1/6W 150 | | R218 | |
| | D10B151J-T | 1/6W 150 | | R219 | |
| | D10B131J-T | 1/6W 220 | | R220 | |
| | D10B221J-T | 1/6W 220 | | R221 | |
| | D10B221J-T | 1/6W 220 | | R222 | |
| | D10B221J-T | 1/6W 220 | | R223 | |
| | D10B221J-T | 1/6W 220 | | R224 | |
| | D10B271J-T | 1/6W 270 | 1 | R225 | |
| | D10B271J-T | 1/6W 270 | 1 | R226 | |
| | D10B271J-T | 1/6W 270 | 1 | R227 | |
| 28 | D10B271J-T | 1/6W 270 | | R228 | |
| 29 | D10B391J-T | 1/6W 390 | 1 | R229 | |
| 30 | D10B471J-T | 1/6W 470 | 1 | R230 | |
| | D10B561J-T | 1/6W 560 | | R231 | |
| | D10B561J-T | 1/6W 560 | | R232 | |
| | D10B681J-T | 1/6W 680 | | R233 | |
| | D10B681J-T | 1/6W 680 | | R234 | |
| | D10B681J-T | 1/6W 680 | 1 | R235 | |
| | D10B681J-T | 1/6W 680 | 1 | R236 | |
| | D10B102J-T | 1/6W 1K | | R237 | |
| | D10B102J-T | 1/6W 1K | | R238 | |
| | D10B102J-T | 1/6W 1K | | R239 | |
| | D10B102J-T | 1/6W 1K | | R240 | |
| | D10B102J-T | 1/6W 1K | | R241 | |
| | D10B102J-T D10B102J-T | 1/6W 1K | | R242 R243 | |
| | D10B102J-T | 1/6W 1K 1/6W 1K | | R244 | |
| | D10B122J-T | 1/6W 1. 2K | | R245 | |
| | D10B152.J-T | 1/6W 1.5K | | R246 | |
| | D10B152J-T | 1/6W 1.5K | | R247 | |
| | D10B152 I-T | 1/6W 1.5K | | R248 | |
| | D10B152J-T | 1/6W 1.5K | | R249 | |
| | D10B222J-T | 1/6W 2. 2K | | R250 | |
| | D10B222J-T | 1/6W 2. 2K | | R251 | |
| 52 | D10B332J-T | 1/6W 3.3K | 1 | R252 | |
| 53 | D10B332J-T | 1/6W 3.3K | | R253 | |
| | D10B332J-T | 1/6W 3.3K | | R254 | |
| | D10B332J-T | 1/6W 3.3K | | R255 | |
| | D10B392J-T | 1/6W 3.9K | | R256 | |
| | D10B392J-T | 1/6W 3. 9K | | R257 | |
| | D10B392J-T | 1/6W 3. 9K | | R258 | |
| | D10B392J-T | 1/6W 3. 9K | | R259 | |
| | D10B392J-T | 1/6W 3.9K | | R260 | |
| | D10B392J-T | 1/6W 3.9K | | R261 | |
| | D10B472J-T | 1/6W 4.7K | | R262 | |
| | D10B472J-T | 1/6W 4.7K 1/6W 4.7K | | R263 | |
| | D10B472J-T D10B472J-T | 1/6W 4.7K | | R264 R265 | |
| | D10B562J-T | 1/6W 5. 6K | | R266 | |
| | D10B562J-T | 1/6W 5. 6K | | R267 | |
| 60 | D10B562J-T | 1/6W 5. 6K | | R268 | |
| | D10B562J-T | 1/6W 5. 6K | | R269 | |
| | D10B822J-T | 1/6W 8. 2K | | R270 | |
| | D10B822J-T | 1/6W 8. 2K | | R271 | |
| | D10B103J-T | 1/6W 10K | | R272 | |
| | D10B103J-T | 1/6W 10K | | R273 | |
| | D10B103J-T | 1/6W 10K | | R274 | |
| 74 | | 1-/ | | | |
| | D10B103.J-T | 1/6W 10K | 1 | R275 | |

| Tributation 1 | | | | | |
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| Telephone Tele | | | 1/6W 10K | | |
| Methodology | | | | | |
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| 880 10 10 10 10 10 10 10 | | | | 1 R288 | |
| State | 89 | D10B103J-T | 1/6W 10K | | |
| SEDIODESIST | 90 | D10B123J-T | | 1 R290 | |
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| 103 1049223 T | | | | | |
| 104 D1092231-T | | | | | |
| 106 1082231-T | 104 | D10B223J-T | 1/6W 22K | 1 R304 | |
| 107 108223 T | | | | | |
| 108 108333 T | | | | | |
| 109 108333 T | | | | | |
| 110 108333 T | | | | | |
| 111 D108333]-T | | | | | |
| 112 D108473]-T | | | | | |
| 113 1068473 T | | | | | |
| 114 D108833- T | | | | | |
| 115 106 104 1 | | | | | |
| 116 106 104 1-T | | | | | |
| 117 108 104 1-T | | | | | |
| 118 108 124 T | | | | | |
| 120 D108334]-T | | | | | |
| 121 1016564 T | 119 | D10B224J-T | 1/6W 220K | 1 R319 | |
| 122 DIOC2R2 -T | 120 | D10B334J-T | 1/6W 330K | | |
| 123 D102330 T | | | | | |
| 124 DIOCAT1 T | | | | | |
| 125 DIOC182J-T | | · | | | |
| 126 D10C272]-T | | | | | |
| 127 D102392 -T | | | | | |
| 128 D10C472 -T | | | | | |
| 129 DIOC163, T | 127 | D10C392J-1 D10C472I_T | | | |
| 130 D10C153]-T | | | | | |
| 131 D10C473]-T | | | | | |
| 132 D10C473]-T | | | | 1 R331 | |
| 133 D10C154J-T | | | | | |
| 135 D10331 T | | | | | |
| 136 D10D331 T | 134 | D10D221J-T | 1/2W 220 | 1 R334 | |
| 137 D10D102]-T | | | | | |
| 138 D10D332 J - T | | _ | | | |
| 139 D10D332_J-T | | | | | |
| 140 D10D332 J-T 1/2W 3. 3K 1 R340 141 D10D332 J-T 1/2W 3. 3K 1 R341 142 D10D472 J-T 1/2W 4. 7K 1 R342 143 D10D123 J-T 1/2W 12K 1 R343 144 D10D473 J-T 1/2W 22K 1 R344 145 D10D224 J-T 1/2W 220K 1 R345 146 large module 1RF insure resistance 1 147 F10DR47 J-C 1/2W 0. 47 1 R558 148 F10D1R0 J-C 1/2W 1. 0 1 R573 149 F10D1R5 J-C 1/2W 1. 5 1 R550 150 large module 1RO oxidation film resistance 1 151 S10E1R8 J-C 1W 1. 8 1 R445 152 S10E124 J-C (A) 1W 120K (span 12. 5mm) 1 R520 153 S10E124 J-C (A) 1W 120K (span 12. 5mm) 1 R521 154 S10F2R0 J-C 2W 2. 0 1 R631 155 S10F680 J-C 2W 68 1 R580 157 S10F151 J-C 2W 150 1 R550 1 R574 1 R580 1 R574 1 R580 1 R574 1 R574 1 R340 | | | | | |
| 141 D10D332 T 1/2W 3.3K 1 R341 142 D10D472 T 1/2W 4.7K 1 R342 143 D10D123 T 1/2W 12K 1 R343 144 D10D473 T 1/2W 22K 1 R344 145 D10D224 T 1/2W 220K 1 R345 1 R | | | | | |
| 142 D10D472_J-T 1/2W 4.7K 1 R342 143 D10D123_J-T 1/2W 12K 1 R343 144 D10D473_J-T 1/2W 47K 1 R344 145 D10D224_J-T 1/2W 220K 1 R345 146 large module 1RF insure resistance 1 147 F10DR47_J-C 1/2W 0.47 1 R558 148 F10DIR0_J-C 1/2W 1.0 1 R573 149 F10D1R5_J-C 1/2W 1.5 1 R550 150 large module 1R0 oxidation film resistance 1 151 S10E1R8_J-C 1W 1.8 1 R445 152 S10E124_J-C(A) 1W 120K(span 12.5mm) 1 R520 153 S10E124_J-C(A) 1W 120K(span 12.5mm) 1 R521 154 S10F2R0_J-C 2W 2.0 1 R631 155 S10F680_J-C 2W 68 1 R525 156 S10F680_J-C 2W 68 1 R580 157 S10F151_J-C 2W 150 1 R574 | | | | | |
| 143 D10D123J-T 1/2W 12K 1 R343 144 D10D473J-T 1/2W 247K 1 R344 145 D10D224J-T 1/2W 220K 1 R345 146 large module 1RF insure resistance 1 147 F10DR47J-C 1/2W 0. 47 1 R558 148 F10D1R0J-C 1/2W 1. 0 1 R573 149 F10D1R5J-C 1/2W 1. 5 1 R550 150 large module 1R0 oxidation film resistance 1 151 S10E1R8J-C 1W 1. 8 1 R445 152 S10E124J-C(A) 1W 120K (span 12. 5mm) 1 R520 153 S10E124J-C(A) 1W 120K (span 12. 5mm) 1 R521 154 S10F2R0J-C 2W 2. 0 1 R631 155 S10F680J-C 2W 68 1 R525 156 S10F680J-C 2W 68 1 R580 157 S10F151J-C 2W 150 1 R574 | | | | | |
| 144 D10D473 J-T 1/2W 47K 1 R344 145 D10D224 J-T 1/2W 220K 1 R345 146 large module 1RF insure resistance 1 147 F10DR47 J-C 1/2W 0. 47 1 R558 148 F10D1R0 J-C 1/2W 1. 0 1 R573 149 F10D1R5 J-C 1/2W 1. 5 1 R550 150 large module 1RO oxidation film resistance 1 151 S10E1R8 J-C 1W 1. 8 1 R445 152 S10E124 J-C (A) 1W 120K (span 12. 5mm) 1 R520 153 S10E124 J-C (A) 1W 120K (span 12. 5mm) 1 R521 154 S10F2R0 J-C 2W 2. 0 1 R631 155 S10F680 J-C 2W 68 1 R525 156 S10F680 J-C 2W 68 1 R580 157 S10F151 J-C 2W 150 1 R574 | | | | | |
| 145 D10D224J-T 1/2W 220K 1 R345 146 large module 1RF insure resistance 1 147 F10DR47J-C 1/2W 0.47 1 R558 148 F10DIR0J-C 1/2W 1.0 1 R573 149 F10D1R5J-C 1/2W 1.5 1 R550 150 large module 1RO oxidation film resistance 1 151 S10E1R8J-C 1W 1.8 1 R445 152 S10E124J-C(A) 1W 120K (span 12.5mm) 1 R520 153 S10E124J-C(A) 1W 120K (span 12.5mm) 1 R521 154 S10F2R0J-C 2W 2.0 1 R631 155 S10F680J-C 2W 68 1 R525 156 S10F680J-C 2W 68 1 R580 157 S10F151J-C 2W 150 1 R574 | | | | | |
| 146 large module 1RF insure resistance 1 147 F10DR47J-C 1/2W 0. 47 1 R558 148 F10D1R0J-C 1/2W 1. 0 1 R573 149 F10D1R5J-C 1/2W 1. 5 1 R550 150 large module 1RO oxidation film resistance 1 151 S10E1R8J-C 1W 1. 8 1 R445 152 S10E124J-C(A) 1W 120K (span 12. 5mm) 1 R520 153 S10E124J-C(A) 1W 120K (span 12. 5mm) 1 R521 154 S10F2R0J-C 2W 2. 0 1 R631 155 S10F680J-C 2W 68 1 R525 156 S10F680J-C 2W 68 1 R580 157 S10F151J-C 2W 150 1 R574 | | | | | |
| 147 F10R47J-C 1/2W 0.47 1 R558 148 F10D1R0J-C 1/2W 1.0 1 R573 149 F10D1R5J-C 1/2W 1.5 1 R550 150 large module 1R0 oxidation film resistance 1 151 S10E1R8J-C 1W 1.8 1 R445 152 S10E124J-C(A) 1W 120K (span 12.5mm) 1 R520 153 S10E124J-C(A) 1W 120K (span 12.5mm) 1 R521 154 S10F2R0J-C 2W 2.0 1 R631 155 S10F680J-C 2W 68 1 R525 156 S10F680J-C 2W 68 1 R580 157 S10F151J-C 2W 150 1 R574 | | | | | |
| 148 F10D1R0J-C 1/2W 1. 0 1 R573 149 F10D1R5J-C 1/2W 1. 5 1 R550 150 large module 1R0 oxidation film resistance 1 151 S10E1R8J-C 1W 1. 8 1 R445 152 S10E124J-C(A) 1W 120K (span 12. 5mm) 1 R520 153 S10E124J-C(A) 1W 120K (span 12. 5mm) 1 R521 154 S10F2R0J-C 2W 2. 0 1 R631 155 S10F680J-C 2W 68 1 R525 156 S10F680J-C 2W 68 1 R580 157 S10F151J-C 2W 150 1 R574 | | | | | |
| 149 F10D1R5J-C 1/2W 1.5 1 R550 150 large module 1R0 oxidation film resistance 1 151 S10E1R8J-C 1W 1.8 1 R445 152 S10E124J-C (A) 1W 120K (span 12.5mm) 1 R520 153 S10E124J-C (A) 1W 120K (span 12.5mm) 1 R521 154 S10F2R0J-C 2W 2.0 1 R631 155 S10F680J-C 2W 68 1 R525 156 S10F680J-C 2W 68 1 R580 157 S10F151J-C 2W 150 1 R574 | | | | | |
| 150 large module 1RO oxidation film resistance 1 | | _ | | | |
| 151 S10E1R8J-C 1W 1.8 1 R445 152 S10E124J-C (A) 1W 120K (span 12.5mm) 1 R520 153 S10E124J-C (A) 1W 120K (span 12.5mm) 1 R521 154 S10F2R0J-C 2W 2.0 1 R631 155 S10F680J-C 2W 68 1 R525 156 S10F680J-C 2W 68 1 R580 157 S10F151J-C 2W 150 1 R574 | | | | 1 | |
| 152 S10E124J-C(A) | | | | 1 R445 | |
| 153 \$10E124J-C(A) 1W 120K (span 12.5mm) 1 R521 154 \$10F2R0J-C 2W 2.0 1 R631 155 \$10F680J-C 2W 68 1 R525 156 \$10F680J-C 2W 68 1 R580 157 \$10F151J-C 2W 150 1 R574 | | | | | |
| 155 S10F680J-C 2W 68 1 R525 156 S10F680J-C 2W 68 1 R580 157 S10F151J-C 2W 150 1 R574 | 153 | S10E124J-C(A) | | 1 R521 | |
| 156 \$10F680J-C 2W 68 1 R580 157 \$10F151J-C 2W 150 1 R574 | | | | | |
| 157 S10F151J-C 2W 150 1 R574 | | | | | |
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| 158 S10F271J-C 2W 270 1 R437 | | | | | |
| | 158 | S10F271J-C | 2W 270 | 1 R437 | |

| 105 107 231-C | | | | | | |
|--|-----|------------------|----------------------|---|--------|--|
| 10 S161831-C 28 185 18646 | 159 | S10F123J-C | 2W 12K | | | |
| 18 SHOP NOT 18 18 18 18 18 18 18 1 | 160 | S10F183J-C | | | | |
| 1885 1692 1987 1985 | 161 | S10F183J-C | 2W 18K | 1 | R626 | |
| 167 large model 185 | 162 | S10F183J-C | 2W 18K | 1 | R616 | |
| 167 large model 185 | 163 | S10F223 I-C | 2W 22K | 1 | R565 | |
| 16 Jarge modulo 18T | 164 | large module 1RS | | 1 | | |
| 16 Jarge modulo 18T | 165 | C10D126K-T | | 1 | R531 | |
| 167 PLOS 169 | | | | | 11001 | |
| 188 Janys module 189 | | | | | PS501 | |
| HoSP 1013288 | | | | | 1 5501 | |
| 170 | | | | | DE00 | |
| 171 HISBOR 28.3, Figure 15mb 1 mail module 1 mail mo | | | | | | |
| 172 International PUR | | | | | | |
| 173 11,00006 208 | | | | | | |
| 174 2C | | | 7.1 | | | |
| 176 176 177 177 180 1 173 1 170 1 170 1 170 | | | | | | |
| 170 CRP 2218 - T SOV 220p 1 C9012 171 CRP 2218 - T SOV 220p 1 C9012 171 CRP 2218 - T SOV 220p 1 C909 170 CRP 2318 - T SOV 230p 1 C602 180 CRP 2318 T SOV 330p 1 C602 180 CRP 2318 T SOV 330p 1 C602 181 CRP 2318 T SOV 330p 1 C602 182 CRP 1028 T SOV 1000p 1 C903 183 CRP 1028 T SOV 1000p 1 C903 184 CRP 1028 T SOV 1000p 1 C903 184 CRP 1028 T SOV 1000p 1 C903 184 CRP 1028 T SOV 1000p 1 C904 185 CRP 1028 T SOV 1000p 1 C904 185 CRP 1028 T SOV 1000p 1 C904 186 CRP 1028 T SOV 20p 1 C902 189 CRP 2018 T SOV 20p 1 C902 191 CRP 1027 T SOV 20p 1 C902 191 CRP 1027 T SOV 20p 1 C210 191 CRP 1027 T SOV 20p 1 C210 | | | | | | |
| 177 C28F218-T SW 220p 1 (902) | | | | | | |
| 176 CBF 2216-T | | | | | | |
| 170 CRESTAILE | | | | | | |
| ISIN CERTAILET SON 30p | 178 | C2BF221K-T | 50V 220p | | | |
| 181 C287318 T 509 330p 1 C612 182 C28F10EN T 509 1000p 1 C934 183 C28F10EN T 509 1000p 1 C551 184 C28F10EN T 509 1000p 1 C551 185 C28F10EN T 509 1500p 1 C246 186 C28F10EN T 509 2700p 1 C334 187 CCCF200.1 T 509 20p 1 6002 188 C2CCF200.1 T 509 20p 1 6002 188 C2CCF200.1 T 509 20p 1 6002 189 C2CCF200.1 T 509 20p 1 6002 189 C2CCF200.1 T 509 20p 1 6002 180 C2CCF200.1 T 509 20p 1 6002 180 C2CCF200.1 T 509 33p 1 C247 190 C2FF1002.7 T 509 0.01u 1 C127 190 C2FF1002.7 T 509 0.01u 1 C202 190 C2FF1002.7 T 509 0.01u 1 C202 190 C2FF1002.7 T 509 0.01u 1 C120 190 C2FF1002.7 T 509 0.01u 1 C120 190 C2FF1002.7 T 509 0.01u 1 C131 190 C2FF1002.7 T 509 0.01u 1 C131 190 C2FF1002.7 T 509 0.01u 1 C131 190 C2FF1002.7 T 509 0.01u 1 C304 190 C2FF1002.7 T 509 0.01u 1 C304 190 C2FF1002.7 T 509 0.01u 1 C304 190 C2FF1002.7 T 509 0.01u 1 C333 200 C2FF1002.7 T 509 0.01u 1 C334 200 C2FF1002.7 T 509 0.01u 1 C335 200 C2F | 179 | C2BF331K-T | 50V 330p | 1 | C602 | |
| ISC CORP 100 1 100 1 100 1 100 1 1 | 180 | C2BF331K-T | 50V 330p | 1 | C622 | |
| ISC CORP 100 1 100 1 100 1 100 1 1 | | | | | | |
| 183 C28F102K-T 50V 1000p 1 C551 184 C28F102K-T 50V 1500p 1 C245 185 C28F102K-T 50V 1500p 1 C244 187 C27F201-T 50V 2700p 1 C244 187 C27F201-T 50V 270 1 C011 189 C27F201-T 50V 27P 1 C011 189 C27F201-T 50V 33p 1 C247 190 C2F1012K-T 50V 0.01u 1 C112 191 C2F1012K-T 50V 0.01u 1 C216 192 C2F1012K-T 50V 0.01u 1 C206 193 C2F1012K-T 50V 0.01u 1 C206 194 C2F1012K-T 50V 0.01u 1 C206 194 C2F1012K-T 50V 0.01u 1 C206 195 C2F1012K-T 50V 0.01u 1 C120 195 C2F1012K-T 50V 0.01u 1 C120 195 C2F1012K-T 50V 0.01u 1 C114 196 C2F1012K-T 50V 0.01u 1 C114 197 C2F1012K-T 50V 0.01u 1 C114 197 C2F1012K-T 50V 0.01u 1 C114 197 C2F1012K-T 50V 0.01u 1 C310 198 C2F1012K-T 50V 0.01u 1 C304 199 C2F1012K-T 50V 0.01u 1 C304 199 C2F1012K-T 50V 0.01u 1 C304 190 C2F1012K-T 50V 0.01u 1 C304 190 C2F1012K-T 50V 0.01u 1 C303 200 C2F1012K-T 50V 0.01u 1 C333 200 C2F1012K-T 50V 0.01u 1 C333 200 C2F1012K-T 50V 0.01u 1 C323 200 C2F1012K-T 50V 0.01u 1 C323 200 C2F1012K-T 50V 0.01u 1 C325 200 C2F1012K-T 50V 0.01u 1 C325 200 C2F1012K-T 50V 0.01u 1 C335 200 C2F1012K-T 50V 0.01u 1 C355 200 C2F1012K-T 50V 0.01u 1 C355 200 C2F1012K-T 50V 0.01u 1 C356 210 C2F1012K-T 50V 0.01u | | | | | | |
| 184 CERPTURE T 50V 1000p | | | | | | |
| 185 CZPF 1827-T | | | _ | | | |
| 186 C28F272K-T | | | | | | |
| 187 (2CP20) T 507 2FP 1 (S01) | | | | | | |
| 188 CZCF270 T | | | | | | |
| 189 C2F330]-T 50V 30p | | | | | | |
| 1916 CSF 1032-T SOV 0.01u 1 C210 | | | | | | |
| 191 C2F G3Z-T | | | | | | |
| 192 CZFF 103Z-T | | | | | | |
| 1936 CZFF103Z-T | | | | | | |
| 194 CZFF103Z-T | | | | | | |
| 196 CFF 1032-T | 193 | C2FF103Z-T | 50V 0.01u | | | |
| 196 C2F1032-T | 194 | C2FF103Z-T | 50V 0.01u | 1 | C120 | |
| 197 C2FF1032-T 50V 0.01u | 195 | C2FF103Z-T | 50V 0.01u | 1 | C114 | |
| 197 C2FF1032-T 50V 0.01u | 196 | C2FF103Z-T | 50V 0.01u | 1 | C113 | |
| 198 C2F1032-T | | | | | | |
| 199 C2FF 103Z-T | | | | | | |
| 200 C2FF1032-T 50V 0. 01u 1 C233 | | | | | | |
| 201 22F1032-T 50V 0.01u 1 C232 | | | | | | |
| 202 C2FF103Z-T 50V 0.01u 1 C22S | | | | | | |
| 203 C2FF103Z-T 50V 0.01u 1 C924 | | | | | | |
| 204 C2FF103Z-T | | | | | | |
| 205 C2FF103Z-T | | | 50V 0.01u | | | |
| 206 C2FF103Z-T 50V 0.01u | 204 | C2FF103Z-T | 50V 0.01u | 1 | C924 | |
| 207 C2FF103Z-T 50V 0.01u | 205 | C2FF103Z-T | 50V 0.01u | 1 | C915 | |
| 207 C2FF103Z-T 50V 0.01u | 206 | C2FF103Z-T | 50V 0.01u | 1 | C913 | |
| 208 C2FF103Z-T | | | | | | |
| 209 C2FF103Z-T | | | | | | |
| 210 C2FF103Z-T 50V 0.01u | | | | | | |
| 211 C2FF103Z-T 50V 0.01u 1 C930 | | | | | | |
| Cause | | | | | | |
| 213 C2BP392K-T 500V 3900p 1 C403 214 C2BP392K-T 500V 3900p 1 C452 215 C2SP100D-T 500V 10p 1 C448 216 C2BP102K-0 1KV 1000p 1 C503 217 C2BW102K-0 1KV 1000p 1 C506 218 C2BW102K-0 1KV 1000p 1 C505 219 C2BW102K-0 1KV 1000p 1 C505 219 C2BW102K-0 1KV 1000p 1 C504 220 C2EX22Z-0 2KV 2200P 1 C630 221 C2KX221K-0 2KV 220p (span 7.5mm) 1 C556 222 C2RX471K-0 2KV 470p 1 C555 223 C2EX681K-0 2KV 680p 1 C516 224 C2EM102M-0 AC 250V 1000p 1 C535 225 large module 2CE aluminum electrolysis capacitance 1 226 E20C4R7M 16V 4.7u 1 C291 227 E20C4R7M 16V 4.7u 1 C296 228 E20C4R7M 16V 4.7u 1 C292 229 E20C100M 16V 10u 1 C393 230 E20C100M 16V 10u 1 C396 231 E20C100M 16V 10u 1 C396 232 E20C100M 16V 10u 1 C396 233 E20C100M 16V 10u 1 C394 233 E20C20M 16V 47u 1 C294 233 E20C20M 16V 47u 1 C294 233 E20C470M 16V 47u 1 C294 233 E20C470M 16V 47u 1 C294 233 E20C470M 16V 47u 1 C293 236 E20C470M 16V 47u 1 C294 238 E20C470M 16V 47u 1 C238 236 E20C470M 16V 47u 1 C338 237 E20C470M 16V 47u 1 C338 238 E20C470M 16V 47u 1 C348 239 E20C470M 16V 47u 1 C338 230 E20C470M 16V 47u 1 C348 230 E20C470M 16V 47u 1 C348 230 E20C470M 16V 47u 1 C338 230 E20C470M 16V 47u 1 C348 230 | | | | | | |
| 214 C2BP392K-T 500V 3900p 1 C452 | | | | | | |
| 215 C2SP100D-T 500V 10p 1 C448 | | | | | | |
| 216 C2BW102K-0 1KV 1000p 1 C503 217 C2BW102K-0 1KV 1000p 1 C506 218 C2BW102K-0 1KV 1000p 1 C505 219 C2BW102K-0 1KV 1000p 1 C504 220 C2EX22Z7-0 2KV 2200P 1 C630 221 C2RX221K-0 2KV 220p (span 7.5mm) 1 C556 222 C2RX21K-0 2KV 220p (span 7.5mm) 1 C556 222 C2RX41K-0 2KV 470p 1 C555 223 C2RX681K-0 2KV 600p 1 C516 224 C2EM102M-0 AC 250V 1000p 1 C535 225 large module 2CE aluminum electrolysis capacitance 1 226 E20C4R7M 16V 4.7u 1 C291 227 E20C4R7M 16V 4.7u 1 C296 228 E20C100M 16V 10u 1 C292 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C306 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C306 233 E20C100M 16V 10u 1 C306 234 E20C470M 16V 47u 1 C294 234 E20C470M 16V 47u 1 C294 235 E20C470M 16V 47u 1 C298 236 E20C470M 16V 47u 1 C298 237 E20C470M 16V 47u 1 C298 238 E20C470M 16V 47u 1 C238 239 E20C470M 16V 47u 1 C238 230 E20C470M 16V 47u 1 C238 231 E20C470M 16V 47u 1 C238 232 E20C470M 16V 47u 1 C238 233 E20C470M 16V 47u 1 C306 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C238 236 E20C470M 16V 47u 1 C238 237 E20C470M 16V 47u 1 C238 238 E20C470M 16V 47u 1 C238 239 E20C470M 16V 47u 1 C238 230 E20C470M 16V 47u 1 C238 230 E20C470M 16V 47u 1 C238 231 E20C470M 16V 47u 1 C238 232 E20C470M 16V 47u 1 C238 233 E20C470M 16V 47u 1 C238 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C238 236 E20C470M 16V 47u 1 C238 237 E20C470M 16V 47u 1 C238 238 E20C470M 16V 47u 1 C238 230 E20C470M 16V 47u 1 C238 230 E20C470M 16V 47u 1 C240 231 E20C470M 16V 47u 1 | | | | | | |
| 217 C2BW102K-0 | | | A . | | | |
| 218 C2BW102K-0 1KV 1000p 1 C505 219 C2BW102K-0 1KV 1000p 1 C504 220 C2EX222Z-0 2KV 2200P 1 C630 221 C2RX221K-0 2KV 220p (span 7.5mm) 1 C556 222 C2RX471K-0 2KV 470p 1 C555 223 C2RX681K-0 2KV 680p 1 C516 224 C2EM102M-0 AC 250V 1000p 1 C535 225 large module 2CE aluminum electrolysis capacitance 1 226 E20C4R7M 16V 4.7u 1 C291 227 E20C4R7M 16V 4.7u 1 C296 228 E20C4R7M 16V 4.7u 1 C292 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C20M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C238 | | | | | | |
| 219 C2BW102K-0 | | | | | | |
| 220 C2EX2227-0 2KV 2200P 1 C630 221 C2RX221K-0 2KV 220p (span 7.5mm) 1 C556 222 C2RX471K-0 2KV 470p 1 C555 223 C2RX681K-0 2KV 680p 1 C516 224 C2EM102M-0 AC 250V 1000p 1 C535 225 large module 2CE aluminum electrolysis capacitance 1 226 E20C4R7M 16V 4.7u 1 C291 227 E20C4R7M 16V 4.7u 1 C296 228 E20C4R7M 16V 4.7u 1 C292 229 E20C100M 16V 10u 1 C33 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C306 233 E20C20M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | | | | |
| 221 C2RX221K-0 2KV 220p (span 7.5mm) 1 C556 222 C2RX471K-0 2KV 470p 1 C555 223 C2RX681K-0 2KV 680p 1 C516 224 C2EM102M-0 AC 250V 1000p 1 C535 225 large module 2CE aluminum electrolysis capacitance 1 226 E20C4R7M 16V 4.7u 1 C291 227 E20C4R7M 16V 4.7u 1 C296 228 E20C4R7M 16V 4.7u 1 C292 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C220M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | | | | |
| 222 C2RX471K-0 2KV 470p 1 C555 223 C2RX681K-0 2KV 680p 1 C516 224 C2EM10H-0 AC 250V 1000p 1 C535 225 large module 2CE aluminum electrolysis capacitance 1 226 E20C4R7M 16V 4. 7u 1 C291 227 E20C4R7M 16V 4. 7u 1 C296 228 E20C4R7M 16V 4. 7u 1 C292 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C220M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | | | | |
| 222 C2RX471K-0 2KV 470p 1 C555 223 C2RX681K-0 2KV 680p 1 C516 224 C2EM10H-0 AC 250V 1000p 1 C535 225 large module 2CE aluminum electrolysis capacitance 1 226 E20C4R7M 16V 4. 7u 1 C291 227 E20C4R7M 16V 4. 7u 1 C296 228 E20C4R7M 16V 4. 7u 1 C292 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C220M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | 221 | C2RX221K-0 | 2KV 220p(span 7.5mm) | | | |
| 223 C2RX681K-0 2KV 680p 1 C516 224 C2EM102M-0 AC 250V 1000p 1 C535 225 large module 2CE aluminum electrolysis capacitance 1 226 E20C4R7M 16V 4.7u 1 C291 227 E20C4R7M 16V 4.7u 1 C296 228 E20C4R7M 16V 4.7u 1 C292 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C20M 16V 10u 1 C704 233 E20C20M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | 222 | C2RX471K-0 | | 1 | C555 | |
| 225 large module 2CE aluminum electrolysis capacitance 1 226 E20C4R7M 16V 4.7u 1 C291 227 E20C4R7M 16V 4.7u 1 C296 228 E20C4R7M 16V 4.7u 1 C292 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C20M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | 223 | C2RX681K-0 | 2KV 680p | | | |
| 226 E20C4R7M 16V 4.7u 1 C291 227 E20C4R7M 16V 4.7u 1 C296 228 E20C4R7M 16V 4.7u 1 C292 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C200M 16V 10u 1 C294 233 E20C20M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | AC 250V 1000p | 1 | C535 | |
| 227 E20C4R7M 16V 4.7u 1 C296 228 E20C4R7M 16V 4.7u 1 C292 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C20M 16V 10u 1 C704 234 E20C470M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | | | | |
| 227 E20C4R7M 16V 4.7u 1 C296 228 E20C4R7M 16V 4.7u 1 C292 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C20M 16V 10u 1 C704 234 E20C470M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | 226 | E20C4R7M | 16V 4.7u | 1 | C291 | |
| 228 E20C4R7M 16V 4.7u 1 C292 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C220M 16V 10u 1 C704 234 E20C470M 16V 22u 1 C704 235 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | | | | |
| 229 E20C100M 16V 10u 1 C293 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C220M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | | | | |
| 230 E20C100M 16V 10u 1 C570 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C220M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | | | | |
| 231 E20C100M 16V 10u 1 C306 232 E20C100M 16V 10u 1 C294 233 E20C220M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | | | | |
| 232 E20C100M 16V 10u 1 C294 233 E20C220M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | | | | |
| 233 E20C220M 16V 22u 1 C704 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | | | | |
| 234 E20C470M 16V 47u 1 C238 235 E20C470M 16V 47u 1 C914 | | | | | | |
| 235 E20C470M 16V 47u 1 C914 | | | | | | |
| | | | | | | |
| 236 E20C470M 1 C632 1 C632 | | | | | | |
| | 236 | E20C470M | 16V 47u | 1 | C632 | |

| | | | 1 | |
|-----|----------------------|--|------------------|--|
| | E20C470M | 16V 47u | 1 C307 | |
| | E20C470M | 16V 47u | 1 C295 | |
| | E20C470M | | 1 C244 | |
| | E20C470M | | 1 C240 | |
| | E20C470M | | 1 C920 | |
| | E20C470M | | 1 C916 | |
| | E20C101M | | 1 C230 | |
| | E20C101M | 16V 100u | 1 C928 | |
| | E20C101M | | 1 C927 | |
| | E20C101M | | 1 C302 | |
| | E20C101M | | 1 C243 | |
| | E20C221M | | 1 C102 | |
| | E20C471M | | 1 C105 | |
| | E20C471M | 16V 470u | 1 C311 | |
| | E20C471M | | 1 C209 | |
| | E20C471M-H | | 1 C571 | |
| | E20D100MN | 25V 10u(non polarity) | 1 C201 | |
| | E20D221M | 25V 220u | 1 0700 | |
| | E20D471M E20D471M | 25V 470u 25V 470u | 1 C557 1 C717 | |
| | E20D471M | 25V 470u | 1 C564 | |
| | E20D102M | 25V 1000u | 1 C433 | |
| | E20E470M-H | | 1 C430 | |
| | E20E101M | 35V 47u(wide bound temperature quotiety) 35V 100u | 1 C449 | |
| | E20E331MA | | 1 C559 | |
| | E20E331M-H | 35V 330u(cb288) 35V 330uF(wide bound temperature quotiety) | 1 C565 | |
| | E20FR22M | | 1 C237 | |
| | E20FR22MR | | 1 C205 | |
| | E20FR47M | 50V 0. 47u | 1 C108 | |
| | E20FR47M | | 1 C308 | |
| | E20FR47M | 50V 0.47u | 1 C303 | |
| 268 | E20FR47M | | 1 C301 | |
| 269 | E20FR47M | | 1 C204 | |
| | E20FR47M | | 1 C110 | |
| 271 | E20F1ROM | 50V 1u | 1 C215 | |
| | E20F1ROM | | 1 C245 | |
| | E20F1ROM | | 1 C236 | |
| | E20F1ROM | | 1 C217 | |
| | E20F1ROM | | 1 C216 | |
| | E20F2R2M | | 1 C103 | |
| | E20F2R2M | | 1 C926 | |
| 278 | E20F2R2M | 50V 2. 2u | 1 C703 | |
| 279 | E20F2R2M | | 1 C443 | |
| 280 | E20F2R2M | | 1 C300 | |
| | E20F4R7M | | 1 C101 | |
| | E20F4R7M | | 1 C705 | |
| | E20F4R7M | | 1 C206 | |
| | E21H1ROM | 160V 1U | 1 C411 | |
| | E20H100M-H | 160V 10u(high temperature modulus) | 1 C561 | |
| 286 | E20H101M | 160V 100u | 1 C563 | |
| 287 | E20K220M | | 1 C562 | |
| | large module 2CF | film capacitance | 1 | |
| | F20G222J | | 1 C231 | |
| | F20G222J | | 1 C446 | |
| | F20G392J | | 1 C708 | |
| | F20G822J | | 1 C305 | |
| | F22G123J-T | | 1 C515 | |
| | F20G223K | | 1 C517 | |
| | F20G563K | | 1 C447 | |
| | F20G104K | | 1 C104 | |
| | F20G104K | | 1 C514 | |
| | F20G104K | | 1 C461 | |
| | F20G104K | | 1 C460 | |
| | F20G104K | | 1 C444 | |
| | F20G104K | | 1 C421 | |
| | F20G104K | | 1 C413 | |
| | F20G104K | | 1 C923 | |
| | F20G104K | | 1 C922 | |
| | F20G104K | | 1 C701 | |
| | F20J394J | | 1 C412 | |
| | F20R224M | | 1 C501 | |
| | F20R224M | | 1 C502 | |
| | F20Z912J | 1. 6KV 9100p | 1 C415 | |
| | large module 3LL | | 1 1 4 1 4 | |
| | | | 1 L414 | |
| | TLXX0018 | · | 1 T101 | |
| | L3X11R0K-T | | 1 L103 | |
| 314 | L3X18R2K-T | 8. 2uH-K | 1 L304 | |

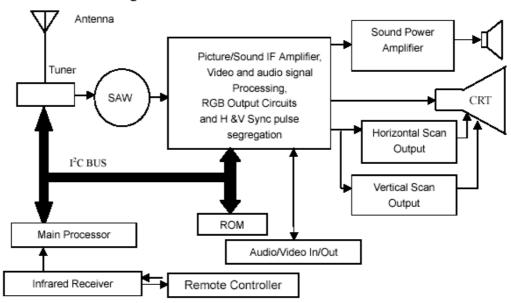
| 315 | L3X1150K-T | 15uH-K | 1 L102 | |
|-----|--------------------------|-----------------------------------|--------------------|--|
| 316 | L3X1150K-T | 15uH-K | 1 L901 | |
| 317 | L3X1150K-T | 15uH-K | 1 L305 | |
| 318 | L3X1150K-T | 15uH-K | 1 L302 | |
| 319 | L3X1150K-T | 15uH-K | 1 L230 | |
| | L3X1150K-T | 15uH-K | 1 L201 | |
| | L3X1150K-T | 15uH-K | 1 L104 | |
| | large module 4DC | photoelectricity coupling ware | 1 | |
| | | | | |
| | RX0001XX | PC817B/C(ic) | 1 VD515 | |
| | large module 4DL | LED | 1 | |
| | DL0008XX | LED (RED 5mm) | 1 VD923 | |
| | large module 4DR | diode | 1 | |
| | DR0001XX-T | 1S1555/IN4148A | 1 VD230 | |
| | DR0001XX-T | 1S1555/IN4148A | 1 VD231 | |
| 329 | DR0001XX-T | 1S1555/IN4148A | 1 VD232 | |
| | DR0001XX-T | 1S1555/IN4148A | 1 VD233 | |
| | DR0001XX-T | 1S1555/IN4148A | 1 VD401 | |
| | DR0001XX-T | 1S1555/IN4148A | 1 VD514 | |
| | DR0001XX-T | 1S1555/IN4148A | 1 VD516 | |
| 334 | DR0001XX-T | 1S1555/IN4148A | 1 VD518 | |
| | DR0001XX-T | 1S1555/IN4148A | 1 VD558 | |
| | DR0001XX-T | 1S1555/IN4148A | 1 VD601 | |
| | DR0001XX-T | | 1 VD611 | |
| | DR0001XX-T | 1S1555/IN4148A | 1 VD621 | |
| | DR0001XX-T | 1S1555/IN4148A | 1 VD901 | |
| | DR0003XX-T | FR105 | 1 VD433 | |
| | DR0003XX-T | FR105 | 1 VD517 | |
| | DR0003XX-T | | 1 VD557 | |
| | DR0009XX-T | GP10D/1N4004 | 1 VD434 | |
| | DR0010XX-T | FR107 | 1 VD413 | |
| | DR0015XX | RU4AM/TVR4N | 1 VD503 | |
| 346 | DR0015XX | RU4AM/TVR4N | 1 VD506 | |
| 347 | DR0015XX | RU4AM/TVR4N | 1 VD505 | |
| 348 | DR0015XX | RU4AM/TVR4N | 1 VD504 | |
| | DR0017XX-T | RGP10,J | 1 VD552 | |
| | DR0017XX-T | | 1 VD553 | |
| | DR0018XX-T | RGP10D | 1 VD554 | |
| | DR0020BXX-T | | 1 VD556 | |
| | DR0031XX-T | | 1 VD555 | |
| | large module 4DZ | certain voltage diode | 1 | |
| | DZ0001XX-T | | 1 VD551 | |
| | DZ0001XX-1 DZ0002XX-T | | | |
| | | RD5. 1EB2/HZ5C1 | 1 VD922 | |
| | DZ0004XX-T | RD10EB2/HZ11C1 | 1 VD436 | |
| | DZ0006XX-T | RD3. 6L/HZ4A2 | 1 VD501 1 VD902 | |
| | DZ0006XX-T | RD3. 6L/HZ4A2 | | |
| | DZ0010XX-T | RD8. 2EB3/HZ9A2 | 1 VD519 | |
| | DZ0011XX-T | | 1 VD202 | |
| | DZ0011XX-T | RD9. 1EB2/HZ9B2 | 1 VD203 | |
| | DZ0011XX-T | | 1 VD204 | |
| 364 | DZ0015XX-T | RD5. 6EB2/HZ6B1 | 1 VD921 | |
| 365 | large module 4IC | IC | 1 | |
| 366 | IXXX0045 | LA7840(vertical integer circuit) | 1 N402 | |
| 367 | IXXX0079 | TL24C08 (EEPROM 8K) | 1 N901 | |
| 368 | IXXX0080 | uPC574J | 1 N904 | |
| | IXXX0096 | | 1 N701 | |
| | IXXX0118 | TA78M09 9Vsteady voltage | 1 N902 | |
| | IXXX0120 | | 1 N203 | |
| 372 | IXXX0137 | 8803CPN-3GV1 | 1 N204 | |
| 373 | large module 4TR | audion | 1 | |
| 374 | RXA1015X | 2SA1015Y/2SA608/2SA733Q | 1 V230 | |
| | RXA1015X | 2SA1015Y/2SA608/2SA733Q | 1 V232 | |
| | RXA1015X | | 1 V233 | |
| | RXA1015X | | 1 V302 | |
| | RXA1015X | | 1 V902 | |
| | RXB764XX | | 1 V902 1 V511 | |
| | | | | |
| | RXB764XX | | 1 V570 | |
| | RXB892XX | | 1 V552 | |
| | RXC2216X | 2SC2216 | 1 V101 | |
| | RXC2383X | 2SC23830 | 1 V444 | |
| | RXC2688X | 2SC2688K | 1 V601 | |
| | RXC2688X | 2SC2688K | 1 V611 | |
| | RXC2688X | | 1 V621 | |
| | RXC3807X | | 1 V512 | |
| | RXC5586X | | 1 V513 | |
| | RXC945XX | 2SC945/2SC1815/2SC536E | 1 V102 | |
| | RXC945XX | 2SC945/2SC1815/2SC536E | 1 V630 | |
| | RXC945XX | | 1 V103 | |
| | RXC945XX | | 1 V203 | |
| | RXC945XX | 2SC945/2SC1815/2SC536E | 1 V231 | |
| 393 | KAC940AA | 23C343/23C1613/23C330E | 1 1 1 2 3 1 | |

| 200 MACHEST MACHEST | | | | |
|--|-----|------------------|--|--------|
| 2006.000.000.000.000.000.000.000.000.000 | 394 | RXC945XX | 2SC945/2SC1815/2SC536E | V551 |
| SOFT INCOMENTAL SOCIAL PROCESSION 1 VPOI | 395 | RXC945XX | 2SC945/2SC1815/2SC536E | V571 |
| SSE SECURION SEC | 396 | RXC945XX | 2SC945/2SC1815/2SC536E | V572 |
| SSE SECURION SEC | 397 | RXC945XX | 2SC945/2SC1815/2SC536E | V701 |
| 141 1920 1921 1 | | | | + |
| 400 ESCRIPTION | | | | |
| Model Progress Model M | | | | |
| 405 EMERGEN 1 | | | | 1 |
| ORD FORGONA F. G. SME(Fall) 12-20 1 | | | | |
| 404 FEORDREAN 01,000 1 | | | | |
| 406 FXXX00101 | | | | |
| MORE NAXASSORID POSS SN. horizontal modulo (S. 0mm) 1 SN501 | | | • | |
| 407 MAXMOD PASS Sk. horizontal module (5. 6m) | | | | |
| GOS EXAMPSION FISSE St. Not related anotale (G. Dum) | | | 1 | |
| 469 EXXXX0101 | | | , , | |
| 10 SXX0011 SSI SV. horizontal module (5. 6m) SW.1004 | | | | |
| 11 NAXXVI 1 NSI SV. horizontal module (5. 6mm) | | | | |
| 412 XXXVII | | | | |
| 11 12 13 13 13 14 15 15 16 16 17 18 18 18 18 18 18 18 | | | | |
| 1 N. (2001-187-A S. (1671-1820). high precision crystal oscillatory 1.201 1.101 1. | | | , , , | |
| 15 Jarge motule 601, lead and meet element | 413 | RXXX0016 | infrared reciever | . A901 |
| 416 XXX0010C | 414 | XC0004XX-A | 8.0M(with 20p) high precision crystal oscillatory | Z901 |
| 17 17 17 17 17 17 17 17 | 415 | large module 60L | lead and meet element | |
| 18 18 18 18 18 19 19 10 10 10 10 10 10 | 416 | LXXX0010C | power wire with plus (2m) | W501 |
| 18 18 18 18 18 19 19 10 10 10 10 10 10 | 417 | LXXX0146-H | 2P LINE(250mm especially for haier) | XZ1106 |
| 1.00 | | | | |
| 1.00 | | | | + |
| 421 XXXX0219 | | | | |
| 422 XXXXV223 | 421 | LXXX0219 | defend thunder wire (420mm) | A-A |
| 429 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | | | |
| 424 IXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | | | |
| 425 NXXXXXXX | | | | |
| 426 NXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | | | |
| 427 NXX0095-H A/V six core socket (for hair) | | | | |
| 428 NXXX0025 | | | | |
| 429 NXXX0070 | | | | |
| 430 NXXXQ210 SPEAKER SCKET (11t1e module two core) X7701 | | | | |
| | | | | |
| 432 XXXX0230 25 SOCKET [middle module KEa 1 XZ500 | | | | |
| 433 NXXX0242 33 minitype moudle 1 XZ18 | | | | |
| 434 XXXX0242 35 minitype moudle | | | | |
| 435 NXXX0250 | | | | |
| 436 | | | ** | |
| 437 LFXX0016 power filter (LCL0608TL) 1,502 | | | | |
| 438 FXXX0016 | | | | |
| 439 TXXX0027 | - | | Provide the state of the state | |
| 440 TXXX0040 | | | Figure 1 Control of the Control of t | |
| 441 large module 8PB PCB | | | ` / | |
| 442 PAEX0077 | | | | |
| 443 PAEX0376A | | , , | | |
| 444 PAEX0376B | - | | | l |
| 445 large module 8SM made by self element 1 | | | | + |
| 446 FGXX0011G fuse socket 1 F501a | | | | |
| 447 FGXX0011G fuse socket 1 F501b 448 GCLX0021 fusation card (radiator) 1 Z2004 Z2004 Z2004 Z2004 | | | j | |
| 448 GCLX0011 fixation card (radiator) 1 ZZ004 449 GCLX0020 prick wire (lock close module) 100mm 1 * 450 GCLX0020 prick wire (lock close module) 100mm 1 ZZ005 451 HXXX0011 power radiator (048 board) 1 Z01-02 452 HXXX0021C frame, horizontal radiator 1 Z03-04 453 HXXX0030A sound amplifier radiator (have lack corner) 1 MN701 454 HXXX0048 9V radiator 1 MN902 455 NDL002XX irradiance diode bracket (short) 1 A902 456 PTSX0010 TESTING POINT (testing socket) 1 TP101 457 PTSX0010 TESTING POINT (testing socket) 1 TP603 458 PTSX0010 TESTING POINT (testing socket) 1 TP606 459 large module 9SD stande element 1 460 MCXX0010 M3 (nut) 1 ZZ017 461 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ019 464 PNXX0010 D2. 5*3. 5rivet 1 P27 465 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P51< | | | | |
| 449 GCLX0020 prick wire (lock close module) 100mm 1 | 447 | FGXX0011G | | |
| 450 GCLX0020 prick wire (lock close module) 100mm 1 ZZ005 451 HXXX0011 power radiator (0048 board) 1 201-02 452 HXXX0021C frame, horizontal radiator 1 203-04 453 HXXX0030A sound amplifier radiator (have lack corner) 1 MN701 454 HXXX0048 9V radiator 1 A902 455 NDL002XX irradiance diode bracket (short) 1 A902 456 PTSX0010 TESTING POINT (testing socket) 1 TP101 457 PTSX0010 TESTING POINT (testing socket) 1 TP603 458 PTSX0010 TESTING POINT (testing socket) 1 TP606 459 large module 9SD stande element 1 460 MCXX0010 M3 (nut) 1 ZZ017 461 MCXX0010 M3 (nut) 1 ZZ018 462 MCXX0010 M3 (nut) 1 ZZ018 463 MCXX0010 M3 (nut) 1 ZZ019 464 PNXX0010 D2.5*3.5 rivet 1 P27 465 PNXX0010 D2.5*3.5 rivet 1 P28 466 PNXX0010 D2.5*3.5 rivet 1 P29 467 PNXX0010 D2.5*3.5 rivet 1 P50 468 PNXX0010 D2.5*3.5 rivet 1 P51 469 PNXX0010 D2.5*3.5 rivet 1 P52 | 448 | GCLX0011 | fixation card (radiator) | ZZ004 |
| 450 GCLX0020 prick wire (lock close module) 100mm 1 ZZ005 451 HXXX0011 power radiator (0048 board) 1 201-02 452 HXXX0021C frame, horizontal radiator 1 203-04 453 HXXX0030A sound amplifier radiator (have lack corner) 1 MN701 454 HXXX0048 9V radiator 1 MN902 455 NDL002XX irradiance diode bracket (short) 1 A902 456 PTSX0010 TESTING POINT (testing socket) 1 TP101 457 PTSX0010 TESTING POINT (testing socket) 1 TP603 458 PTSX0010 TESTING POINT (testing socket) 1 TP606 459 large module 9SD stande element 1 460 MCXX0010 M3 (nut) 1 ZZ017 461 MCXX0010 M3 (nut) 1 ZZ018 462 MCXX0010 M3 (nut) 1 ZZ018 462 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ020 464 PNXX0010 D2.5*3.5 rivet 1 P28 466 PNXX0010 D2.5*3.5 rivet 1 P29 467 PNXX0010 D2.5*3.5 rivet 1 P50 468 PNXX0010 D2.5*3.5 rivet 1 P51 469 PNXX0010 D2.5*3.5 rivet 1 P51 469 PNXX0010 D2.5*3.5 rivet 1 P51 469 PNXX0010 D2.5*3.5 rivet 1 P52 P52 P52 P52 P52 P52 P52 P52 P52 P5 | 449 | GCLX0020 | prick wire(lock close module) 100mm | * |
| 451 HXXX0011 power radiator (0048 board) 1 Z01-02 452 HXXX0021C frame, horizontal radiator 1 Z03-04 203-04 453 HXXX0030A sound amplifier radiator (have lack corner) 1 MN701 454 HXXX0048 9V radiator 1 MN902 1 MN902 455 NDL002XX irradiance diode bracket (short) 1 A902 456 PTSX0010 TESTING POINT (testing socket) 1 TP101 457 PTSX0010 TESTING POINT (testing socket) 1 TP603 458 PTSX0010 TESTING POINT (testing socket) 1 TP606 459 large module 9SD stande element 1 460 MCXX0010 M3 (nut) 1 ZZ017 461 MCXX0010 M3 (nut) 1 ZZ018 462 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ019 464 PNXX0010 D2. 5*3. 5rivet 1 P27 465 PNXX0010 D2. 5*3. 5rivet 1 P28 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | 450 | GCLX0020 | prick wire(lock close module) 100mm | ZZ005 |
| 452 HXXX0021C frame, horizontal radiator 1 Z03-04 453 HXXX0030A sound amplifier radiator (have lack corner) 1 MN701 454 HXXX0048 9V radiator 1 MN902 455 NDL002XX irradiance diode bracket (short) 1 A902 456 PTSX0010 TESTING POINT (testing socket) 1 TP101 457 PTSX0010 TESTING POINT (testing socket) 1 TP603 458 PTSX0010 TESTING POINT (testing socket) 1 TP606 459 large module 9SD stande element 1 460 MCXX0010 M3 (nut) 1 ZZ017 461 MCXX0010 M3 (nut) 1 ZZ018 462 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ019 464 PNXX0010 D2 5*3. 5rivet 1 P27 465 PNXX0010 D2 5*3. 5rivet 1 P28 466 PNXX0010 D2 5*3. 5rivet 1 P29 467 PNXX0010 D2 5*3. 5rivet 1 P50 468 PNXX0010 D2 5*3. 5rivet 1 P51 469 PNXX0010 D2 5*3. 5rivet 1 P51 469 PNXX0010 D2 5*3. 5rivet 1 P52 469 PNXX0010 D2 5*3. 5rivet 1 P52 469 PNXX0010 D2 5*3. 5rivet 1 P51 469 PNXX0010 D2 5*3. 5rivet 1 P52 460 PNXX0010 D2 T2 T2 T2 T2 | 451 | HXXX0011 | | |
| HXXX0030A Sound amplifier radiator (have lack corner) 1 MN701 | | | F | |
| MN902 MN90 | | | · · | |
| 455 NDL002XX irradiance diode bracket(short) 1 A902 456 PTSX0010 TESTING POINT(testing socket) 1 TP101 457 PTSX0010 TESTING POINT(testing socket) 1 TP603 458 PTSX0010 TESTING POINT(testing socket) 1 TP606 459 large module 9SD stande element 1 460 MCXX0010 M3 (nut) 1 ZZ017 461 MCXX0010 M3 (nut) 1 ZZ018 462 MCXX0010 M3 (nut) 1 ZZ018 463 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ020 464 PNXX0010 D2. 5*3. 5rivet 1 P27 465 PNXX0010 D2. 5*3. 5rivet 1 P28 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 P32 | | | | |
| 456 PTSX0010 TESTING POINT(testing socket) 1 TP101 457 PTSX0010 TESTING POINT(testing socket) 1 TP603 458 PTSX0010 TESTING POINT(testing socket) 1 TP606 459 large module 9SD stande element 1 460 MCXX0010 M3 (nut) 1 ZZ017 461 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ020 464 PNXX0010 M2 .5*3. 5rivet 1 P27 465 PNXX0010 D2 .5*3. 5rivet 1 P28 466 PNXX0010 D2 .5*3. 5rivet 1 P29 467 PNXX0010 D2 .5*3. 5rivet 1 P50 468 PNXX0010 D2 .5*3. 5rivet 1 P51 469 PNXX0010 D2 .5*3. 5rivet 1 P52 | | | | |
| 457 PTSX0010 TESTING POINT (testing socket) 1 TP603 458 PTSX0010 TESTING POINT (testing socket) 1 TP606 459 large module 9SD stande element 1 460 MCXX0010 M3 (nut) 1 ZZ017 461 MCXX0010 M3 (nut) 1 ZZ018 462 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ020 464 PNXX0010 D2. 5*3. 5rivet 1 P27 465 PNXX0010 D2. 5*3. 5rivet 1 P28 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P51 | | | | |
| 458 PTSX0010 TESTING POINT (testing socket) 1 TP606 459 large module 9SD stande element 1 460 MCXX0010 M3 (nut) 1 ZZ017 461 MCXX0010 M3 (nut) 1 ZZ018 462 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ020 464 PNXX0010 D2. 5*3. 5rivet 1 P27 465 PNXX0010 D2. 5*3. 5rivet 1 P28 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | | | | |
| 459 large module 9SD stande element 1 460 MCXX0010 M3 (nut) 1 ZZ017 461 MCXX0010 M3 (nut) 1 ZZ018 462 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ020 464 PNXX0010 D2. 5*3. 5rivet 1 P27 465 PNXX0010 D2. 5*3. 5rivet 1 P28 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | | | | |
| 460 MCXX0010 M3 (nut) 1 ZZ017 461 MCXX0010 M3 (nut) 1 ZZ018 462 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ020 464 PNXX0010 D2. 5*3. 5rivet 1 P27 465 PNXX0010 D2. 5*3. 5rivet 1 P28 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P51 | | | | |
| 461 MCXX0010 M3 (nut) 1 ZZ018 462 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ020 464 PNXX0010 D2. 5*3. 5rivet 1 P27 465 PNXX0010 D2. 5*3. 5rivet 1 P28 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | | | | |
| 462 MCXX0010 M3 (nut) 1 ZZ019 463 MCXX0010 M3 (nut) 1 ZZ020 464 PNXX0010 D2. 5*3. 5rivet 1 P27 465 PNXX0010 D2. 5*3. 5rivet 1 P28 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | | | | |
| 463 MCXX0010 M3 (nut) 1 ZZ020 464 PNXX0010 D2. 5*3. 5rivet 1 P27 465 PNXX0010 D2. 5*3. 5rivet 1 P28 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | | | | |
| 464 PNXX0010 D2. 5*3. 5rivet 1 P27 465 PNXX0010 D2. 5*3. 5rivet 1 P28 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | | | | |
| 465 PNXX0010 D2. 5*3. 5rivet 1 P28 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | | | | |
| 466 PNXX0010 D2. 5*3. 5rivet 1 P29 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | | | | |
| 467 PNXX0010 D2. 5*3. 5rivet 1 P50 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | | | | |
| 468 PNXX0010 D2. 5*3. 5rivet 1 P51 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | | | | |
| 469 PNXX0010 D2. 5*3. 5rivet 1 P52 | | | | |
| | | | | |
| 470 PNXX0010 D2.5*3.5rivet 1 P53 | | | | |
| | 470 | PNXX0010 | D2. 5*3. 5rivet | P53 |

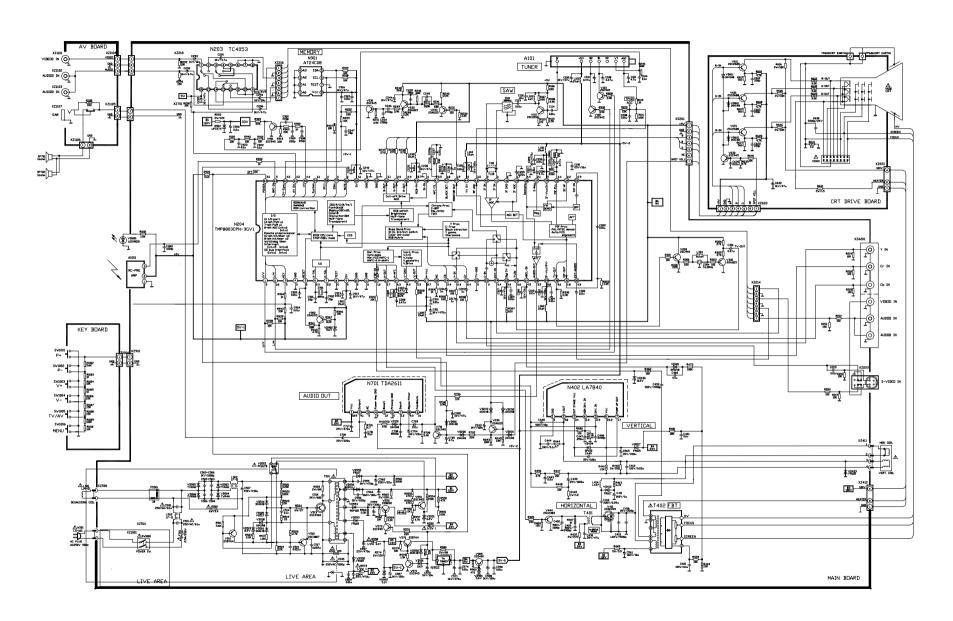
| 471 | PNXX0010 | D0 5#0 5 | 1 P54 |
|-----|----------------------|---------------------------------|--------------|
| | PNXX0010 PNXX0010 | D2. 5*3. 5rivet D2. 5*3. 5rivet | 1 P63 |
| | PNXX0010 | D2. 5*3. 5rivet | 1 P64 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P12 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P15 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P18 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P19 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P2 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P21 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P24 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P25 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P26 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P30 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P31 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P4 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P40 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P41 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P42 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P43 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P44 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P45 |
| | PNXX0020 | D1. 6*3. 0rivet | 1 P46 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P47 |
| | | | 1 P48 |
| | PNXX0020 | D1. 6*3. Orivet | |
| | PNXX0020 | D1. 6*3. Orivet | 1 P5 1 P6 |
| | PNXX0020 | D1. 6*3. Orivet | |
| | PNXX0020 | D1. 6*3. Orivet | 1 P7 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P8 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P9 |
| | PNXX0020 | D1.6*3.Orivet | 1 P56 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P57 |
| | PNXX0020 | D1. 6*3. Orivet | 1 P58 |
| | PNXX0020 | D1.6*3.0rivet | 1 P59 |
| | PNXX0020 | D1.6*3.0rivet | 1 P60 |
| | PNXX0020 | D1.6*3.0rivet | 1 P61 |
| | PNXX0020 | D1.6*3.0rivet | 1 P62 |
| | PNXX0020 | D1.6*3.0rivet | 1 P65 |
| 508 | PNXX0020 | D1.6*3.0rivet | 1 P66 |
| 509 | PNXX0020 | D1. 6*3. Orivet | 1 P67 |
| 510 | PNXX0020 | D1.6*3.0rivet | 1 P68 |
| 511 | PNXX0020 | D1.6*3.0rivet | 1 P69 |
| 512 | PNXX0020 | D1.6*3.0rivet | 1 P70 |
| 513 | PNXX0020 | D1.6*3.Orivet | 1 P71 |
| 514 | SCXX002S | M3*8(bolt) | 1 ZZ031 |
| 515 | SCXX319S | M3*10 bolt with tray | 1 ZZ025 |
| 516 | SCXX319S | M3*10 bolt with tray | 1 ZZ026 |
| | SCXX319S | M3*10 bolt with tray | 1 ZZ027 |
| 518 | SCXX320S | M3*8 bolt with tray | 1 ZZ028 |

X. APPENDIX

A. Circuit Block Diagram



B. Circuit Diagrams



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