



COLOR TELEVISION RECEIVER

Chassis : KS9A(P)

Model : CS21M16MJZXNWT
CS21K30MJZXNWT

SERVICE Manual

COLOR TELEVISION RECEIVER



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1. Precautions

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

1-1 Safety Precautions

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

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

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

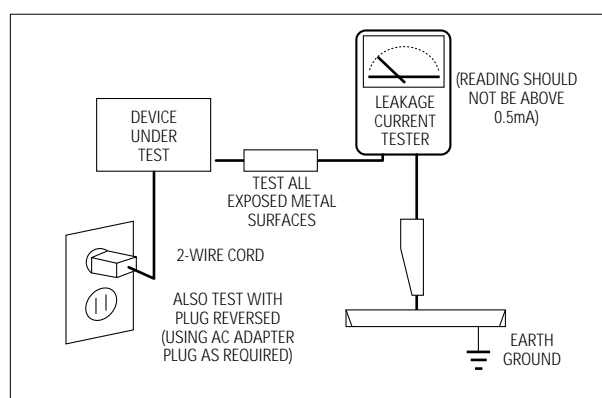


Fig. 1-1 AC Leakage Test



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

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

1-1 Safety Precautions (Continued)

9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
10. Design Alteration Warning:
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
11. Hot Chassis Warning:
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.
12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.
13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.
14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
16. Picture Tube Implosion Warning:
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.
17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
18. Product Safety Notice:
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.

Components that are critical for safety are indicated in the circuit diagram by shading, () or ().
Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Servicing Precautions

Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

Warning2: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

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

2. Specifications and IC Data

2-1 Specifications

Television System:

| MODEL | SYSTEM |
|-------|----------------------------------------------|
| CI | PAL-I (UHF) |
| CII | PAL-I (VHF/UHF) |
| CX | PAL-B/G, SECAM-B/G |
| CK | PAL-B/G, D/K, SECAM-B/G, D/K |
| CW | PAL-B/G, D/K, SECAM-B/G, D/K, NT 4.43 |
| CS | PAL-B/G, D/K, SECAM-B/G, D/K, NT4.43, NT3.58 |

Channels:

| System Band | PAL/SECAM-B/G,I | PAL, SECAM- D/K | SECAM-K1, PAL-D | NTSC - M |
|-------------|-----------------|-----------------|-----------------|----------|
| VHF | 2 - 12 | 1 - 13 | 2 - 9 | 2 - 13 |
| UHF | 21 - 69 | 21 - 69 | 13 - 57 | 14-69 |

Intermediate Frequencies (MHz) :

| SYSTEM IF Carrier Frequency | PAL/ SECAM- B/G | PAL/SECAM-D/K, SECAM-K1 | PAL - I | NTSC - M |
|--------------------------------|--------------------|----------------------------|---------|----------|
| Picture IF Carrier | 38.90 | 38.90 | 38.90 | 38.90 |
| Sound IF Carrier | 33.40 | 32.40 | 32.90 | 34.40 |
| Color Sub Carrier | 34.47 | 34.47 | 34.47 | 35.32 |

Picture Tube:

| | | |
|---------|--------------|------------------------------------------------------------------|
| 14 Inch | A34KQV42X | Quick start, in-line-gun, Black stripe, 90° degree deflection |
| 20 Inch | A48KRD82X(H) | |
| 21 Inch | A51KQJ63X | |
| 21 Flat | A51QDX993X | |

Power Requirements: AC 160~300V, 50/60Hz

Antenna Input Impedance: VHF, UHF : Telescopic dipole antenna (75 ohm unbalanced type)

Speaker Impedance 8 ohm, 7W+7W (MAX)

2-2 IC Line Up

| Table 2-1 IC Line-Up | | | |
|----------------------|--------------------|------------------------------------------------------------------------------------------|---------|
| Loc. No | Specification | Description | Remark |
| HC101 | PAP103 | IF PRE-AMP | |
| IC201S | SPM802ER | TTX, English/Croatian/Romanian/Hungarian/Polish/Czech/ Bulgarian/Russian/Portugal | Philips |
| | SPM802ERN | W/O TTX, English/Croatian/Romanian/Hungarian/Polish/Czech/ Bulgarian/Russian/Portugal | |
| IC301 | LA7840 | VERTICAL OUTPUT | Sanyo |
| IC501 | TDA6107Q | RGB DRIVE AMP | Philips |
| IC601 | TDA7266S | SOUND-AMP (3W x 1CH or 3W x 2CH or 5W x 2CH) | |
| IC801S | KA5Q0765R | POWER IC (STR) | |
| IC802 | KA7632 | CUSTOM REGULATOR (5V, 8V, 3.3V) | |
| IC902 | 24C08/KS28C040 | EEPROM | |
| PC801S | TCET1108 / LTV817B | PHOTO COUPLER | |
| IC101 | U4468B | SIF - IC | TEMIC |

2-3 Semiconductor Base Diagrams

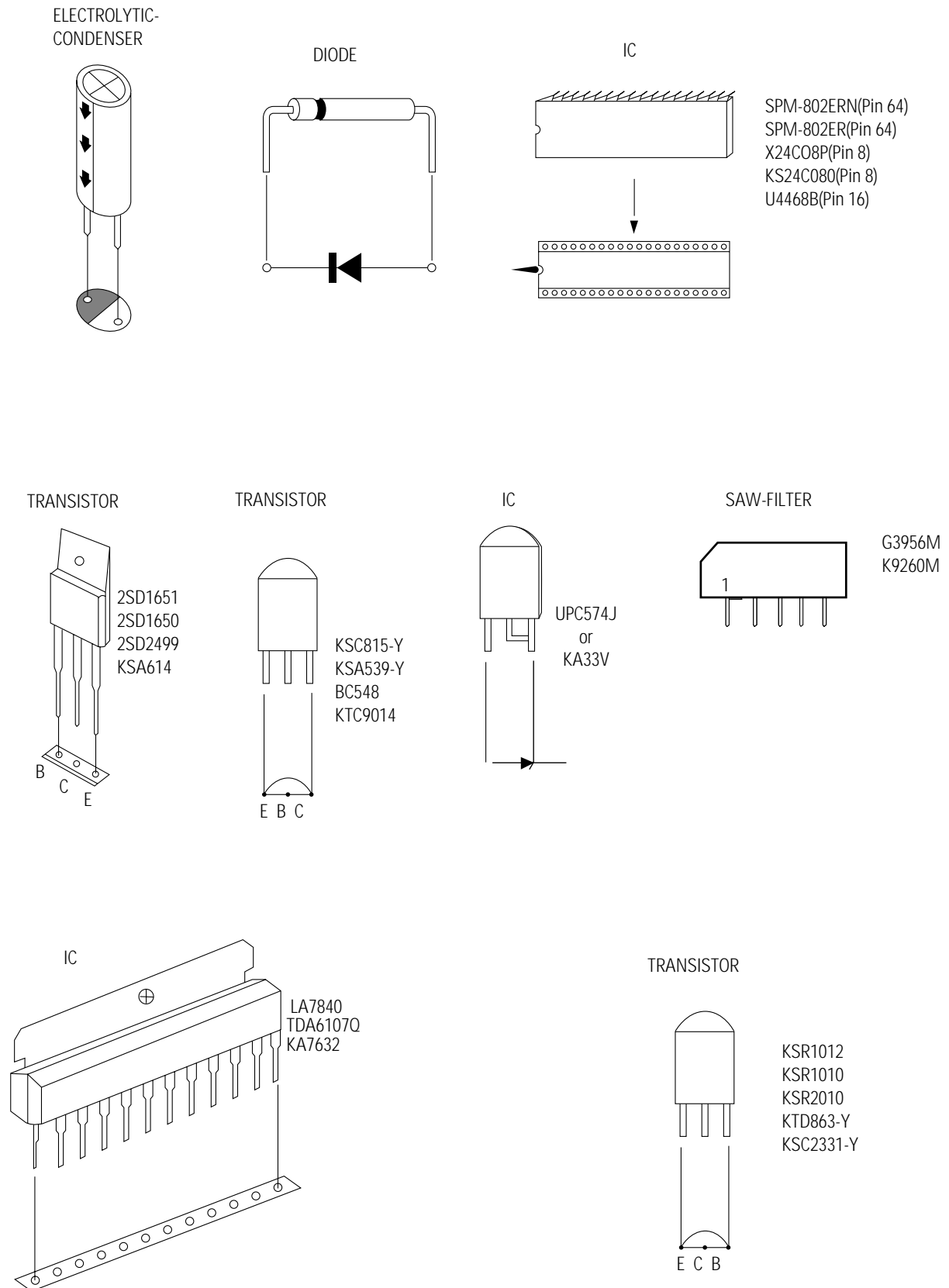
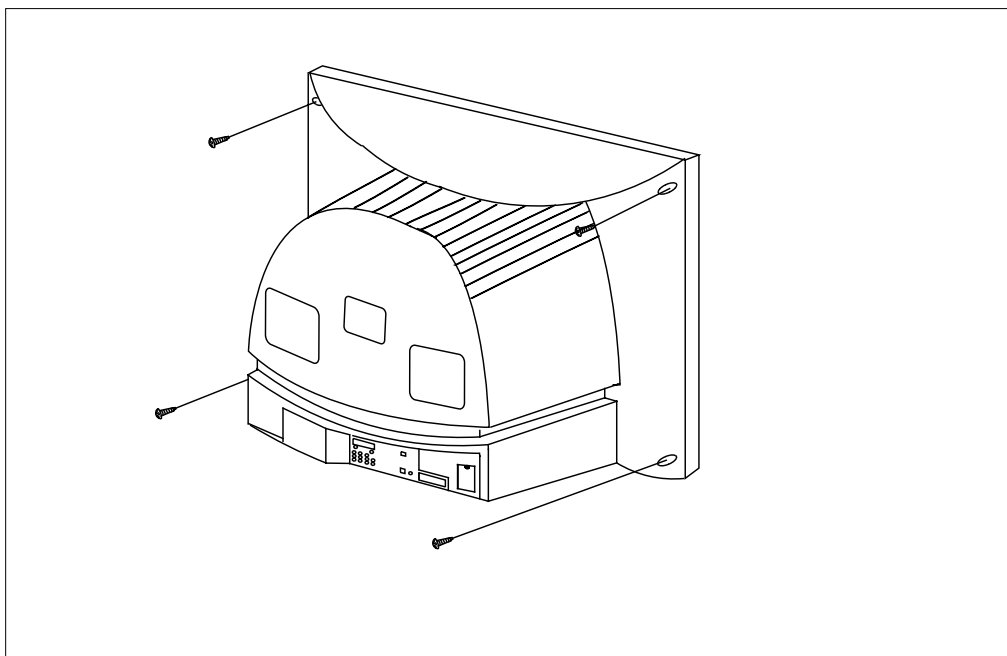


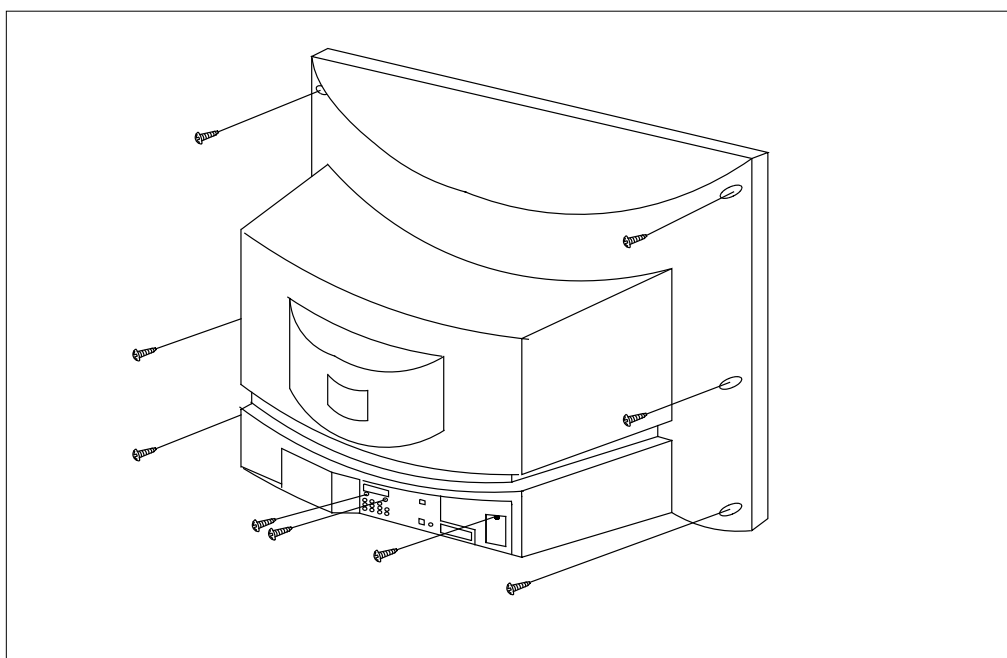
Fig. 2-1 Semiconductor Base Diagrams

3. Disassembly and Reassembly

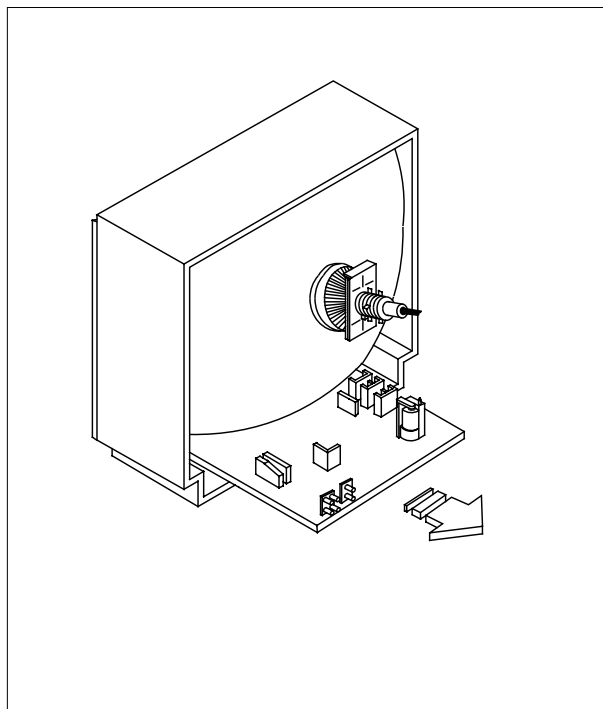
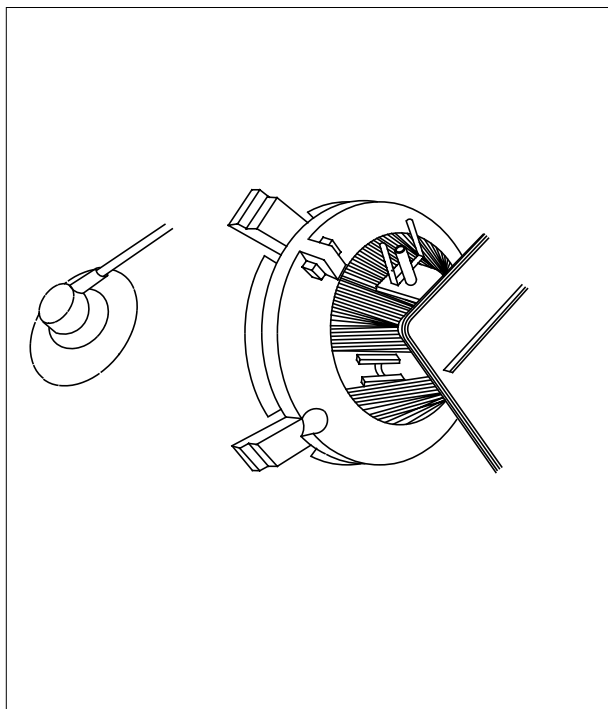
3-1 Back Cover Removal



1. After removing the screws, press the tension rib and pull the cabinet backwards.
2. To reassemble, press the tension rib (see diagram).



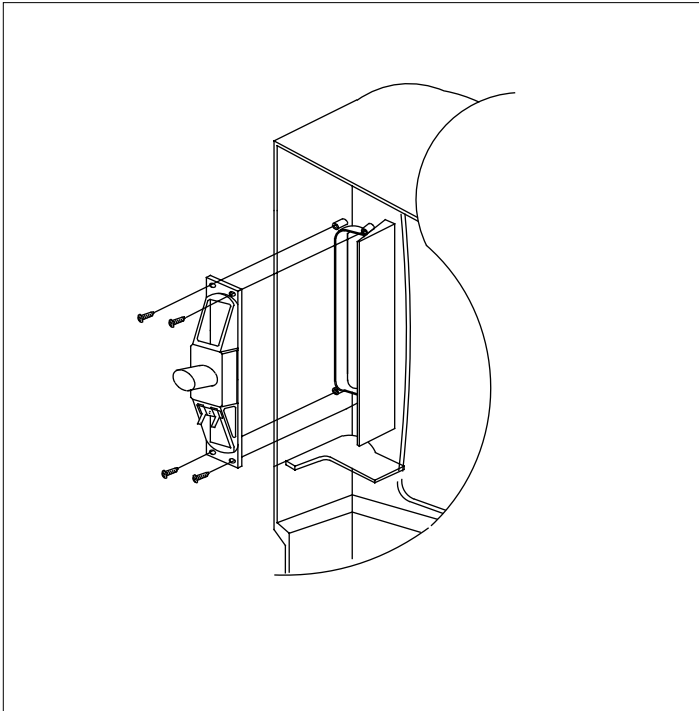
3-2 Main Board Removal



1. Separate the socket board from the CRT neck.
2. Remove the Anode Cap from the CRT.
3. Remove the main board by pulling it with both hands.

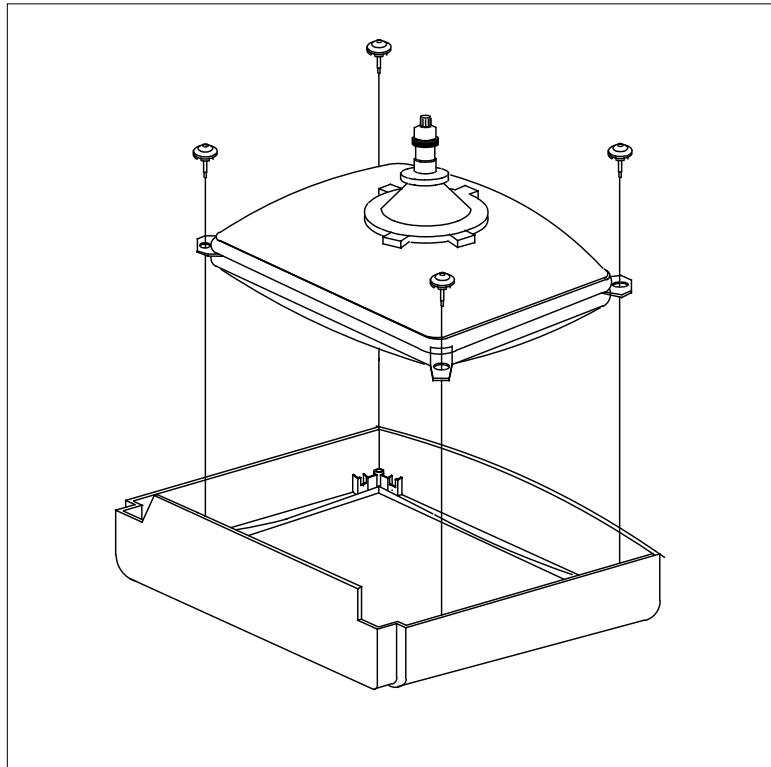
Warning: The FBT is charged with high voltage.
Before removing the Anode Cap, discharge the voltage
through one of the heat sinks on the main board.

3-3 Speaker Removal



1. Remove the speaker by pressing the tension rib.

3-4 CRT Removal



1. Spread a soft mat on the floor. Place the TV set face down.
2. Remove the 4 nuts mounting the CRT to the front cabinet. Lift the CRT.
3. Caution: Because of the high vacuum and large surface area of the picture tube, be careful while handling it: (1) Always lift the picture tube by grasping it firmly around the faceplate, (2) Never lift the tube by its neck. (3) Do not scratch the picture tube or apply excessive pressure. Fractures of the glass may cause an implosion.

4. Alignment and Adjustments

4-1 Preadjustment

4-1-1 Factory Mode

1. Do not attempt these adjustments in the Video Mode.
2. The Factory Mode adjustments are necessary when either the EEPROM (IC902) or the CRT is replaced.
3. Do not tamper with the "Adjustment" screen of the Factory Mode menu. This screen is intended only for factory use.

4-1-2 When EEPROM (IC902) Is Replaced

1. When IC902 is replaced all adjustment data revert to initial values. It is necessary to re-program this data.
2. After IC902 is replaced, warm up the TV for 10 seconds.

4-1-3 When CRT Is Replaced

1. Make the following adjustments AFTER setting up after setting up purity and convergence :

White Balance
Sub-Brightness
Vertical Center
Vertical Size
Horizontal Size
Fail Safe (This adjustment must be the last step).

2. If the EEPROM or CRT is replaced, set PVA to 40 (factory mode) and set SC as follows.

4-2 Factory/Service Mode

4-2-1 Procedure for the "Adjustment" Mode

1. This mode uses the standard remote control. The Service Mode is activated by entering the following remote-control sequence :
 - (1) DISPLAY→FACTORY.
 - (2) STAND-BY→ DISPLAY→ MENU→ MUTE →POWER ON.
2. The "SERVICE (FACTORY)" message will be displayed. The Service Mode has three components: ADJUST, OPTION,OPTION1,G2 Adjust and Reset.
3. Access the Adjustment Mode by pressing the "VOLUME" keys (Up or Down). The adjustment parameters are listed in the accompanying table, and selected by pressing the CHANNEL keys (▲ , ▼).
4. Selection sequences for the all system:
DOWN or UP key:
AGC>SCT>SBT>BLR>BLB>RG>GG>BG>VSL>VS>VA>HS>SC>CDL>STT>AKB>PDL>NDL>PSR>NSR>VOL>LCO>TXP>MVOL>FMWS>AGCS>OMD>SCL>PWL>AGN>PEK>ACL>FCO>SCBT>SSP>PSNS
5. The VOLUME keys increase or decrease the adjustment values (stored in the non-volatile memory) when Adjustment Mode is cancelled.
6. Cancel the Adjustment Mode by re-pressing the "FACTORY" or "Power OFF" keys.

4-2-2 Main Adjustment Parameter

| OSD | FUNCTION | RANGE | INITIAL DATA | REMARK |
|------|----------------------------------------|----------|--------------|--------|
| AGC | RF AGC | 0 ... 63 | 33 | |
| SCT | Sub contrast | 0 ... 23 | 13 | |
| SBT | Sub brightness | 0 ... 23 | 9 | |
| BLR | Black level offset R | 0 ... 63 | 31 | |
| BLB | Black level offset B | 0 ... 63 | 27 | |
| RG | White point R | 0 ... 63 | 32 | |
| GG | White point G | 0 ... 63 | 32 (FIX) | |
| BG | White point B | 0 ... 63 | 31 | |
| VSL | Vertical slope | 0 ... 63 | 19 | |
| VS | Vertical shift | 0 ... 63 | 38 | |
| VA | Vertical amplitude | 0 ... 63 | 40 (FIX) | |
| HS | Horizontal shift | 0 ... 63 | 30 | |
| SC | S-correction | 0 ... 63 | 24 | |
| CDL | Cathode drive level | 0 ... 15 | 12 | |
| STT | Sub tint | 0 ... 7 | 7 | |
| AKB | Black current stabilization | 0 ... 1 | 0 | |
| PDL | PAL delay | 0 ... 15 | 1 | |
| NDL | NTSC delay | 0 ... 15 | 10 | |
| PSR | PAL sub color | 0 ... 23 | 15 | |
| NSR | NTSC sub color | 0 ... 23 | 10 | |
| VOL | Volume pre setting | 0 ... 63 | 10 | |
| LCO | SECAM-L Vision IF | 0 ... 1 | 0 | |
| TXP | TTX Position | 0 ... 15 | 9 | |
| MVOL | Melody initial volume adjustment | 0 ... 50 | 10 | |
| FMWS | Narrow-band sound PLL window selection | 0 ... 1 | 0 | |
| AGCS | IF AGC speed | 0 ... 3 | 1 | |
| OMD | Off-set IF demodulator | 0 ... 63 | 26 | |
| SCL | Soft clipping level | 0 ... 3 | 1 | |
| PWL | Peak white limiting | 0 ... 15 | 12 | |
| AGN | FM demodulator gain | 0 ... 1 | 1 | |
| PEK | Peaking center frequency | 0 ... 3 | 2 | |
| ACL | Automatic color limiting | 0 ... 1 | 0 | |
| FCO | Forced color limiting | 0 ... 1 | 0 | |
| SCBT | Screen brightness | 0 ... 63 | 45 | |
| SSP | Sub Sharpness gain adjustment | 0 ... 23 | 20 | |
| PSNS | Identify sensitivity PAL/NTSC decoder | 0 ... 1 | 1 | |

4-2-3 Option Bytes

In the Service Mode, various can be selected via the Option Table. Example:

Option Table:XX XX XX XX

| | | |
|----|------------|---------------|
| 1 | LNA | ON |
| 2 | SYSTEM | CZ |
| 3 | AUDIO | STEREO |
| 4 | JACK | SCART |
| 5 | ZOOM | NOR/ZOOM/16:9 |
| 6 | AUTO POWER | ON |
| 7 | SBL | OFF |
| 8 | 2nd SIF | ON |
| 9 | HOTEL MODE | OFF |
| 10 | BKS | ON |
| 11 | HIGH DEVIA | ON |
| 12 | HELP MENU | ON |
| 13 | TIME | ON |
| 14 | V-GUARD | OFF |

4-2-4 RESET

The Reset Mode is used during factory inspection.
Function Reset:

| | |
|------------------|---------------|
| 1. Picture | Custom |
| 2. Auto Volume | Off |
| 3. Color System | Auto (option) |
| 4. Sound System | D/K (option) |
| 5. Blue Screen | Off |
| 6. Low Noise AMP | Off (option) |
| 7. Volume | 10 |
| 8. CH. Skip | Erased |
| 9. CH. Lock | Off |
| 10. Timer | Off |

4-3 Other Adjustments

4-3-1 General

1. Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.
2. The picture should have good black and white details. There should be no objectionable color shading; if color shading is present, perform the purity and convergence adjustments described below.
3. Use the specified test equipment or its equivalent.
4. Correct impedance matching is essential.
5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.
6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
8. To protect against shock hazard, use an isolation transformer.

4-3-2 Automatic Degaussing

A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set has been moved or turned in a different direction, disconnect its AC power for at least 30 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before removing power.

4-3-3 High Voltage Check

CAUTION: There is no high voltage adjustment on this chassis. The B+ power supply must be set to +125 volts (Full color bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.
2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).
3. The high voltage should not exceed 27.5KV.
4. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 27.5KV under any conditions.

4-3-4 FOCUS Adjustment

1. Input a black and white signal.
2. Adjust the tuning control for the clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

4-3-5 Cathode Voltage Adjustment (Screen Adjust)

1. Input a gray scale pattern.
(Use a pattern generator, PM5518)
2. Enter "Adjustment" Mode:
(1) DISPLAY → FACTORY
(2) STAND-BY → DISAPALY → MENU
→ MUTE → POWER ON
3. Select "G2 adjust" by pressing channel key ▲ or ▼
4. Enter "G2 adjust" by pressing channel key ◀ or ▶
5. Adjust the screen Vr (On the FBT), so that OSD becomes "SCREEN ADJUST:OK"

4-3-6 Purity Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Plug in the CRT deflection yoke and tighten the clamp screw.
3. Plug the convergence yoke into the CRT and set in as shown in Fig. 4-2.
4. Input a black and white signal.
5. Fully demagnetize the receiver by applying an external degaussing coil.
6. Turn the CONTRAST and BRIGHTNESS controls to maximum.
7. Loosen the clamp screw holding the yoke. Slide the yoke backward or forward to provide vertical green belt. (Fig. 4-3).
8. Tighten the convergence yoke.
9. Slowly move the deflection yoke forward, and adjust for the best overall green screen.
10. Temporarily tighten the deflection yoke.
11. Produce blue and red rasters by adjusting the low-light controls. Check for good purity in each field.
12. Tighten the deflection yoke.

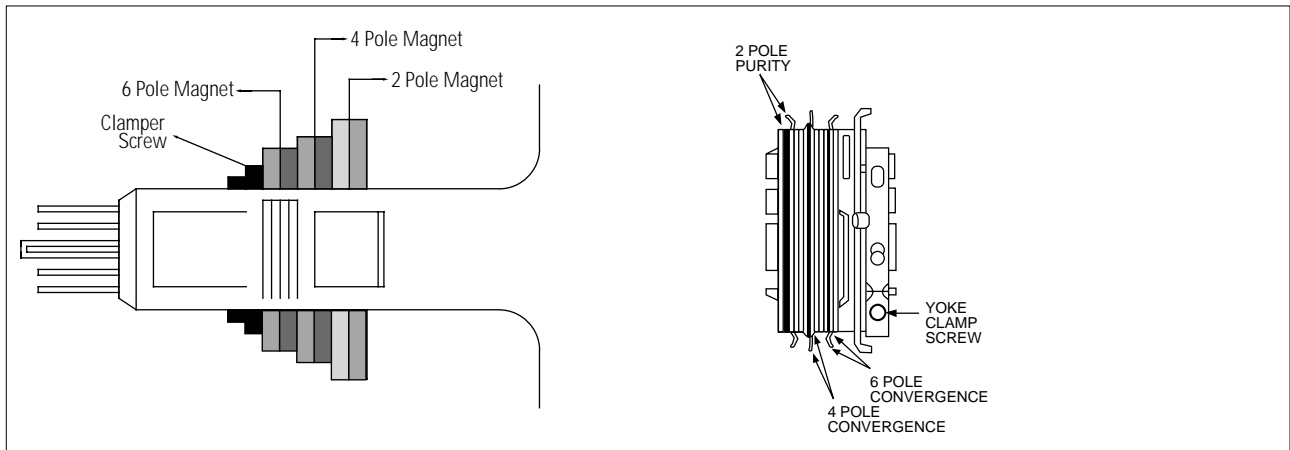


Fig. 4-2 Convergence Magnet Assembly

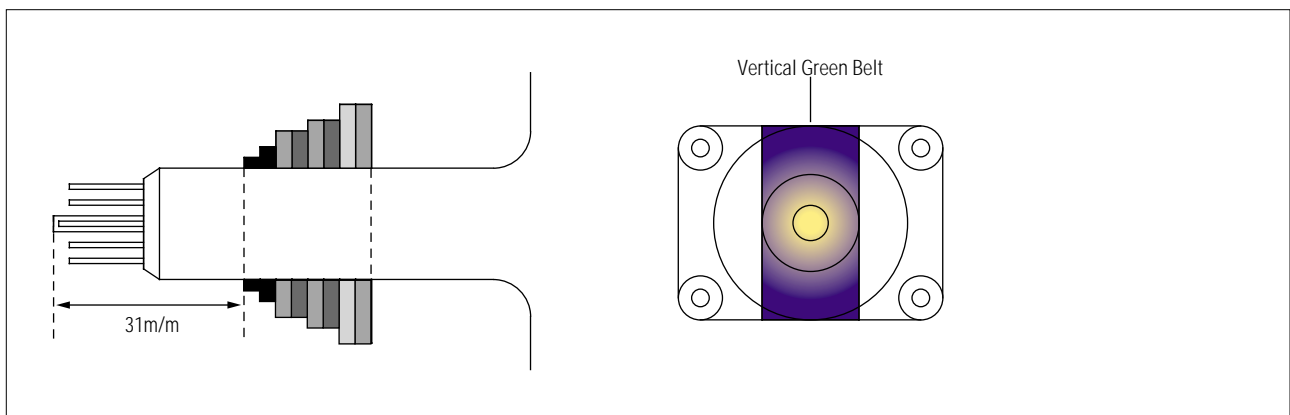


Fig. 4-3 Center Convergence Adjustment

4-3-7 White Balance Adjustment

(a) Set up

1. Warm up the TV for at least 30 minutes in the Aging Mode (OSD White). This mode is displayed by entering the following sequence:

DISPLAY → FACTORY → FACTORY

2. Input a Toshiba pattern.

(b) Low-Light Adjustment

1. Set SBT to 2.5 ± 0.5 fL in the Factory Service Mode with using CA100. See Fig. 4-4 ②.
2. Adjust RG,BG so that the levels are suitable to each local area.

(c) High-Light Adjustment

1. 50 21"flat in the Factory Service Mode with using CA100. See Fig. 4-4 ①.

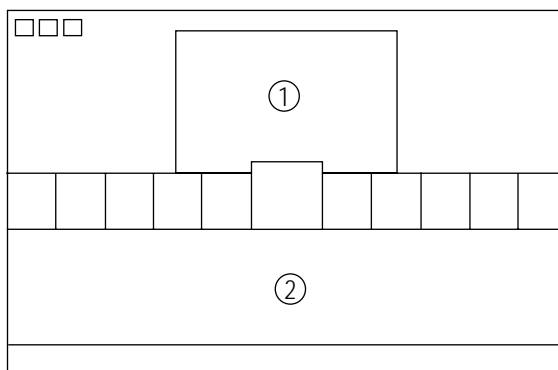


Fig. 4-4

4-3-8 Center Convergence Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Adjust the two tabs of the 4 pole magnets to change the angle between them. Superimpose the red and blue vertical lines in the center area of the screen.
3. Adjust the Brightness and Contrast controls for a well defined picture.
4. Adjust the two-tab pairs of the 4 pole magnets, and change the angle between them. Superimpose the red and the blue vertical lines in the center area of the screen.
5. Turn the both tabs at the same time, keeping the angle constant, and superimpose the red and blue horizontal line in the center of the screen.
6. Adjust the two-tab pairs of the 6-pole magnets to superimpose the red and blue line onto the green. (Changing the angle affects the vertical lines, and rotating both magnets affects the horizontal lines.)
7. Repeat adjustments 2~6, if necessary.
8. Since the 4-pole magnets and 6-pole magnets interact, the dot movement is complex (Fig. 4-5).

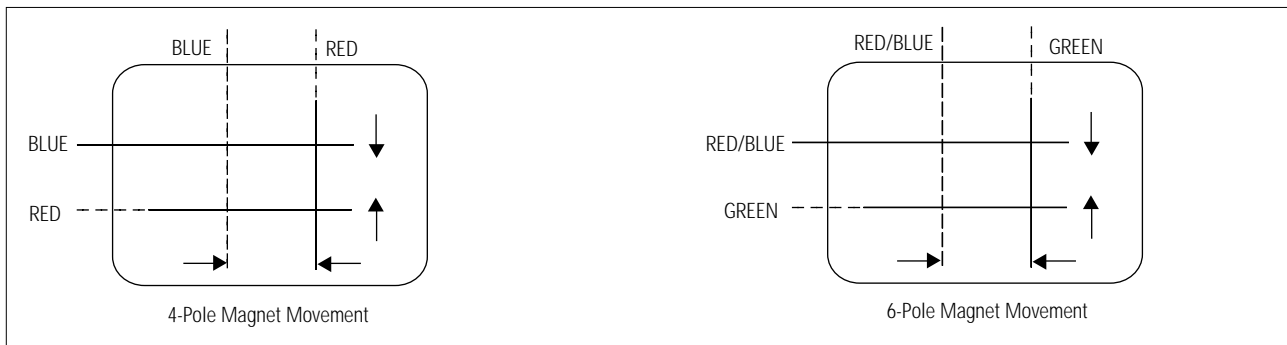


Fig. 4-5 Center Convergence Adjustment

4-3-9 RF AGC Adjustment

Set the AGC data to 33 (Factory Mode).

4-3-10 Sub-Color Adjustment

Set $\frac{PSR}{NSR}$ data to $\frac{2}{5}$ (Factory Mode).

4-3-11 Geometry Adjustment

VS→VSL→HS

1. Input a lion head pattern (in the PAL channel).
2. Set the SC (S-Correction) as follows :
24(21"flat) and VA 40 so that the lion head circle becomes oval.
3. Adjust with VSL (Vertical-Slope) so that the bottom margin of the picture is 4.
6. Adjust HS (using the width coil) so that the left and right margins of the picture are 5.

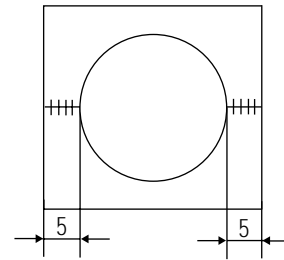


Fig. 4-9

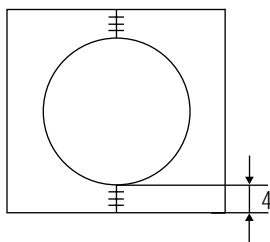


Fig. 4-7

4. Adjust with VS (Vertical shift) so that the top margin of the picture is 4.

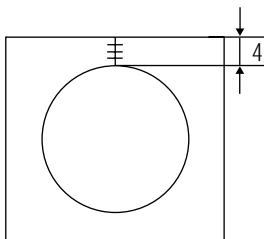
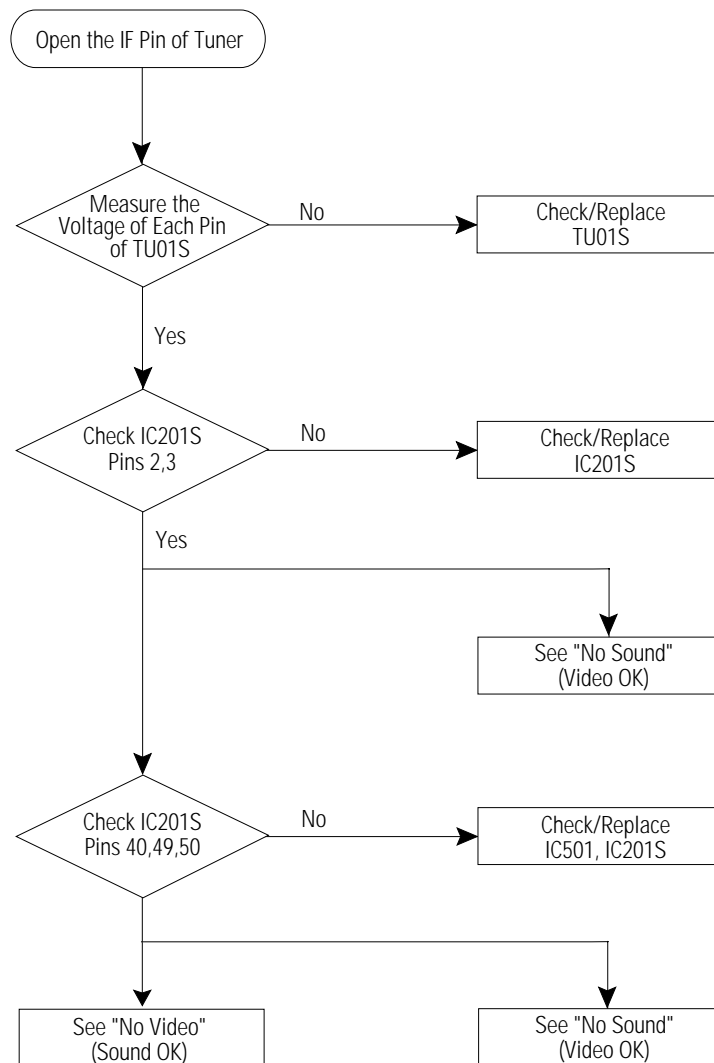


Fig. 4-8

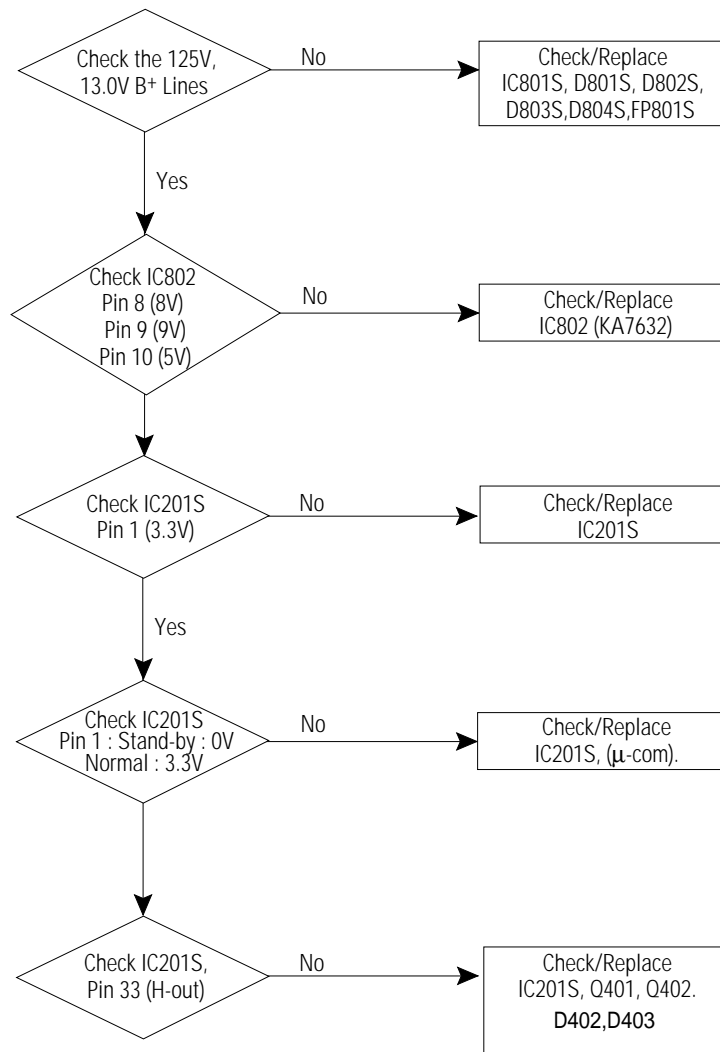
5. Adjust with HS (Horizontal Shift) so that the lion-head pattern and CRT centers are aligned.

5. Troubleshooting

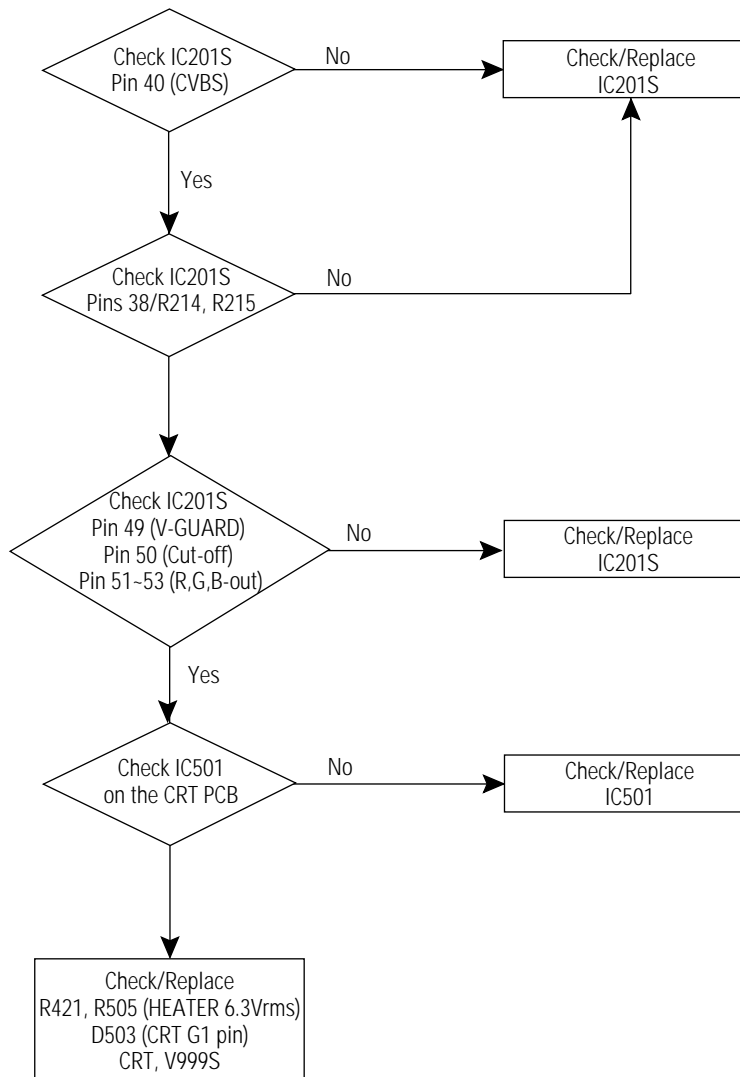
5-1 No Video (Raster On, No Sound)



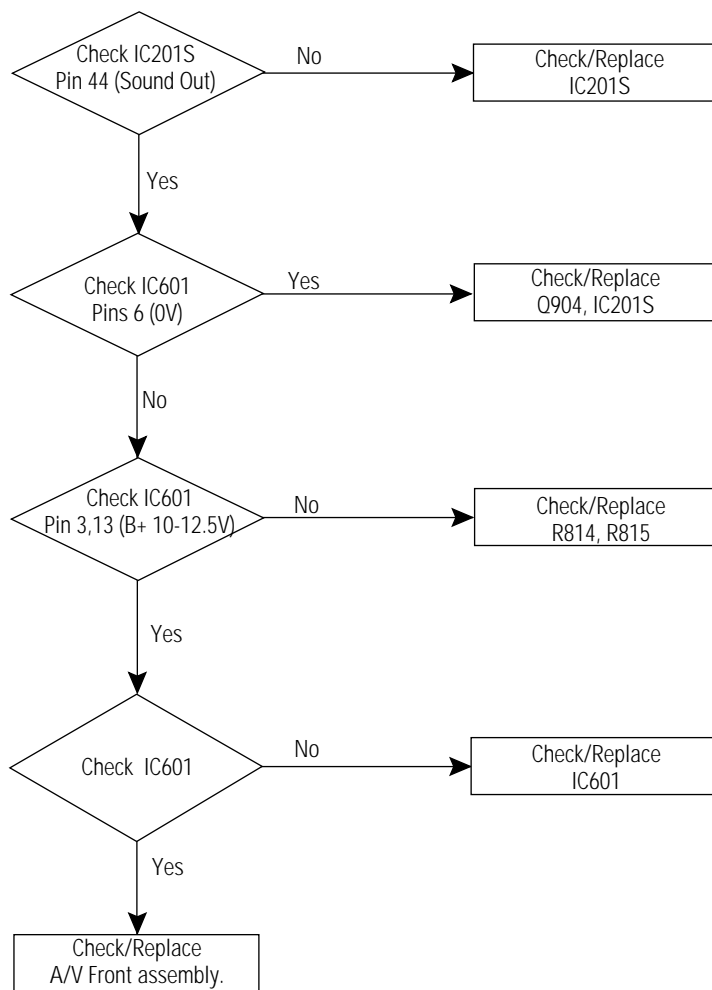
5-2 No Power



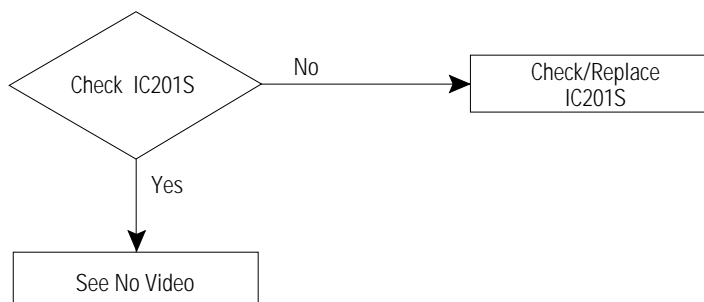
5-3 No Video (Sound OK)



5-4 No Sound (Video OK)



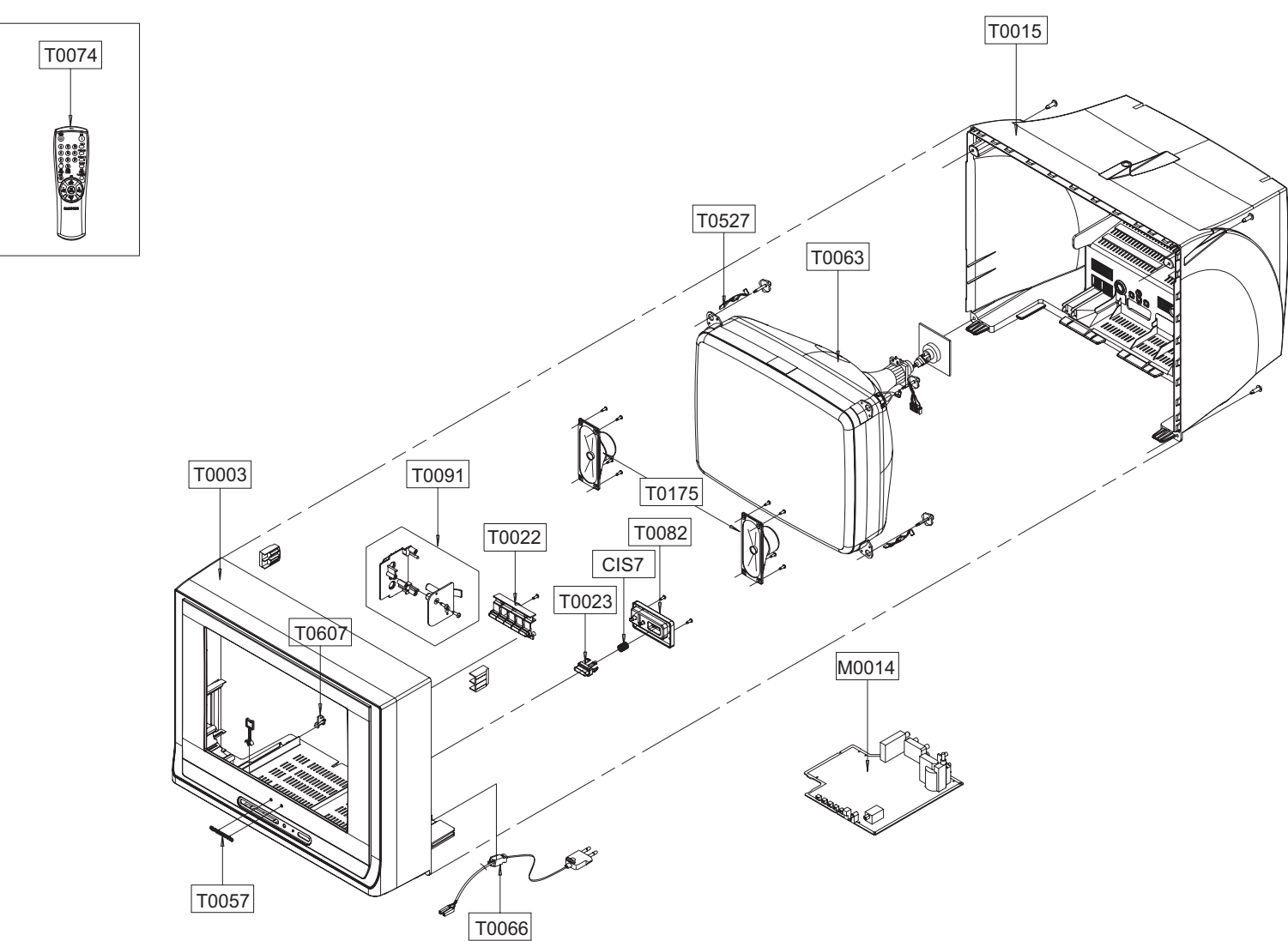
5-5 No TTX



6. Exploded View & Parts List

6-1 CS21M16MJZXNWT

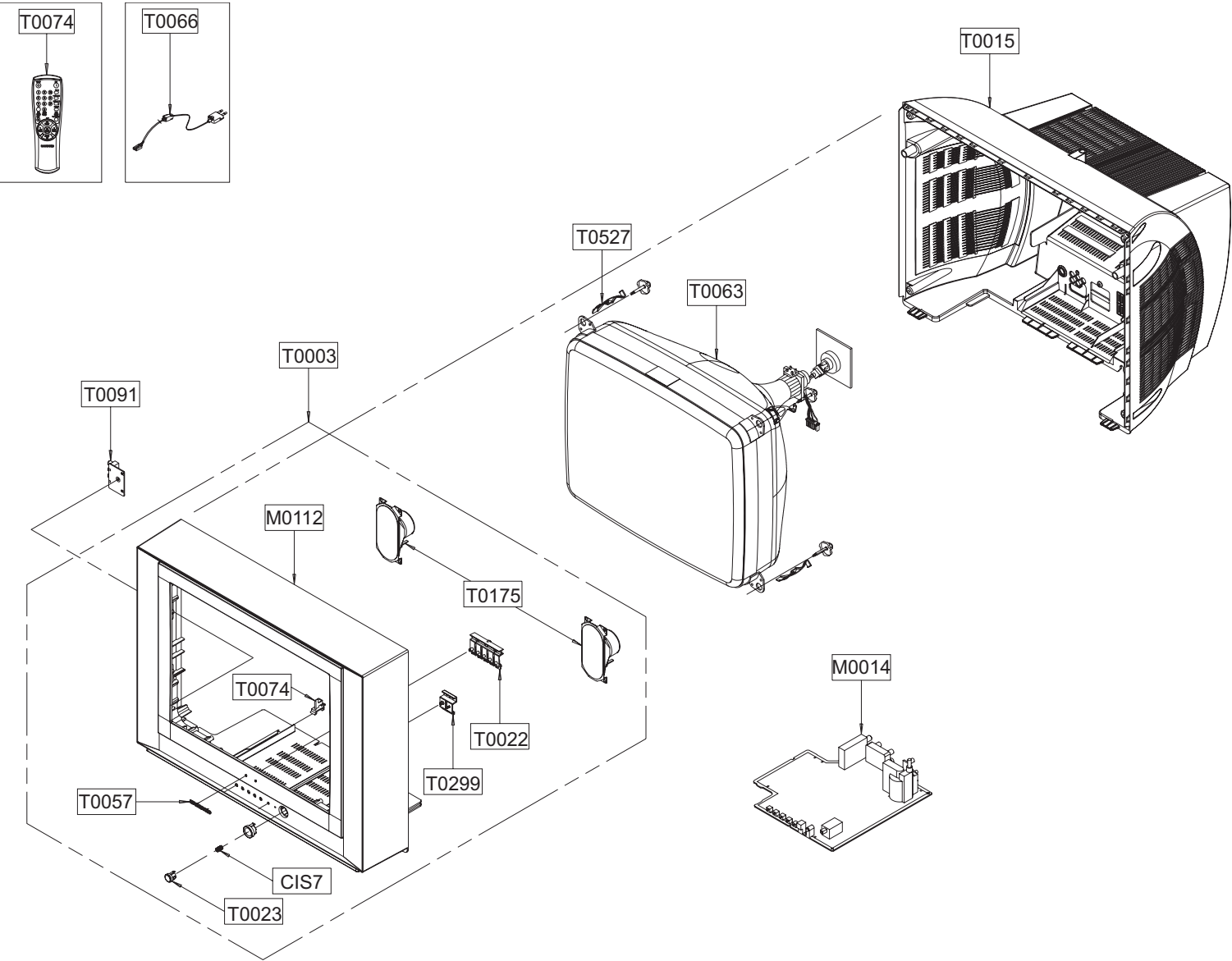
You can search for the updated part code through ITSELF web site.
URL : <http://itself.sec.samsung.co.kr>



| Loc. | Code No | Description Specification | Q'ty | S.N.A |
|-------|-------------|-------------------------------------------|------|-------|
| CIS7 | AA61-60003J | SPRING ETC-CS;- ,SUS304,-,-,OD6,N7,OD6,-, | 1 | S.N.A |
| M0014 | AA94-14472H | ASSY PCB MAIN;CS21M16MJZXNWT,KS9A | 1 | |
| T0003 | AA64-03839A | CABINET-FRONT;21M16,HQ,TT,SEH,HIPS,HB,G4 | 1 | S.N.A |
| T0015 | AA64-03844A | CABINET BACK;21M16,TT,TSE,SAVINA,HIPS,FV | 1 | |
| T0022 | AA64-03837A | KNOB-CONTROL;15,17M16,ABS,HB,G3676,SVM30 | 1 | S.N.A |
| T0023 | AA64-03823A | KNOB-POWER;29M16,ABS,HB,G3676,SVM3012 | 1 | |
| T0057 | AA64-70123A | BADGE-BRAND;NEW,AL,L50,FLAT,SILVER,SAMSU | 1 | |
| T0063 | AA03-00403A | CRT COLOR;A51QDX993X,0MG,1.75MH,18MH,3.1 | 1 | |
| T0066 | AA96-20109B | ASSY POWER CORD;- ,CP2/NO(4.0),H/C250,KKP | 1 | |
| T0074 | AA59-00332D | REMOCON;TM75,DEEP IMPACT,31,G6148,PAL,EX | 1 | |
| T0082 | AA64-03838A | WINDOW LED;15,17M16,PC,CLR | 1 | S.N.A |
| T0091 | AA94-13418D | ASSY PCB MISC-A/V SIDE;21D8,KS1A,MONO | 1 | |
| T0175 | AA96-10146C | ASSY SPEAKER P;- ,8ohm,5W,3001-000274,350 | 1 | |
| T0527 | AA65-00009B | CLAMPER CORE-D,COIL;21A8,NYLON 66,V0,-,- | 4 | |
| T0607 | AA61-40113A | STOPPER-PCB;501H,HIPS,-,-,HB,NTR,- | 1 | |

6-2 CS21K30MJZXNWT

You can search for the updated part code through ITSELF web site.
URL : <http://itself.sec.samsung.co.kr>



| Loc. | Code No | Description Specification | Q'ty | S.N.A |
|-------|-------------|------------------------------------------|------|-------|
| CIS7 | AA61-60003J | SPRING ETC-CS;-SUS304,-,-,OD6,N7,OD6,-, | 1 | S.N.A |
| M0014 | AA94-14472H | ASSY PCB MAIN;CS21M16MJZXNWT,KS9A | 1 | |
| M0112 | AA63-00894A | COVER-FRONT;21K30,HIPS,HB,SV012P,BKN1420 | 1 | S.N.A |
| T0003 | AA96-02843N | ASSY COVER P-FRONT;21K30(TTSEC),HIPS,HB, | 1 | |
| T0015 | AA64-03844A | CABINET BACK;21M16,TT,TSE,SAVINA,HIPS,FV | 1 | |
| T0022 | AA64-04162A | KNOB CONTROL;15K30,ABS,HB,G3676,SVM3012 | 1 | S.N.A |
| T0023 | AA64-04161A | KNOB-POWER;15K30,ABS,HB,G3676,SVM3012 | 1 | S.N.A |
| T0057 | AA64-70123A | BADGE-BRAND;NEW,AL,L50,FLAT,SILVER,SAMSU | 1 | |
| T0063 | AA03-00403A | CRT COLOR;A51QDX993X,0MG,1.75MH,18MH,3.1 | 1 | |
| T0066 | AA96-20109B | ASSY POWER CORD;-CP2/NO(4.0),H/C250,KKP | 1 | |
| T0074 | AA59-00332D | REMOCON;TM75,DEEP IMPACT,31,G6148,PAL,EX | 1 | |
| T0091 | AA94-13418D | ASSY PCB MISC-A/V SIDE;21D8,KS1A,MONO | 1 | |
| T0175 | AA96-10146C | ASSY SPEAKER P;-8ohm,5W,3001-000274,350 | 1 | |
| T0299 | AA64-04165A | WINDOW-RMC LED;15K30,PC,CLEAR | 1 | S.N.A |
| T0527 | AA65-00009B | CLAMPER CORE-D,COIL;21A8,NYLON 66,V0,-,- | 4 | |
| T0607 | AA61-40113A | STOPPER-PCB;501H,HIPS,-,-,HB,NTR,- | 1 | |

You can search for the updated part code through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr>

7. Electrical Parts List

7-1 CS21M16MJZXNWT

| Level | Loc. No. | Code No. | Description ; Specification | Remark | Level | Loc. No. | Code No. | Description ; Specification | Remark | |
|--------------|----------|-------------|--------------------------------------------|------------------------------------------|-------|----------|-------------|------------------------------------------|------------------------------------------|--|
| ASSY CHASSIS | | | | | | | | | | |
| 1 | M0017 | AA91-08122J | ASSY CHASSIS;CS21M16MJZXNWT;KS9A | S.N.A | ... | IC301 | AA96-00244M | ASSY HEAT SINK P;LA78040N,S,AA64-00046 | S.N.A | |
| ..2 | T0091 | AA94-13418D | ASSY PCB MISC-A/V SIDE;21D8,KS1A,MONO | | ...4 | CIS1 | 0205-001154 | OIL-SILICON;G746,-,- | S.N.A | |
| ...3 | T0245 | 0202-001378 | SOLDER-WIRE FLUX;RS-107,RS60-1.2AA,D1.2, | | ...4 | T0088 | 1204-002121 | IC-VERTICAL DEF;LA78040N,TO220,7P,-,PLA | | |
| ...3 | JE601 | 3722-000143 | JACK-PHONE,1P(VER),3.4PI,AG,BLK,NO | | ...4 | M0081 | 6003-000335 | SCREW-TAPTITE;RH,+2S,M3,L8,ZPC(YEL),SWR | S.N.A | |
| ...3 | JR01 | 3722-001282 | JACK-PIN;2P(3P),3.2mm,AU,BLK,- | | ...4 | T0175 | AA62-00046A | HEAT SINK-PS;-,-,T1.0,-,D1(DREAM) 60X25X | S.N.A | |
| ...3 | T0245 | AA39-20461C | LEAD CONNECTOR-ASSY;11P,300MM,YBNH250-1 | | ...3 | IC802 | AA96-00245A | ASSY HEAT SINK P;AA62-00055A,KA7632 | S.N.A | |
| ...3 | T0238 | AA97-14337D | ASSY AUTO;21D8,KS1A,MONO | S.N.A | ...4 | IC062 | 1203-001939 | IC-MULTI REG;7632,SIP,10P,-,PLASTIC,3.3 | | |
| ...4 | RE01 | 2001-001153 | R-CARBON(S);47ohm,5%,1/2W,AA,TP2.4x6.4m | | ...4 | M0081 | 6003-000334 | SCREW-TAPTITE;RH,+2S,M3,L6,ZPC(YEL),SWR | S.N.A | |
| ...4 | RE02A | 2001-001153 | R-CARBON(S);47ohm,5%,1/2W,AA,TP2.4x6.4m | | ...4 | T0175 | AA62-00055A | HEAT SINK-PS;-,-,T1.0,-,35*15*25,D1,-,- | S.N.A | |
| ...4 | CE04 | 2202-000121 | C-CERAMIC,MLC-AXIAL;0.1nF,10%,50V,Y5P,- | | ...3 | LD901 | AA96-00555A | ASSY LED GUIDE;-,-,UEX-LD-030,GREEN | S.N.A | |
| ...4 | CE07 | 2202-000222 | C-CERAMIC,MLC-AXIAL;3.3nF,20%,16V,Y5P,TP | | ...3 | IC501 | AA96-50311A | ASSY HEAT SINK P;-VIDEO,AA62-30175D,TDA | S.N.A | |
| ...4 | CE01 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP;6.3x11,5 | | ...4 | T0074 | 1201-001159 | IC-VIDEO AMP;6107,ZSIP9P,-,SINGLE,-,PLA | | |
| ...4 | LE04 | 2701-000114 | INDUCTOR-AXIAL;10UH,10%,2534 | | ...4 | M0081 | 6003-000334 | SCREW-TAPTITE;RH,+2S,M3,L6,ZPC(YEL),SWR | S.N.A | |
| ...4 | LE01 | 2701-000158 | INDUCTOR-AXIAL;22UH,10%,2534 | | ...4 | T0175 | AA62-30175D | HEAT SINK-PS;-SECC,T1.0,-,33X15X30 FT-2 | S.N.A | |
| ...4 | T0091 | AA41-00567C | PCB-AV SIDE;CS21M16,17K30...FR-1,1,A,1 | S.N.A | ...3 | M0014 | AA97-14853G | ASSY AUTO-MAIN;CS21M16MJZXNWT,KS9A | S.N.A | |
| ..2 | M0014 | AA94-14472H | ASSY PCB MAIN;CS21M16MJZXNWT,KS9A | | ...4 | D201 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T | | |
| ...3 | T0245 | 0202-001378 | SOLDER-WIRE FLUX;RS-107,RS60-1.2AA,D1.2, | S.N.A | ...4 | D811 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T | | |
| ...3 | D402 | 0402-001599 | DIODE-RECTIFIER;DGP30L,1500,3A,DO-201AD | | ...4 | D901 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T | | |
| ...3 | D805E | 0402-001603 | DIODE-RECTIFIER;MUR480E,800V,4A,DO-201AD | | ...4 | D502 | 0401-000006 | DIODE-SWITCHING;BAV21,250V,200MA,DO-35,T | | |
| ...3 | Q401 | 0502-001160 | TR-POWER;2SD2499,NPN,50000mW,TO-3P,BK,8- | | ...4 | D503 | 0401-000006 | DIODE-SWITCHING;BAV21,250V,200MA,DO-35,T | | |
| ...3 | IC112 | 1103-001106 | IC-EEPROM;24C080,1Kx8Bit,DIP,8P,9.6x6.4m | | ...4 | D504 | 0401-000006 | DIODE-SWITCHING;BAV21,250V,200MA,DO-35,T | | |
| ...3 | T0900 | 1404-001045 | THERMISTOR-NTC;4.7ohm,15%,2900K,35.0mW,T | | ...4 | D804 | 0401-000006 | DIODE-SWITCHING;BAV21,250V,200MA,DO-35,T | | |
| ...3 | CY801S | 2201-000446 | C-CERAMIC,DISC;3.3NF,20%,400V,Y5U,BK,15X | | ...4 | D501 | 0402-000254 | DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP | | |
| ...3 | C410A | 2301-001402 | C-FILM,LEAD-PFF;33nF,5%,630V,BK,20x11x17 | | ...4 | D803 | 0402-000254 | DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP | | |
| △ | 3 | CX801S | 2306-000318 | C-FILM,LEAD-PFF;220nF,20%,275V,BK,26x7x1 | | ...4 | D812 | 0402-000493 | DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L | |
| △ | 3 | CR402S | 2306-000350 | C-FILM,LEAD-PFF;270nF,5%,400V,BK,26X18.5 | | ...4 | D403 | 0402-000540 | DIODE-RECTIFIER;RU20A,600V,1.5A,-,TP | |
| △ | 3 | CR410S | 2306-000353 | C-FILM,LEAD-PFF;6.3nF,5%,1.6KV,BK,26.5x8 | | ...4 | D301 | 0402-000546 | DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T | |
| ...3 | X901 | 2801-004033 | CRYSTAL-UNIT;12MHZ,30PPM,28-AAM,30PF,300 | | ...4 | D304 | 0402-000546 | DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T | | |
| △ | 3 | SF101S | 2904-001063 | FILTER-SAW AV;38.9MHz,SIP5K,TP;18.5dB,B/ | | ...4 | D401 | 0402-000546 | DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T | |
| △ | 3 | SW801S | 3403-001134 | SWITCH-PUSH;250V,5A,DPST,ON-OFF,- | | ...4 | D801S | 0402-001111 | DIODE-RECTIFIER;1N5397GP600V,1.5A,-,TP | |
| ...3 | FD802 | 3601-000281 | FUSE-CARTRIDGE;250V,4A,TIME-LAG,GLASS,5. | | ...4 | D802 | 0402-001111 | DIODE-RECTIFIER;1N5397GP600V,1.5A,-,TP | | |
| △ | 3 | V999S | 3704-001105 | SOCKET-CRT;11P,20PI,26.5PI,N/- | | ...4 | D802S | 0402-001111 | DIODE-RECTIFIER;1N5397GP600V,1.5A,-,TP | |
| ...3 | CN701 | 3711-000628 | HEADER-BOARD TO CABLE;BOX,11P,1R,2.5MM,S | | ...4 | D803S | 0402-001111 | DIODE-RECTIFIER;1N5397GP600V,1.5A,-,TP | | |
| ...3 | CN602 | 3711-002643 | HEADER-BOARD TO CABLE;BOX,4P,1R,2.5mm,ST | | ...4 | D804S | 0402-001111 | DIODE-RECTIFIER;1N5397GP600V,1.5A,-,TP | | |
| ...3 | JS701 | 3722-000183 | JACK-SCART;21P,4mm,SN,BLK,NO | | ...4 | D303 | 0402-001321 | DIODE-RECTIFIER;1A4G,400,1A,TO-220F,TP | | |
| ...3 | T0119 | AA09-00479A | IC MICOM;TDA9381PS/N3/3,SPM-802EEN6,64P, | | ...4 | D809 | 0402-001321 | DIODE-RECTIFIER;1A4G,400,1A,TO-220F,TP | | |
| △ | 3 | T801S | AA26-00134A | TRANS SWITCHING;CS21S5T,160V-260V,PM2 P | | ...4 | D302 | 0402-001352 | DIODE-RECTIFIER;GUF15G-20A,400V,1.5A,MEL | |
| ...3 | T401 | AA26-50001B | TRANS-HORIZ.DRIVE;-,-,7.1mH,-,-,102uH, | | ...4 | DZ402 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | | |
| ...3 | T0296 | AA27-00122A | COIL LINEARITY;90UH,90UH,L81 DR10x10,7.5 | | ...4 | DZ807 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | | |
| ...3 | T0010 | AA27-00296A | COIL CHOKE;220UH,CPTTV,220UH,10%,3ADR14 | | ...4 | DZ810 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | | |
| △ | 3 | LX801S | AA29-00015A | FILTER LINE NOISE;WS32W8,28-20MH 1.5A,- | | ...4 | DZ903 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | |
| ...3 | D0254 | AA32-00015A | MODULE REMOCON;FRP-3521H31,38KHZ,940MM,M | | ...4 | DZ904 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | | |
| ...3 | T0245 | AA39-20620C | LEAD CONNECTOR-ASSY;9P,500MM,YBNH250-09 | | ...4 | DZ905 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | | |
| ...3 | CIS3 | AA40-00077A | TUNER;TECC0949PL35A(S),PAL,181CH,38.9MHZ | | ...4 | DZ101 | 0403-000700 | DIODE-ZENER;TZP33A,5%,1000MW,DO-41,TP | | |
| ...3 | GT301 | AA60-40012F | PIN-GT;4P,2.36PI,6/12/14mm,NYLON66,LOCKI | S.N.A | ...4 | DZ303 | 0403-000700 | DIODE-ZENER;TZP33A,5%,1000MW,DO-41,TP | | |
| ...3 | GT801 | AA60-40012G | PIN-GT;3P,2.36PI,10/5mm,NYLON66,LOCKING | S.N.A | ...4 | DZ803 | 0403-000700 | DIODE-ZENER;TZP33A,5%,1000MW,DO-41,TP | | |
| △ | 3 | IC801S | AA96-00242D | ASSY HEAT SINK P;SCREWA62-30186B,5Q0765 | S.N.A | ...4 | DZ201 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ...4 | CIS1 | 0205-001154 | OIL-SILICON;G746,-,- | S.N.A | ...4 | DZ204 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...4 | T0086 | 1203-002916 | IC-PWM CONTROLLER;KA5Q0765RTH-YDTU,TO-22 | | ...4 | DZ205 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...4 | M0081 | 6003-000335 | SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW | S.N.A | ...4 | DZ207 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...4 | T0066 | AA62-00063A | HEAT SINK-ES;DP,-,-,AA62-30186B,-,-,- | S.N.A | ...4 | DZ306 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...5 | T0066 | AA62-30186B | HEAT SINK-ES;-,-,SILVER,171J + COVER-H | S.N.A | ...4 | DZ307 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...5 | T0016 | AA63-30189A | COVER-HEATSINK;-;PC-ABS,TO.8,-,-,V0,NTR, | S.N.A | ...4 | DZ501 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...3 | D806 | AA96-00243D | ASSY HEAT SINK P;D06U20S,AA62-00045B,BRI | S.N.A | ...4 | DZ502 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...4 | | 0402-001374 | DIODE-RECTIFIER;FFPF06U20S,200V,6A,TO-22 | | ...4 | DZ503 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...4 | M0081 | 6003-000335 | SCREW-TAPTITE;RH,+2S,M3,L8,ZPC(YEL),SWR | S.N.A | ...4 | DZ504 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...4 | T0175 | AA62-00045A | HEAT SINK-PS;-,-,T1.0,-,-,DREAM,-,-,-,- | S.N.A | ...4 | DZ701 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...4 | CIS1 | 0205-001154 | OIL-SILICON;G746,-,- | S.N.A | ...4 | DZ702 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...3 | IC601 | AA96-00244G | ASSY HEAT SINK P;-AUDIO,AA62-00046A,TDA | S.N.A | ...4 | DZ703 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...4 | T0085 | 1201-001741 | IC-AUDIO AMP;TDA8944J,DBS,17P,937ML,DUA | | ...4 | DZ704 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...4 | M0081 | 6003-000335 | SCREW-TAPTITE;RH,+2S,M3,L8,ZPC(YEL),SWR | S.N.A | ...4 | DZ808 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | | |
| ...4 | T0607 | AA61-10162B | BRACKET-IC;-;SBHG-1,T1.0,-,-,100 | S.N.A | ...4 | DZ801 | 0403-001140 | DIODE-ZENER;RD10ESAB-T4,9.7-10.2V,400MW, | | |
| ...4 | T0175 | AA62-00046A | HEAT SINK-PS;-,-,T1.0,-,-,D1(DREAM) 60X25X | S.N.A | ...4 | DZ302 | 0403-001221 | DIODE-ZENER;UZ39BSB,35.36-37.19V,500MW,D | | |
| ...4 | CIS1 | 0205-001154 | OIL-SILICON;G746,-,- | S.N.A | ...4 | DZ806 | 0403-001317 | DIODE-ZENER;MTZJ3.0B,3.01-3.22V,500MW,DO | | |
| ...4 | | | | | ...4 | DZ802 | 0403-001318 | DIODE-ZENER;MTZJ4.3B,4.17-4.43V,500MW,DO | | |
| ...4 | | | | | ...4 | DZ401 | 0403-001319 | DIODE-ZENER;MTZJ4.7C,4.68-4.93V,500MW,DO | | |
| ...4 | | | | | ...4 | DZ901 | 0403-001319 | DIODE-ZENER;MTZJ4.7C,4.68-4.93V,500MW,DO | | |
| ...4 | | | | | ...4 | DZ907 | 0403-001319 | DIODE-ZENER;MTZJ4.7C,4.68-4.93V,500MW,DO | | |

| Level | Loc. No. | Code No. | Description ; Specification | Remark |
|-------|----------|-------------|--------------------------------------------|--------|
|4 | DZ908 | 0403-001319 | DIODE-ZENER;MTZJ4.7C,4.68-4.93V,500MW,DO | |
|4 | DZ203 | 0403-001322 | DIODE-ZENER;MTZJ8.2B,7.78-8.19V,500MW,DO | |
|4 | DZ805 | 0403-001327 | DIODE-ZENER;MTZJ18A,16.22-17.06V,500MW,DO | |
|4 | DZ301 | 0403-001328 | DIODE-ZENER;MTZJ22A,20.15-21.2V,500MW,DO | |
|4 | DZ305 | 0403-001328 | DIODE-ZENER;MTZJ22A,20.15-21.2V,500MW,DO | |
|4 | Q201 | 0501-000283 | TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T | |
|4 | Q901 | 0501-000283 | TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T | |
|4 | Q402 | 0501-000369 | TR-SMALL SIGNAL;KSC2331-Y,NPN,1000mW,TO- | |
|4 | Q202 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T | |
|4 | Q205 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T | |
|4 | Q701 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T | |
|4 | Q903 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T | |
|4 | Q905 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T | |
|4 | Q902 | 0504-001159 | TR-DIGITAL;SRC1211M,NPN,400MW,10KOHM,TO- | |
| △ | VX801S | 1405-000187 | VARIATOR;750V,1250A,12.5x7mm,TP | |
|4 | R207 | 2001-000005 | R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
|4 | R905 | 2001-000005 | R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
|4 | R906 | 2001-000005 | R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
|4 | R218 | 2001-000008 | R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R205 | 2001-000011 | R-CARBON;75KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | J125 | 2001-000016 | R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R301 | 2001-000016 | R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R618 | 2001-000019 | R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R619 | 2001-000019 | R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R843 | 2001-000019 | R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R409 | 2001-000022 | R-CARBON(S);33OHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R823 | 2001-000037 | R-CARBON(S);330OHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R230 | 2001-000221 | R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R902 | 2001-000241 | R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R904 | 2001-000241 | R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R923 | 2001-000273 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | J137 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R211 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R223 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R225 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R501 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R502 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R506 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R510 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R511 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R512 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R708 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R718 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R909 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R911 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R912 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R913 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R914 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R933 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R934 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R224 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R828 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R910 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R919 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R920 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R921 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R922 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R924 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R928 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R116 | 2001-000319 | R-CARBON;120KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R214 | 2001-000325 | R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R215 | 2001-000325 | R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R717 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R918 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R926 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R916 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R917 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R220 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R901 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R903 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R907 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R908 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R244 | 2001-000548 | R-CARBON;270KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R206 | 2001-000563 | R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R829 | 2001-000563 | R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R929 | 2001-000563 | R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |

| Level | Loc. No. | Code No. | Description ; Specification | Remark |
|-------|----------|-------------|---------------------------------------------|--------|
|4 | R208 | 2001-000591 | R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R602 | 2001-000591 | R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R605 | 2001-000591 | R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R115 | 2001-000645 | R-CARBON;330KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R202 | 2001-000660 | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R721 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R841 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R925 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R227 | 2001-000739 | R-CARBON;4.7MOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R228 | 2001-000739 | R-CARBON;4.7MOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R109 | 2001-000786 | R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R209 | 2001-000793 | R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R927 | 2001-000793 | R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R203 | 2001-000857 | R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R204 | 2001-000857 | R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R210 | 2001-000857 | R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R713 | 2001-000857 | R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R715 | 2001-000857 | R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R601 | 2001-000878 | R-CARBON;6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R607 | 2001-000878 | R-CARBON;6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R110 | 2001-000924 | R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R915 | 2001-000924 | R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R108 | 2001-000947 | R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R222 | 2001-000947 | R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R701 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R702 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R719 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R720 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R213 | 2001-001006 | R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
|4 | R504 | 2001-001062 | R-CARBON(S);10MOHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R414 | 2001-001078 | R-CARBON(S);15KOHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R806 | 2001-001108 | R-CARBON(S);22KOHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R411 | 2001-001114 | R-CARBON(S);270OHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R405 | 2001-001116 | R-CARBON(S);270OHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R831 | 2001-001117 | R-CARBON(S);2KOHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R833 | 2001-001117 | R-CARBON(S);2KOHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R840 | 2001-001122 | R-CARBON(S);3.9KOHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R808 | 2001-001138 | R-CARBON(S);390OHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R809 | 2001-001150 | R-CARBON(S);470KOHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R810 | 2001-001150 | R-CARBON(S);470KOHM,5%,1/2W,AA,TP,2.4X6.4MM | |
|4 | R423 | 2001-001194 | R-CARBON(S);82KOHM,5%,1/2W,AA,TP,2.4X6.4MM | |
| △ | RX801S | 2002-000133 | R-COMPOSITION;3.3Mohm,5%,1/2W,AA,TP,3.5x | |
|4 | R501H | 2002-001008 | R-COMPOSITION;1.8Kohm,10%,1/2W,AA,TP,3.7 | |
|4 | R502H | 2002-001008 | R-COMPOSITION;1.8Kohm,10%,1/2W,AA,TP,3.7 | |
|4 | R503 | 2002-001008 | R-COMPOSITION;1.8Kohm,10%,1/2W,AA,TP,3.7 | |
| △ | RY801S | 2002-001012 | R-COMPOSITION;8.2Mohm,5%,1/2W,AA,TP,3.7x | |
|4 | R413 | 2003-000592 | R-METAL OXIDE(S);22ohm,5%,2W,AF,TP,4x12m | |
|4 | R403 | 2003-000784 | R-METAL OXIDE(S);7.5Kohm,5%,2W,AF,TP,4x1 | |
|4 | R827 | 2003-000998 | R-METAL OXIDE;300ohm,5%,2W,AF,TP,3.9x10m | |
|4 | R802 | 2003-001040 | R-METAL OXIDE(S);47Kohm,5%,2W,AF,TP,3.9x | |
|4 | R834 | 2003-001040 | R-METAL OXIDE(S);47Kohm,5%,2W,AF,TP,3.9x | |
|4 | R315 | 2003-002069 | R-METAL OXIDE(S);470ohm,5%,2W,AF,TP,3.9x | |
|4 | R316 | 2003-002069 | R-METAL OXIDE(S);470ohm,5%,2W,AF,TP,3.9x | |
|4 | R407 | 2003-002209 | R-METAL OXIDE(S);47Kohm,5%,2W,AG,TP,3.9X | |
|4 | R814 | 2003-002228 | R-METAL OXIDE(S);0.47ohm,5%,2W,AG,TP,3.9 | |
|4 | R811 | 2003-002239 | R-METAL OXIDE(S);100KOHM,5%,2W,AF,TP,3.9 | |
|4 | R812 | 2003-002239 | R-METAL OXIDE(S);100KOHM,5%,2W,AF,TP,3.9 | |
|4 | R303 | 2003-002279 | R-METAL OXIDE(S);1.2OHM,5%,2W,AG,TP,5.6X | |
|4 | R401 | 2003-002288 | R-METAL OXIDE(S);2.2KOHM,5%,2W,AF,TP,3.9 | |
|4 | R402 | 2003-002288 | R-METAL OXIDE(S);2.2KOHM,5%,2W,AF,TP,3.9 | |
|4 | R424 | 2004-001402 | R-METAL(S);6.8Kohm,1%,1/2W,AA,TP,2.4x6.4 | |
|4 | R219 | 2004-001914 | R-METAL;39Kohm,2%,1/8W,AA,TP,1.8x3.5mm | |
|4 | R302 | 2004-001970 | R-METAL(S);1.8Kohm,1%,1/2W,AA,TP,6.5x2.5 | |
|4 | R817 | 2004-004089 | R-METAL(S);123Kohm,1%,1/2W,AA,TP,2.5x6.5 | |
|4 | R306 | 2004-004097 | R-METAL;1.6Kohm,2%,1/2W,AA,TP,2.4x6.4mm | |
|4 | R304 | 2008-000264 | R-FUSIBLE(S);1ohm,5%,1W,AF,TP,3.9x10mm | |
|4 | R825 | 2008-000284 | R-FUSIBLE(S);0.1OHM,10%,2W,AF,TP,3.9X10M | |
|4 | R824 | 2008-000294 | R-FUSIBLE(S);33ohm,5%,2W,AF,TP,3.9x10mm | |
|4 | R420 | 2008-001062 | R-FUSIBLE;39ohm,5%,2W,AF,TP,3.9x10mm | |
|4 | R421 | 2008-001148 | R-FUSIBLE;3.3OHM,5%,1W,AG,TP,3.9X12MM | |
|4 | R505 | 2008-001149 | R-FUSIBLE(S);0.22OHM,5%,2W,AF,TP,3.8X11M | |
|4 | R305 | 2008-001159 | R-FUSIBLE(S);1.5OHM,5%,1W,AF,TP,3.9X10MM | |
|4 | RW701 | 2011-001133 | R-NET;33K/24K/75x3.5%,1/8W,X,SIP,6P,TP | |
|4 | C302 | 2201-000259 | C-CERAMIC,DISC;0.18NF,10%,500V,Y5P,TP,5. | |
| △ | CR409S | 2201-000467 | C-CERAMIC,DISC;0.33NF,10%,2KV,Y5P,TP,6.3 | |
|4 | C303 | 2201-000556 | C-CERAMIC,DISC;0.47NF,10%,500V,Y5P,TP,5. | |

| Level | Loc. No. | Code No. | Description ; Specification | Remark | Level | Loc. No. | Code No. | Description ; Specification | Remark |
|-------|----------|-------------|------------------------------------------|--------|-------|----------|-------------|-------------------------------------------|--------|
|4 | C305 | 2201-000556 | C-CERAMIC,DISC;0.47NF,10%,500V,Y5P,TP,5. | |4 | C308 | 2401-000360 | C-AL;100uF,20%,50V,GP,TP,8x11.5,5 | |
|4 | C908 | 2201-000573 | C-CERAMIC,DISC;0.047NF,5%,50V,COG,TP,5X3 | |4 | C307 | 2401-000365 | C-AL;100uF,20%,50V,WT,TP,10x12.5mm, | |
|4 | C909 | 2201-000573 | C-CERAMIC,DISC;0.047NF,5%,50V,COG,TP,5X3 | |4 | C506 | 2401-000430 | C-AL;10uF,20%,250V,GP,TP,10x16mm,5m | |
|4 | C408 | 2201-000599 | C-CERAMIC,DISC;0.56NF,10%,500V,Y5P,TP,5. | |4 | C612 | 2401-000480 | C-AL;10uF,20%,50V,GP,TP,5x11,5 | |
| △ | CR404S | 2201-000639 | C-CERAMIC,DISC;0.68NF,10%,2KV,Y5P,TP,9X5 | |4 | C709 | 2401-000480 | C-AL;10uF,20%,50V,GP,TP,5x11,5 | |
|4 | C503 | 2201-000723 | C-CERAMIC,DISC;4.7NF,20%,3KV,Y5U,TP,16X5 | |4 | C820 | 2401-000481 | C-AL;10uF,20%,50V,WT,TP,5x11,5 | |
|4 | C811 | 2201-000991 | C-CERAMIC,DISC;0.56NF,10%,2KV,Y5P,TP,7.5 | |4 | C219 | 2401-000603 | C-AL;1UF,20%,50V,GP,TP,5X11,2 | |
|4 | C814 | 2201-000991 | C-CERAMIC,DISC;0.56NF,10%,2KV,Y5P,TP,7.5 | |4 | C212 | 2401-000649 | C-AL;2.2uF,20%,50V,BP,TP,5x11,5 | |
|4 | C703 | 2202-000121 | C-CERAMIC,MLC-AXIAL;0.1nF,10%,50V,Y5P,- | |4 | C221 | 2401-000660 | C-AL;2.2uF,20%,50V,GP,TP,5x11,5 | |
|4 | C704 | 2202-000121 | C-CERAMIC,MLC-AXIAL;0.1nF,10%,50V,Y5P,- | |4 | C604 | 2401-000660 | C-AL;2.2uF,20%,50V,GP,TP,5x11,5 | |
|4 | C912 | 2202-000121 | C-CERAMIC,MLC-AXIAL;0.1nF,10%,50V,Y5P,- | |4 | C605 | 2401-000660 | C-AL;2.2uF,20%,50V,GP,TP,5x11,5 | |
|4 | C106 | 2202-000127 | C-CERAMIC,MLC-AXIAL;10nF,+80-20%,25V,Y5V | |4 | C822 | 2401-000722 | C-AL;2200uF,20%,25V,WT,TP,16x25,7.5 | |
|4 | C111 | 2202-000127 | C-CERAMIC,MLC-AXIAL;10nF,+80-20%,25V,Y5V | |4 | C222 | 2401-000758 | C-AL;0.22UF,20%,50V,GP,TP,5X11,5 | |
|4 | C702 | 2202-000210 | C-CERAMIC,MLC-AXIAL;270pF,10%,50V,Y5P,TP | |4 | C110 | 2401-000962 | C-AL;22uF,20%,50V,GP,TP,5x11,5 | |
|4 | C102 | 2202-000279 | C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3. | |4 | C101 | 2401-001101 | C-AL;330uF,20%,16V,GP,TP,8x11,5,5 | |
|4 | C911 | 2202-000632 | C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP | |4 | C203 | 2401-001176 | C-AL;33uF,20%,25V,GP,TP,5x11,5 | |
|4 | C211 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3 | |4 | C802 | 2401-001192 | C-AL;33uF,20%,50V,GP,TP,6.3x11,5 | |
|4 | C223 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3 | |4 | C504 | 2401-001232 | C-AL;4.7uF,20%,250V,GP,TP,10x12.5,5 | |
|4 | C224 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3 | |4 | C813 | 2401-001486 | C-AL;47uF,20%,160V,HR,TP,13x20mm,5m | |
|4 | C505 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3 | |4 | C706 | 2401-001989 | C-AL;4.7uF,20%,50V,BP,TP,5x11,5 | |
|4 | C906 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3 | |4 | C601 | 2401-001998 | C-AL;1000uF,20%,25V,GP,TP,10x20,5mm | |
|4 | C226 | 2202-000829 | C-CERAMIC,MLC-AXIAL;0.82NF,10%,50V,Y5P,T | |4 | C403 | 2401-002268 | C-AL;2.2uF,20%,250V,LZ,TP,8X11,5 | |
|4 | C217 | 2301-000004 | C-FILM,LEAD-PEF;2.2nF,5%,100V,TP,5.5X10X | |4 | C827 | 2401-002278 | C-AL;22uF,20%,250V,WT,TP,13x20,5 | |
|4 | C234 | 2301-000004 | C-FILM,LEAD-PEF;2.2nF,5%,100V,TP,5.5X10X | |4 | C304 | 2401-002288 | C-AL;470uF,20%,25V,WT,TP,10x20,5 | |
|4 | C248 | 2301-000013 | C-FILM,LEAD-PEF;4.7nF,5%,100V,TP,10.5x12 | |4 | C306 | 2401-002288 | C-AL;470uF,20%,25V,WT,TP,10x20,5 | |
|4 | C109 | 2301-000016 | C-FILM,LEAD-PEF;22nF,5%,100V,TP,7.2x4.5x | |4 | C406 | 2401-002619 | C-AL;47uF,20%,25V,GP,TP,5x11,5 | |
|4 | C804 | 2301-000016 | C-FILM,LEAD-PEF;22nF,5%,100V,TP,7.2x4.5x | |4 | C818 | 2401-003028 | C-AL;100uF,20%,25V,WT,TP,6.3x11,5 | |
|4 | C118 | 2301-000148 | C-FILM,LEAD-PEF;10nF,5%,100V,TP,7x3.2x7m | |4 | C821 | 2401-003028 | C-AL;100uF,20%,25V,WT,TP,6.3x11,5 | |
|4 | C407 | 2301-000148 | C-FILM,LEAD-PEF;10nF,5%,100V,TP,7x3.2x7m | |4 | L103 | 2701-000114 | INDUCTOR-AXIAL;10UH,10%,2534 | |
|4 | C904 | 2301-000148 | C-FILM,LEAD-PEF;10nF,5%,100V,TP,7x3.2x7m | |4 | L202 | 2701-000114 | INDUCTOR-AXIAL;10UH,10%,2534 | |
|4 | C707 | 2301-000204 | C-FILM,LEAD-PEF;2.7nF,5%,50V,TP,7.4x3.9x | |4 | L902 | 2701-000114 | INDUCTOR-AXIAL;10UH,10%,2534 | |
|4 | C502 | 2301-000213 | C-FILM,LEAD-PEF;220nF,5%,250V,TP,21.5x11 | |4 | L904 | 2701-000114 | INDUCTOR-AXIAL;10UH,10%,2534 | |
|4 | C805 | 2301-000233 | C-FILM,LEAD-PEF;3.9nF,10%,100V,TP,5.8x12 | |4 | J142 | 2701-000115 | INDUCTOR-AXIAL;10UH,10%,3070 | |
|4 | C309 | 2301-000253 | C-FILM,LEAD-PEF;39nF,5%,100V,TP,7.5X4.5X | |4 | L405 | 2701-000116 | INDUCTOR-AXIAL;10UH,10%,4298 | |
|4 | C606 | 2301-000289 | C-FILM,LEAD-PEF;5.6nF,5%,50V,TP,7x6x3mm, | |4 | L301 | 2701-000142 | INDUCTOR-AXIAL;1UH,10%,2534 | |
|4 | C610 | 2301-000289 | C-FILM,LEAD-PEF;5.6nF,5%,50V,TP,7x6x3mm, | |4 | L302 | 2701-000142 | INDUCTOR-AXIAL;1UH,10%,2534 | |
|4 | C227 | 2301-000445 | C-FILM,LEAD-PEF;4.7nF,5%,50V,TP,5.5x7x3m | |4 | L404 | 2701-000142 | INDUCTOR-AXIAL;1UH,10%,2534 | |
|4 | C420 | 2301-001065 | C-FILM,LEAD-PPF;47nF,5%,630V,TP,19x15.5x | |4 | L201 | 2701-000158 | INDUCTOR-AXIAL;22UH,10%,2534 | |
|4 | C806 | 2301-001435 | C-FILM,LEAD-PPF;1.5nF,5%,1.2kV,TP,15x8x1 | |4 | L205 | 2701-000158 | INDUCTOR-AXIAL;22UH,10%,2534 | |
|4 | C225 | 2301-001664 | C-FILM,LEAD-OTHER;100nF,3%,50V,TP,20x16x | |4 | L903 | 2701-000158 | INDUCTOR-AXIAL;22UH,10%,2534 | |
|4 | C312 | 2305-000149 | C-FILM,LEAD-PEF;100nF,5%,100V,TP,12x12.5 | |4 | L102 | 2701-000159 | INDUCTOR-AXIAL;22UH,10%,4298 | |
|4 | C301 | 2305-000285 | C-FILM,LEAD-PEF;220nF,5%,100V,TP,10.5X5. | |4 | L104 | 2701-000168 | INDUCTOR-AXIAL;3.3UH,5%,2534 | |
|4 | C215 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-,5mm | |4 | L204 | 2701-000184 | INDUCTOR-AXIAL;4.7UH,10%,2534 | |
|4 | C216 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-,5mm | |4 | L702 | 2701-000184 | INDUCTOR-AXIAL;4.7UH,10%,2534 | |
|4 | C233 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-,5mm | |4 | L703 | 2701-000184 | INDUCTOR-AXIAL;4.7UH,10%,2534 | |
|4 | C603 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-,5mm | |4 | L704 | 2701-000184 | INDUCTOR-AXIAL;4.7UH,10%,2534 | |
|4 | C607 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-,5mm | |4 | L706 | 2701-000184 | INDUCTOR-AXIAL;4.7UH,10%,2534 | |
|4 | C611 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-,5mm | |4 | L804 | 2701-001030 | INDUCTOR-AXIAL;43UH,10%,4514 | |
| △ | CR405S | 2305-000382 | C-FILM,LEAD-PEF;4.7nF,5%,400V,TP,-,5mm | |4 | F101 | 2901-000297 | FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP,- | |
|4 | C207 | 2305-000412 | C-FILM,LEAD-PEF;470nF,5%,63V,TP,-,5mm | |4 | F101 | 2901-000297 | FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP,- | |
|4 | C901 | 2305-000412 | C-FILM,LEAD-PEF;470nF,5%,63V,TP,-,5mm | |4 | F101 | 2901-000297 | FILTER-EMI ON BOARD;-,3A,-,3.5x5,TP,- | |
|4 | C103 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | Z202 | 2903-001240 | FILTER-CERAMIC;TR,5.5MHz,-,28dB,-,TP,- | |
|4 | C204 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | Z203 | 2903-001246 | FILTER-CERAMIC;TR,5.5MHz,-,TP,multi. | |
|4 | C205 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | L2514 | 3301-000287 | BEAD-AXIAL;-,3.5x1.0x6.0mm,3000mA,TP,,,50 | S.N.A |
|4 | C208 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | L2514 | 3301-000287 | BEAD-AXIAL;-,3.5x1.0x6.0mm,3000mA,TP,,,50 | S.N.A |
|4 | C210 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | L2514 | 3301-000287 | BEAD-AXIAL;-,3.5x1.0x6.0mm,3000mA,TP,,,50 | S.N.A |
|4 | C218 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | L2514 | 3301-000287 | BEAD-AXIAL;-,3.5x1.0x6.0mm,3000mA,TP,,,50 | S.N.A |
|4 | C230 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | SW901 | 3404-001252 | SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1 | |
|4 | C231 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | SW902 | 3404-001252 | SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1 | |
|4 | C618 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | SW903 | 3404-001252 | SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1 | |
|4 | C619 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | SW904 | 3404-001252 | SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1 | |
|4 | C803 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | SW905 | 3404-001252 | SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1 | |
|4 | C819 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | | △ | FD801S | 3601-001086 | FUSE-AXIAL LEAD;125V,5A,FAST-ACTING,GLAS | |
|4 | C913 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |4 | F801A | 3602-000001 | FUSE-CLIP;-,30mohm | |
|4 | C209 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5 | |4 | F801B | 3602-000001 | FUSE-CLIP;-,30mohm | |
|4 | C213 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5 | |4 | EL403 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,Ni+SN,BSP3-1/2H | S.N.A |
|4 | C214 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5 | |4 | EL404 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,Ni+SN,BSP3-1/2H | S.N.A |
|4 | C229 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5 | |4 | EL501 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,Ni+SN,BSP3-1/2H | S.N.A |
|4 | C903 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5 | |4 | EL502 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,Ni+SN,BSP3-1/2H | S.N.A |
|4 | C910 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11,5 | |4 | EL601 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,Ni+SN,BSP3-1/2H | S.N.A |
|4 | C206 | 2401-000050 | C-AL;10uF,20%,16V,GP,TP,5x11,2,5 | |4 | EL602 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,Ni+SN,BSP3-1/2H | S.N.A |
|4 | C220 | 2401-000050 | C-AL;10uF,20%,16V,GP,TP,5x11,2,5 | |4 | EL801 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,Ni+SN,BSP3-1/2H | S.N.A |
|4 | C812 | 2401-000262 | C-AL;100uF,20%,160V,HR,TP,16x25,7,5 | |4 | EL802 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,Ni+SN,BSP3-1/2H | S.N.A |
|4 | C817 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11,5 | |4 | EL803 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,Ni+SN,BSP3-1/2H | S.N.A |
|4 | C823 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11,5 | |4 | EL804 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,Ni+SN,BSP3-1/2H | S.N.A |
|4 | C915 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11,5 | |4 | EL805 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,Ni+SN,BSP3-1/2H | S.N.A |

| Level | Loc. No. | Code No. | Description ; Specification | Remark | Level | Loc. No. | Code No. | Description ; Specification | Remark |
|-------|----------|----------|-----------------------------|--------|-------|----------|----------|-----------------------------|--------|
|-------|----------|----------|-----------------------------|--------|-------|----------|----------|-----------------------------|--------|

ASSY P/MATERIAL

| | | | | |
|----|-------|-------------|------------------------------------------|-------|
| 1 | M0113 | AA92-11417A | ASSY P/MATERIAL;21M16,TTSEC,NEW | S.N.A |
| .2 | T0376 | 6902-000001 | BAG AIR;LDPE,T0.2,L1800,W1000,TRP,,LDPE | S.N.A |
| .2 | T0524 | 6902-000005 | BAG PE;HDPE/NITRON/HDPE,T0.015/T0.5/T0.0 | S.N.A |
| .2 | T0376 | 6902-000061 | BAG AIR;LDPE,T0.2,L1000,W500,TRP,, | S.N.A |
| .2 | T0214 | AA60-40006A | PIN-STAPLE;AUTO,33X17.8X2.4,H18,33X17.8X | S.N.A |

ASSY ACCESSORY

| | | | | |
|----|-------|-------------|------------------------------------------|-------|
| 1 | M0045 | AA92-09500A | ASSY ACCESSORY;21N11,RU,KS9A,FULL MONTY | S.N.A |
| .2 | T0524 | 6902-000009 | BAG PE;HDPE,T0.03,L400,W240,TRP,8.2,PE M | S.N.A |
| .2 | T0903 | AA26-90001C | TRANS MATCHING;-;300ohm/75ohm,PAL,40-890 | S.N.A |
| .2 | T0075 | AA42-00003A | ANT ROD;-;3S,720mm,ABS,UL/CSA,- | |
| .2 | T0074 | AA59-00332D | REMOCON;TM75,DEEP IMPACT,31,G6148,PAL,EX | |
| .2 | T0269 | AA68-01120A | MANUAL SERVICE;-;CIS,A4,6PAGE(FOLD),W/ | S.N.A |
| .2 | | AA68-03576A | MANUAL-00 REGISTRATION CARD;BWT,RU,RUSSI | S.N.A |
| .2 | M0596 | AA68-03654F | MANUAL USERS-00;COMM,SAMSUNG,NON-RUSSIAN | S.N.A |
| .2 | T0610 | AA68-03242E | MANUAL-SAFETY GUIDE;All Model,SAMSUNG,8L | S.N.A |
| .2 | T0100 | AA68-03723A | MANUAL-WARRANTY CARD;CS14Y510X,Samsung,R | S.N.A |
| .2 | T0100 | AA68-03724A | MANUAL-WARRANTY CARD;CS14Y510X,Samsung,L | S.N.A |

You can search for the updated part code through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr>

7-2 CS21K30MJZXNWT

| Level | Loc. No. | Code No. | Description ; Specification | Remark | Level | Loc. No. | Code No. | Description ; Specification | Remark |
|---------------------|----------|-------------|--------------------------------------------|--------|-------|----------|-------------|--------------------------------------------|--------|
| ASSY CHASSIS | | | | | | | | | |
| 1 | M0017 | AA91-08122J | ASSY CHASSIS;CS21M16MJZXNWT,KS9A | S.N.A | ... | M0081 | 6003-000335 | SCREW-TAPTITE;RH,+,2S,M3,L8,ZPC(YEL),SWR | S.N.A |
| ..2 | T0091 | AA94-13418D | ASSY PCB MISC-A/V SIDE;21D8,KS1A,MONO | | ...4 | T0175 | AA62-00046A | HEAT SINK-PS;-,-,T1.0,-,D1(DREAM) 60X25X | S.N.A |
| ... | T0245 | 0202-001378 | SOLDER-WIRE FLUX;RS-107,RS60-1.2AA,D1.2, | S.N.A | ... | IC802 | AA96-00245A | ASSY HEAT SINK P;AA62-00055A,KA7632 | S.N.A |
| ... | JE601 | 3722-000143 | JACK-PHONE;1P(VER),3.4PI,AG,BLK,NO | | ... | IC062 | 1203-001939 | IC-MULTI REG.;7632,SIP,10P,-,PLASTIC,3.3 | |
| ... | JR01 | 3722-001282 | JACK-PIN;2P(3P),3.2mm,AU,BLK,- | | ... | M0081 | 6003-000334 | SCREW-TAPTITE;RH,+,2S,M3,L6,ZPC(YEL),SWR | S.N.A |
| ... | T0245 | AA39-20461C | LEAD CONNECTOR-ASSY;11P,300MM,YBNH250-1 | | ... | T0175 | AA62-00055A | HEAT SINK-PS;-,-,T1.0,-,35*15*25,D1,-,-, | S.N.A |
| ... | T0238 | AA97-14337D | ASSY AUTO;21D8,KS1A,MONO | S.N.A | ... | LD901 | AA96-00555A | ASSY LED GUIDE;-,-,UEX-LD-030,GREEN | S.N.A |
| ... | RE01 | 2001-001153 | R-CARBON(S);47ohm,5%,1/2W,AA,TP,2.4x6.4m | | ... | IC501 | AA96-50311A | ASSY HEAT SINK P;-,-,VIDEO,AA62-30175D,TDA | S.N.A |
| ... | RE02A | 2001-001153 | R-CARBON(S);47ohm,5%,1/2W,AA,TP,2.4x6.4m | | ... | T0074 | 1201-001159 | IC-VIDEO AMP;6107,ZSIP,9P,-,SINGLE,-,PLA | |
| ... | CE04 | 2202-000121 | C-CERAMIC,MLC-AXIAL;0.1nF,10%,50V,Y5P,-, | | ... | M0081 | 6003-000334 | SCREW-TAPTITE;RH,+,2S,M3,L6,ZPC(YEL),SWR | S.N.A |
| ... | CE07 | 2202-000222 | C-CERAMIC,MLC-AXIAL;3.3nF,20%,16V,Y5P,TP | | ... | T0175 | AA62-30175D | HEAT SINK-PS;-,-,SECC,T1.0,-,33X15X30 FT-2 | S.N.A |
| ... | CE01 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11.5 | | ... | M0014 | AA97-14853G | ASSY AUTO-MAIN;CS21M16MJZXNWT,KS9A | S.N.A |
| ... | LE04 | 2701-000114 | INDUCTOR-AXIAL;10UH,10%,2534 | | ... | D201 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T | |
| ... | LE01 | 2701-000158 | INDUCTOR-AXIAL;22UH,10%,2534 | | ... | D811 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T | |
| ... | T0091 | AA41-00567C | PCB-A/V SIDE;CS21M16,17K30,-,-,FR-1,1,A,1 | S.N.A | ... | D901 | 0401-000005 | DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T | |
| ..2 | M0014 | AA94-14472H | ASSY PCB MAIN;CS21M16MJZXNWT,KS9A | | ... | D502 | 0401-000006 | DIODE-SWITCHING;BAV21,250V,200MA,DO-35,T | |
| ... | T0245 | 0202-001378 | SOLDER-WIRE FLUX;RS-107,RS60-1.2AA,D1.2, | S.N.A | ... | D503 | 0401-000006 | DIODE-SWITCHING;BAV21,250V,200MA,DO-35,T | |
| ... | D402 | 0402-001599 | DIODE-RECTIFIER;DGP30L,1500,3A,DO-201AD(| | ... | D504 | 0401-000006 | DIODE-SWITCHING;BAV21,250V,200MA,DO-35,T | |
| ... | D805E | 0402-001603 | DIODE-RECTIFIER;MUR480E,800V,4A,DO-201AD | | ... | D804 | 0401-000006 | DIODE-SWITCHING;BAV21,250V,200MA,DO-35,T | |
| ... | Q401 | 0502-001160 | TR-POWER;2SD2499,NPN,50000mW,TO-3P,BK,8- | | ... | D501 | 0402-000254 | DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP | |
| ... | IC112 | 1103-001106 | IC-EEPROM;24C080,1Kx8Bit,DIP,8P,9.6x6.4m | | ... | D803 | 0402-000254 | DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP | |
| ... | T0900 | 1404-001045 | THERMISTOR-NTC;4.7ohm,15%,2900K,35.0mW,T | | ... | D812 | 0402-000493 | DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L | |
| △ | CY801S | 2201-000446 | C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,BK,15X | | ... | D403 | 0402-000540 | DIODE-RECTIFIER;RU20A,600V,1.5A,-,TP | |
| ... | C410A | 2301-001402 | C-FILM,LEAD-PPF;33nF,5%,630V,BK,20x11x17 | | ... | D301 | 0402-000546 | DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T | |
| △ | CX801S | 2306-000318 | C-FILM,LEAD-PPF;220nF,20%,275V,BK,26x7x1 | | ... | D304 | 0402-000546 | DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T | |
| △ | CR402S | 2306-000350 | C-FILM,LEAD-PPF;270nF,5%,400V,BK,26x18.5 | | ... | D401 | 0402-000546 | DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,T | |
| △ | CR410S | 2306-000353 | C-FILM,LEAD-PPF;6.3nF,5%,1.6KV,BK,26.5x8 | | △ | D801S | 0402-001111 | DIODE-RECTIFIER;1N5397GP,600V,1.5A,-,TP | |
| ... | X901 | 2801-004033 | CRYSTAL-UNIT;12MHZ,30PPM,28-AAM,30PF,300 | | ... | D802 | 0402-001111 | DIODE-RECTIFIER;1N5397GP,600V,1.5A,-,TP | |
| △ | SF101S | 2904-001063 | FILTER-SAW AV;38.9MHz,SIP5K,TP,18.5dB,B/ | | ... | D802S | 0402-001111 | DIODE-RECTIFIER;1N5397GP,600V,1.5A,-,TP | |
| △ | SW801S | 3403-001134 | SWITCH-PUSH;250V,5A,DPST,ON-OFF- | | ... | D803S | 0402-001111 | DIODE-RECTIFIER;1N5397GP,600V,1.5A,-,TP | |
| ... | FD802 | 3601-000281 | FUSE-CARTRIDGE;250V,4A,TIME-LAG,GLASS,5. | | ... | D804S | 0402-001111 | DIODE-RECTIFIER;1N5397GP,600V,1.5A,-,TP | |
| △ | V999S | 3704-001105 | SOCKET-CRT;11P,20PI,26.5PI,N/- | | ... | D303 | 0402-001321 | DIODE-RECTIFIER;1A4G,400,1A,TO-220F,TP | |
| ... | CN701 | 3711-000628 | HEADER-BOARD TO CABLE;BOX,11P,1R,2.5MM,S | | ... | D809 | 0402-001321 | DIODE-RECTIFIER;1A4G,400,1A,TO-220F,TP | |
| ... | CN602 | 3711-002643 | HEADER-BOARD TO CABLE;BOX,4P,1R,2.5mm,ST | | ... | D302 | 0402-001352 | DIODE-RECTIFIER;GUF15G-20A,400V,1.5A,MEL | |
| ... | JS701 | 3722-000183 | JACK-SCART;21P,4mm,SN,BLK,NO | | ... | DZ402 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | |
| ... | T0119 | AA09-00479A | IC MICOM;TDA9381PS/N3/3,SPM-802EEN6,64P, | | ... | DZ807 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | |
| △ | T801S | AA26-00134A | TRANS SWITCHING;CS21S5T,160V-260V,PM2 P | | ... | DZ810 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | |
| ... | T401 | AA26-50001B | TRANS-HORIZ.DRIVE;-,-,7.1mH,-,-,102uH, | | ... | DZ903 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | |
| ... | T0296 | AA27-00122A | COIL LINEARITY;90UH,90UH,L81 DR10x10,7.5 | | ... | DZ904 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | |
| △ | T0010 | AA27-00096A | COIL CHOKO;220UH,CPTTV,220UH,10%,3A,DR14 | | ... | DZ905 | 0403-000508 | DIODE-ZENER;MTZJ5.6B,5.45-5.73V,500MW,DO | |
| △ | LX801S | AA29-00015A | FILTER LINE NOISE;WS32W8,28-20MH 1.5A,-,- | | ... | DZ101 | 0403-000700 | DIODE-ZENER;MTZP33A,5%,1000MW,DO-41,TP | |
| ... | D0254 | AA32-00015A | MODULE REMOCON;FRP-3521H31,38KHZ,940MM,M | | ... | DZ303 | 0403-000700 | DIODE-ZENER;MTZP33A,5%,1000MW,DO-41,TP | |
| ... | T0245 | AA39-20620C | LEAD CONNECTOR-ASSY;9P,500MM,YBNH250-09 | | ... | DZ803 | 0403-000700 | DIODE-ZENER;MTZP33A,5%,1000MW,DO-41,TP | |
| ... | CIS3 | AA40-00077A | TUNER;TECC0949PL35A(S),PAL,181CH,38.9MHZ | | ... | DZ201 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | GT301 | AA60-40012F | PIN-GT;4P,2.36PI,6/12/14mm,NYLON66,LOCKI | S.N.A | ... | DZ204 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | GT801 | AA60-40012G | PIN-GT;3P,2.36PI,10/5mm,NYLON66,LOCKING | S.N.A | ... | DZ205 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| △ | IC801S | AA96-00242D | ASSY HEAT SINK P;SCREWA62-30186B,5Q0765 | S.N.A | ... | DZ207 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | CIS1 | 0205-001154 | OIL-SILICON;G746,-,- | S.N.A | ... | DZ306 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | T0086 | 1203-002916 | IC-PWM CONTROLLER;KA5Q0765RTH-YDTU,TO-22 | | ... | DZ307 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | M0081 | 6003-000333 | SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW | S.N.A | ... | DZ501 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | T0066 | AA62-00063A | HEAT SINK-ES;DP,-,-,AA62-30186B,-,-,-, | S.N.A | ... | DZ502 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | T0066 | AA62-30186B | HEAT SINK-ES;-,-,SILVER,171J + COVER-H | S.N.A | ... | DZ503 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | T0016 | AA63-30189A | COVER-HEATSINK;-,-,PC-ABS,T0.8,-,-,VO,NTR, | S.N.A | ... | DZ504 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | D806 | AA96-00243D | ASSY HEAT SINK P;D06U20S,AA62-00045B,BRI | S.N.A | ... | DZ701 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | | 0402-001374 | DIODE-RECTIFIER;FFPF06U20S,200V,6A,TO-22 | | ... | DZ702 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | M0081 | 6003-000335 | SCREW-TAPTITE;RH,+,2S,M3,L8,ZPC(YEL),SWR | S.N.A | ... | DZ703 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | T0175 | AA62-00045A | HEAT SINK-PS;-,-,T1.0,-,-,DREAM,-,-,-,-, | S.N.A | ... | DZ704 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | CIS1 | 0205-001154 | OIL-SILICON;G746,-,- | S.N.A | ... | DZ808 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO | |
| ... | IC601 | AA96-00244G | ASSY HEAT SINK P;-,-,AUDIO,AA62-00046A,TDA | S.N.A | ... | DZ801 | 0403-001140 | DIODE-ZENER;RD10ESAB-T4,9.7-10.2V,400MW, | |
| ... | T0085 | 1201-001741 | IC-AUDIO AMP;TDA8944J,DBS,17P,937ML,DUA | | ... | DZ302 | 0403-001221 | DIODE-ZENER;UZ39B5B,35.36-37.19V,500MW,D | |
| ... | M0081 | 6003-000335 | SCREW-TAPTITE;RH,+,2S,M3,L8,ZPC(YEL),SWR | S.N.A | ... | DZ806 | 0403-001317 | DIODE-ZENER;MTZJ3.0B,3.01-3.22V,500MW,DO | |
| ... | T0607 | AA61-10162B | BRACKET-IC;-,-,SBHG-1,T1.0,-,-,100 | S.N.A | ... | DZ802 | 0403-001318 | DIODE-ZENER;MTZJ4.3B,4.17-4.43V,500MW,DO | |
| ... | T0175 | AA62-00046A | HEAT SINK-PS;-,-,T1.0,-,-,D1(DREAM) 60X25X | S.N.A | ... | DZ401 | 0403-001319 | DIODE-ZENER;MTZJ4.7C,4.68-4.93V,500MW,DO | |
| ... | CIS1 | 0205-001154 | OIL-SILICON;G746,-,- | S.N.A | ... | DZ901 | 0403-001319 | DIODE-ZENER;MTZJ4.7C,4.68-4.93V,500MW,DO | |
| ... | IC301 | AA96-00244M | ASSY HEAT SINK P;LA78040N,S,AA64-00046 | S.N.A | ... | DZ907 | 0403-001319 | DIODE-ZENER;MTZJ4.7C,4.68-4.93V,500MW,DO | |
| ... | CIS1 | 0205-001154 | OIL-SILICON;G746,-,- | S.N.A | ... | DZ908 | 0403-001319 | DIODE-ZENER;MTZJ4.7C,4.68-4.93V,500MW,DO | |
| ... | T0088 | 1204-002121 | IC-VERTICAL DEF;LA78040N,TO220,7P,-,PLA | S.N.A | ... | DZ203 | 0403-001322 | DIODE-ZENER;MTZJ8.2B,7.78-8.19V,500MW,DO | |
| | | | | | ... | DZ805 | 0403-001327 | DIODE-ZENER;MTZJ3.0B,3.01-3.22V,500MW,D | |
| | | | | | ... | DZ301 | 0403-001328 | DIODE-ZENER;MTZJ22A,20.15-21.2V,500MW,DO | |
| | | | | | ... | DZ305 | 0403-001328 | DIODE-ZENER;MTZJ22A,20.15-21.2V,500MW,DO | |

| Level | Loc. No. | Code No. | Description ; Specification | Remark | Level | Loc. No. | Code No. | Description ; Specification | Remark |
|-------|----------|-------------|------------------------------------------|--------|-------|----------|-------------|-------------------------------------------|--------|
| ... | Q201 | 0501-000283 | TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T | | ... | R841 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | Q901 | 0501-000283 | TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T | | ... | R925 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | Q402 | 0501-000369 | TR-SMALL SIGNAL;KSC2331-Y,NPN,1000mW,TO- | | ... | R227 | 2001-000739 | R-CARBON;4.7MOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | Q202 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T | | ... | R228 | 2001-000739 | R-CARBON;4.7MOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | Q205 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T | | ... | R109 | 2001-000786 | R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | Q701 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T | | ... | R209 | 2001-000793 | R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | Q903 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T | | ... | R927 | 2001-000793 | R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | Q905 | 0501-000389 | TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T | | ... | R203 | 2001-000857 | R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | Q902 | 0504-001159 | TR-DIGITAL;SRC1211M,NPN,400MW,10KOHM,TO- | | ... | R204 | 2001-000857 | R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| △ | VX801S | 1405-000187 | VARISTOR;750V,1250A,12.5x7mm,TP | | ... | R210 | 2001-000857 | R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R207 | 2001-000005 | R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm | | ... | R713 | 2001-000857 | R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R905 | 2001-000005 | R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm | | ... | R715 | 2001-000857 | R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R906 | 2001-000005 | R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm | | ... | R601 | 2001-000878 | R-CARBON;6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R218 | 2001-000008 | R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R607 | 2001-000878 | R-CARBON;6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R205 | 2001-000011 | R-CARBON;75KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R110 | 2001-000924 | R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | J125 | 2001-000016 | R-CARBON(S);10HM,5%,1/2W,AA,TP,2.4X6.4MM | | ... | R915 | 2001-000924 | R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R301 | 2001-000016 | R-CARBON(S);10HM,5%,1/2W,AA,TP,2.4X6.4MM | | ... | R108 | 2001-000947 | R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R618 | 2001-000019 | R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4M | | ... | R222 | 2001-000947 | R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R619 | 2001-000019 | R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4M | | ... | R701 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R843 | 2001-000019 | R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4M | | ... | R702 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R409 | 2001-000022 | R-CARBON(S);33OHM,5%,1/2W,AA,TP,2.4X6.4M | | ... | R719 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R823 | 2001-000037 | R-CARBON(S);330OHM,5%,1/2W,AA,TP,2.4X6.4 | | ... | R720 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R230 | 2001-000221 | R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R213 | 2001-001006 | R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ... | R902 | 2001-000241 | R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R504 | 2001-001062 | R-CARBON(S);10MOHM,5%,1/2W,AA,TP,2.4X6.4 | |
| ... | R904 | 2001-000241 | R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R414 | 2001-001078 | R-CARBON(S);15KOHM,5%,1/2W,AA,TP,2.4X6.4 | |
| ... | R923 | 2001-000273 | R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R806 | 2001-001108 | R-CARBON(S);22KOHM,5%,1/2W,AA,TP,2.4X6.4 | |
| ... | J137 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R411 | 2001-001114 | R-CARBON(S);270OHM,5%,1/2W,AA,TP,2.4X6.4 | |
| ... | R211 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R405 | 2001-001116 | R-CARBON(S);270OHM,5%,1/2W,AA,TP,2.4X6.4M | |
| ... | R223 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R831 | 2001-001117 | R-CARBON(S);2KOHM,5%,1/2W,AA,TP,2.4X6.4M | |
| ... | R225 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R833 | 2001-001117 | R-CARBON(S);2KOHM,5%,1/2W,AA,TP,2.4X6.4M | |
| ... | R501 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R840 | 2001-001122 | R-CARBON(S);3.9KOHM,5%,1/2W,AA,TP,2.4X6.4 | |
| ... | R502 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R808 | 2001-001138 | R-CARBON(S);390OHM,5%,1/2W,AA,TP,2.4X6.4 | |
| ... | R506 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R809 | 2001-001150 | R-CARBON(S);470KOHM,5%,1/2W,AA,TP,2.4X6.4 | |
| ... | R510 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R810 | 2001-001150 | R-CARBON(S);470KOHM,5%,1/2W,AA,TP,2.4X6.4 | |
| ... | R511 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R423 | 2001-001194 | R-CARBON(S);82KOHM,5%,1/2W,AA,TP,2.4X6.4 | |
| ... | R512 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | △ | RX801S | 2002-000133 | R-COMPOSITION;3.3Mohm,5%,1/2W,AA,TP,3.5x | |
| ... | R708 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R501H | 2002-001008 | R-COMPOSITION;1.8Kohm,10%,1/2W,AA,TP,3.7 | |
| ... | R718 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R502H | 2002-001008 | R-COMPOSITION;1.8Kohm,10%,1/2W,AA,TP,3.7 | |
| ... | R909 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R503 | 2002-001008 | R-COMPOSITION;1.8Kohm,10%,1/2W,AA,TP,3.7 | |
| ... | R911 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | △ | RY801S | 2002-001012 | R-COMPOSITION;8.2Mohm,5%,1/2W,AA,TP,3.7x | |
| ... | R912 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R413 | 2003-000592 | R-METAL OXIDE(S);22ohm,5%,2W,AF,TP,4x12m | |
| ... | R913 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R403 | 2003-000784 | R-METAL OXIDE(S);7.5Kohm,5%,2W,AF,TP,4x1 | |
| ... | R914 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R827 | 2003-000998 | R-METAL OXIDE;300ohm,5%,2W,AF,TP,3.9x10m | |
| ... | R933 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R802 | 2003-001040 | R-METAL OXIDE(S);47Kohm,5%,2W,AF,TP,3.9x | |
| ... | R934 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R834 | 2003-001040 | R-METAL OXIDE(S);47Kohm,5%,2W,AF,TP,3.9x | |
| ... | R224 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R315 | 2003-002069 | R-METAL OXIDE(S);470ohm,5%,2W,AF,TP,3.9x | |
| ... | R828 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R316 | 2003-002069 | R-METAL OXIDE(S);470ohm,5%,2W,AF,TP,3.9x | |
| ... | R910 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R407 | 2003-002209 | R-METAL OXIDE(S);47Kohm,5%,2W,AG,TP,3.9X | |
| ... | R919 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R814 | 2003-002228 | R-METAL OXIDE(S);470ohm,5%,2W,AG,TP,3.9 | |
| ... | R920 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R811 | 2003-002239 | R-METAL OXIDE(S);100KOHM,5%,2W,AF,TP,3.9 | |
| ... | R921 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R812 | 2003-002239 | R-METAL OXIDE(S);100KOHM,5%,2W,AF,TP,3.9 | |
| ... | R922 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R303 | 2003-002279 | R-METAL OXIDE(S);1.2OHM,5%,2W,AG,TP,5.6X | |
| ... | R924 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R401 | 2003-002288 | R-METAL OXIDE(S);2.2KOHM,5%,2W,AF,TP,3.9 | |
| ... | R928 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R402 | 2003-002288 | R-METAL OXIDE(S);2.2KOHM,5%,2W,AF,TP,3.9 | |
| ... | R116 | 2001-000319 | R-CARBON;120KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R424 | 2004-001402 | R-METAL(S);6.8Kohm,1%,1/2W,AA,TP,2.4x6.4 | |
| ... | R214 | 2001-000325 | R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R219 | 2004-001914 | R-METAL;39Kohm,2%,1/8W,AA,TP,1.8x3.5mm | |
| ... | R215 | 2001-000325 | R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R302 | 2004-001970 | R-METAL(S);1.8Kohm,1%,1/2W,AA,TP,6.5x2.5 | |
| ... | R717 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R817 | 2004-004089 | R-METAL(S);123Kohm,1%,1/2W,AA,TP,2.5x6.5 | |
| ... | R918 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R306 | 2004-004097 | R-METAL;1.6Kohm,2%,1/2W,AA,TP,2.4X6.4mm | |
| ... | R926 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R304 | 2008-000264 | R-FUSIBLE(S);1ohm,5%,1W,AF,TP,3.9x10mm | |
| ... | R916 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R825 | 2008-000284 | R-FUSIBLE(S);0.1OHM,10%,2W,AF,TP,3.9X10M | |
| ... | R917 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R824 | 2008-000294 | R-FUSIBLE(S);33ohm,5%,2W,AF,TP,3.9x10mm | |
| ... | R220 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R420 | 2008-001062 | R-FUSIBLE;39ohm,5%,2W,AF,TP,3.9x10mm | |
| ... | R901 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R421 | 2008-001148 | R-FUSIBLE;3.3OHM,5%,1W,AG,TP,3.9X12MM | |
| ... | R903 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R505 | 2008-001149 | R-FUSIBLE(S);0.22OHM,5%,2W,AF,TP,3.8X11M | |
| ... | R907 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | R305 | 2008-001159 | R-FUSIBLE(S);1.5OHM,5%,1W,AF,TP,3.9X10MM | |
| ... | R908 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | RW701 | 2011-001133 | R-NET;33K/24K/75x3.5%,1/8W,X,SIP6P,TP | |
| ... | R244 | 2001-000548 | R-CARBON;270KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | C302 | 2201-000259 | C-CERAMIC,DISC;0.18NF,10%,500V,Y5P,TP,5 | |
| ... | R206 | 2001-000563 | R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | △ | CR409S | 2201-000467 | C-CERAMIC,DISC;0.33NF,10%,2KV,Y5P,TP,6.3 | |
| ... | R829 | 2001-000563 | R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | C303 | 2201-000556 | C-CERAMIC,DISC;0.47NF,10%,500V,Y5P,TP,5 | |
| ... | R929 | 2001-000563 | R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | C305 | 2201-000556 | C-CERAMIC,DISC;0.47NF,10%,500V,Y5P,TP,5 | |
| ... | R208 | 2001-000591 | R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | C908 | 2201-000573 | C-CERAMIC,DISC;0.047NF,5%,50V,COG,TP,5X3 | |
| ... | R602 | 2001-000591 | R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | C909 | 2201-000573 | C-CERAMIC,DISC;0.047NF,5%,50V,COG,TP,5X3 | |
| ... | R605 | 2001-000591 | R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | C408 | 2201-000599 | C-CERAMIC,DISC;0.56NF,10%,500V,Y5P,TP,5 | |
| ... | R115 | 2001-000645 | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | △ | CR404S | 2201-000639 | C-CERAMIC,DISC;0.68NF,10%,2KV,Y5P,TP,9X5 | |
| ... | R202 | 2001-000660 | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | C503 | 2201-000723 | C-CERAMIC,DISC;4.7NF,20%,3KV,Y5U,TP,16X5 | |
| ... | R721 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM | | ... | C811 | 2201-000991 | C-CERAMIC,DISC;0.56NF,10%,2KV,Y5P,TP,7.5 | |

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|4 | C814 | 2201-000991 | C-CERAMIC,DISC;0.56NF,10%,2KV,Y5P,TP,7.5 | |
|4 | C703 | 2202-000121 | C-CERAMIC,MLC-AXIAL;0.1nF,10%,50V,Y5P,- | |
|4 | C704 | 2202-000121 | C-CERAMIC,MLC-AXIAL;0.1nF,10%,50V,Y5P,- | |
|4 | C912 | 2202-000121 | C-CERAMIC,MLC-AXIAL;0.1nF,10%,50V,Y5P,- | |
|4 | C106 | 2202-000127 | C-CERAMIC,MLC-AXIAL;10nF,+80-20%,25V,Y5V | |
|4 | C111 | 2202-000127 | C-CERAMIC,MLC-AXIAL;10nF,+80-20%,25V,Y5V | |
|4 | C702 | 2202-000210 | C-CERAMIC,MLC-AXIAL;270pF,10%,50V,Y5P,TP | |
|4 | C102 | 2202-000279 | C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3 | |
|4 | C911 | 2202-000632 | C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP | |
|4 | C211 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3 | |
|4 | C223 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3 | |
|4 | C224 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3 | |
|4 | C505 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3 | |
|4 | C906 | 2202-000796 | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3 | |
|4 | C226 | 2202-000829 | C-CERAMIC,MLC-AXIAL;0.82NF,10%,50V,Y5P,T | |
|4 | C217 | 2301-000004 | C-FILM,LEAD-PEF;2.2nF,5%,100V,TP,5.5X10X | |
|4 | C234 | 2301-000004 | C-FILM,LEAD-PEF;2.2nF,5%,100V,TP,5.5X10X | |
|4 | C248 | 2301-000013 | C-FILM,LEAD-PEF;4.7nF,5%,100V,TP,10.5x12 | |
|4 | C109 | 2301-000016 | C-FILM,LEAD-PEF;22nF,5%,100V,TP,7.2x4.5x | |
|4 | C804 | 2301-000016 | C-FILM,LEAD-PEF;22nF,5%,100V,TP,7.2x4.5x | |
|4 | C118 | 2301-000148 | C-FILM,LEAD-PEF;10nF,5%,100V,TP,7x3.2x7m | |
|4 | C407 | 2301-000148 | C-FILM,LEAD-PEF;10nF,5%,100V,TP,7x3.2x7m | |
|4 | C904 | 2301-000148 | C-FILM,LEAD-PEF;10nF,5%,100V,TP,7x3.2x7m | |
|4 | C707 | 2301-000204 | C-FILM,LEAD-PEF;2.7nF,5%,50V,TP,7.4x3.9x | |
|4 | C502 | 2301-000213 | C-FILM,LEAD-PEF;220nF,5%,250V,TP,21.5x11 | |
|4 | C805 | 2301-000233 | C-FILM,LEAD-PEF;3.9nF,10%,100V,TP,5.8x12 | |
|4 | C309 | 2301-000253 | C-FILM,LEAD-PEF;39NF,5%,100V,TP,7.5X4.5X | |
|4 | C606 | 2301-000289 | C-FILM,LEAD-PEF;5.6nF,5%,50V,TP,7x6x3mm, | |
|4 | C610 | 2301-000289 | C-FILM,LEAD-PEF;5.6nF,5%,50V,TP,7x6x3mm, | |
|4 | C227 | 2301-000445 | C-FILM,LEAD-PEF;4.7nF,5%,50V,TP,5.5x7x3mm | |
|4 | C420 | 2301-001065 | C-FILM,LEAD-PPF;47nF,5%,630V,TP,19x15.5x | |
|4 | C806 | 2301-001435 | C-FILM,LEAD-PPF;1.5nF,5%,1.2kV,TP,15x8x1 | |
|4 | C225 | 2301-001664 | C-FILM,LEAD-OTHER;100nF,3%,50V,TP,20x16x | |
|4 | C312 | 2305-000149 | C-FILM,LEAD-PEF;100nF,5%,100V,TP,12x12.5 | |
|4 | C301 | 2305-000285 | C-FILM,LEAD-PEF;220NF,5%,100V,TP,10.5X5. | |
|4 | C215 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-5mm | |
|4 | C216 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-5mm | |
|4 | C233 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-5mm | |
|4 | C603 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-5mm | |
|4 | C607 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-5mm | |
|4 | C611 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-5mm | |
|4 | C613 | 2305-000289 | C-FILM,LEAD-PEF;220nF,5%,63V,TP,-5mm | |
| △....4 | CR405S | 2305-000382 | C-FILM,LEAD-PEF;4.7nF,5%,400V,TP,-5mm | |
|4 | C207 | 2305-000412 | C-FILM,LEAD-PEF;470nF,5%,63V,TP,-5mm | |
|4 | C901 | 2305-000412 | C-FILM,LEAD-PEF;470nF,5%,63V,TP,-5mm | |
|4 | C103 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C204 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C205 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C208 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C210 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C218 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C230 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C231 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C618 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C619 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C803 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C819 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C913 | 2305-000665 | C-FILM,LEAD-PEF;100nF,5%,63V,TP,7.5x4.0x | |
|4 | C209 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11.5 | |
|4 | C213 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11.5 | |
|4 | C214 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11.5 | |
|4 | C229 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11.5 | |
|4 | C903 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11.5 | |
|4 | C910 | 2401-000025 | C-AL;100uF,20%,16V,GP,TP,6.3x11.5 | |
|4 | C206 | 2401-000050 | C-AL;10uF,20%,16V,GP,TP,5x11.2,5 | |
|4 | C220 | 2401-000050 | C-AL;10uF,20%,16V,GP,TP,5x11.2,5 | |
|4 | C812 | 2401-000262 | C-AL;100uF,20%,160V,HR,TP,16x25,7.5 | |
|4 | C817 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11.5 | |
|4 | C823 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11.5 | |
|4 | C915 | 2401-000302 | C-AL;100uF,20%,25V,GP,TP,6.3x11.5 | |
|4 | C308 | 2401-000360 | C-AL;100uF,20%,50V,GP,TP,8x11.5,5 | |
|4 | C307 | 2401-000365 | C-AL;100uF,20%,50V,WT,TP,10x12.5mm, | |
|4 | C506 | 2401-000430 | C-AL;10uF,20%,250V,GP,TP,10x16mm,5m | |
|4 | C612 | 2401-000480 | C-AL;10uF,20%,50V,GP,TP,5x11.5 | |
|4 | C709 | 2401-000480 | C-AL;10uF,20%,50V,GP,TP,5x11.5 | |
|4 | C820 | 2401-000481 | C-AL;10uF,20%,50V,WT,TP,5x11.5 | |

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|4 | C219 | 2401-000603 | C-AL;1uF,20%,50V,GP,TP,5X11,2 | |
|4 | C212 | 2401-000649 | C-AL;2.2uF,20%,50V,BP,TP,5x11,5 | |
|4 | C221 | 2401-000660 | C-AL;2.2uF,20%,50V,GP,TP,5x11,5 | |
|4 | C604 | 2401-000660 | C-AL;2.2uF,20%,50V,GP,TP,5x11,5 | |
|4 | C605 | 2401-000660 | C-AL;2.2uF,20%,50V,GP,TP,5x11,5 | |
|4 | C822 | 2401-000722 | C-AL;2200uF,20%,25V,WT,TP,16x25,7.5 | |
|4 | C222 | 2401-000758 | C-AL;0.22uF,20%,50V,GP,TP,5X11,5 | |
|4 | C110 | 2401-000962 | C-AL;22uF,20%,50V,GP,TP,5x11,5 | |
|4 | C101 | 2401-001101 | C-AL;330uF,20%,16V,GP,TP,8x11.5,5 | |
|4 | C203 | 2401-001176 | C-AL;33uF,20%,25V,GP,TP,5x11,5 | |
|4 | C802 | 2401-001192 | C-AL;33uF,20%,50V,GP,TP,6.3x11,5 | |
|4 | C504 | 2401-001232 | C-AL;4.7uF,20%,250V,GP,TP,10x12,5,5 | |
|4 | C813 | 2401-001486 | C-AL;47uF,20%,160V,HR,TP,13x20mm,5m | |
|4 | C706 | 2401-001989 | C-AL;4.7uF,20%,50V,BP,TP,5x11,5 | |
|4 | C601 | 2401-001998 | C-AL;1000uF,20%,25V,GP,TP,10x20,5mm | |
|4 | C403 | 2401-002268 | C-AL;2.2uF,20%,250V,LZ,TP,8X11,5 | |
|4 | C827 | 2401-002278 | C-AL;22uF,20%,250V,WT,TP,13x20,5 | |
|4 | C304 | 2401-002288 | C-AL;470uF,20%,25V,WT,TP,10x20,5 | |
|4 | C306 | 2401-002288 | C-AL;470uF,20%,25V,WT,TP,10x20,5 | |
|4 | C406 | 2401-002619 | C-AL;47uF,20%,25V,GP,TP,5x11,5 | |
|4 | C818 | 2401-003028 | C-AL;100uF,20%,250V,WT,TP,6.3x11,5 | |
|4 | C821 | 2401-003028 | C-AL;100uF,20%,25V,WT,TP,6.3x11,5 | |
|4 | L103 | 2701-000114 | INDUCTOR-AXIAL;10UH,10%,2534 | |
|4 | L202 | 2701-000114 | INDUCTOR-AXIAL;10UH,10%,2534 | |
|4 | L902 | 2701-000114 | INDUCTOR-AXIAL;10UH,10%,2534 | |
|4 | L904 | 2701-000114 | INDUCTOR-AXIAL;10UH,10%,2534 | |
|4 | J142 | 2701-000115 | INDUCTOR-AXIAL;10UH,10%,3070 | |
|4 | L405 | 2701-000116 | INDUCTOR-AXIAL;10UH,10%,4298 | |
|4 | L301 | 2701-000142 | INDUCTOR-AXIAL;1UH,10%,2534 | |
|4 | L302 | 2701-000142 | INDUCTOR-AXIAL;1UH,10%,2534 | |
|4 | L404 | 2701-000142 | INDUCTOR-AXIAL;1UH,10%,2534 | |
|4 | L201 | 2701-000158 | INDUCTOR-AXIAL;22UH,10%,2534 | |
|4 | L205 | 2701-000158 | INDUCTOR-AXIAL;22UH,10%,2534 | |
|4 | L903 | 2701-000158 | INDUCTOR-AXIAL;22UH,10%,2534 | |
|4 | L102 | 2701-000159 | INDUCTOR-AXIAL;22UH,10%,4298 | |
|4 | L104 | 2701-000168 | INDUCTOR-AXIAL;3.3UH,5%,2534 | |
|4 | L204 | 2701-000184 | INDUCTOR-AXIAL;4.7UH,10%,2534 | |
|4 | L702 | 2701-000184 | INDUCTOR-AXIAL;4.7UH,10%,2534 | |
|4 | L703 | 2701-000184 | INDUCTOR-AXIAL;4.7UH,10%,2534 | |
|4 | L704 | 2701-000184 | INDUCTOR-AXIAL;4.7UH,10%,2534 | |
|4 | L706 | 2701-000184 | INDUCTOR-AXIAL;4.7UH,10%,2534 | |
|4 | L804 | 2701-001030 | INDUCTOR-AXIAL;43UH,10%,4514 | |
|4 | F101 | 2901-000297 | FILTER-EMI ON BOARD;-3A,-,3.5x5,TP,- | |
|4 | F101 | 2901-000297 | FILTER-EMI ON BOARD;-3A,-,3.5x5,TP,- | |
|4 | F101 | 2901-000297 | FILTER-EMI ON BOARD;-3A,-,3.5x5,TP,- | |
|4 | Z202 | 2903-001240 | FILTER-CERAMIC;TR,5.5MHz,-,28dB,-,TP,- | |
|4 | Z203 | 2903-001246 | FILTER-CERAMIC;TR,5.5MHz,-,TP,multi. | |
|4 | L2514 | 3301-000287 | BEAD-AXIAL;3.5x1.0x6.0mm,3000mA,TP,,,50 | S.N.A |
|4 | L2514 | 3301-000287 | BEAD-AXIAL;3.5x1.0x6.0mm,3000mA,TP,,,50 | S.N.A |
|4 | L2514 | 3301-000287 | BEAD-AXIAL;3.5x1.0x6.0mm,3000mA,TP,,,50 | S.N.A |
|4 | L2514 | 3301-000287 | BEAD-AXIAL;3.5x1.0x6.0mm,3000mA,TP,,,50 | S.N.A |
|4 | L2514 | 3301-000287 | BEAD-AXIAL;3.5x1.0x6.0mm,3000mA,TP,,,50 | S.N.A |
|4 | SW901 | 3404-001252 | SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1 | |
|4 | SW902 | 3404-001252 | SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1 | |
|4 | SW903 | 3404-001252 | SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1 | |
|4 | SW904 | 3404-001252 | SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1 | |
|4 | SW905 | 3404-001252 | SWITCH-TACT;12VDC,50MA,130GF,7.5X7.1,1 | |
| △....4 | FD801S | 3601-001086 | FUSE-AXIAL LEAD;125V,5A,FAST-ACTING,GLAS | |
|4 | F801A | 3602-000001 | FUSE-CLIP;-,-,30mohm | |
|4 | F801B | 3602-000001 | FUSE-CLIP;-,-,30mohm | |
|4 | EL403 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | S.N.A |
|4 | EL404 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | S.N.A |
|4 | EL501 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | S.N.A |
|4 | EL502 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | S.N.A |
|4 | EL601 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | S.N.A |
|4 | EL602 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | S.N.A |
|4 | EL801 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | S.N.A |
|4 | EL802 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | S.N.A |
|4 | EL803 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | S.N.A |
|4 | EL804 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | S.N.A |
|4 | EL805 | 6042-000001 | EYELET;ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H | S.N.A |
|4 | EY101 | 6042-000002 | EYELET;ID1.5,OD2.2,L2.8,NI+SN,BSP3-1/2H | S.N.A |
|4 | EY401 | 6042-000002 | EYELET;ID1.5,OD2.2,L2.8,NI+SN,BSP3-1/2H | S.N.A |
|4 | EY402 | 6042-000002 | EYELET;ID1.5,OD2.2,L2.8,NI+SN,BSP3-1/2H | S.N.A |
|4 | EY403 | 6042-000002 | EYELET;ID1.5,OD2.2,L2.8,NI+SN,BSP3-1/2H | S.N.A |
|4 | EY404 | 6042-000002 | EYELET;ID1.5,OD2.2,L2.8,NI+SN,BSP3-1/2H | S.N.A |

| Level | Loc. No. | Code No. | Description ; Specification | Remark | Level | Loc. No. | Code No. | Description ; Specification | Remark |
|-------|----------|-------------|------------------------------------------|--------|-------------------------|----------|-------------|-------------------------------------------|--------|
|4 | EY405 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ASSY COVER FRONT | | | | |
|4 | EY406 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | 1 | M0001 | AA90-05382M | ASSY COVER FRONT;CS21K30MJZXNWT | S.N.A |
|4 | EY407 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | M0081 | 6003-001019 | SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR | S.N.A |
|4 | EY408 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | M0081 | 6003-001268 | SCREW-TAPTITE;TH,+,B,M4,L12,ZPC(YEL),SWR | S.N.A |
|4 | EY409 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0609 | AA60-00095C | SPACER-GUM,CRT;2160(TTSEC),-,20MM,5MM,BL | S.N.A |
|4 | EY410 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0609 | AA60-00095D | SPACER-GUM,CRT;2918(TTSEC),-,20MM,9.5MM, | S.N.A |
|4 | EY411 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | CCM1 | AA60-10050R | SCREW-MACHINE,-,SWRCH18A,M5,L31.5,HH,+,W | S.N.A |
|4 | EY412 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0081 | AA60-10050T | SCREW-TAPPING,-,SWRCH18A,M4,L20,RH,+,2S, | S.N.A |
|4 | EY414 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0003 | AA96-02843N | ASSY COVER P-FRONT;21K30(TTSEC),HIPS,HB, | S.N.A |
|4 | EY415 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | M0081 | 6003-001019 | SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR | S.N.A |
|4 | EY416 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | M0081 | 6003-001019 | SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR | S.N.A |
|4 | EY417 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0069 | AA60-00091G | SPACER-FELT,-,FELT,200X10,-,BLK,T0.5,- | S.N.A |
|4 | EY418 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0069 | AA60-00091R | SPACER-FELT,-,FELT,250X10,-,BLK,T0.5,, | S.N.A |
|4 | EY419 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0156 | AA61-00721C | HOLDER-RAIL;H4,HIPS,V0,GRAY | S.N.A |
|4 | EY420 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0607 | AA61-40113A | STOPPER-PCB;501H,HIPS,-,HB,NTR,- | S.N.A |
|4 | EY422 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | CIS7 | AA61-60003J | SPRING ETC-CS,-,SUS304,-,OD6,N7,OD6,-, | S.N.A |
|4 | EY423 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | M0112 | AA63-00894A | COVER-FRONT;21K30,HIPS,HB,SV012P,BKN1420 | S.N.A |
|4 | EY430 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0578 | AA64-03660L | INLAY AV;15K10,PS,T0.3,SHEET,BLK,SIL,P/G | S.N.A |
|4 | EY431 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | | AA64-04160A | KNOB-DECORATION;15K30,ABS,HB,AL | S.N.A |
|4 | EY501 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0023 | AA64-04161A | KNOB-POWER;15K30,ABS,HB,G3676,SV/M3012 | S.N.A |
|4 | EY801 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0022 | AA64-04162A | KNOB CONTROL;15K30,ABS,HB,G3676,SV/M3012 | S.N.A |
|4 | EY802 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0299 | AA64-04165A | WINDOW-RMC LED;15K30,PC,CLEAR | S.N.A |
|4 | EY803 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0057 | AA64-70123A | BADGE-BRAND;NEW,ALL,L50,FLAT,SILVER,SAMSU | S.N.A |
|4 | EY807 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | CIS1 | AA65-00011C | CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2, | S.N.A |
|4 | EY808 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | CIS1 | AA65-30105A | CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2, | S.N.A |
|4 | EY809 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0382 | BP61-00509C | HOLDER-CARE;PJT,ACRYL-FOAM,T0.25,W20.0mm | S.N.A |
|4 | EY810 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0175 | AA96-10146C | ASSY SPEAKER P,-,8ohm,5W,3001-000274,350 | S.N.A |
|4 | EY813 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0082 | 3001-000274 | SPEAKER;5W,80HM,90DB,160HZ | S.N.A |
|4 | EY818 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0245 | AA39-20505M | LEAD CONNECTOR-ASSY;4P,350,700MM,YSH025 | S.N.A |
|4 | EY819 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0382 | BP61-00495C | HOLDER-CARE;PJT,ACRYL-FOAM,T0.25,W30.0mm | S.N.A |
|4 | EY821 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ASSY FIXING | | | | |
|4 | EY822 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | 1 | T0892 | AA91-06700A | ASSY FIXING;KS1A,MAC,THE OTHERS,CP2 | S.N.A |
|4 | EY823 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0245 | AA39-20010D | LEAD CONNECTOR-ASSY;1P,400,YFH800-01,S, | S.N.A |
|4 | EY824 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0016 | AA65-30009A | CLAMPER CORE-FBT,-,ABS,V0,-,BLK,- | S.N.A |
|4 | EY825 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | CIS1 | AA65-30018A | CLAMPER CORE-WIRE;DONG-A,NYLON-66,-,-,-, | S.N.A |
|4 | EY827 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | CIS1 | AA65-30018A | CLAMPER CORE-WIRE;DONG-A,NYLON-66,-,-,-, | S.N.A |
|4 | EY828 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | CIS1 | AA65-30111A | CLAMPER CORE-WIRE;ALL MODEL,NYLON,V0,-,W | S.N.A |
|4 | EY829 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0066 | AA96-20109B | ASSY POWER CORD,-,CP2/NQ(4.0),H/C250,KKP | S.N.A |
|4 | EY830 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0268 | AA39-10006X | CBF-POWER CORD,-,KKP419C,KLCE-2F,2.286MT | S.N.A |
|4 | EY833 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0010 | AA61-20284A | HOLDER;P-CORD,PP,-,-,BLK,VO,KE-002 | S.N.A |
|4 | EY840 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0245 | AA61-01364A | HOLDER-COVER;KS1A,NYLON66,BLK,V2 | S.N.A |
|4 | EY841 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ASSY CPT | | | | |
|4 | EY850 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | 1 | T0521 | AA91-07790A | ASSY CPT;CS21M16MGZXXSE,KS9A | S.N.A |
|4 | EY851 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0089 | AA27-00256A | COIL DEGAUSSING;21HCH,10%,35TS,4.5OHM, | S.N.A |
|4 | EY852 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0527 | AA65-00009B | CLAMPER CORE-D.COIL;21A8,NYLON 66,V0,-, | S.N.A |
|4 | EY853 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..2 | T0521 | AA91-07819A | ASSY CPT;CS21M16MHZXBWT,KS9A FLAT MST | S.N.A |
|4 | EY854 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0063 | AA03-00403A | CRT COLOR;A51QD,993X,0MG,1.75MH,18MH,3.1 | S.N.A |
|4 | EY860 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0079 | AA27-00002A | MAGNET CONVERGENCE;JH291-11D,29.1MM | S.N.A |
|4 | EY861 | 6042-000002 | EYELET;ID1.5,OD2,L2.8,Ni+SN,BSP3-1/2H | S.N.A | ..3 | T0078 | AA27-00324A | DEFLECTION YOKE;DIF-2192AA(A),S/TA51QD | S.N.A |
|4 | LX085 | AA27-90001B | COIL-SPARK,GAP;S-23,1.5KV,-,-,-,-,-,-,-, | S.N.A | ..3 | T0299 | AA63-60028A | SPACER-DY,-,NEOPRENE,-,-,BLK,-,-,V0 W1 | S.N.A |
|4 | CN909 | AA37-00001A | CONNECTOR-FBT FIX PIN;JM-3500,CPTTV,0.36 | S.N.A | ..2 | T0603 | AA98-70014D | ASSY TBC WIRE P,TVI,22,NTSC,PAL,1P,UL101 | S.N.A |
|4 | CN909 | AA37-00001A | CONNECTOR-FBT FIX PIN;JM-3500,CPTTV,0.36 | S.N.A | ASSY COVER REAR | | | | |
|4 | GT101 | BH71-40300A | PIN-HINGE;BRASS,D2.36!,HEAT/SINK,SN | S.N.A | 1 | M0002 | AA90-05290A | ASSY COVER REAR;21K30,HIPS,FV2,GR503,KS9 | S.N.A |
|4 | GT501 | BH71-40300A | PIN-HINGE;BRASS,D2.36!,HEAT/SINK,SN | S.N.A | ..2 | T0069 | AA60-00091J | SPACER-FELT,-,FELT,330X10,-,-,BLK,T0.5,- | S.N.A |
|4 | GT502 | BH71-40300A | PIN-HINGE;BRASS,D2.36!,HEAT/SINK,SN | S.N.A | ..2 | T0015 | AA64-03844A | CABINET BACK;21M16,TT,TSE,SAVINA,HIPS,FV | S.N.A |
|4 | GT804 | BH71-40300A | PIN-HINGE;BRASS,D2.36!,HEAT/SINK,SN | S.N.A | ..2 | T0522 | AA65-30008A | CLAMPER CORE-CORD,-,PE,HB,-,BLK,- | S.N.A |
|4 | GT805 | BH71-40300A | PIN-HINGE;BRASS,D2.36!,HEAT/SINK,SN | S.N.A | ASSY P/MATERIAL | | | | |
|4 | GT806 | BH71-40300A | PIN-HINGE;BRASS,D2.36!,HEAT/SINK,SN | S.N.A | 1 | M0113 | AA92-10814A | ASSY P/MATERIAL;21K30,KS9A | S.N.A |
|4 | GT807 | BH71-40300A | PIN-HINGE;BRASS,D2.36!,HEAT/SINK,SN | S.N.A | ..2 | T0376 | 6902-000001 | BAG AIR;LDPE;T0.2,L1800,W1000,TRP,-,LDPE | S.N.A |
|4 | DZ909 | 0403-000716 | DIODE-ZENER;MTZJ4.7B,4.59-4.77V,500MW,DO | S.N.A | ..2 | T0524 | 6902-000005 | BAG PE;HDPE/NITRON/HDPE,T0.015/T0.5/T0.0 | S.N.A |
|4 | T0077 | AA41-01027G | PCB MAIN;21M16/21M20,FR-1,1,1.6T,245*245 | S.N.A | ..2 | T0376 | 6902-000061 | BAG AIR;LDPE;T0.2,L1000,W500,TRP,-, | S.N.A |
|3 | T444S | AA26-00231A | TRANS FBT;FOK14A001,CPTTV,3.65mH,3166,FE | S.N.A | ..2 | T0214 | AA60-40006A | PIN-STAPLE;AUTO,33X17.8X2.4,H18,33X17.8X | S.N.A |
|3 | P803T | 1404-001154 | THERMISTOR-PTC;4.5OHM,+30%/20%,220V,270 | S.N.A | | | | | |
|3 | C801 | 2401-001387 | C-AL;470uF,20%,250V,GP,BK,25.4x40,1 | S.N.A | | | | | |
|3 | C830 | 2401-001387 | C-AL;470uF,20%,250V,GP,BK,25.4x40,1 | S.N.A | | | | | |

| Level | Loc. No. | Code No. | Description ; Specification | Remark | Level | Loc. No. | Code No. | Description ; Specification | Remark |
|-------|----------|----------|-----------------------------|--------|-------|----------|----------|-----------------------------|--------|
|-------|----------|----------|-----------------------------|--------|-------|----------|----------|-----------------------------|--------|

ASSY BOX

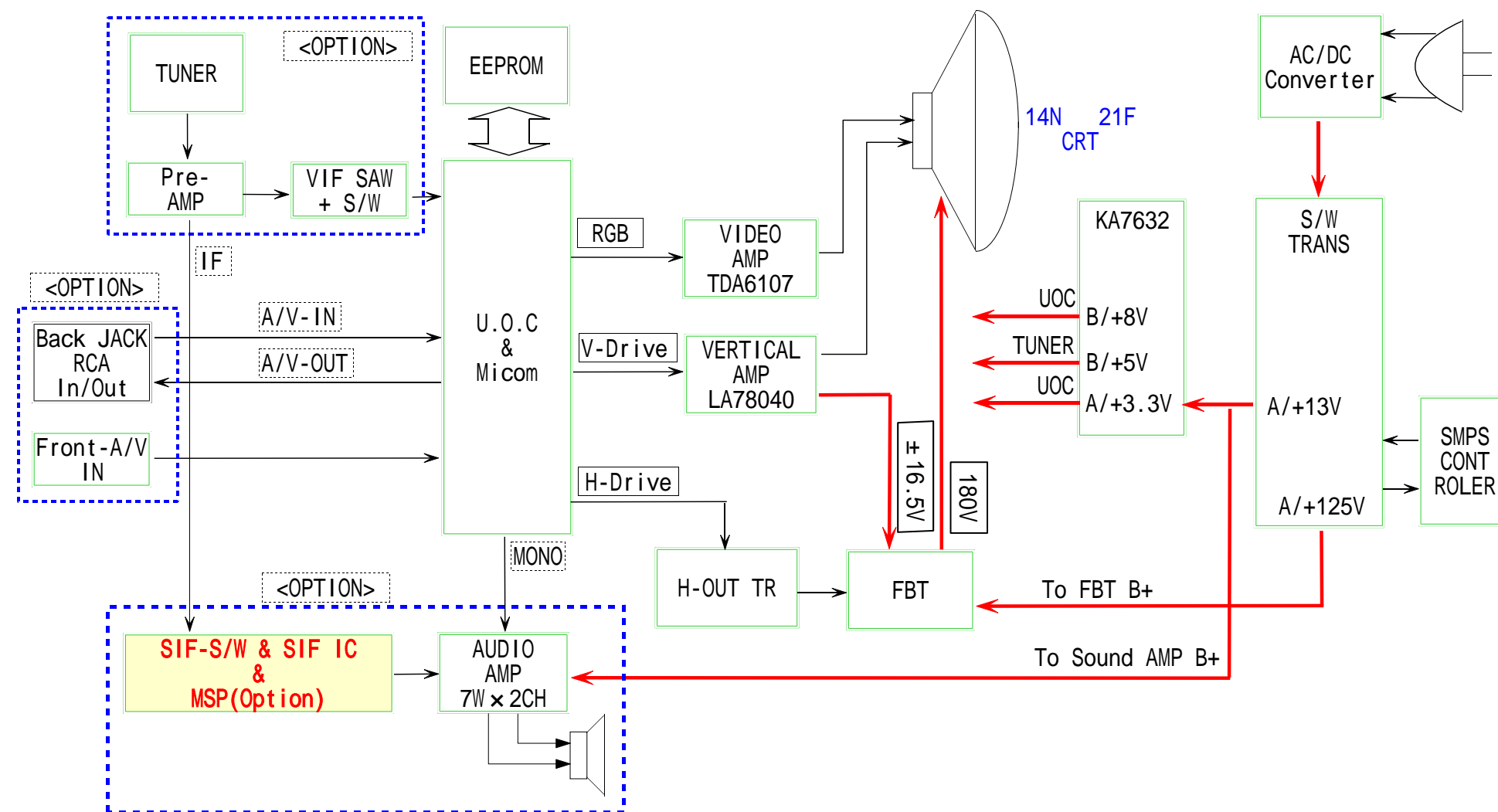
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|----|-------|-------------|------------------------------------------|-------|
| 1 | M0003 | AA92-11212M | ASSY BOX;CS21K30MJZXNWT | S.N.A |
| .2 | | AA69-03134B | BOX-00,SET;21K30(OVERSEA),DY-04,AB,YEL,A | S.N.A |

ASSY ACCESSORY

| | | | | |
|----|-------|-------------|------------------------------------------|-------|
| 1 | M0045 | AA92-09500A | ASSY ACCESSORY;21N11,RU,KS9A,FULL MONTY | S.N.A |
| .2 | T0524 | 6902-000009 | BAG PE;HDPE,T0.03,L400,W240,TRP8,2,PE M | S.N.A |
| .2 | T0903 | AA26-90001C | TRANS MATCHING;-;300ohm/75ohm,PAL,40-890 | |
| .2 | T0075 | AA42-00003A | ANT ROD;-;3S,720mm,ABS,UL/CSA,- | |
| .2 | T0074 | AA59-00332D | REMOCON;TM75,DEEP IMPACT,31,G6148,PAL,EX | |
| .2 | T0269 | AA68-01120A | MANUAL SERVICE;-;CIS,A4,6PAGE(FOLD),W/ | S.N.A |
| .2 | | AA68-03576A | MANUAL-00 REGISTRATION CARD;BWT,RU,RUSSE | S.N.A |
| .2 | M0596 | AA68-03654F | MANUAL USERS-00;COMM,SAMSUNG,NON-RUSSIAN | S.N.A |
| .2 | T0610 | AA68-03242E | MANUAL-SAFETY GUIDE;All Model,SAMSUNG,8L | S.N.A |
| .2 | T0100 | AA68-03723A | MANUAL-WARRANTY CARD;CS14Y510X,Samsung,R | S.N.A |
| .2 | T0100 | AA68-03724A | MANUAL-WARRANTY CARD;CS14Y510X,Samsung,L | S.N.A |

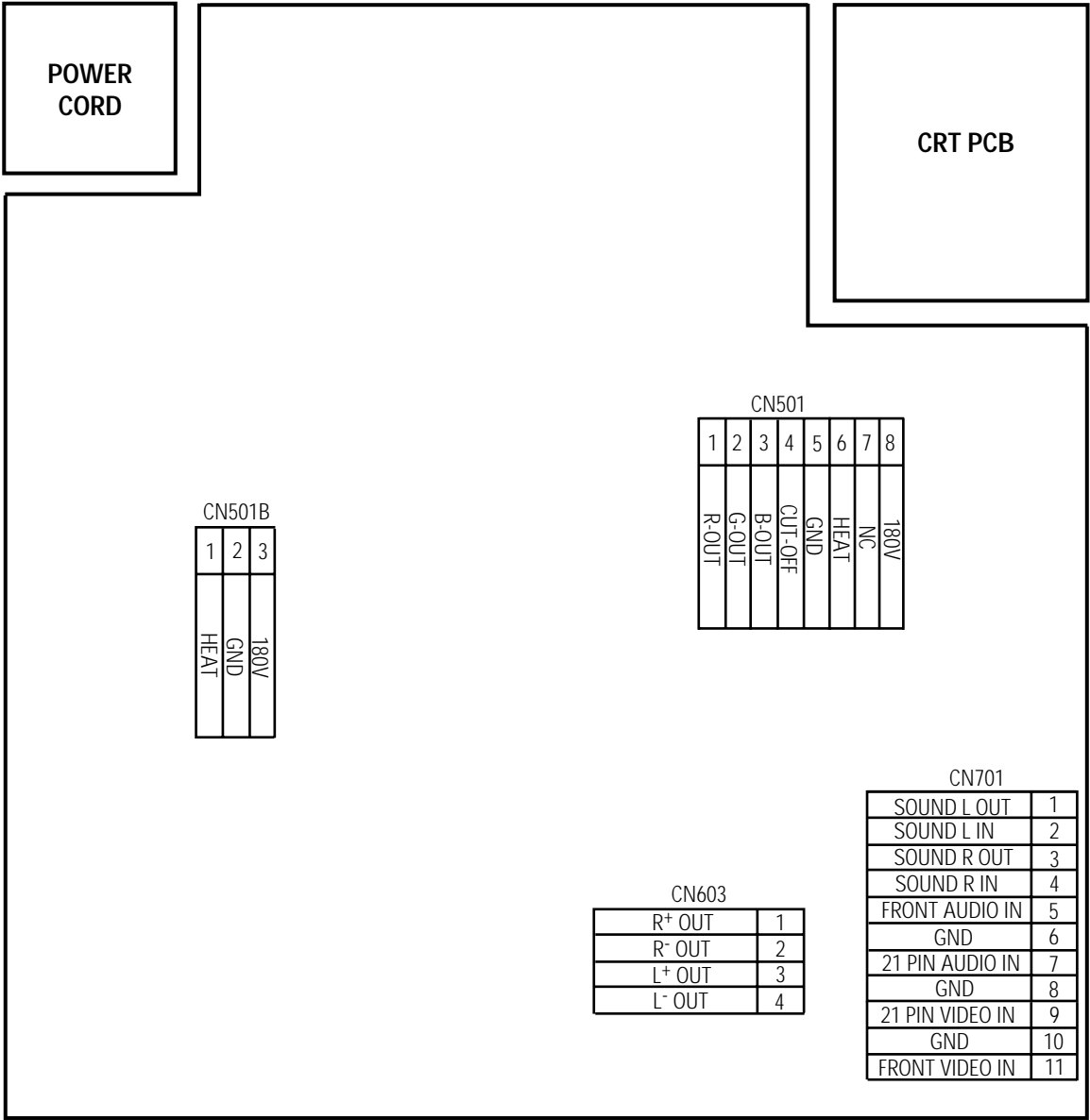
8. Block Diagram

8-1 KS9A



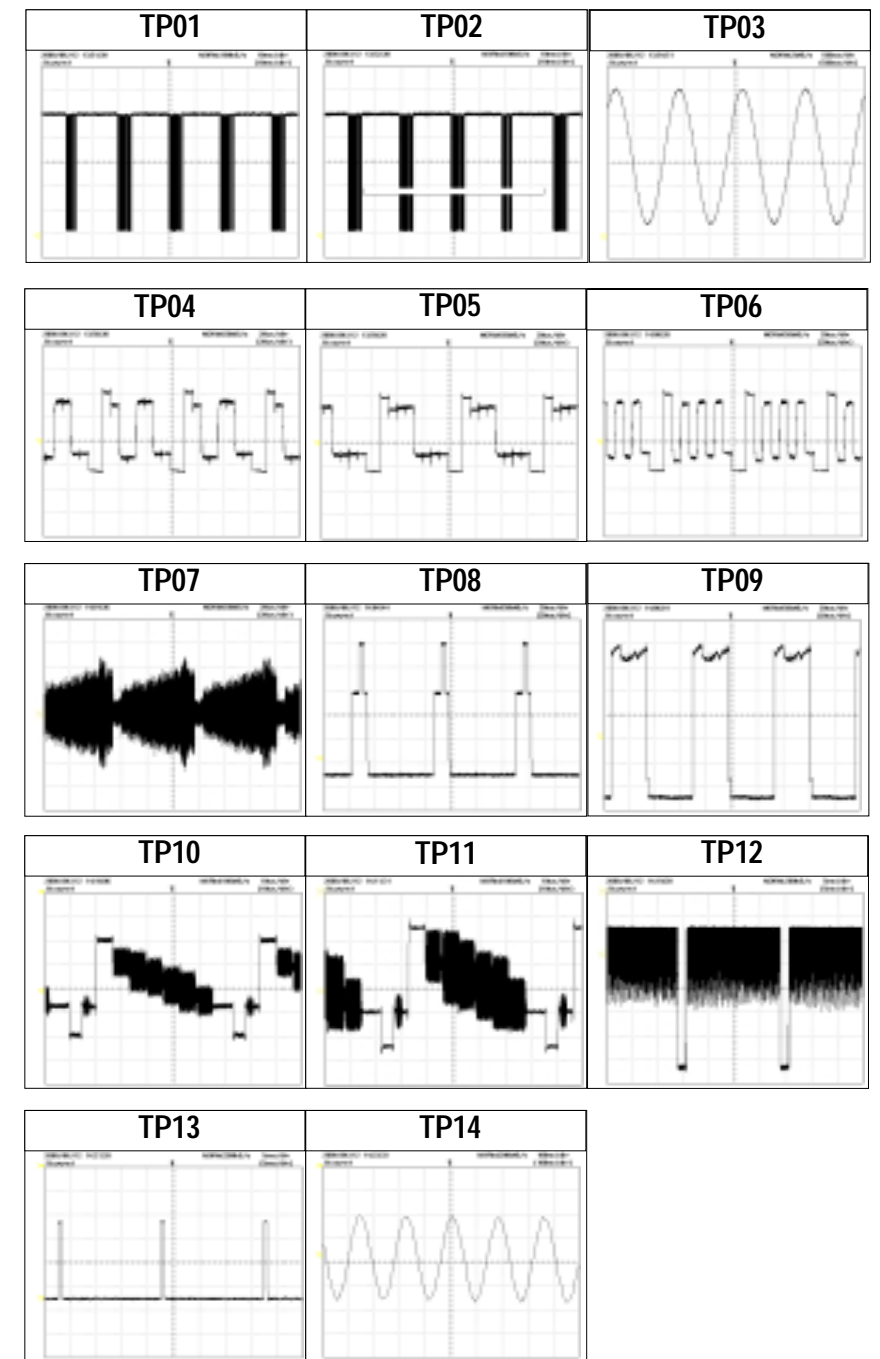
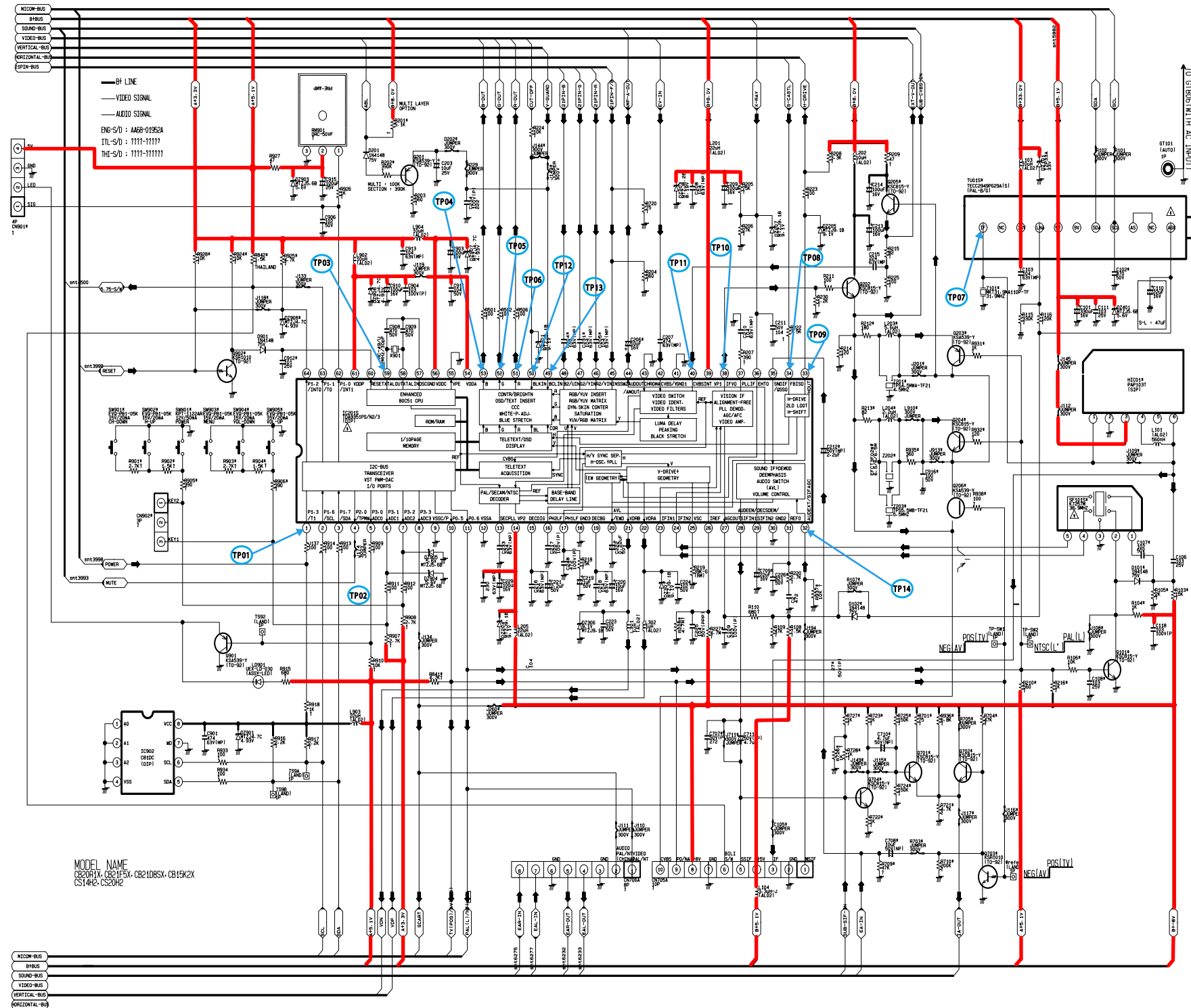
9. Wiring Diagram

9-1 KS9A



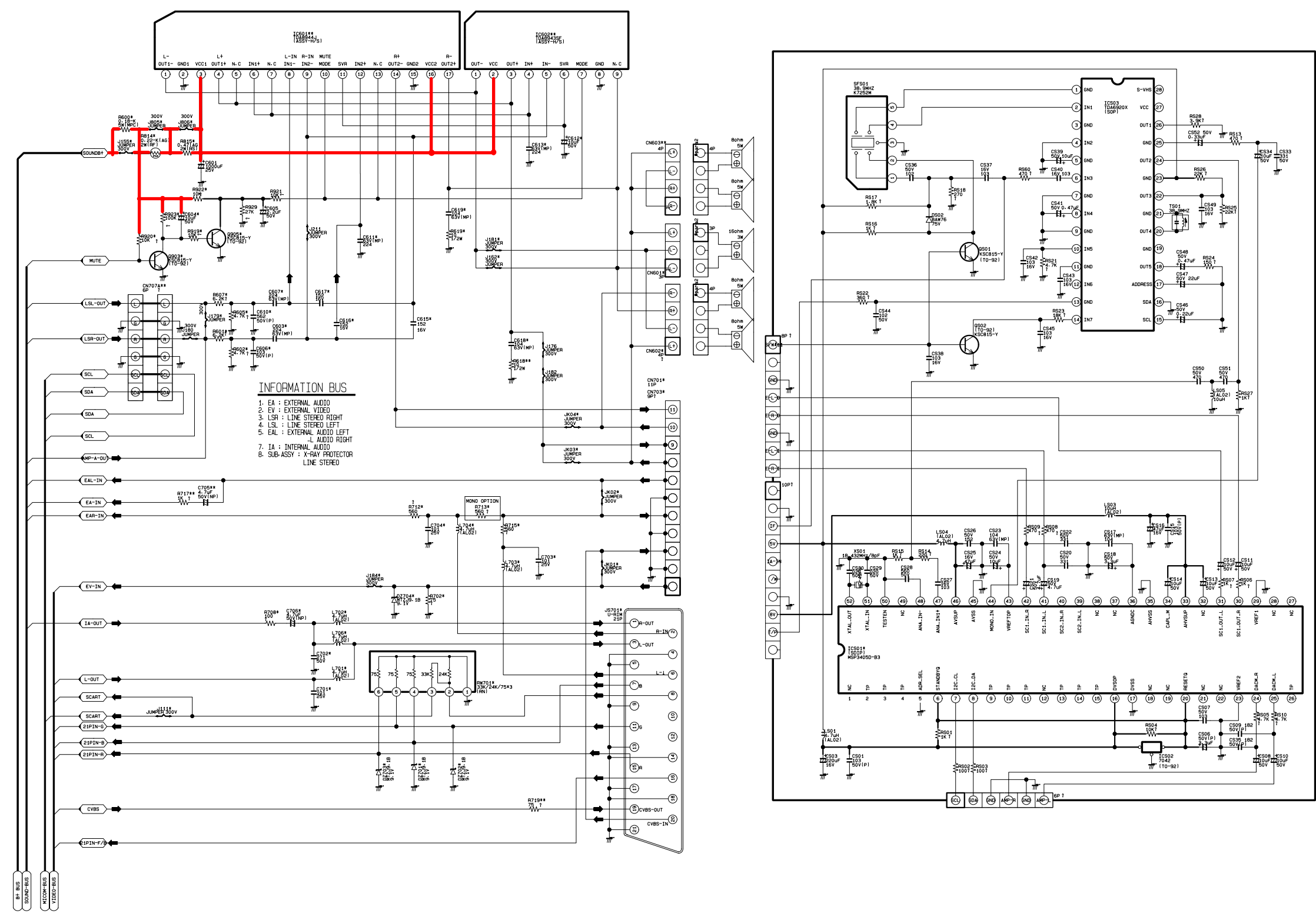
10. Schematic Diagrams

10-1 ONECHIP & MICOM



 : Power Line

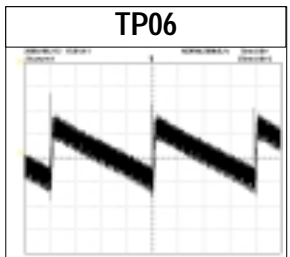
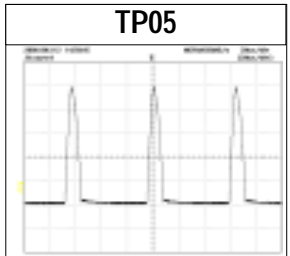
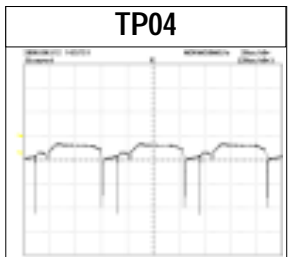
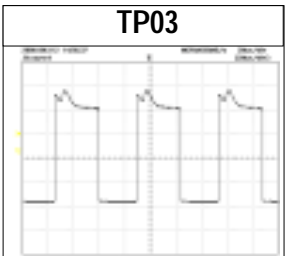
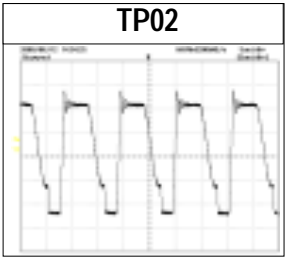
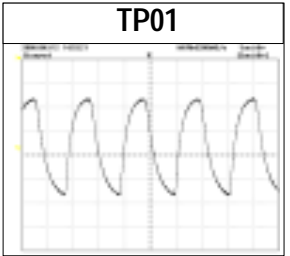
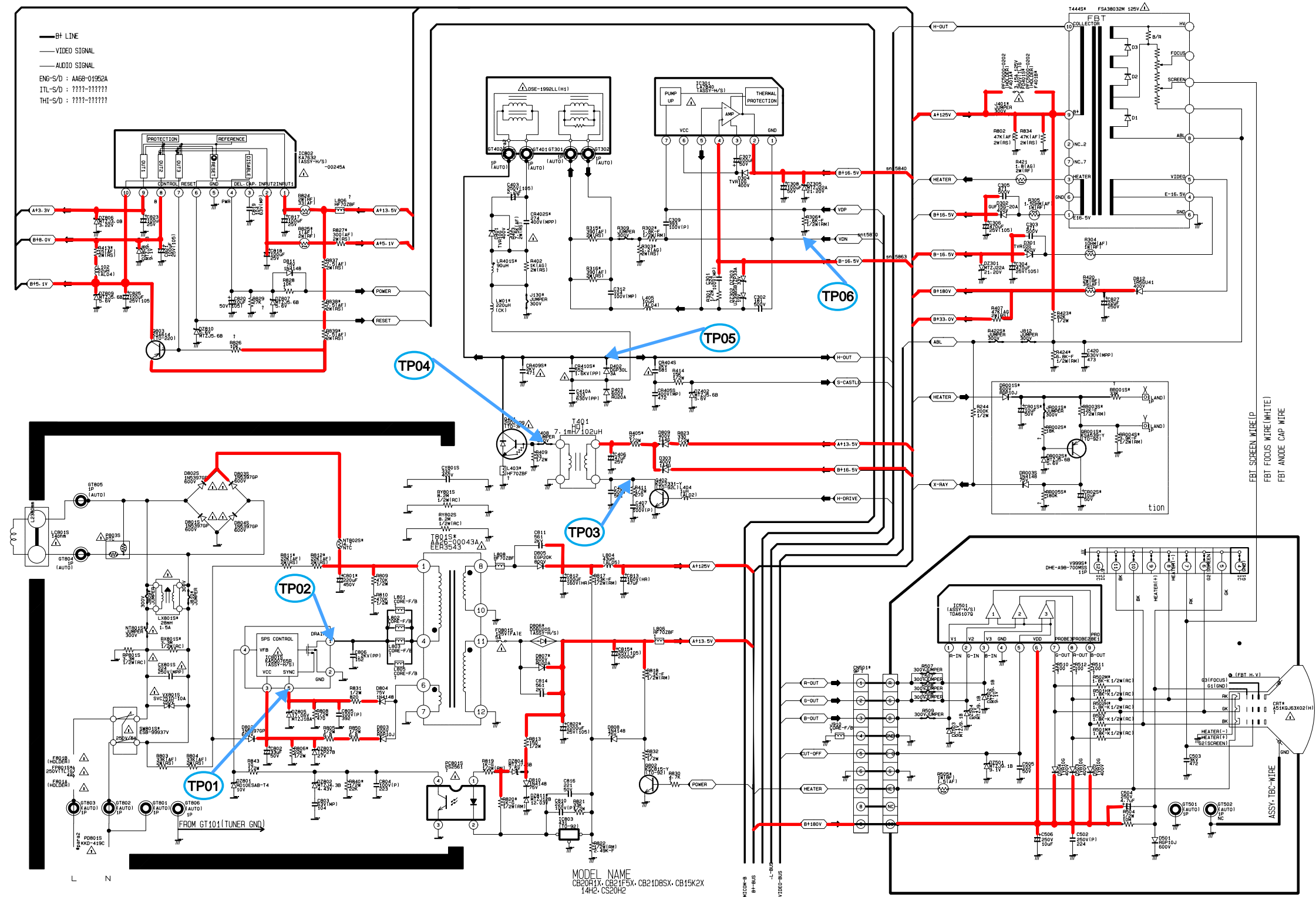
10-2 SOUND, EXT-A/V (SCART)



Power Line



10-4 POWER / CRT / VERTICAL / HORIZONTAL



Power Line

10-5 SUB PCB-MONO

