

HITACHI

PA**No. 0149****32UDX10S MF1Y
36UDX10S MF1Z**

TO GO TO A CHAPTER, PLEASE CLICK ON THE HEADING BELOW

NTSC**MF-1 Chassis****R/C: CLU-577TSI**

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CAUTION: Before servicing this chassis, it is important that the service technician read the “Product Safety Notices” in this service manual.

SAFETY NOTICE

USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by a  on the parts list in this Service Data and its supplements and bulletins. Before servicing the chassis, it is important that the service technician read and follow the “Safety Precautions” and “Product Safety Notices” in this Service Manual.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

AUGUST 2001

HHEA-MANUFACTURING DIVISION

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety-related notes located on or inside the cabinet and on the chassis or picture tube.

WARNING: Since the chassis of this receiver is connected to one side of the AC power supply during operation, whenever the receiver is plugged in, service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of receiver.

The following precautions should be observed:

1. Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn. People not so equipped should be kept away from the picture tube while handling.
2. When service is required, an isolation transformer should be inserted between power line and the receiver before any service is performed on a "HOT" chassis receiver.
3. When replacing a chassis in the receiver, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment cover-shields, isolation resistors, capacitors, etc.
4. When service is required, observe the original lead dress in the high voltage circuitry area.
5. Always use the manufacturer's replacement components. Critical components as indicated on the circuit diagram should not be replaced by another manufacturer's. Furthermore, where a short circuit has occurred, replace those components that indicate evidence of overheating.
6. Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the receiver by the manufacturer has become defective, or inadvertently defeated during servicing.

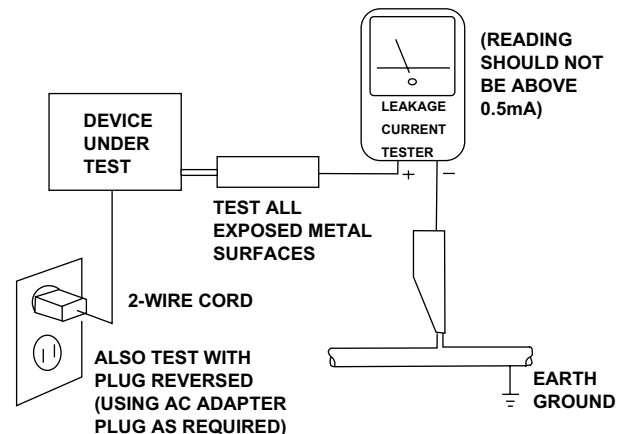
Therefore, the following checks should be performed for the continued protection of the customer and service technician.

Leakage Current Cold Check

With the AC plug removed from the 120V AC 60Hz source, place a jumper across the two plug prongs. Using an insulation tester (DC500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis should have a minimum resistor reading of $0.24M\Omega$ and a maximum resistor reading of $12M\Omega$. Any resistance value below or above this range indicates an abnormality which requires corrective action. An exposed metal part having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into a 120V AC 60Hz outlet (do not use an isolated transformer for this check). Turn the AC power ON. Using a Leakage Current Tester (Simpson's Model 229 or equivalent), measure for current from all exposed metal parts of the cabinet (antennas, screwheads, overlays, control shafts, etc.) particularly any exposed metal part having a return path to the chassis or to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5 milliamps.



AC LEAKAGE TEST

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE RECEIVER TO THE CUSTOMER.

High Voltage

This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this service manual regarding this hold down circuit when servicing, so that this hold down circuit is operated correctly.

Serviceman Warning

With minimum BRIGHTNESS and CONTRAST, the operating high voltage in this receiver is lower than $34.0\pm 1kv$. In case any component having influence on the high voltage is replaced, confirm that high voltage with minimum BRIGHTNESS and CONTRAST is lower than $34.0\pm 1kv$. To measure high voltage use a High Impedance High Voltage meter. Connect (-) to chassis earth and (+) to the CRT Anode button. (See the following connection diagram.)

Note: Turn power switch OFF without fail before the connection to the Anode button is made.

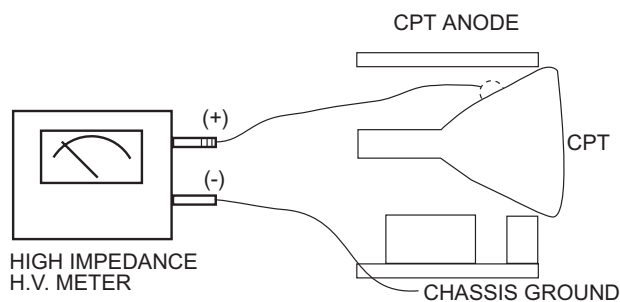
PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in HITACHI television receivers have special safety-related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified with an  mark in the schematics and parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI-recommended replacement component, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

Production safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of HITACHI Service Manuals may be obtained at a nominal charge from HITACHI Sales Corporation.



X-Radiation

TUBE: The primary source of X-Radiation in this receiver is the picture tube. The tube utilized in this chassis is specially constructed to limit X-Radiation emissions. For continued X-Radiation protection, the replacement tube must be the same type as the original HITACHI-approved type.

When troubleshooting and making test measurements in a receiver with an excessive high voltage problem, avoid being unnecessarily close to the picture tube and the high voltage component.

Do not operate the chassis longer than is necessary to locate the cause of excessive voltage.

This Service Manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly per-

formed repairs can adversely affect the safety and reliability of the product and may void warranty. Consumers should not risk trying to do the necessary repairs and should refer to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health and Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with solder. Also, when soldering do not inhale any smoke or fumes produced.

SAFETY NOTICE USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics identified by  on the parts list in this service manual and its supplements and bulletins. Before servicing this product, it is important that the service technician read and follow the "Safety Precautions" and the "Product Safety Notices" in this Service Manual.

For continued X-Radiation protection, replace picture tube with original type or HITACHI equivalent type.

POWER SOURCE

This television receiver is designed to operate on 120 Volts/60Hz, AC house current. Insert the power cord into a 120 Volts/60Hz outlet.

NEVER CONNECT THE TV TO OTHER THAN THE SPECIFIED VOLTAGE OR TO DIRECT CURRENT.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service data and its supplements and addenda, read and follow the SAFETY PRECAUTIONS on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Guidelines

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

CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
 - d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc.) equipped with a suitable high voltage probe. Do not test high voltage by “drawing an arc.”
3. Discharge the picture tube’s anode by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube high voltage output, using an insulated handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this instrument or any of its assemblies.
5. Unless specified otherwise in these service data, clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength).

CAUTION: This is a flammable mixture. Unless specified otherwise in these service data, lubrication of contacts is not required.
6. Do not defeat any plug/socket B+ voltage interlocks which instruments covered by this service data might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat-sinks are correctly installed.

8. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.
9. Use with this instrument only the test fixtures specified in this service data.

CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

Electrostatically Sensitive (ES) Devices

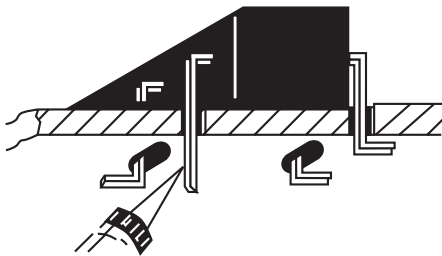
Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following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

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

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range 500°F to 600°F.
2. Use an appropriate gauge of resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well-tinned.
4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch or 1.25 cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following desoldering technique.
 - a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
 - b. Heat the component lead until the solder melts. Quickly draw away the melted solder with an anti-static, suction-type solder removal device or with solder braid.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
 - b. First, hold the soldering iron tip and solder strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil or components.
 - d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.



Use Soldering Iron to Pry Leads

IC Removal/Replacement

Some Hitachi unitized chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

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

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

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to areas.)

“Small-signal” Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a “U” shape the end of each of three leads remaining on the circuit board.
3. Bend into a “U” shape the replacement transistor leads.
4. Connect to replacement transistor leads to the corresponding leads extending from the circuit board and crimp the “U” with long nose pliers to insure metal to metal contact, then solder each connection.

Power Output Transistor Devices Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heatsink mounting screw (if so equipped).
3. Carefully remove the transistor from the circuit board.
4. Insert new transistor in circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicularly to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two “original leads”. If they are not shiny, reheat them and, if necessary, apply additional solder.

Fuses and conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of circuit board hollow stake.
2. Securely crimp leads of replacement component around stake 1/8 inch from top.
3. Solder the connections.

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

Circuit Board Foil Repair

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

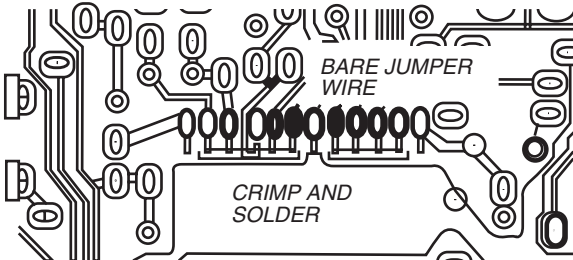
In Critical Copper Pattern Areas

High component/copper pattern density and/or special voltage/current characteristics make the spacing and integrity of copper pattern in some circuit board areas more critical than in others. The circuit foil in these area is designated as Critical Copper Pattern. Because Critical Copper Pattern requires special soldering techniques to ensure the maintenance of reliability and safety standards, contact your Hitachi personnel.

At IC Connections

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

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary.)
2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.

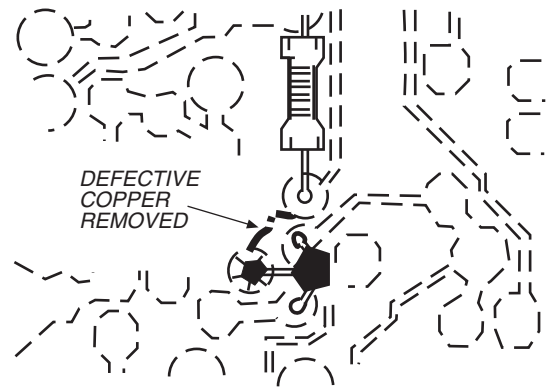


Install Jumper Wire and Solder

3. Bend a small "U" in one end of a small-gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area, and clip off any excess jumper wire.

At Other Connections

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



Insulated Jumper Wire

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

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

Frequency Synthesis (FS) Tuning Systems

1. Always unplug the instrument AC power cord before disconnecting or reconnecting FS tuning system cables and before removing or inserting FS tuning system modules.
2. The FS tuner must never be disconnected from the FS tuning control module while the power is applied to the instrument.
3. When troubleshooting intermittent problems that might be caused by defective cable connection(s) to the FS tuning system, remove the instrument AC power as soon as the defective connector is found and finish confirming the bad connection with a continuity test. This procedure will reduce the probability of electrical overstress of the FS system semi-conductor components.

NOTE: These components are affixed with glue. Be careful not to break or damage any foil under the component or at the pins of the ICs when removing. Usually applying heat to the component for a short time while twisting with tweezers will break the component loose.

Leadless Chip Components (surface mount)

Chip components must be replaced with identical chips due to critical foil track spacing. There are no holes in the board to mount standard transistors or diodes. Some chip capacitor or resistor board solder pads may have holes through the board, however the hole diameter limits standard resistor replacement to 1/8 watt. Standard capacitors may also be limited for the same reason. It is recommended that identical chip components be used.

Chip resistors have a three digit numerical resistance code -1st and 2nd significant digits and a multiplier. Example: 162 = 1600 or 1.6K Ω resistor, 0 = 0 Ω (jumper).

Chip capacitors generally do not have the value indicated on the capacitor. The color of the component indicates the general range of the capacitance.

Chip transistors are identified by a two letter code. The first letter indicates the type and the second letter, the grade of transistor.

Chip diodes have a two letter identification code as per the code chart and are a dual diode pack with either common anode or common cathode. Check the parts list for correct diode number.

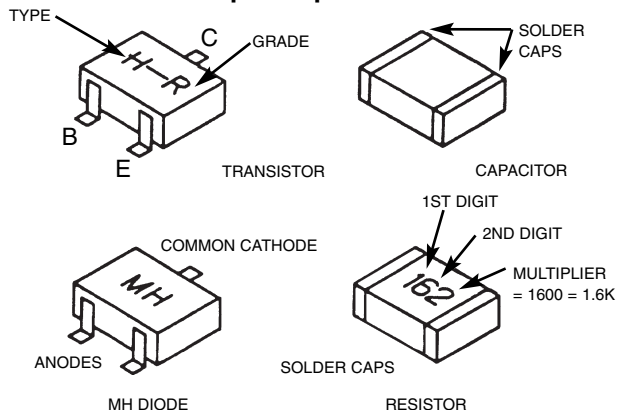
Component Removal

1. Use solder wick to remove solder from component end caps or terminals.
2. Without pulling up, carefully twist the component with tweezers to break the adhesive.
3. Do not reuse removed leadless or chip components since they are subject to stress fracture during removal.

Chip Component Installation

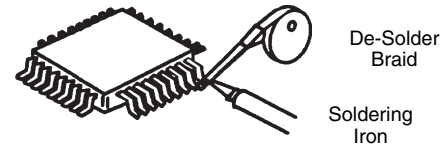
1. Put a small amount of solder on the board soldering pads.
2. Hold the chip component against the soldering pads with tweezers or with a miniature alligator clip and apply heat to the pad area with a 30 watt iron until solder flows. Do not apply heat for more than 3 seconds.

Chip Components

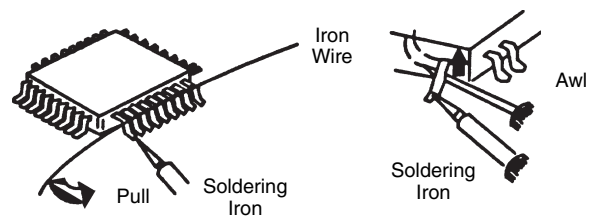


How to Replace Flat-IC —Required Tools—

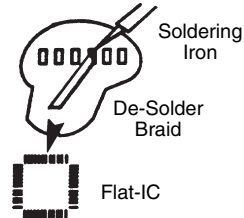
- Soldering iron
 - iron wire or small awl
 - De-solder braids
 - Magnifier
1. Remove the solder from all of the pins of a Flat-IC by using a de-solder braid.



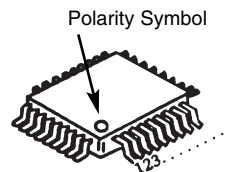
2. Put the iron wire under the pins of the Flat-IC and pull it in the direction indicated while heating the pins using a soldering iron. A small awl can be used instead of the iron wire.



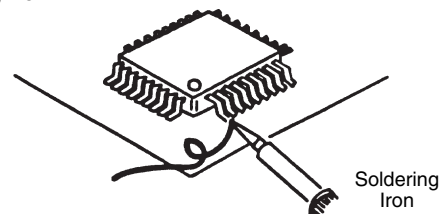
3. Remove the solder from all of the pads of the Flat-IC by using a de-solder braid.



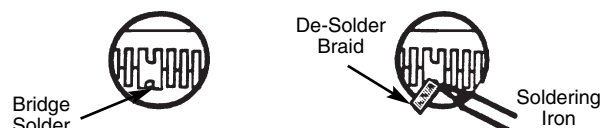
4. Position the new Flat-IC in place (apply the pins of the Flat-IC to the soldering pads where the pins need to be soldered). Properly determine the positions of the soldering pads and pins by correctly aligning the polarity symbol.



5. Solder all pins to the soldering pads using a fine tipped soldering iron.



6. Check with a magnifier for solder bridge between the pins or for dry joint between pins and soldering pads. To remove a solder bridge, use a de-solder braid as shown in the figure below.



TECHNICAL SPECIFICATIONS

POWER RATINGS

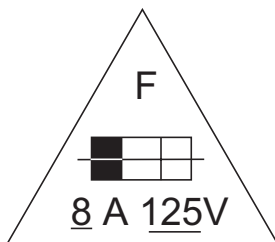
36UDX10S/MF1Z		208 Max. Watts
32UDX10S/MF1Y		208 Max. Watts

COLOR PICTURE TUBE

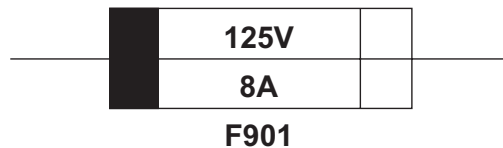
36UDX10S/MF1Z		A90LPY30X50
32UDX10S/MF1Y		A80LJF30X50

CAUTION: Below is an EXAMPLE only. See Replacement Parts List for details. The following symbol near the fuse indicates fast operating fuse (to be replaced). Fuse ratings appear within the symbol.

Example:



“RISK OF FIRE - REPLACE FUSE AS MARKED”



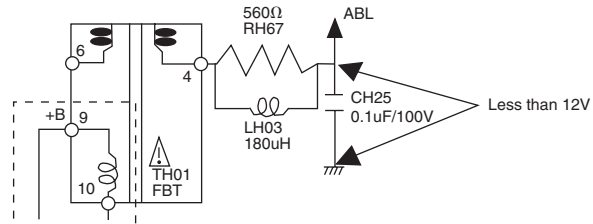
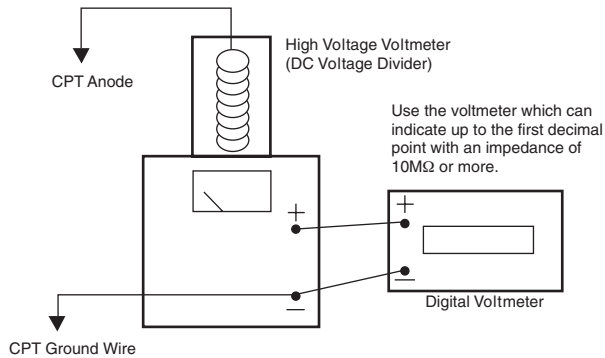
The rating of fuse F901 is 8.0A-125V.
Replace with the same type fuse for continued protection against fire.

TECHNICAL CAUTIONS

High Voltage Limiter Circuit Operation Check and Overvoltage Protection Circuit Operation Check

Preparation

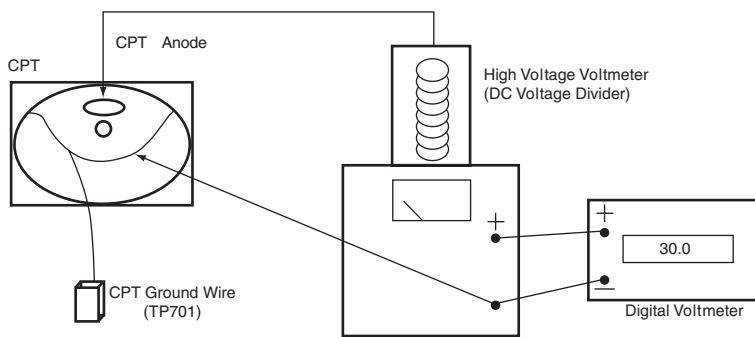
1. Connect a High Voltage Voltmeter between CPT Anode terminal (Anode cap side) and Ground.
2. Set the AC input voltage to $120 \pm 3V$.
3. Receive Circle Pattern or Broadcast Signal and set "BRIGHTNESS" and "CONTRAST" to maximum. Adjust the SCREEN VR so that Beam Current is $I_B \pm 0.1mA$. (The voltage at ABL terminal (C425) should be 12V or less.)



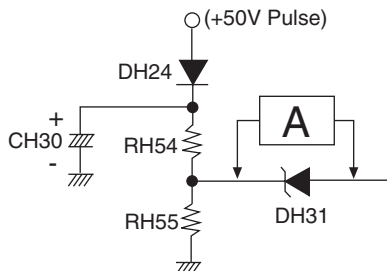
Procedure

1. Check that the normal High Voltage and +B Voltage as below.

CHASSIS	EHT $\pm 1kV$	$I_B \pm 0.1mA$	+B
MF1Z	$30.0 \pm 1kV$	$1.7 \pm 0.1mA$	$142 \pm 1.5V$
MF1Y	$29.0 \pm 1kV$	$1.5 \pm 0.1mA$	$142 \pm 1.5V$



2. Connect a 10KΩ 1/8W resistor to both ends of DH31 and check that power is turned off.



3. Disconnect the AC plug and remove the 10kΩ resistor.

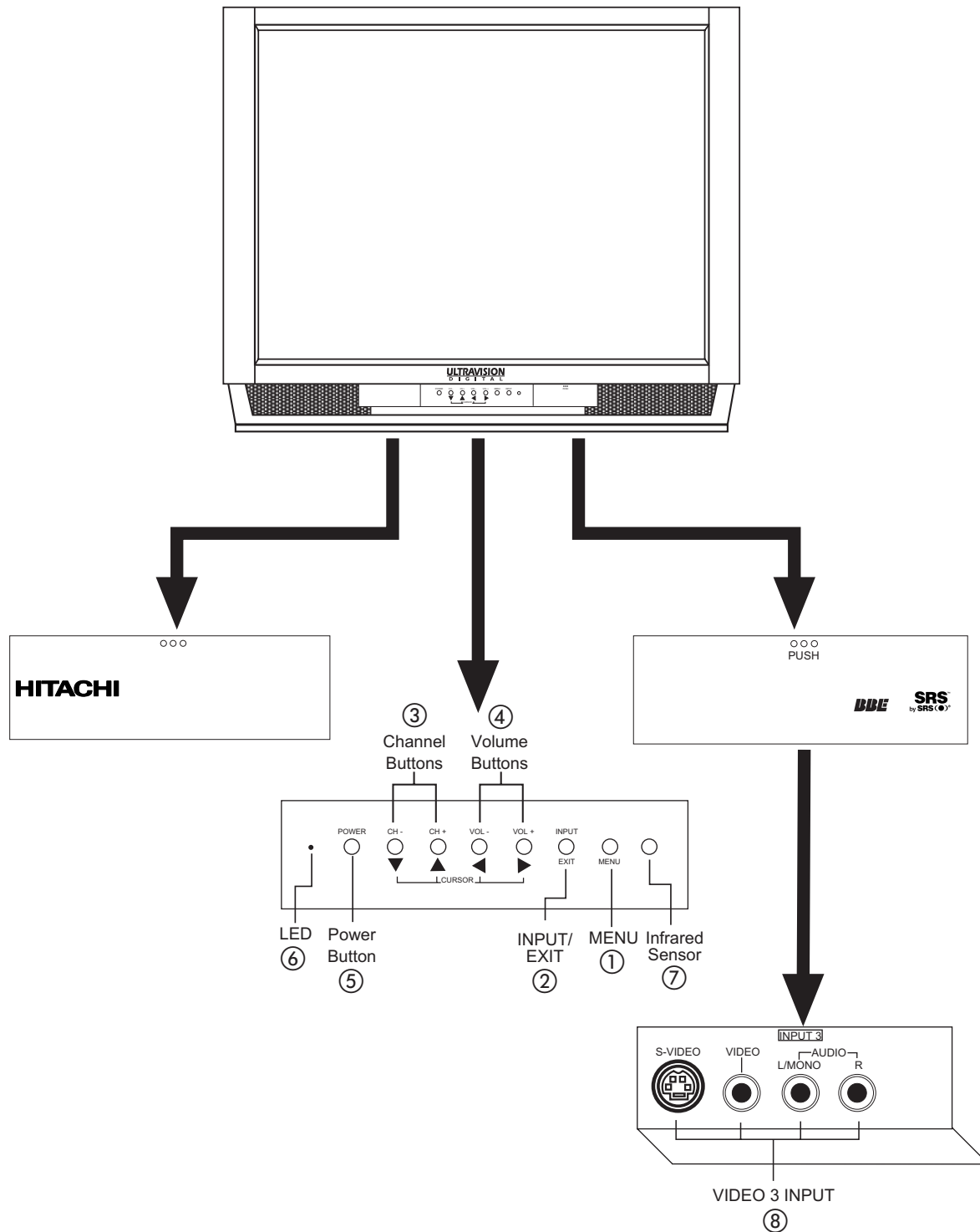
PLEASE CLICK ON THE ADJUSTMENT HEADING TO GO TO THAT SECTION

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FRONT PANEL CONTROLS



A detailed explanation of the circled numbers is on page 13.

FRONT PANEL CONTROLS

① MENU button

This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote.

② INPUT/EXIT button

Press this button to select the current antenna source, VIDEO: 1, 2, 3 or alternate antenna source. Your selection is shown in the top right corner of the screen. This button also serves as the EXIT button when in MENU mode.

③ CHANNEL selector

Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in MENU mode.

④ VOLUME level

Press these buttons for your desired sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (◀) and right (▶) buttons when in MENU mode.

⑤ POWER button

Press this button to turn the TV on or off.

⑥ POWER light (LED)

You will see a red light when the TV is turned on.

⑦ REMOTE CONTROL sensor

Point your remote at this area when selecting channels, adjusting volume, etc.

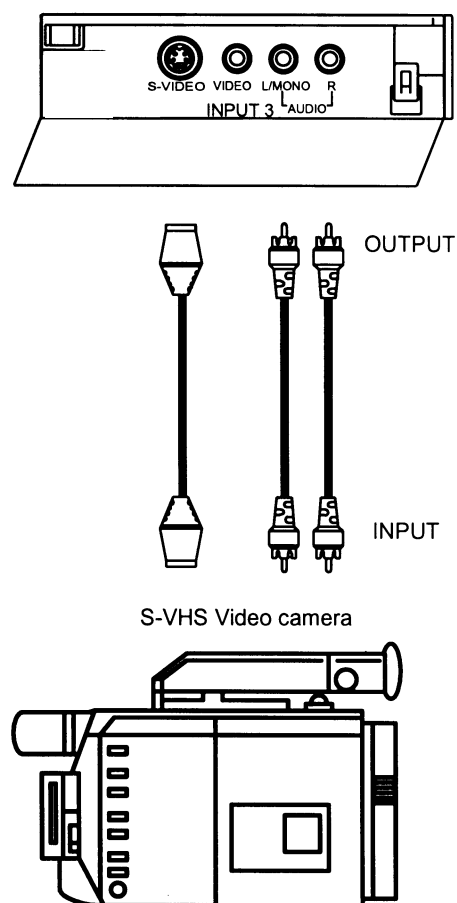
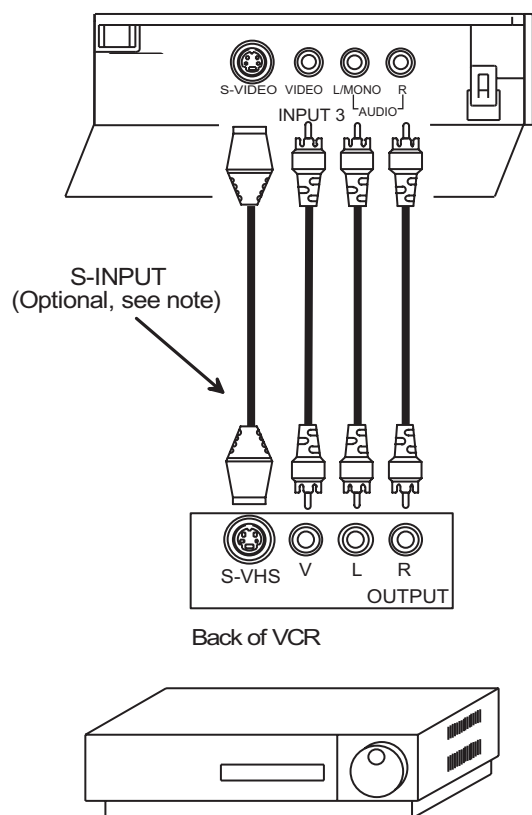
⑧ FRONT INPUT JACKS (for VIDEO: 3)

Use these audio/video jacks for a quick hook-up from a camcorder or VCR to instantly view your favorite show or new recording. Press the INPUT button until VIDEO: 3 appears in the top right corner of the TV screen. If you have mono sound, insert the audio cable into the left audio jack.

- | |
|---|
| <p>NOTES:</p> <ol style="list-style-type: none">1. Your HITACHI TV will appear to be turned OFF if there is no video input when VIDEO: 1, 2 or 3 is selected. Check the Power Light to make sure the TV is turned off when not in use.2. To see an auto-demonstration of the on-screen displays with HELP text displayed, press and hold the POWER button on the TV set for approximately five seconds. Press the POWER button on the TV again to end the auto-demonstration. |
|---|

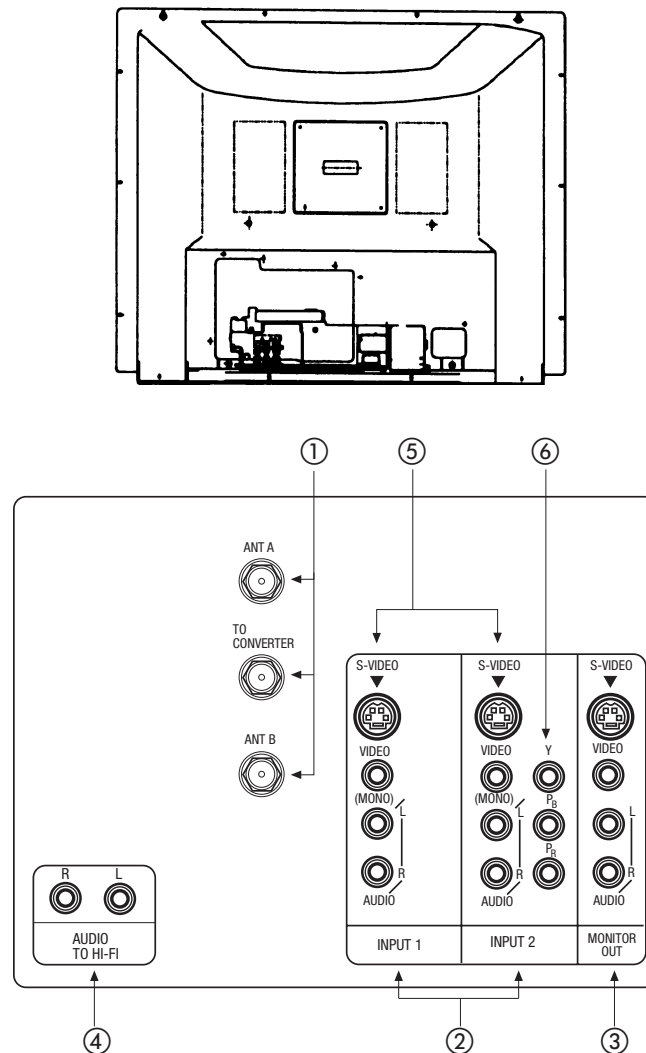
FRONT PANEL JACKS AND CONNECTIONS

The front panel jacks are provided as a convenience to allow you to easily connect a camcorder or VCR as shown in the following examples:



- NOTE:**
1. Completely insert connection cord plugs when connecting to front panel jacks. If you do not, the played back picture may be abnormal.
 2. If you have a S-VHS VCR, use the S-INPUT cable in place of the standard video cable.
 3. If you have a mono VCR, insert the audio cable into the left audio jack of your TV.

REAR PANEL OF TELEVISION



① Antenna Inputs/Output

The remote control allows you to switch between two separate 75-Ohm RF antenna inputs, ANT A and ANT B. ANT A input can be displayed as a main picture or sub-picture. ANT B can only be displayed as a main picture. (ANT B cannot be displayed as a sub picture.) The antenna output labeled "TO CONVERTER" allows the ANT A connection to pass directly to a different source such as a cable box.

NOTE: You may use VIDEO, S-VIDEO, or COMPONENT Y-PBPR inputs to connect to INPUT 2, but only one of these inputs may be used at one time.

② Audio/Video Inputs 1, 2

The INPUT button will step through each video source and antenna source input each time it is pressed. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, etc. (If you have mono sound, insert the audio cable into the left channel jack.)

③ Monitor Out

These jacks provide fixed audio and video signals which are used for recording. Use the S-VIDEO output for high quality video output.

④ Audio to HI-FI

These jacks provide variable audio output to a separate stereo amplifier. With this connection, the audio to the stereo can be controlled by the television's main volume. Use these jacks for the SURROUND Left and Right channels.

⑤ S-Video Inputs

Inputs 1,2 provide S-Video (Super Video) jacks for connecting equipment with S-Video output capability.

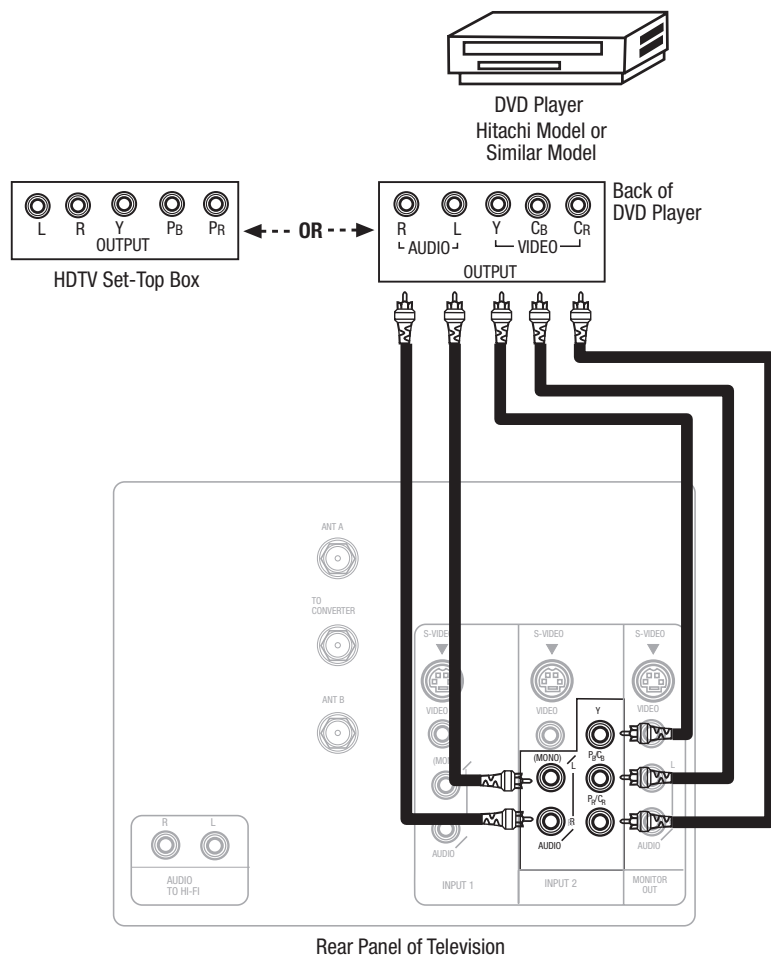
⑥ Component: Y-P_BP_R Input

Input 2 provides Y-P_BP_R jacks for connecting equipment with this capability, such as a DVD player or Set Top Box.

CONNECTING EXTERNAL VIDEO SOURCES

CONNECTING A STEREO LASERDISC/DVD PLAYER OR HDTV SET TOP BOX TO INPUT 2 COMPONENT: Y-P_BP_R.

1. Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the TV set below.
2. Connect the cable from the C_B/P_B OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_B) jack.
3. Connect the cable from the C_R/P_R OUT or R-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_R) jack.
4. Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack.
5. Connect the cable from the AUDIO OUT L of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/L) jack.
6. Press the INPUT button, to view the program from the Laserdisc/DVD player or HDTV set top box. The VIDEO icon disappears automatically after approximately eight seconds.
7. Press the INPUT button to return to the previous channel.



NOTE: Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.

TIPS ON REAR PANEL CONNECTIONS

S-VIDEO connections are provided for high performance laserdisc players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature.

If your device has only one audio output (mono sound), connect it to the left audio jack on the television.

Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.

A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 1 in the example on page 19). Refer to your VCR operating guide for more information on line input-output connections.

You may use VIDEO, S-VIDEO, or COMPONENT: Y-P_BP_R inputs to connect to Input 2, but only one of these may be used at a time.

Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.

COMPONENT: Y-P_BP_R connections are provided for high performance components, such as DVD players. Use these connections in place of the standard video connection if your device has this feature.

When using the Y-P_BP_R input jack, connect your components audio output to the TV's Input 2 Left and Right Audio input jacks.

Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's P_b input and the components R-Y output to the TV's P_R input.

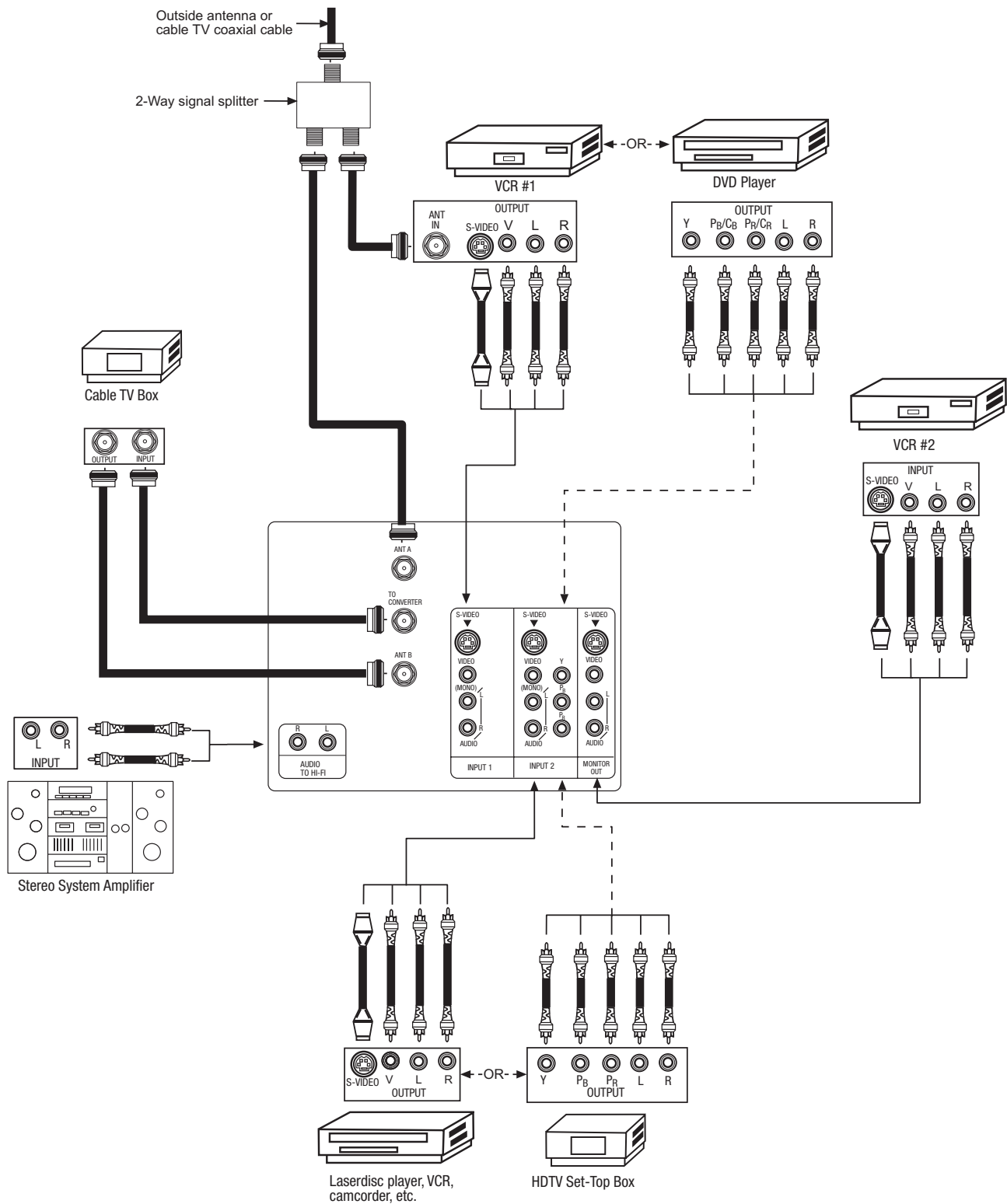
Your component outputs may be labeled Y-C_BC_R. In this case, connect the components C_B output to the TV's P_B input and the components C_R output to the TV's P_R input.

It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P_BP_R inputs.

To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-P_BP_R jacks.

REAR SPEAKER TERMINAL CONNECTIONS

TYPICAL FULL-FEATURE SETUP

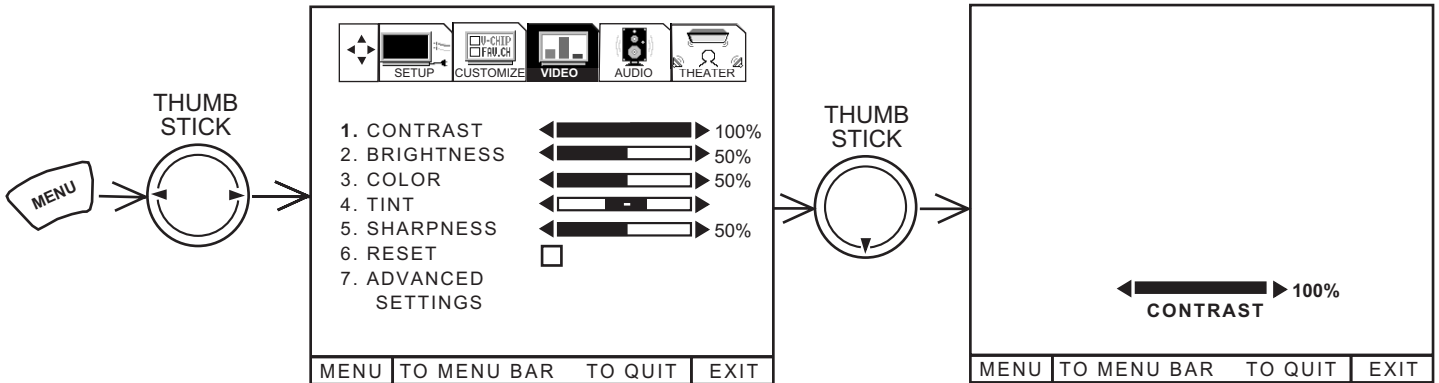


- NOTE:**
1. Connect only 1 component to each input jack.
 2. Follow connections that pertain to your personal entertainment system.

CUSTOMIZED PICTURE AND SOUND ADJUSTMENTS



Select VIDEO to adjust picture settings and improve picture quality.



Use the THUMB STICK ▲ or ▼ to highlight the function to be adjusted.
Press the THUMB STICK ◀ or ▶ to adjust the function.
Press EXIT to quit menu.

NOTE: If **CONTRAST** is selected, you are adjusting **CONTRAST**. The additional menu items **BRIGHTNESS**, **COLOR**, **TINT**, and **SHARPNESS** can be selected and adjusted in the same manner.

CONTRAST

Use this function to change the contrast between black and white levels in the picture.

BRIGHTNESS

Use this function to adjust overall picture brightness.

COLOR

Use this function to adjust the level of color in the picture.

TINT

Use this function to adjust flesh tones so they appear natural.

SHARPNESS

Use this function to adjust the amount of fine detail in the picture.

RESET

When **RESET** is selected, press down on THUMB STICK to return video adjustments to factory preset conditions.

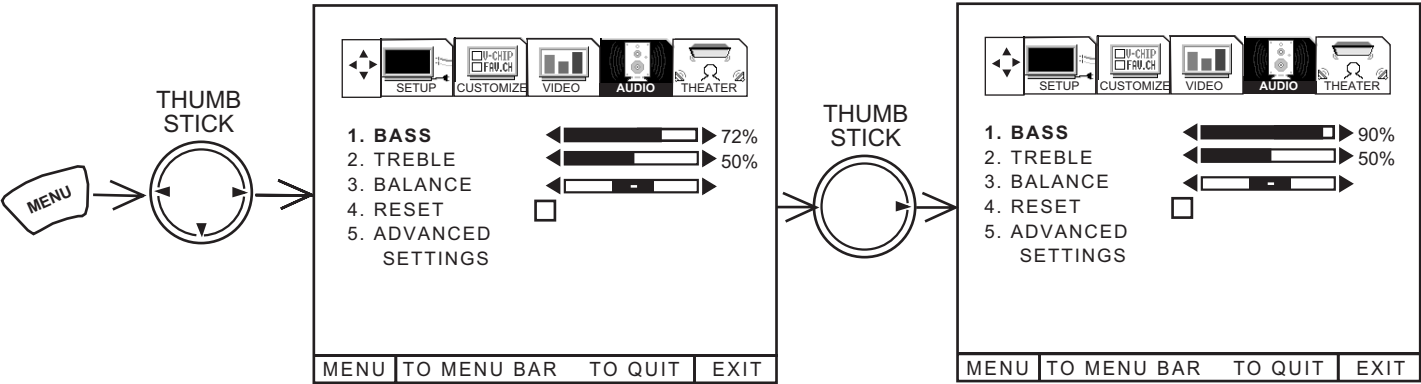
NOTE:

1. It may be necessary to adjust **TINT** to obtain optimum picture quality when using the COMPONENT VIDEO Y-P_BP_R input jack.
2. If you are using the COMPONENT VIDEO input jack (Y-P_BP_R) and notice that the **TINT** and **COLOR** are abnormal, check to make sure that COMPONENT SET - COLOR SYSTEM is set properly.

CUSTOMIZED PICTURE AND SOUND ADJUSTMENTS



Select AUDIO to adjust the TV to your preference and to improve the sound quality.



Use THUMB STICK ▲ or ▼ to highlight the function to be adjusted.
Press THUMB STICK ◀ or ▶ to adjust the function.
When RESET is highlighted, press down on THUMB STICK to reset audio settings to factory conditions.
Press EXIT to quit menu.

NOTE: If BASS is selected you are adjusting BASS. The additional menu items TREBLE and BALANCE can be selected and adjusted in the same manner.

BASS	This function controls the low frequency audio to all speakers.
TREBLE	This function controls the high frequency audio to all speakers.
BALANCE	This function will control the left to right balance of the TV internal speakers and the AUDIO TO HI FI output.
RESET	When RESET is selected, press CURSOR ▶ to return audio adjustments to factory preset conditions.

I. MAIN CHASSIS ADJUSTMENT

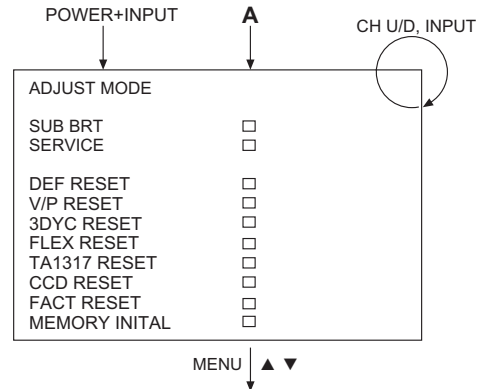
1. ADJUSTMENT PROCEDURE-START UP

1-1 How to Get to Adjustment Mode

Chassis adjustment can be done by using the front control panel buttons with CTV set turned off. Press "POWER" and "INPUT" keys at the same time, and hold for more than 3 seconds. The CTV set turns on in adjustment mode with OSD as follows.

Note:

Before making a data value change to any adjustment code, consider that previous data will be lost. We advise to make a paper note of these values before doing any adjustments.



"To Escape from Adjustment Mode"

Press "INPUT" to exit service adjustment mode.

Table 1
Adjustment Codes

ADJUSTMENT MODE OSD	ADJUSTMENT ITEM		ADJUSTMENT RANGE(HEX)	INITIAL DATA(HEX)	ADJUST * VALUE(HEX)
SUB BRI	Sub Brightness		3C~C3	80	88
TA1300					
H POSI	Horizontal Position (Memory Switch 0)-----for 36" only	31.5kHz	00~7F	34	2F
		33.75kHz		33	2E
	Horizontal Position (Memory Switch 1,2,3)-----for 32" only	31.5kHz		33	37
		33.75kHz		34	34
FLEX CONT					
47 VD POS	Vertical Position	31.5kHz	00~7F	3F	3E
		33.75kHz		3F	42
TA1270-M					
SUB CNT	Main NTSC Contrast -2.8dB ~ +2.8dB		00~1F	0F	0F
TA1270-S					
SUB CNT	Sub NTSC Contrast -2.8dB ~ +2.8dB		00~1F	0F	10
FLEX CONT (These next two adjustment codes, need to be adjusted for the micon version MF0629, for MF0912 version, onwards, there is no need to adjust.)					
51 HBLK-R	Horizontal Blanking Right Position Offset 31.5kHz/33.75kHz	NTSC	00~FF	77	77
		480i		77	77
		480p		77	77
		720p		77	77
		1080i		77	77
52 HBLK-L	Horizontal Blanking Left Position Offset 31.5kHz/33.75kHz	NTSC	00~FF	87	87
		480i		87	87
		480p		87	87
		720p		87	87
		1080i		87	87

Table 1 Cont.

ADJUSTMENT MODE OSD	ADJUSTMENT ITEM		ADJUSTMENT RANGE(HEX)	INITIAL DATA(HEX)	ADJUST * VALUE(HEX)
TA1298					
G DRV(C)	Green Drive (COOL) -5dB ~ 0dB ~ +3dB		00~7F	2F	2A
B DRV(C)	Blue Drive (COOL) -5dB ~ 0dB ~ +3dB		00~7F	38	36
G DRV(W)	Green Drive (WARM) -5dB ~ 0dB ~ +3dB		00~7F	2D	25
B DRV(W)	Blue Drive (WARM) -5dB ~ 0dB ~ +3dB		00~7F	26	20
(SERVICE)					
R CUT OFF	R CUT OFF LEVEL		00~FF	7F	7F
G CUT OFF	G CUT OFF LEVEL		00~FF	7F	BE
B CUT OFF	B CUT OFF LEVEL		00~FF	7F	C7
TA1317AN					
V-CORR	VS CORRECTION (D021+Memory SW 0,1,2,3) ----for 36" and 32" common	31.5kHz	0~F	00	00
		33.75kHz	0~F	00	00
VS-COR	V S CORRECTION (D021+Memory SW 0,1,2,3) ----for 36" and 32" common	31.5kHz	00~3F	1C	1C
		33.75kHz	00~3F	1C	1C
PICHEI	PICTURE HEIGHT (D021+Memory switch 0)---for 36" only	31.5kHz	00~7F	2E	2F
		33.75kHz	00~7F	28	32
	PICTURE HEIGHT (D021+Memory switch 1)---for 32" only	31.5kHz	00~7F	2F	2F
		33.75kHz	00~7F	2B	2F
PICWID	PICTURE WIDTH(01H D7-D2)+(0CH D0) (D021+Memory switch 0)---for 36" only	31.5kHz	00~7F	1C	16
		33.75kHz	00~7F	5E	5D
	PICTURE WIDTH(01H D7-D2)+(0CH D0) (D021+Memory switch 1)---for 32" only	31.5kHz	00~7F	3C	25
		33.75kHz	00~7F	78	78

ADJUSTMENT MODE OSD	ADJUSTMENT ITEM		ADJUSTMENT RANGE(HEX)	INITIAL DATA(HEX)	ADJUST * VALUE(HEX)	
TA1317AN						
VSHIFT	V SHIFT	-----for 36" only -----for 32" only	0~3	02	01 02	
VLINEA	V LINEARITY	(D021+Memory switch 0)-----for 36" only	31.5kHz	00~1F	0C	0A
	33.75kHz		00~1F	0C	0B	
	V LINEARITY	(D021+Memory switch 1,2,3)--for 32" only	31.5kHz	00~1F	0C	0C
	33.75kHz		00~1F	0C	0C	
VCENT (ROTATION)	V CENTERING	-----Common data for all mode	00~7F	44	44	
EWPARA	EW PARABOLA (D021+Memory switch 0)---for 36" only	31.5kHz	0~3F	13	15	
		33.75kHz	0~3F	17	17	
	EW PARABOLA (D021+Memory switch 1)---for 32" only	31.5kHz	0~3F	27	27	
		33.75kHz	0~3F	2A	2B	
EWTRAP	EW TRAPEZOID (D021+Memory switch 0)-----for 36" only	31.5kHz	0~7F	40	40	
		33.75kHz	0~7F	50	50	
	EW TRAPEZOID (D021+Memory switch 1,2,3)--for 32" only	31.5kHz	0~7F	3D	44	
		33.75kHz	0~7F	3F	40	
EWTOP	EW TOP CORNER (D021+Memory switch 0,1,2,3) ---for 36" and 32" common	31.5kHz	0~1F	10	10	
		33.75kHz	0~1F	0C	0C	
EWBOTT	EW BOTTOM CORNER (D021+Memory switch 0,1,2,3) ---for 36" and 32" common	31.5kHz	0~1F	10	0F	
		33.75kHz	0~1F	0C	04	

Table 1 Cont.

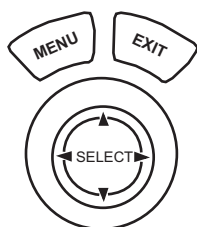
ADJUSTMENT MODE OSD	ADJUSTMENT ITEM		ADJUSTMENT RANGE(HEX)	INITIAL DATA(HEX)	ADJUST * VALUE(HEX)
TA1317AN					
EW S	EW S CORRECTION (D021+Memory switch 0,1,2,3) ---for 36" and 32" common	31.5kHz	0~1F	10	10
		33.75kHz	0~1F	07	09
EWCORN	EW CORNER (D021+Memory switch 0,1,2,3) ---for 36" and 32" common	31.5kHz	0~1F	10	10
		33.75kHz	0~1F	18	18
C-PARA	CENTER PARABOLA (D021+Memory switch 0,1,2,3) ---for 36" and 32" common	31.5kHz	0~F	08	08
		33.75kHz	0~F	08	08
C-SAW	CENTER SAW (D021+Memory switch 0)---for 36 only	31.5kHz	0~F	03	03
		33.75kHz	0~F	03	03
	CENTER SAW (D021+Memory switch 1,2,3)---for 32" only	31.5kHz	0~F	0F	07
		33.75kHz	0~F	0F	03

* This data is an approximate service code data. Fine adjustment must be done using the specified test procedure and adjustment tools.

1-2 Changing Data and Adjustment Code

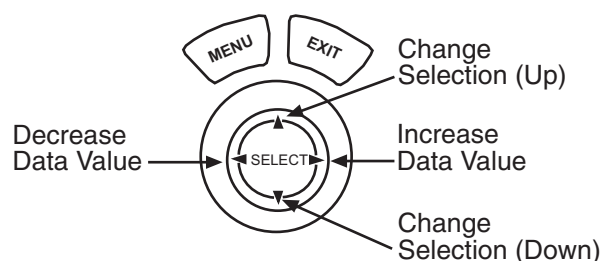
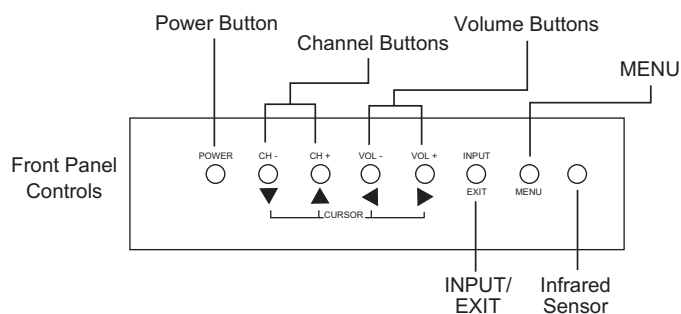
When the CTV set is in adjustment mode, the cursor $\blacktriangle$, $\blacktriangledown$, $\blacktriangleleft$, $\blacktriangleright$ and MENU keys of the remote control or front panel may be used for the adjustment keys.

A. Use any Hitachi remote control when making an adjustment.



$\blacktriangle$, $\blacktriangledown$ keys are used for changing adjustment code.
 $\blacktriangleleft$, $\blacktriangleright$ keys are used for changing data.
 MENU key is used for changing "Cut Off Mode"/"Normal mode" (Refer to cut off adjustment), and to advance through the adjustment mode menu's.

B. To make a selection, use the CURSOR keys on front control panel or the Remote Control.



C. After finishing the necessary adjustment press the R/C EXIT key or EXIT key on the front panel. Adjustment mode is released and TV set returns to normal condition.

II. MEMORY INITIAL

1. MEMORY INITIALIZE OPERATION

Preparation

NOTE: The execution of this function returns the adjustment codes to the initial values, therefore, adjustment data will be lost. We advise taking a note of all values or at least the data from adjustment codes in table 1 before following the next procedure.

Checking Procedure

- (1) Enter Adjustment Mode by the method described in sub-items 1-1 and 1-2 from item I. "Main Chassis adjustment. Adjustment procedure start up."
- (2) From the first menu in Adjustment Mode, select MEMORY INITIAL adjust code.
- (3) Activate MEMORY INITIAL by pressing "Right" cursor key once.
- (4) Check that the receiving channel goes to CH03. Unit is set to factory settings and adjustment data changed to its initial values.

III. OPERATION CHECK

1. AFC OPERATION CHECK

Preparation

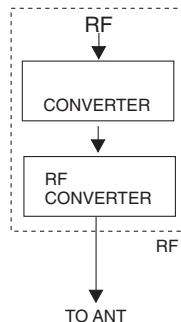
- (1) Connect the circuit as shown below to the ANT terminal.

Checking Procedure

- (1) Receive a standard carrier (not offset) with the channel up/down or direct selection buttons.
- (2) Receive an offset signal of +1.5MHZ. Check that it is pulled into the standard tuning point. (Perform the channel selection operation.)
- (3) Receive an offset signal of -1.5MHZ. Check that it is pulled into the standard tuning point. (Perform the channel selection operation again.)

Note: Modulation signal should be used at the circle pattern and the color bar signal.

Checking circuit
(All channel converter can be used)



2. USER CONTROLS CIRCUIT OPERATION CHECK

2-1 Channel Up/Down Selection

Preparation

- (1) Set the TV set so that VHF (11, 13CH), UHF (14, 46, 63CH) and CATV (A, E, P, WCH) can be received.
- (2) Set Signal Source mode to Antenna on the set up menu. (Press the Menu key, and select Setup, then select Signal Source mode, See next page.)

Checking Procedure

- (1) Check that VHF are received correctly by pressing CH Up (▲) or Down (▼) button.

Preparation

- (3) Set Signal Source mode to CATV 1.

Checking Procedure

- (2) Perform the same operation as in Item (1), and check that VHF and CATV are received correctly.

Preparation

- (4) Set Signal Source mode to CATV 2.

Checking Procedure

- (3) Perform the same operation as in Item (1), and check that VHF and CATV are received correctly.

Note: This check should be done to both ANT A and B.

2-2 CH Up/Down

Preparation

- (1) Set the TV set so that VHF (11, 13CH), UHF (14, 46, 63CH) and CATV (A, E, P, W CH) can be received.

Checking Procedure

- (1) Set Signal Source mode to Antenna on the SET UP menu.
- (2) Select Auto CH set mode and press (►) key on the set up menu. After Auto CH set, operation is completed. By pressing the channel Up (▲) or Down (▼) button, check that the channels having broadcast signal (s) can be received.
- (3) Set Signal Source mode to CATV 1.
- (4) Perform the same operation as in Item (2) and check that CATV can be received correctly.

SET UP MENU

Adjustment Preparation

- (2) Set the CHANNEL LIST mode (in SET UP menu).

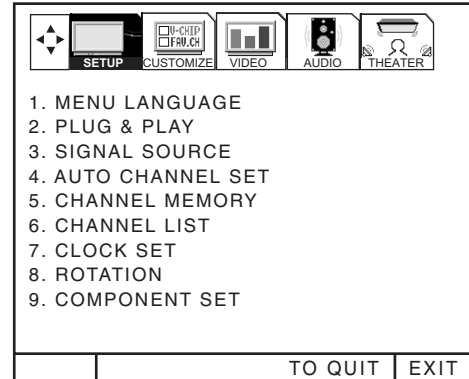
Note: CATV channels, actual input channels numbers and indicated channel numbers shown in Table 3 below.

Adjustment Procedure

- (5) Check that the item of SCAN of channels which can be selected as above is ON.

Note 1: CATV channels, actual input channel numbers and indicated channel numbers.

A14
E18
P29
W36



Note 2: This check should be done to both ANT A and B.

TABLE 3

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
MID BAND								SUPER BAND														
W+1	W+2	W+3	W+4	W+5	W+6	W+7	W+8	W+9	W+10	W+11	W+12	W+13	W+14	W+15	W+16	W+17	W+18	W+19	W+20	W+21	W+22	W+23
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
HYPER BAND																						
W+24	W+25	W+26	W+27	W+28	W+29	W+30	W+31	W+32	W+33	W+34	W+35	W+36	W+37	W+38	W+39	W+40	W+41	W+42	W+43	W+44	W+45	W+46
60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
HYPER BAND					ULTRA BAND																	
W+47	W+48	W+49	W+50	W+51	W+52	W+53	W+54	W+55	W+56	W+57	W+58	A-5	A-4	A-3	A-2	A-1	W+59	W+60	W+61	W+62	W+63	W+64
83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
ULTRA BAND												MID BAND					ULTRA BAND					
W+65	W+66	W+67	W+68	W+69	W+70	W+71	W+72	W+73	W+74	W+75	W+76	W+77	W+78	W+79	W+80	W+81	W+83	W+83	W+84			
106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125			
ULTRA BAND																						

2-3 VOLUME UP/DOWN

Checking Procedure

- (1) Check that the volume level and volume indication is going up or down simultaneously by pressing volume Up (▲) or Down (▼) button.



2-4 POWER ON/OFF

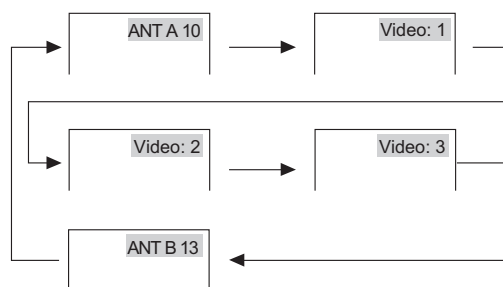
Checking Procedure

- (1) Check that the power alternates between On and Off with each press of the Power button.

2-5 INPUT

Checking Procedure

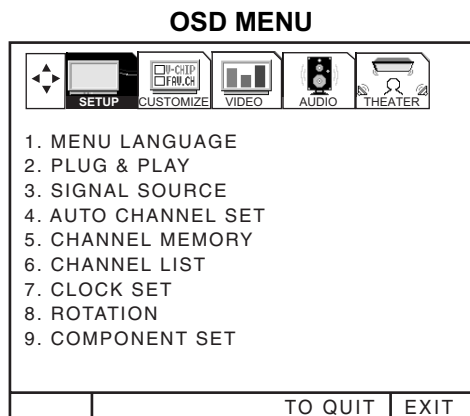
- (1) Check that the O.S.D. changes with every press of the Input button, as below.



2-6 MENU

- (1) Check that the Menu O.S.D. displays by pressing Menu button.

Note: Menu O.S.D. is displayed as below.



- (2) After Menu O.S.D. is displayed, check that front panel buttons function change as follows:

Menu	→	MENU
CH Up	→	▲ key
CH Down	→	▼ key
Volume Up	→	► key
Volume Down	→	◄ key

2-7 MENU MODE (using Remo-con)

2-7-1 Set Up Mode

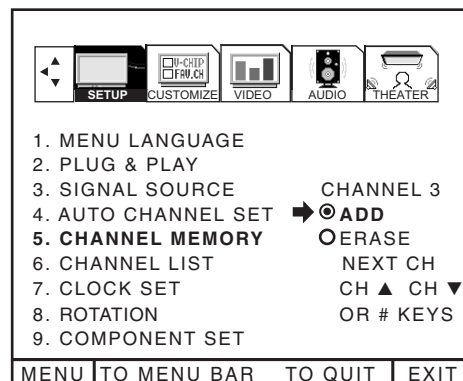
Preparation

- (1) Set to CHANNEL MEMORY mode (SET UP Menu).

Checking Procedure

- (1) Press ► once and ADD or ERASE the displayed channel by pressing the ▲ or ▼ buttons.
- (2) Press EXIT key to leave OSD MENU and by using Ch up/Down keys on the front panel or remote control, browse through the ADDED channels. The ERASED channels will not be displayed unless the # keys are used.

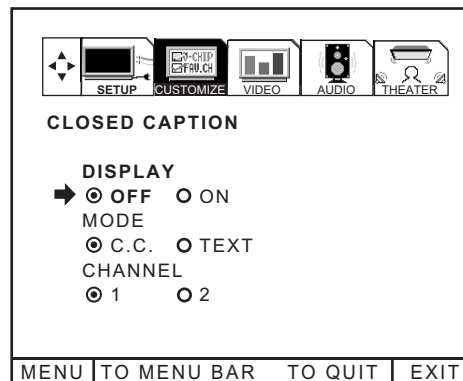
SET UP MENU



Preparation

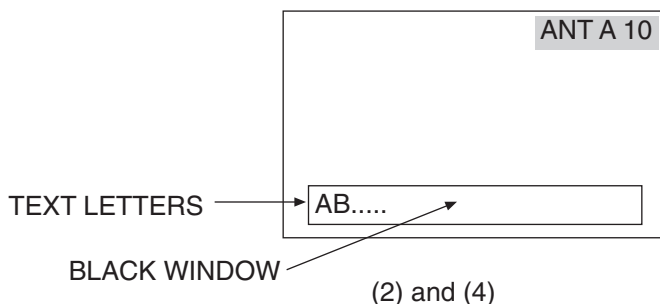
- (1) a. Set the mode to CLOSED CAPTION (CUSTOM Menu)
b. Receive signal having Closed Caption signal.

CUSTOM MENU

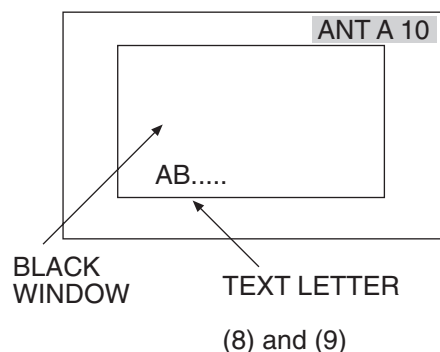


Checking Procedure

- (1) Set DISPLAY setting to ON with CURSOR ►. At this time, set the other settings as follows.
 1. DISPLAY : ON
 2. MODE : C.C.
 3. CHANNEL : 1
- (2) Check that the Caption corresponding to the above setting is displayed on the screen.
- (3) Set CHANNEL to 2.
- (4) Check that the Caption of Channel 2 is displayed on the screen.
- (5) Set CHANNEL to 1.
- (6) Check that the Caption of Channel 1 (Field 2) is displayed on the screen.
- (7) Set the mode to TEXT.



- (8) Check that a black window appears and text letters are displayed at the center of the screen.
- (9) Repeat adjustment procedure from (3) to (6), and check that text letters are displayed corresponding to each mode.
- (10) Set the mode to CAPTION.
- (11) The black window should disappear returning to the state of (2).
- (12) Set ON/OFF to OFF.
- (13) Check that the Caption letters disappear.



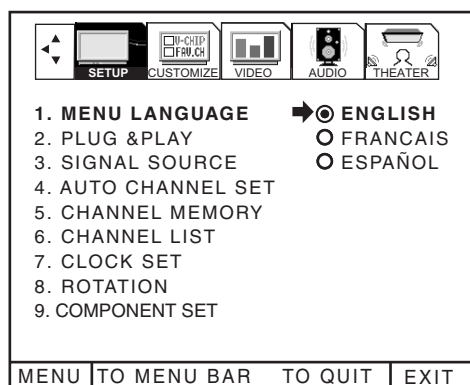
Preparation

- (2) Set to MENU LANGUAGE mode (SET UP Menu)

Checking Procedure

- (14) Check the language selection (ENGLISH, FRENCH, SPANISH) by pressing the ▼(▲) button.

SET UP MENU



2-7-2 Program Mode

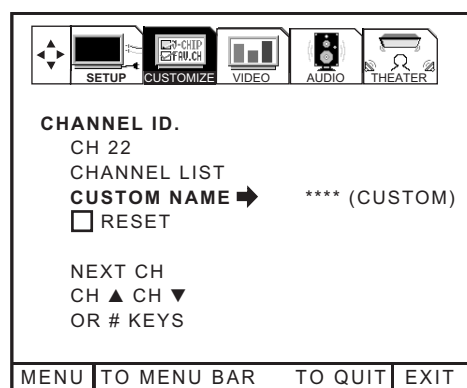
Preparation

- (1) Set to CHANNEL ID mode (CUSTOM Menu).
- (2) Select CUSTOM CH by pressing the ▲,▼ button.

Checking Procedure

- (1) Select the "A" by pressing the ▲,▼ button, and select the input position by pressing the ►,◄ button.
- (2) After pressing the "Recall" button, check that the indication of "AAAA" is the same as CH No. indication.
- (3) Select the Channel ID mode again. Select "RESET" by pressing the ▲,▼ button and press the ► button.
- (4) Check that the delete of "AAAA" when indicate the CH No., after press the "Recall" button.

CUSTOM MENU



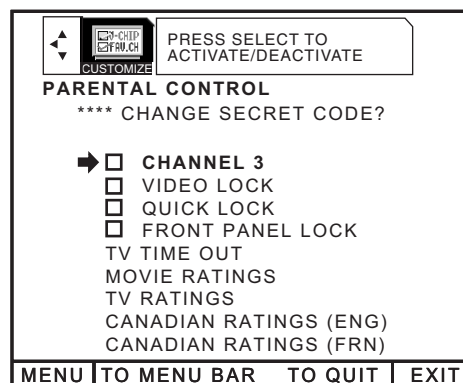
Preparation

- (3) Set to PARENTAL CONTROL mode, (CUSTOM MENU).

Checking Procedure

- (1) Select PARENTAL CONTROL by ► button.
- (2) Press "7" button 4 times. ("7777" is input.)
- (3) Select CHANNEL mode, and set to on by ► button, check that the picture becomes pitch-dark, and sound does not come out.
- (4) Set to PARENTAL CONTROL mode again.
- (5) Select CHANNEL mode and set to off by ► button.
- (6) Check that the picture and sound return to the previous condition.

CUSTOM MENU



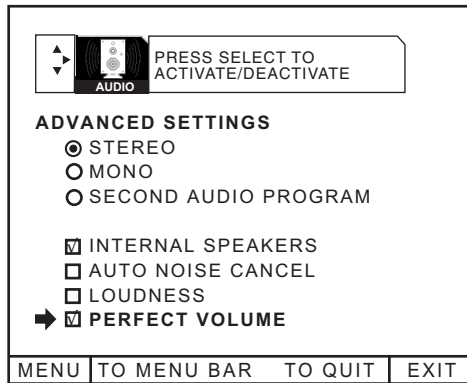
Preparation

- (4) Set PERFECT VOLUME mode (AUDIO Menu).

Checking Procedure

- (1) Press cursor ► button to set PERFECT VOLUME to ON.
- (2) Check that the audio level is the same for all channels.

AUDIO MENU



Receive Signal	TV-PG	MPAA PG	TV-Y7-FV
Picture/Audio Condition	BLOCK	UNBLOCK	UNBLOCK

- (5) Select MOVIE RATINGS MPAA (PG-13) and TV RATINGS (TV-Y7/ALL BLOCK)
- (6) Check that Picture & audio should be blocked as follows
"RATING BLOCKED" is displayed when picture is blocked.

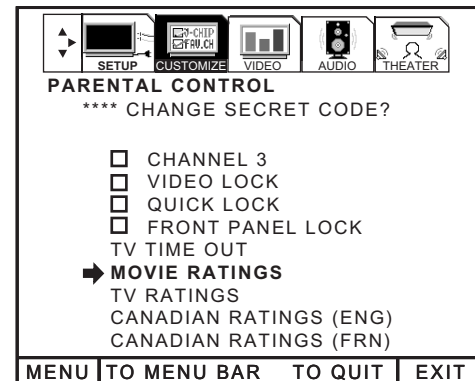
Receive Signal	TV-PG	MPAA PG	TV-Y7-FV
Picture/Audio Condition	BLOCK	UNBLOCK	BLOCK

- (7) Same check as (1) to (6) should apply for PIP sub picture. Main picture should receive a channel without V-chip signal. Sub picture should receive a channel with V-chip signal.

NOTE: User setting rating & receipt signal rating are displayed on top area of the screen when RECALL button is pressed.

1st line : User setting rating.

2nd line : Receipt signal rating.



2-7-3 PARENTAL CONTROL (V-Chip) operation check

Preparation

- (1) Receive a channel with V-Chip signal.
- (2) Push MENU and select CUSTOM menu by using ◀ or ▶ button.
- (3) Select PARENTAL CONTROL by using ▲ or ▼ button.
- (4) Press ► button to set PARENTAL CONTROL mode.
- (5) Enter "7777" for SECRET CODE.
- (6) Select MOVIE RATINGS and TV RATING by using ▲ or ▼ button.
- (7) Press ► button to set MOVIE RATINGS and TV RATINGS.

Checking Procedure

- (1) Select MOVIE RATINGS MPAA (PG) and TV RATINGS (TV-14/ALL BLOCK)
- (2) Check that Picture & audio should be blocked as follows
"RATING BLOCKED" is displayed when picture is blocked.

Receive Signal	TV-PG	MPAA PG	TV-Y7-FV
Picture/Audio Condition	UNBLOCK	BLOCK	UNBLOCK

- (3) Select MOVIE RATINGS MPAA (PG-13) and TV RATINGS (TV-14/ALL BLOCK)
- (4) Check that Picture & audio should be blocked as follows
"RATING BLOCKED" is displayed when picture is blocked.

2-7-4 SET CLOCK

Procedure

- (1) Select set up using ◀, ▶ buttons.
- (2) Select clock set using ▲, ▼ buttons.
- (3) Then press ► button to select clock set.
- (4) Select MANUAL using ► buttons.
- (5) Then press ▲, ▼ button to select MANUAL.
- (6) The clock set should be set using the ▲, ▼ buttons. The clock is started when the ◀ button is pressed, to go back to clock set mode.
- (7) Select I2C MENU mode by following Sub-items 1-1 and 1-2 instructions from page 22..
- (8) Select AFC/CLOCK TEST by using SELECT key.
- (9) Check that clock indication is displayed using the RECALL button. Clock should be displaying each second as one minute. (60 times mode).

NOTE:

The selection AFC/CLOCK TEST mode intends to check the operation of the clock, with check counting operating as 60 times mode.

2-7-5 Picture Mode

Preparation

- (1) Receive color bar signal.
- (2) Press MENU key, and select VIDEO menu
- (3) Set to CONTRAST mode.

Checking Procedure

- (1) Check that Contrast is changed by pressing control ◀,▶ buttons.

Preparation

- (4) Set to BRIGHTNESS mode.

Checking Procedure

- (2) Check that Brightness is changed by pressing control ◀,▶ buttons.

Preparation

- (5) Set to COLOR mode.

Checking Procedure

- (3) Check that Color is changed by pressing control ◀,▶ buttons.

Preparation

- (6) Set to TINT mode.

Checking Procedure

- (4) Check that Tint is changed by pressing control ◀,▶ buttons.

Preparation

- (7) Set to SHARPNESS mode.

Checking Procedure

- (5) Check that Sharpness is changed by pressing control ◀,▶ buttons.

Preparation

- (8) Set to RESET mode.

Checking Procedure

- (6) Check that all picture settings return to delivery settings by pressing ▶ button.

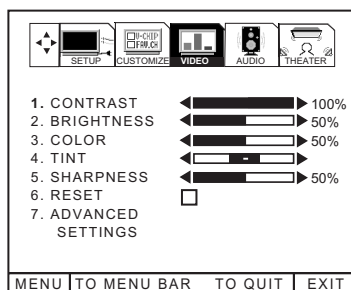
Preparation

- (9) Set to COLOR TEMPERATURE mode, (VIDEO, ADVANCED SETTINGS).

Checking Procedure

- (7) Check that WHITE CONTROL is changed by pressing ▶ button.

VIDEO MENU



2-7-6 Sound Mode

Preparation

- (1) Press MENU key, and select AUDIO menu.
- (2) Set to BASS mode.

Checking Procedure

- (1) Check that BASS is changed by pressing control ◀,▶ buttons.

Preparation

- (3) Set to TREBLE mode.

Checking Procedure

- (2) Check that TREBLE is changed by pressing control ◀,▶ buttons.

Preparation

- (4) Set to BALANCE mode.

Checking Procedure

- (3) Check that BALANCE is changed by pressing control ◀,▶ buttons.

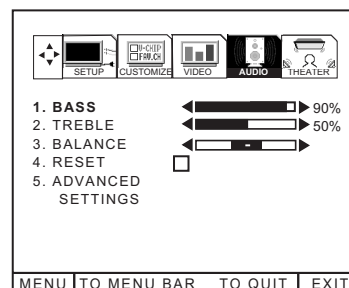
Preparation

- (5) Set to RESET mode.

Checking Procedure

- (4) Check that all sound setting modes return to delivery settings by pressing ▶ button.

AUDIO MENU



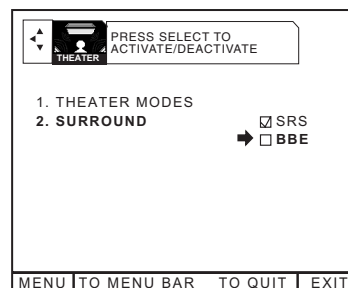
Preparation

- (6) a. Input stereo sound signal to VIDEO:1 terminals, and set "VIDEO:1" by Input button.
b. Set to SURROUND menu (THEATER menu).

Checking Procedure

- (5) Check that sound becomes louder when set to on mode by ▲,▼ buttons.

THEATER MENU



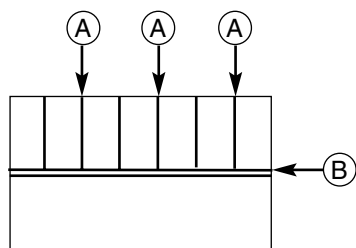
2-8 Comb filter operation check

Preparation

- (1) Receive the color bar signal at the regular tuning point.
- (2) Set the CONTRAST control to MAX and the other VIDEO controls to center.

Checking procedure

- (1) Check that between the color bars there are no line dots every second color bar as shown in the drawing.



Check (A) and (B) line dots.

LINE	DOT
(A)	NONE
(B)	NONE

2-9-3 SRS SURROUND OPERATION CHECK

Preparation

- (1) Set the Master Volume to 40 step.
- (2) Set the BALANCE to the center.
- (3) Set the BASS and TREBLE to the center.
- (4) Set LOUDNESS to OFF.
- (5) Set PERFECT VOLUME to OFF.
- (6) Set BBE to OFF.
- (7) Input the audio signal of 400Hz with level of 1Vpp to the VIDEO:1 R audio input and no signal to the L audio input.

Checking Procedure

Check the following waveform at the HiFi out.

Output	SRS	
	ON	OFF
HiFi L out	4.2±0.5Vpp 	No signal
HiFi R out	5.0±0.5Vpp 	1.8±0.5Vpp

2-9 AUDIO OPERATION CHECK

2-9-1 TONE CONTROL OPERATION CHECK

Preparation

- (1) Input an audio signal of 250Hz and 3KHz in order with level of 150mVrms to the L/mono audio input.
- (2) Set the Volume to around the center.
- (3) Set SRS SURROUND to OFF.
- (4) Set LOUDNESS to OFF.
- (5) Set INTERNAL SPEAKER to ON.

Checking Procedure

- (1) Select BASS mode and check that the audio output level of the speakers changes to emphasized or suppressed when adjusted to max. or min. of the adjustment mode.
- (2) Select TREBLE mode and check that the audio output level of the speakers changes by emphasized or suppressed when adjust to max. or min. of the adjustment mode.
- (3) Select BALANCE mode and check that the audio output changes right or left when adjusted to right or left of the adjustment mode.

2-9-2 PERFECT VOL. OPERATION CHECK

Preparation

- (1) Set PERFECT VOL. mode to on.
- (2) Set the Volume to around the center.
- (3) Set to SURROUND OFF.
- (4) Set INTERNAL SPEAKER to ON.

Checking Procedure

- (1) Input 100mVrms, 200mVrms, 300mVrms and 400mVrms of 1KHz audio signal to VIDEO:1 L/Mono terminal.
- (2) Check that same level sound is output from SP when 200mVrms, 300mVrms and 400mVrms of 1KHz sound signal is input.

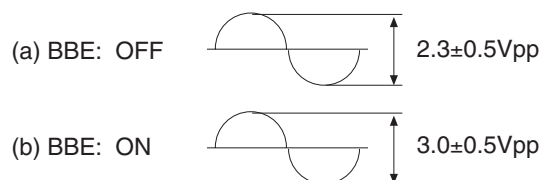
2-9-4 BBE OPERATION CHECK

Preparation

- (1) Set the Master Volume to 40 step.
- (2) Set the BALANCE to the center.
- (3) Set the BASS and TREBLE to the center.
- (4) Set LOUDNESS to OFF.
- (5) Set PERFECT VOLUME to OFF.
- (6) Set SRS to OFF.
- (7) Input the audio signal of 100Hz with level of 1Vpp to the VIDEO:1 L audio input and no signal to the R audio input.

Checking Procedure

Check the following waveform at the HiFi out.



IV. DEFLECTION CIRCUIT PICTURE ADJUSTMENT OPERATION CHECK

1. HIGH VOLTAGE LIMITER CIRCUIT OPERATION CHECK AND OVER VOLTAGE PROTECTION CIRCUIT OPERATION CHECK.

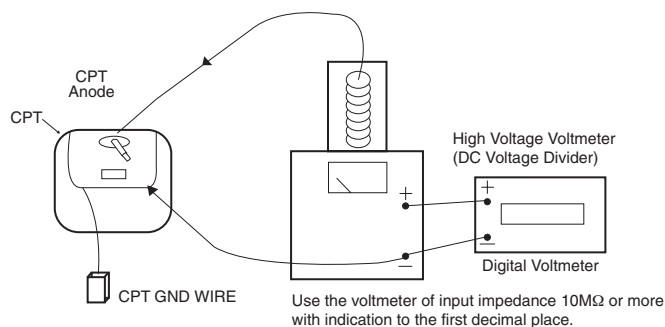
Preparation

- (1) Connect a high voltage voltmeter between CPT anode terminal (Anode cap side) and the ground as below.
- (2) Set AC input voltage to $120 \pm 3V$.
- (3) Receive circle pattern and set "BRIGHTNESS" and "CONTRAST" to max.
Adjust Screen VR so that beam current is $I_B \pm 0.1mA$. (The voltage of ABL terminal-C747 both ends should be 12V or less.)

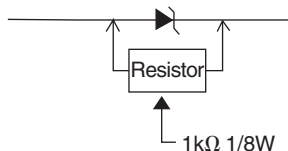
Checking Procedure

- (1) Check that the normal high voltage and +B voltage as below.

CHASSIS	EHT $\pm 1KV$	$I_B \pm 0.1mA$	+B
36UDX10S	$30.0 \pm 1KV$	$1.7 \pm 0.1mA$	$140 \pm 0.3V$
32UDX10S	$29.0 \pm 1KV$	$1.5 \pm 0.1mA$	$140 \pm 0.3V$



- (2) Connect a $1K\Omega$ 1/8W Resistor to both ends of D703 and check that power is turned off.



- (3) Disconnect the AC plug and remove $1k\Omega$ 1/8W Resistor.

2. FBT PROTECTION CIRCUIT OPERATION CHECK

Preparation

- (1) Turn on the power of the set.

Checking Procedure

- (1) Add $100K\Omega$ (1/16W-1/8W) resistor between QP02 base and GND and check the operation.
- (2) After checking, remove AC PLUG and $100K\Omega$ jig resistor to return the set to the original state.

After about 15 seconds, or discharging from CP22, turn on the power again, and check that the set operates normally.

3. H.V. PROTECTION OPERATION CHECK

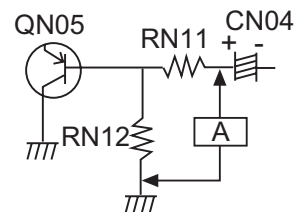
Preparation

- (1) Connect P.W.B. to adjusted TV set.
- (2) Receive Hitachi Circle pattern.

Checking Procedure

- (1) Connect the Jig A shown as follows, and check that the picture disappears.

Jig A : 100Ω (1/8W)



4. DEFLECTION CIRCUIT ADJUSTMENT

4-1 HIGH VOLTAGE ADJUSTMENT

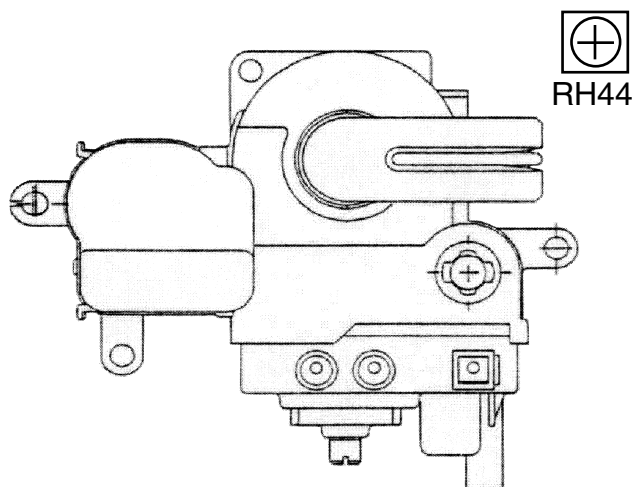
Preparation

- (1) Connect High Voltage meter to FBT High Voltage output, connect GND of High Voltage meter to CRT GND or FBT GND.
- (2) Check that High Voltage adjustment VR (RH44) is set to its mechanical center. This VR is located behind the FBT.
- (3) Receive circle pattern signal.
- (4) VIDEO controls should be reset.

Checking Procedure

- (1) Adjustment High Voltage to following spec, by turning VR (RH44) slowly.
ADJ. SPEC = 30.0KV $\pm$ 0.5KV (MF1Z)
29.0KV $\pm$ 0.5KV (MF1Y)
- (2) After adjustment, fix VR (RH44) with Silicone glue. (KE4ORTV).

High Voltage Adjustment VR.



DEFLECTION P.W.B.

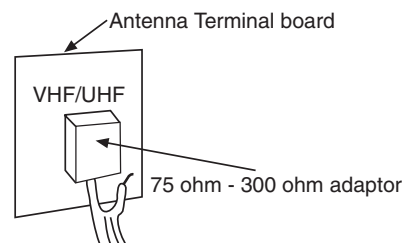
5. WEAK ELECTRIC FIELD CHECK

Preparation

- (1) Connect one side of the 300 ohm feeder to 75 ohm ~ 300 ohm antenna adapter. Connect the antenna adapter to the VHF antenna terminal board as shown below.
- (2) Turn to no signal condition.

Checking Procedure

- (1) Check that the phenomena such as oscillation and abnormal beat, etc. do not occur in all the channel.



V. REMO-CON OPERATION CHECK

1. DIRECT CHANNEL SELECTION

Checking Procedure

- (1) Input 2 or 3 digits of channel number with the buttons of the Remo-con "0-9." Check that the input number and the on-screen display number are the same. (At 100CH selection, press "1" and after 2 seconds, press "0" two times.

1 — → 1 — —
After
2 seconds

2. LST-CH (LAST CHANNEL RECALL)

Checking Procedure

- (1) Check that the set receiver alternates between the channel which is being received and the channel which was previously received with each press of the "LST-CH" button of the Remo-con.

3. MUTE

Checking Procedure

- (1) Check that the sound alternates between SOFT MUTE, MUTE and MUTE OFF by every pressing of "MUTE" button on the Remo-con. At this time, check the MUTE indication:
MUTE off Yellow
SOFT MUTE Magenta
MUTE Magenta
- (2) Check that sound level goes to 1/2 level at SOFT MUTE.
- (3) Check that sound level goes to 0 at MUTE mode.

4. RECALL

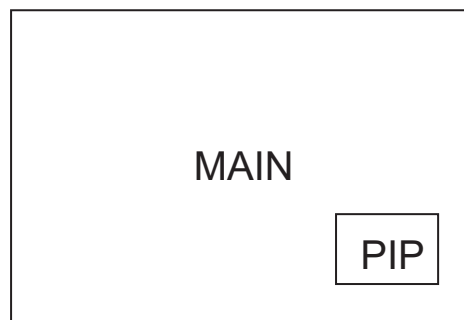
Checking Procedure

- (1) Check that on-screen channel no. indication appears by pressing the "RECALL" button of the Remo-con.

5. PIP

Checking Procedure

- (1) Press PIP button on the remote control. Check that there is a small window that appears on the main picture.



6. MOVE

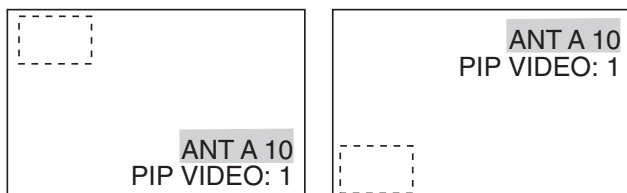
Preparation

- (1) Press "PIP" button to set to PinP mode.

Checking Procedure

- (1) Check that with each press of the "MOVE" button on Remo-con, sub-picture moves counterclockwise.

Note: When sub-picture is in the upper left of the screen, the channel number of main picture comes to the lower right, as shown below.



7. SWAP

Preparation

- (1) Press "PIP" button to set to PinP mode.

Checking Procedure

- (1) Check that with each press of the "SWAP" button, the contents of main picture and sub-picture are exchanged.

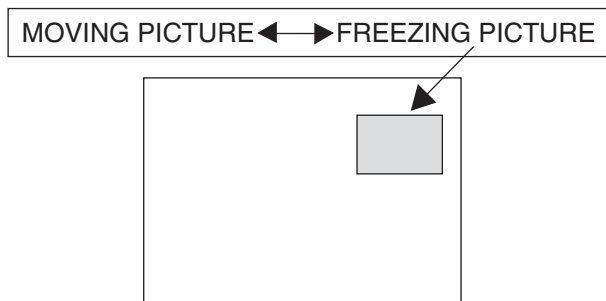
8. FREEZE

Preparation

- (1) Connect signal to ANT A and video. (One or both of the pictures should be moving picture.)
- (2) Press "PIP" button to set PinP mode.
- (3) Sub-picture should be moving picture.

Checking Procedure

- (1) Check that with each press of the "FREEZE" button, sub-picture alternates between moving picture and freezing picture.



- (2) Press "PIP" button to make sub-picture disappear.

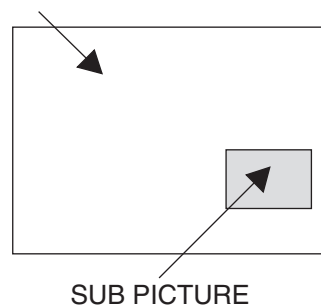
Preparation

- (1) Connect signals to ANT A and Video:1 Input. Both signals should be moving picture.
- (2) Set PinP to off.

Checking Procedure

- (1) Check that freezing picture of main screen appears as a sub-picture by pressing "FREEZE" button on the Remo-con.
- (2) Check it also in the TV and Video modes.
- (3) Check that the frozen sub-picture disappears by pressing "PIP" button.
- (4) Check that the frozen sub-picture turns to normal PinP sub-picture by pressing FREEZE button.

MOVING PICTURE



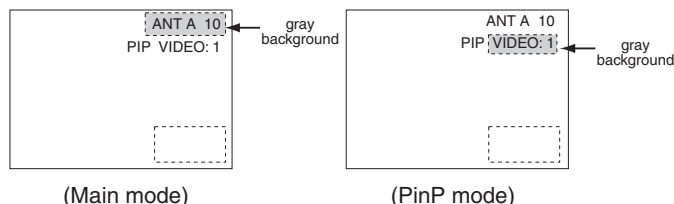
9. PINP CH

Preparation

- (1) Connect the signal to ANT A and VIDEO: 1.
- (2) Press "PIP" button to set PinP mode.

Checking Procedure

- (1) Check that OSD changes as follows by pressing "PIP CH" button.



- (2) Set PIP CH to PinP mode.
- (3) Check that PinP sub-picture changes by channel ▲, ▼, and "INPUT" key and receives normal picture.

VI. FACTORY RESETTING

After all of the adjustments of main chassis are finished, perform FACTORY RESET.

- (1) Enter Adjustment Mode by the method described in sub-items 1-1 and 1-2 from item I. "Main chassis adjustment. Adjustment procedure start up."
- (2) From the first menu in Adjustment Mode, select FACT RESET adjustment code.
- (3) Activate FACT RESET by pressing "Right" cursor key once.
- (4) Check that the receiving channel goes to CH03. Unit is set to factory settings.

VII. FINAL ASSEMBLY ADJUSTMENT/COMMON SERVICE ADJUSTMENT

1. PURITY/CONVERGENCE CHECK

The CPT A90LPY30X50 and A80LJF30X50 are ITC type.

Preparation

PURITY CHECK

- (1) The magnetic field in artificial magnetic field should follow the magnetic field according to the destination, see Table 2, and the set should face North.

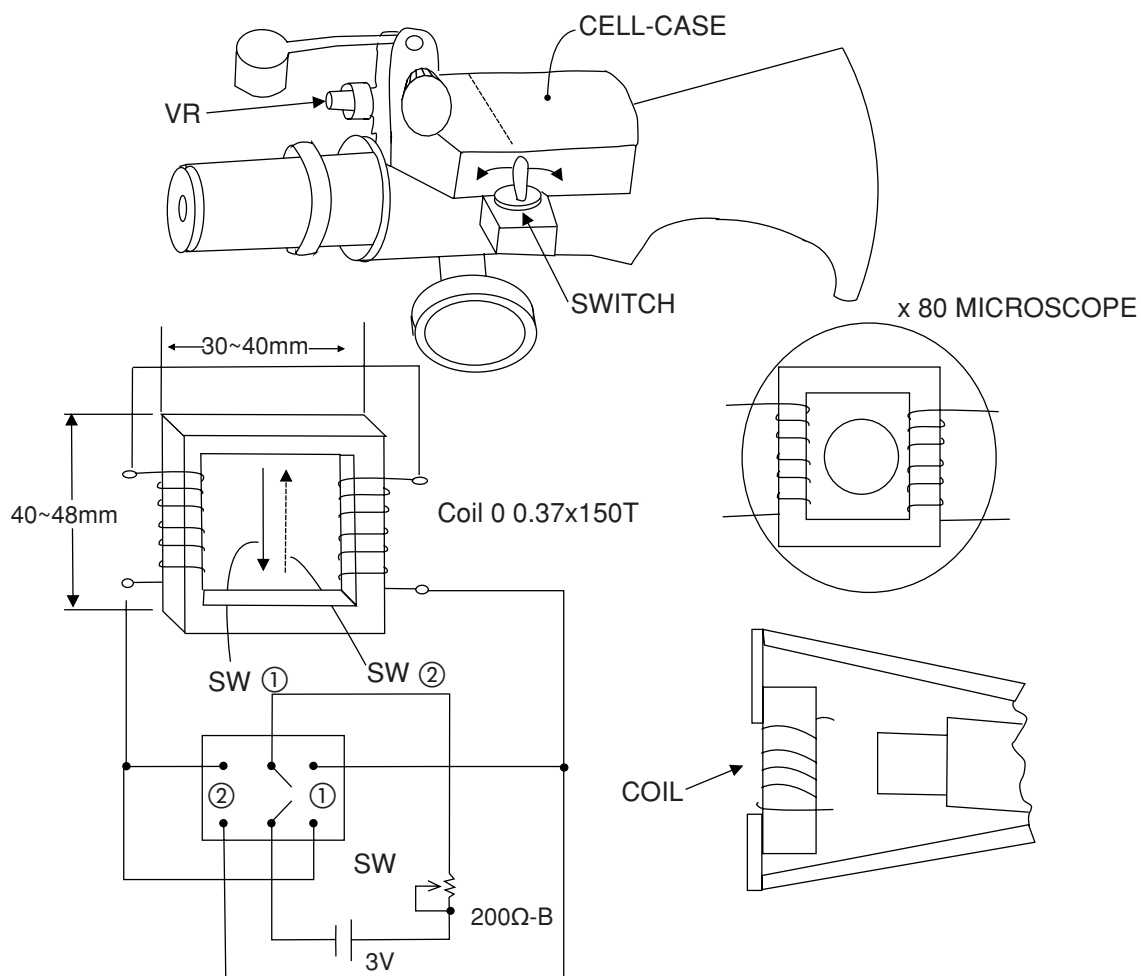
Table 2: Artificial magnetic field setting list classified by destination.

DESTINATION	Vertical Field	Horizontal Field
USA	0.45 G	0.3 G
CANADA	0.54 G	0.15 G
UNIVERSAL	0.35 G	0.3 G

Checking Procedure

- (1) After degaussing in each direction, check these items visually and with a microscope.
 - (a) No problem in white unevenness.
 - (b) Each single color must not hit any other colors.
 - (c) If white or any single color is defective, apply a magnet(s) on CPT for correction. If any magnet is applied, check it after degaussing.

THE MICROSCOPE



Fix coil to CRT side of microscope. Set it upside down and measure it. Check that beam moves to the right and left equally in quantity. Be careful at assembly that core does not tilt because upward (downward) magnetic field by coil moves the beam to the right (left) or type MS-50X microscope of KANSAI DENKI.

Criteria with microscope

There should be no miss landing at positions 2, 4, 8 and 10. Green beam should be at center of the green phosphor at position C. (Refer to the miss landing criteria.)

- (2) Turn over the direction of CPT axis direction magnetic field of the next artificial magnetic field and after degaussing it from outside, check the purity in each color of R, G, B visually Turn the screen to white and check the landing at the screen position shown in fig. 1. The positions of miss landing criteria with a microscope should be 2, 4, 8 and 10 (Figure 1).

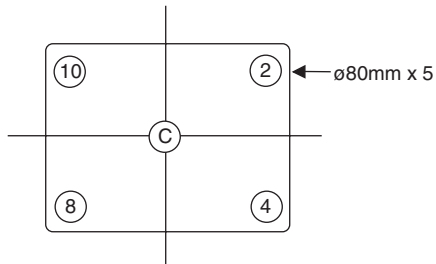


FIGURE 1

Miss landing criteria

The following conditions are defined as miss landing. Each color beams shines on the phosphor of the applied color and there are phosphor parts which are not luminous (shaded parts in the right figure) between the luminous parts and black matrix. Or, each color beam shines on the phosphor of not applied color.

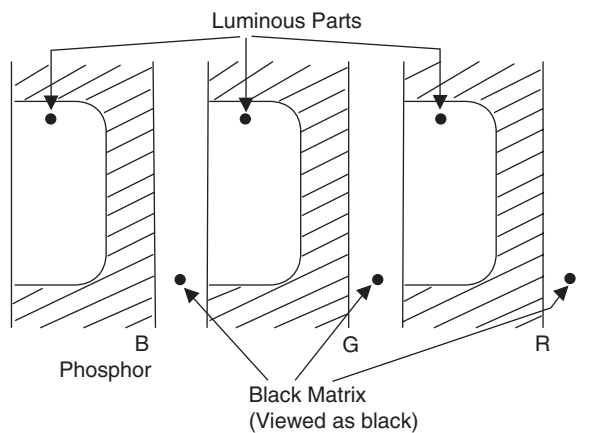


FIGURE 2 Enlarged view of screen with microscope

- (3) To improve the miss landing mentioned above, it's acceptable to stick the permanent magnets to CPT funnel (Figures 3 and 4).

Usage

Apply a silicone rubber KE-40 WRTV to the permanent magnet shown in the Figure, adhere it to the CPT funnel and then fix it with adhesive tape (Permaseal P212).

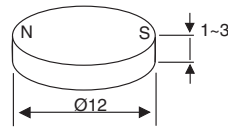


FIGURE 3

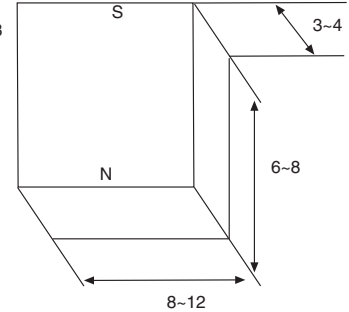
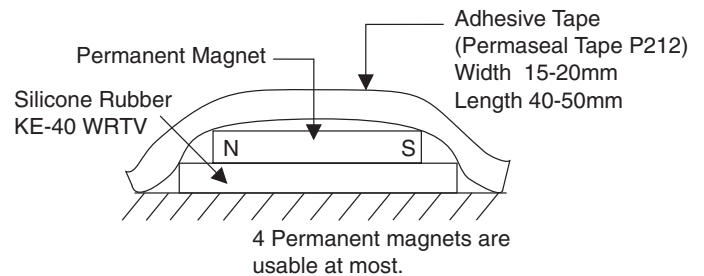


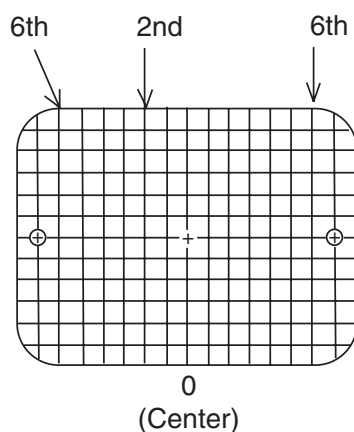
FIGURE 4



- (4) Final purity criteria should satisfy the miss landing criteria.
- (5) When delivering the sets, set CPT axis direction magnetic field to 0 Gauss and degauss it from outside.

2. FOCUS ADJUSTMENT

NO.	MODEL	CPT	CONDITION	Focus VR setting position
1	36UDX10S	A90LPY30X50 (HED-US)	• Receive the cross-hatch signal • Contrast control: Maximum • Sharpness control: Center • Brightness control: Where the background is set	Turn the Focus VR gradually clockwise from the full counterclockwise position. Then set it to the point where the focus of 7th horizontal line from the screen center becomes best.
2	32UDX10S	A80LJF30X50 (HED-US)	• Receive the cross-hatch signal • Contrast control: Maximum • Sharpness control: Center • Brightness control: Where the background is set	Turn the Focus VR gradually clockwise from the full counterclockwise position. Then set it to the point where the focus of 6th horizontal line from the screen center becomes best.



VIII. DEFLECTION CIRCUIT PICTURE ADJUSTMENT

1. Deflection Circuit Picture Adjustment

1.1 HORIZONTAL POSITION ADJUSTMENT

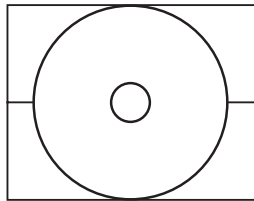
Adjustment Preparation

- (1) The screen face of the set should be turned to the East or West.
- (2) VIDEO control should be set to Factory Preset Condition.

Progressive Mode

Adjustment Procedure

- (1) Receive circle pattern signal.
- (2) Go to I2C ADJ. mode by pressing "POWER" and "INPUT" keys on the front panel at the same time and hold for more than 3 seconds, when the CTV set is turned off.
- (3) Choose H. POSI item using R/C up/down cursor key or channel keys on front panel.



Spec: Balance Left/Right side display position.

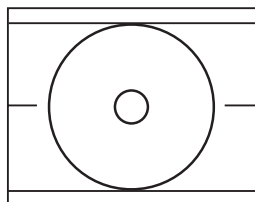
H. size marker = 1.0 ~ 2.0

- (4) Adjust HOR. POSITION as follows, using R/C left/right cursor keys or volume keys on front panel.

HD MODE

Adjustment Procedure

- (1) Input 1080i (fH=33.75KHz) component circle pattern signal to VIDEO 2.
- (2) Select Video:2 signal with front panel "Input/Exit" key or R/C "Input" key.
- (3) Turn off the set and go to I2C ADJ. mode by pressing "POWER" and "INPUT" keys on the front panel at the same time and hold for more than 3 seconds. Choose H. POSI item using R/C up/down cursor key or channel keys on front panel.



Spec: Balance Left/Right side display position

H. size marker = 9.5 ~ 11

- (4) Adjust HOR. POSITION as follows, using R/C left/right cursor keys or volume keys on front panel.

1.2. HORIZONTAL SIZE ADJUSTMENT

PROGRESSIVE MODE

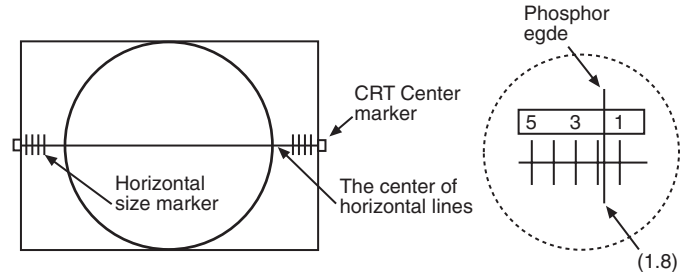
Adjustment Preparation

- (1) Receive circle pattern signal.
CONTRAST: MAX.
BRIGHTNESS: CENTER.

Adjustment Procedure

- (1) Adjust horizontal size with adjustment code PICWID so that CRT center marker is completely visible, with a perfect circumference shape.

- (2) Adjust horizontal size with adjustment code PICWID so that horizontal size marker of circle pattern becomes = 1.8 ± 0.4 .



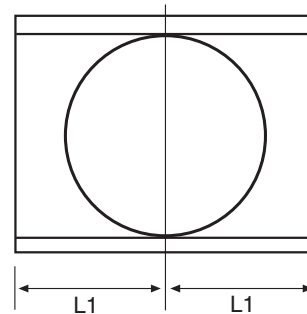
HD MODE

Adjustment Preparation

- (1) Input 1080i (fH=33.75KHz) component circle pattern signal to VIDEO 2.
CONTRAST: MAX.
BRIGHTNESS: CENTER.

Adjustment Procedure

- (1) Adjust horizontal size with adjustment code PICWID so that CRT centermarker is completely visible with perfectly round shape. Adjust horizontal size and position with adjustment code PICWID and H POSI as shown below.



L1: Adjust horizontal size so that there are 10 ± 0.5 squares between horizontal center and phosphor edge. Adjust for a perfectly round shape center circle.

1.3. VERTICAL SIZE ADJUSTMENT

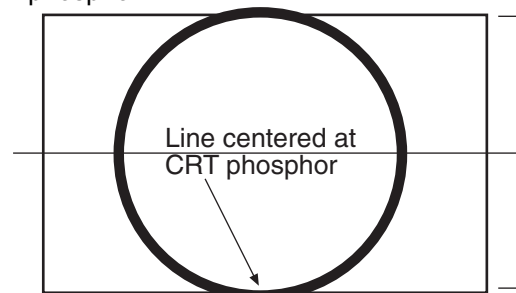
PROGRESSIVE MODE

Adjustment Preparation

- (1) Receive circle pattern signal.
CONTRAST: MAX.
BRIGHTNESS: CENTER.

Adjustment Procedure

- (1) Adjust vertical size with adjustment code PICHEI, so that line circle is centered to CRT phosphor.



HD MODE

Adjustment Preparation

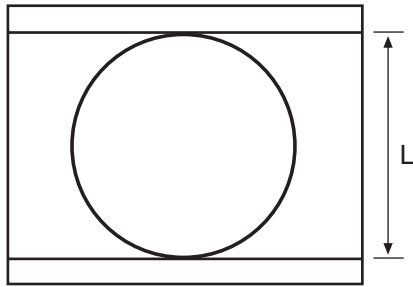
- (1) Input 1080i (fH=33.75KHz) component circle pattern signal to VIDEO 2 Y-P_BP_R input.

Contrast: MAX.

Brightness : CENTER.

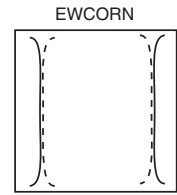
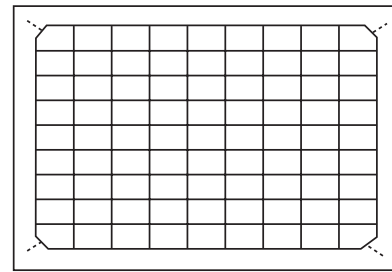
Adjustment Procedure

- (1) Adjust vertical size in HD mode with adjustment code PICHE1 so as to meet specification.



MODEL	L
36UDX10S	425±3
32UDX10S	390±3

L=mm



HD MODE

Adjustment Preparation

- (1) Vertical size and position adjustment should be finished in advance.

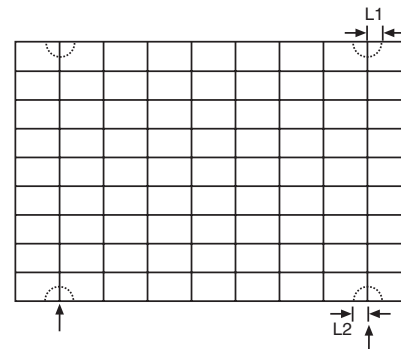
- (2) Receive a 1080i cross-hatch pattern.

Contrast: MAX.

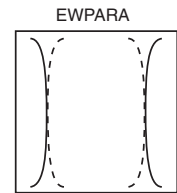
Brightness: CENTER

Adjustment Procedure

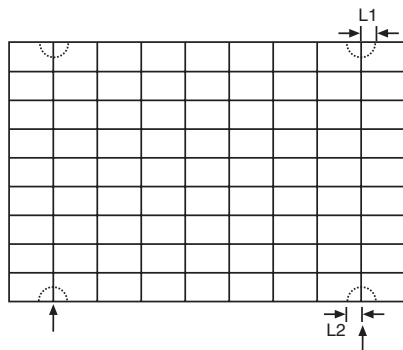
- (1) Adjust vertical pincushion with adjustment code EWPARA so that outer vertical line of cross-hatch, shown by arrow mark, becomes straight. Adjust the following items if vertical line does not become straight with EWPARA shown below.
- (2) Corner distortion adjustment.



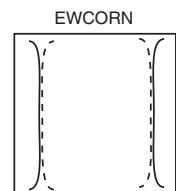
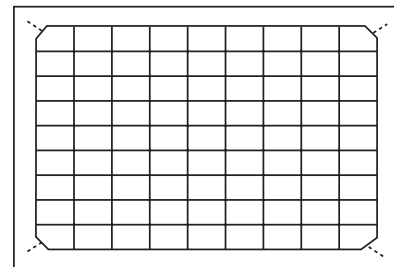
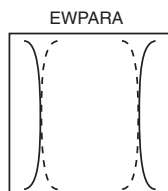
Spec. L, R ≤ 5mm (For 32V)
Spec. L, R ≤ 7mm (For 36V)



Adjust the corners if vertical line does not become straight in the corner use EWCORN as shown below.



Spec. L, R ≤ 5mm (For 32V)
Spec. L, R ≤ 7mm (For 36V)



- (2) Corner distortion adjustment.
Adjust the corners, if vertical line does not become straight in the corner use EWCORN as shown below.

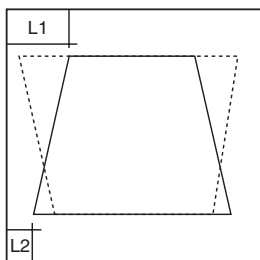
1.5 TRAPEZOID ADJ. HD AND PROGRESSIVE

Adjustment Preparation

- (1) Progressive Mode
Receive Cross-hatch pattern.
Contrast: MAX
Brightness: CENTER
- (2) HD Mode
Receive 1080i cross-hatch pattern signal.
Contrast: MAX
Brightness: CENTER

Adjustment Procedure

- (1) For Trapezoid adjustment please select the EWTRAP on the service code. Set the balance of the picture on the TOP and BOTTOM sides of the picture



ADJUSTMENT CODE: EWTRAP

MODEL	L1-L2
36UDX10S	≤ 10
32UDX10S	≤ 10

IX. WHITE BALANCE ADJUSTMENT

1. WHITE BALANCE ADJUSTMENT

Adjustment Preparation

- (1) 20 minute heat-run is necessary before adjustment.
- (2) Exterior light over surface of CRT should be less than 20 lux.
- (3) Receive white raster of NTSC signal.
- (4) Enter SERVICE option (first page) from Adjustment Mode menu, select any option from R/G/B-CUT OFF with the use of the cursor keys ▲, ▼, ◀, ▶, and stop vertical deflection by pressing menu key.
- (5) A slight horizontal line must appear at the vertical center of the image area.

Adjustment Procedure

- (1) Turn the screen VR, in the FBT, fully counterclockwise to make the horizontal line disappear.
- (2) Turn the screen VR clockwise gradually until the first color appears (red, green or blue); it will be identified as color "A", change color "A" no more.
- (3) Exit vertical deflection stop mode by pressing menu. Using the cursor keys, ▲, ▼, ◀, ▶, select the colors to be adjusted, R-CUT OFF, G-CUT OFF, B-CUT OFF, except color "A".
- (4) Press menu key to stop vertical deflection and adjust selected colors with ◀, ▶, cursor key in order to make the horizontal line become white.
- (5) Turn screen VR gradually counterclockwise until horizontal line almost disappears.
- (6) Release vertical deflection stop with menu key.

- (7) In the user menu, set contrast at max and brightness at 50%.
- (8) Set High Contrast white balance level code parameters: G DRV(C) and B DRV(C) from the Adjust Mode menu (TA1298 page).
- (9) Set contrast level to minimum and check Low Contrast white balance level by directly observing the picture without using a mirror.
- (10) When the low contrast white balance is not obtained, use SERVICE option to adjust R/G/B-CUT OFF (except color "A") and return to item (4).
- (11) Check that the white balance color temperature is approximately:

	Coordinates	Temperature
Cool	x=0.278,y=0.280	T=10,800K
Warm		T=7,600K

2. SUB-BRIGHTNESS ADJUSTMENT

Adjustment Preparation

- (1) Start adjustment 20 minutes or more after the power is turned On.
- (2) Receive the color bar signal.
- (3) The vertical incident illumination on the screen should be 20 lux or less.

Adjustment Procedure

- (1) Go to "Sub BRT" adj. mode following I, "Main Chassis adjustment, ADjustment procedure start up."
- (2) Adjust Sub brightness to spec., shown below, using ◀, ▶ keys.

Remarks: *Directly observe the CRT screen by eye, without using a mirror.

W	75% Y	CY	G	MG	R	BL
A7	A6	A5	A4	A3	A2	A1
B						
C						
D						
Q	I	W100%			BLK	

Should sink to black. (A2)

Should rise slightly from black. (A3)

NOTE: When selecting SUB-BRT mode, the micro controller sets the CONTRAST and COLOR to MIN> automatically, but make sure that the other conditions are center.

	Sink to black	Slightly from black
36UDX10S	A2	A3
32UDX10S	A2	A3

3. SUB PICTURE ADJUSTMENT

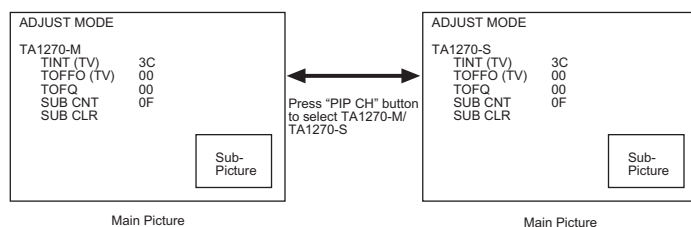
Sub picture signal amplitude adjustment

Adjustment Preparation

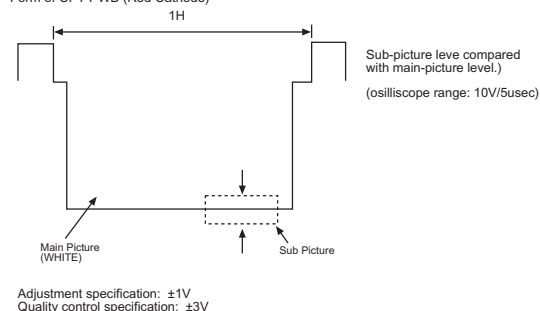
- (1) Sub-brightness adjustment should be finished.
- (2) Start adjustment about 20 minutes after the power switch is turned on.
- (3) Condition should be set as follows:
Contrast: MAX
Brightness: CENTER
- (4) Press PIP button of R/C unit.
- (5) The previous selected PinP will appear on the screen.
- (6) Select SINGLE mode and receive NTSC white signal (amplitude 2.0Vp-p open), main-picture and Sub-picture (Do not use component signal).
- (7) Connected probe on the R-K on the CPT PWB to check sub-picture amplitude.

Adjustment Procedure

- (1) Display PIP SINGLE picture.
- (2) Go into I²C service code and press MENU button until TA1270-M is displayed on screen.
- (3) Press "PIP CH" button of R/C. "TA1270-M" changes to "TA1270-S".
- (4) Observe R-K on the CPT P.W.B. and change the "TA1270-S SUB CNT" I²C data so that the amplitude of the sub-picture is the same level as that of the main picture shown below.



Form of CPT PWB (Red Cathode)



X. MATCHING CHECK WITH OTHER EQUIPMENT

Checking Preparation

- (1) Input video signals to VIDEO: 1-3 input terminals. Signal condition 100% white signal 1 ±0.2Vp-p 75Ω terminations.
- (2) Input audio signals to AUDIO: 1-3 input input terminals. Signal condition 435±20mVrms. VTR or Tuner or equivalent
- (3) Connect the monitor TV to Output terminal.
- (4) Input Y-C separate terminals to S-VIDEO input terminal. Signal condition: Y:1 VPP, C:0.286Vpp 75Ω termination.
- (5) INPUT COMPONENT VIDEO Signal to COMPONENT input terminal. Signal condition: Y: 1VPP Cb/Pb, Cr/Pr: 0.7Vpp 75Ω termination.
- (6) Connect the AUDIO INPUT TERMINALS of the monitor TV to AUDIO TO HI-FI output terminals.

Checking Procedure

- (1) Each time the input selection of the remote control transmitter is pressed, the corresponding input signal should be received.
- (2) Check that the picture and sound are normal when the external signals are received.

Remarks

- (1) The 100% white of TV signal should be almost the same brightness as the 1Vp-p (75Ω termination) external Video input signal.
- (2) For the audio signal 100% modulation (25KHz div) of the TV signal should be almost the same level as the 435Vrms external Audio signal.
- (3) S and Component input have priority.

Checking Procedure

- (3) Check that the reception of the monitor TV connected to Output terminal is also switched when Item (1) is checked.

Remark

- (1) The signals from the Output terminals are the same as those of the picture and sound of the TV set.

Checking Procedure

- (4) When the "AUDIO TO HI-FI" plug connected to Audio R terminal is pulled out with the external Signal Input sound from both left and right speakers should be normal (L monaural check). When the "AUDIO TO HI-FI" plug is connected only to R terminal, check that the sound is output only from the right speaker. (No sound should be output from the left speaker.)

Remark

- (1) The audio input terminals are switched between stereo and monaural by switching the “Audio Input Terminals” jacks.
- When the “Audio Input Terminals” plugs are connected to both L and R: Stereo input mode.
 - When the “Audio Input Terminals” plugs are connected only to L: Monaural input mode.

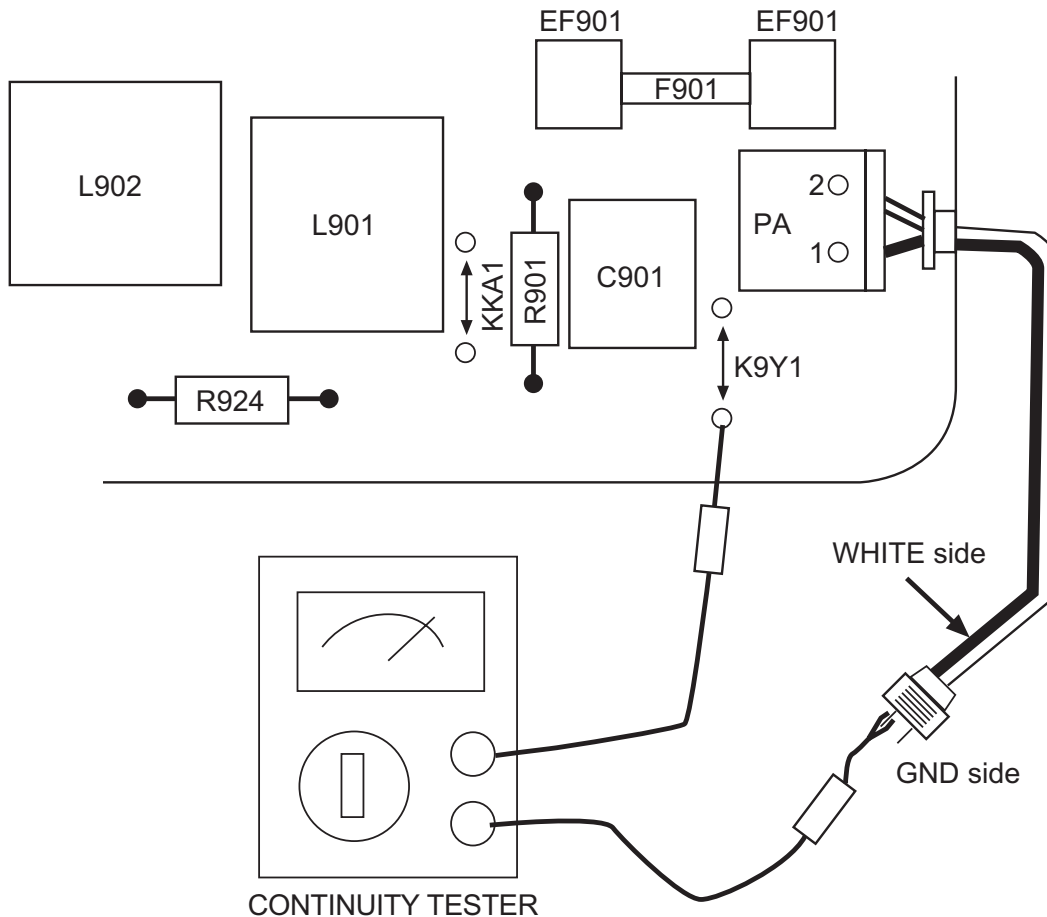
Checking Procedure

- (5) When the Video (S-In) is selected, the picture and sound from the Y/C separated signal should be received. Output signal is composite or S-Video signal, when S-Video input signal is selected.
- (6) The signal controlled from the TV side (Bass, Treable, Balance, Volume, Mute, Surround) should be output from Audio to Hi-Fi output terminal when Item (1) is checked.

XI. SAFETY CHECK

1. AC Cord Polarity

This check is based on the UL standard. The GND side (wider blade) of the AC power cord should be connected to K9Y1.



XII. MTS OPERATION CHECK

1. STEREO/SA BROADCAST RECEIVING CHECK

Preparation

- (1) Set the TV set so that a MTS broadcast (STEREO/SAP) can be received.



- (2) Set MTS mode to STEREO or SAP mode.
Note: To select between “STEREO/SAP,” display sound setting of MTS mode and Select AUDIO MENU
- (3) Set BALANCE to the center.

Checking Procedure

- (1) When one of the MTS broadcast stereo SAP is received, check that “ST” or “SA” is displayed on the screen.
- (2) Stereo broadcast receiving check
 - (a) Select MTS mode and press cursor ► button to display “STEREO” on the screen.
 - (b) When only Lch signal is received, Lch sound comes out from the left speaker.
 - (c) When only Rch signal is received, Rch sound comes out from the right speaker.
 - (d) When monaural signal is received, monaural sound comes out from both the right and left speakers.
- (3) SAP broadcast receiving check
 - (a) Select MTS mode. Press cursor ► button to display “SAP” on screen.
 - (b) SAP signal comes out from both of the right and left speakers.
 - (c) When to SAP signal, the sound on “MAIN” side (refer to (3)) comes out.**Note:** When the RECALL button is operated, “STEREO”, “ST” or “SA” are shown for approx. 4 sec.

2. MTS MODE CHECK

Preparation

- (1) Set the TV set so that a MTS broadcast (STEREO/SAP) can be received.
- (2) Set BALANCE to the center.

Checking Procedure

- (1) When “MTS MODE” is set to “MONO” mode, check that STEREO indication which has been ON are turned OFF and that monaural sound comes out from the right and left speakers.
- (2) When “MTS MODE” is set to “STEREO” mode, check that the STEREO indication which has been OFF are turned ON and that STEREO and SA sound can be received.

3. STEREO SEPARATION CHECK

Preparation

- (1) Set the set so that a MTS broadcast (STEREO/SA) can be received.
- (2) Make surround “OFF”.
- (3) Set MTS MODE to “STEREO.”
- (4) Connect AUDIO OUT terminals L and R to an oscilloscope.

Checking Procedure

- (1) When stereo L only signal (or R only signal) is received, check that the output level ratio of Lch and Rch is 15dB or more.

(Example)

When L only is received (100% modulation)

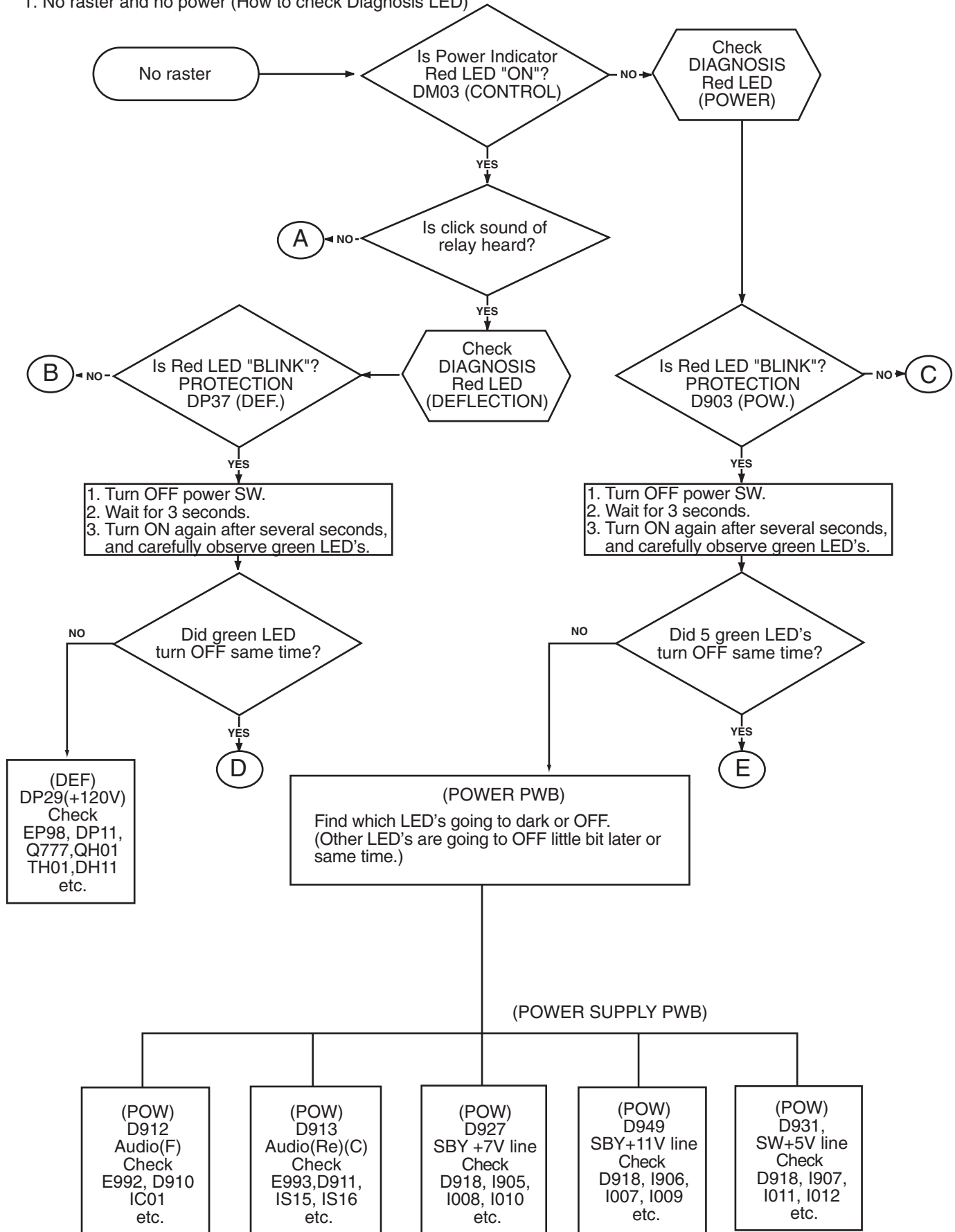
CH	Output Level
L	1.2 Vpp
R	0.21 Vpp or less

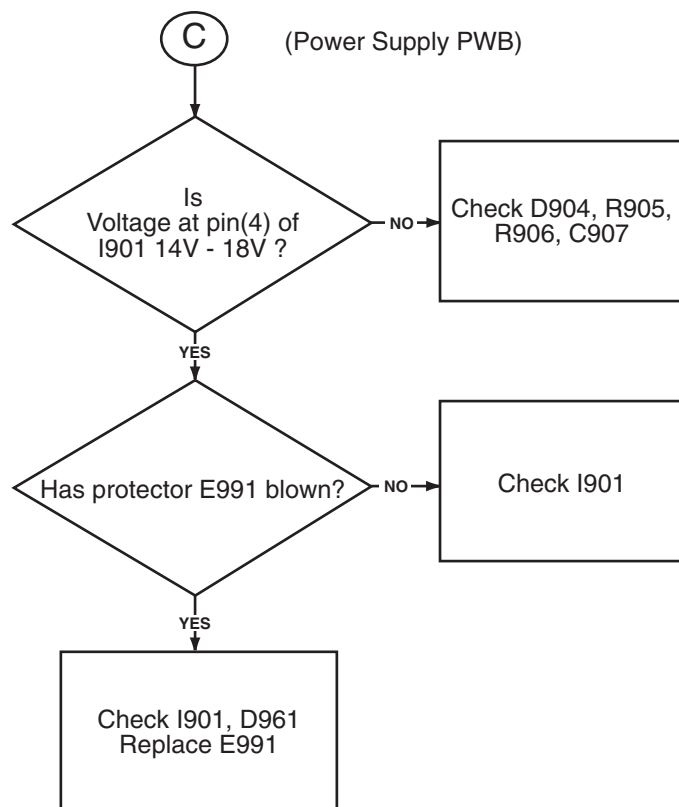
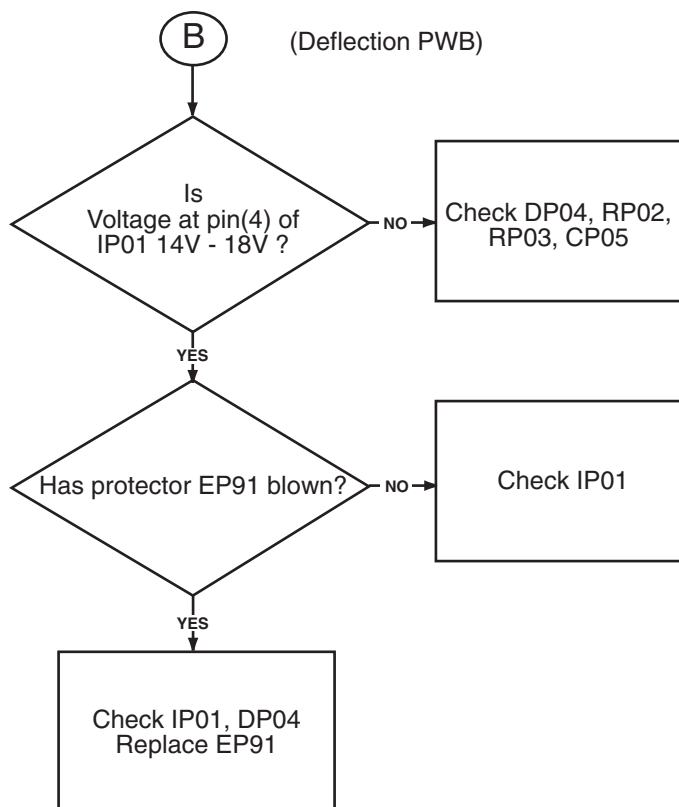
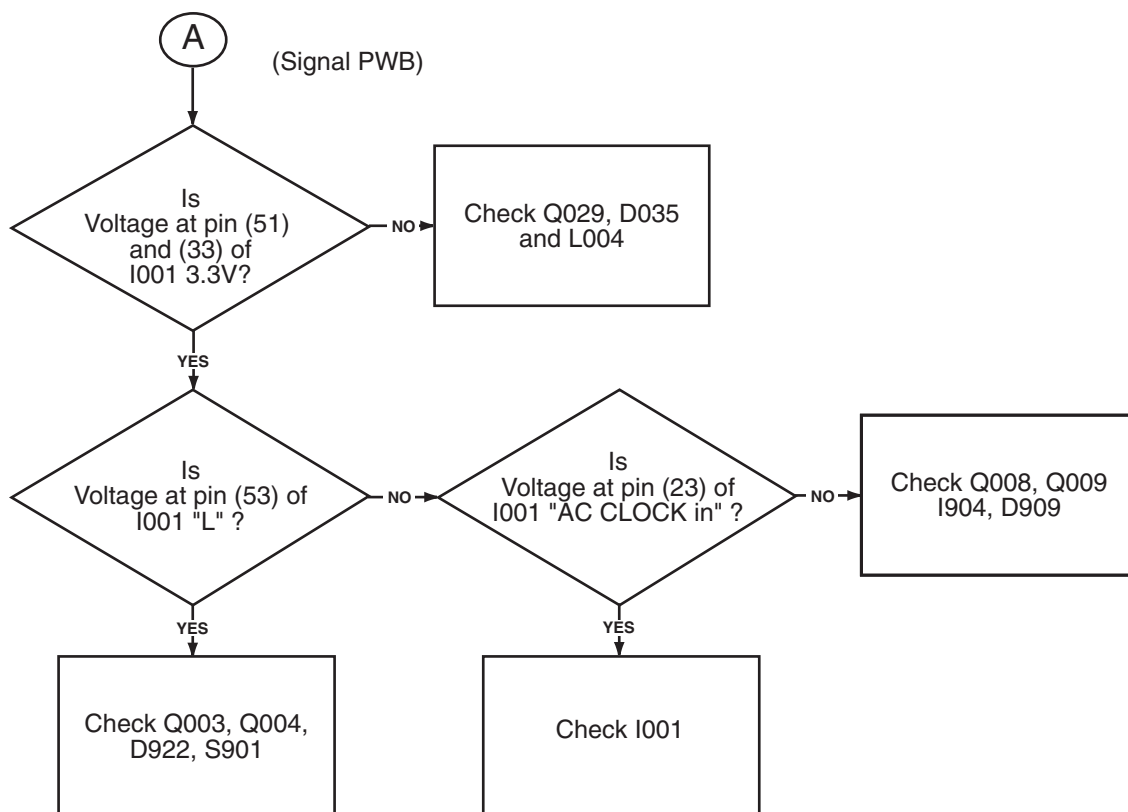
XIII. USER CONTROL INITIALIZE

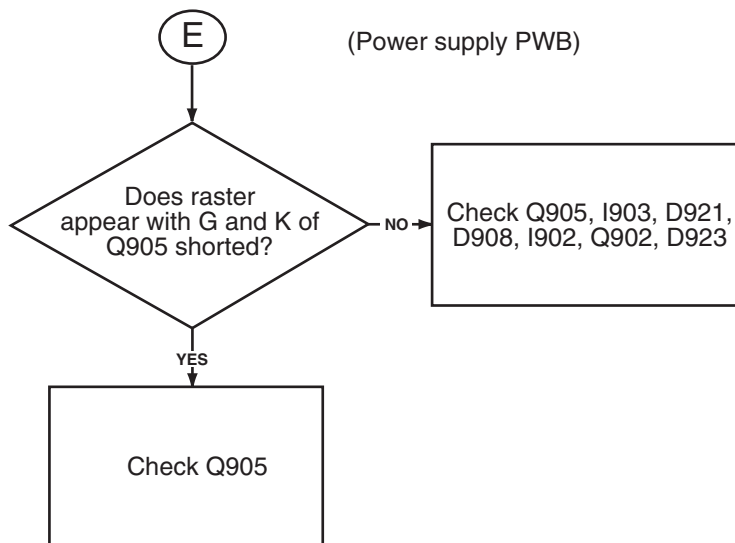
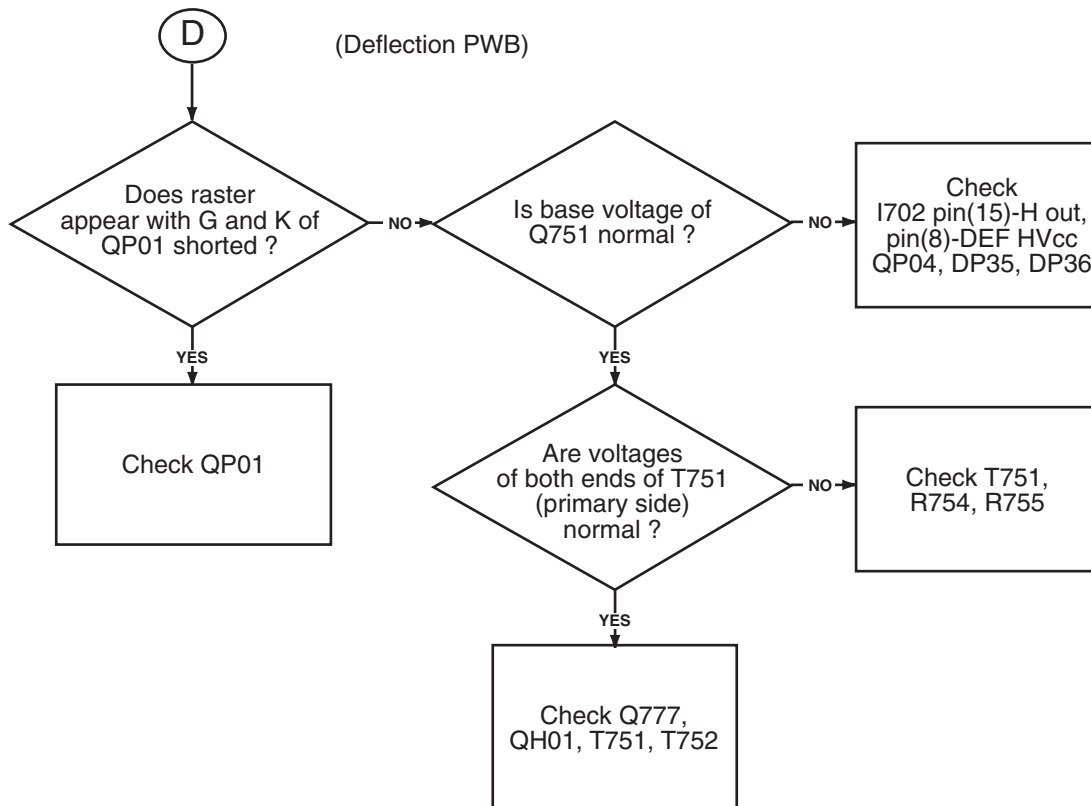
FUNCTION	INITIAL DATA/CONDITION
Common	
NTSC Channel (MAIN, SUB)	03CH
INPUT	ANT A
MENU LANGUAGE	ENGLISH
SIGNAL SOURCE	AIR
CHANNEL MEMORY	2-13
CLOCK SET	Not Registered
ROTATION	00
COMPONENT SET	Not Registered
CHANNEL ID	Not Registered
VIDEO ID	Not Registered
FAMILY FAVORITES	Not Registered
PARENTAL CONTROL	Not Registered
4 EVENT PROGRAM	Not Registered
AUTO LINK	OFF
CCD ON/OFF	OFF
CCD MODE	CAPTION
CCD CHANNEL	CHANNEL 1
MENU BACKGROUND	SHADED
CONTRAST	100%
BRIGHTNESS	50%
COLOR	50%
TINT	CENTER
SHARPNESS	50%
AUTO COLOR	ON
NOISE REDUCTION	OFF
COLOR TEMPERATURE	COOL
ASPECT RATIO 480i/480P	4:3
ASPECT RATIO 720P/1080i	16:9
COLOR SYSTEM 480i/480P	SDTV
COLOR SYSTEM 720P/1080i	HDTV
MULTI WINDOW MODE	OFF
V POSITION	0
BASS	50%
TREBLE	50%
BALANCE	CENTER
MTS Mode	STEREO
INTERNAL SPEAKERS	ON
AUTO NOISE CANCEL	OFF
LOUDNESS	OFF
PERFECT VOLUME	OFF
THEATER MODE	SPORTS
SRS	ON
BBE	ON

TROUBLE SHOOTING

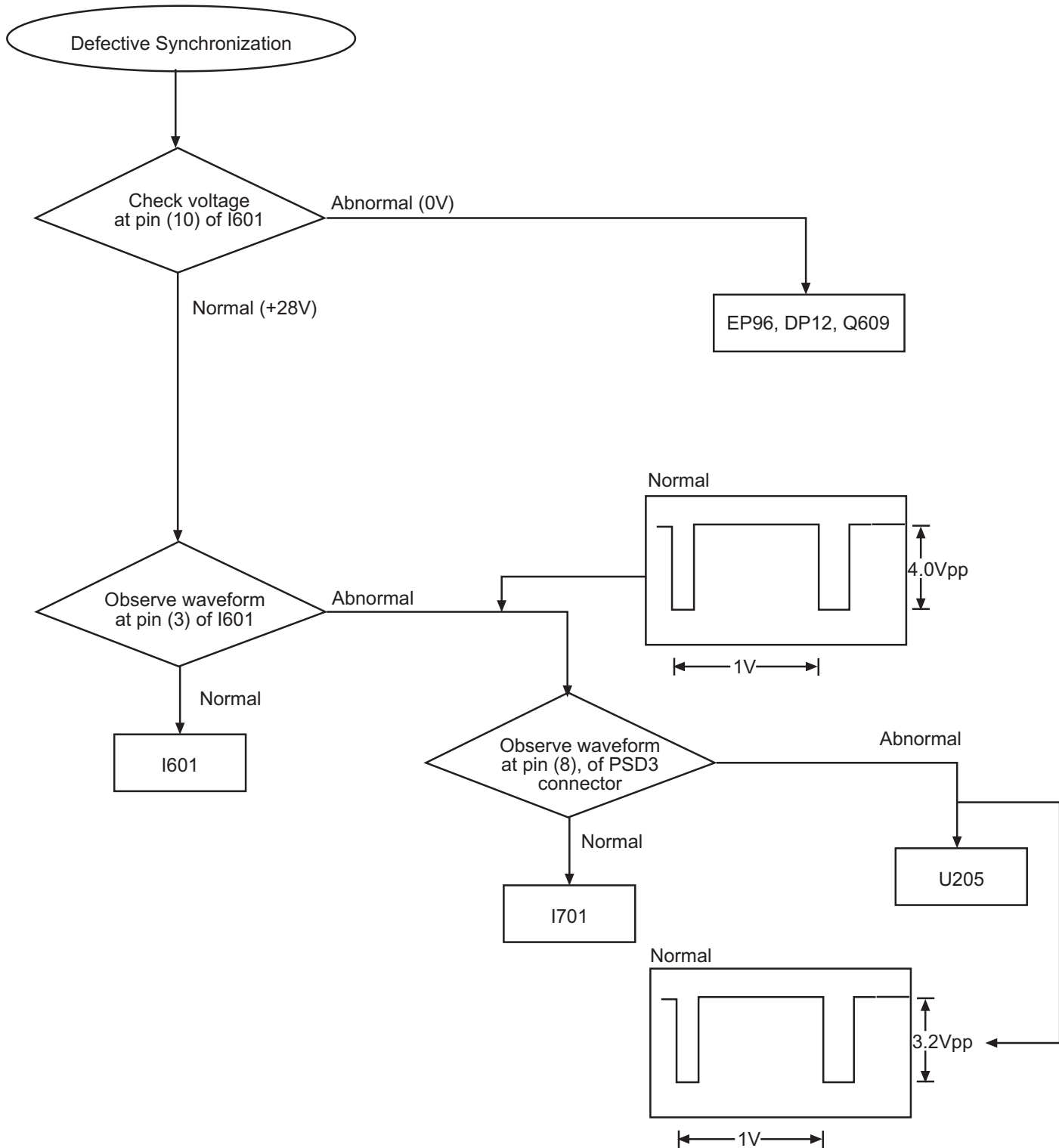
1. No raster and no power (How to check Diagnosis LED)



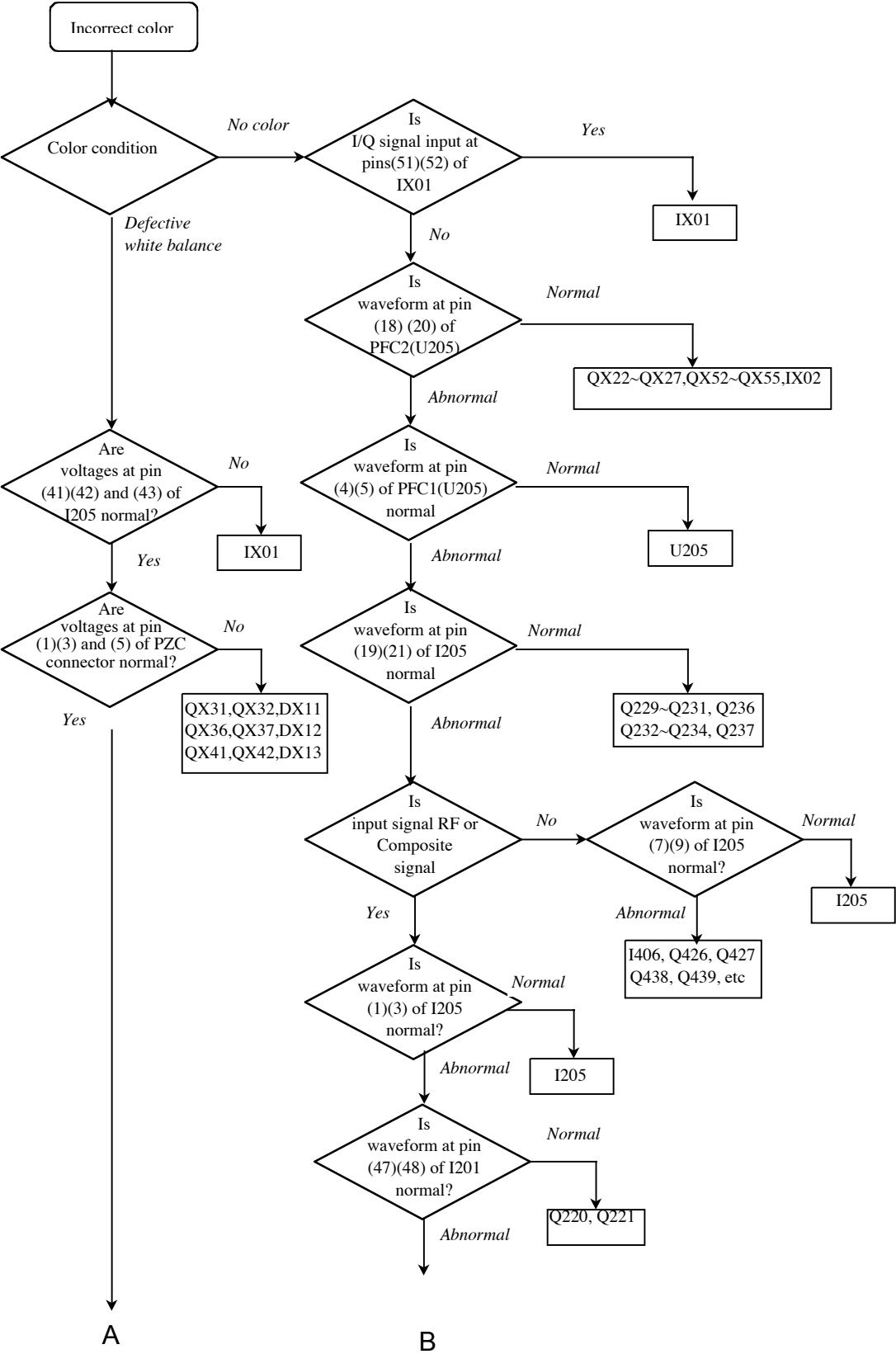




2. Defective Synchronization

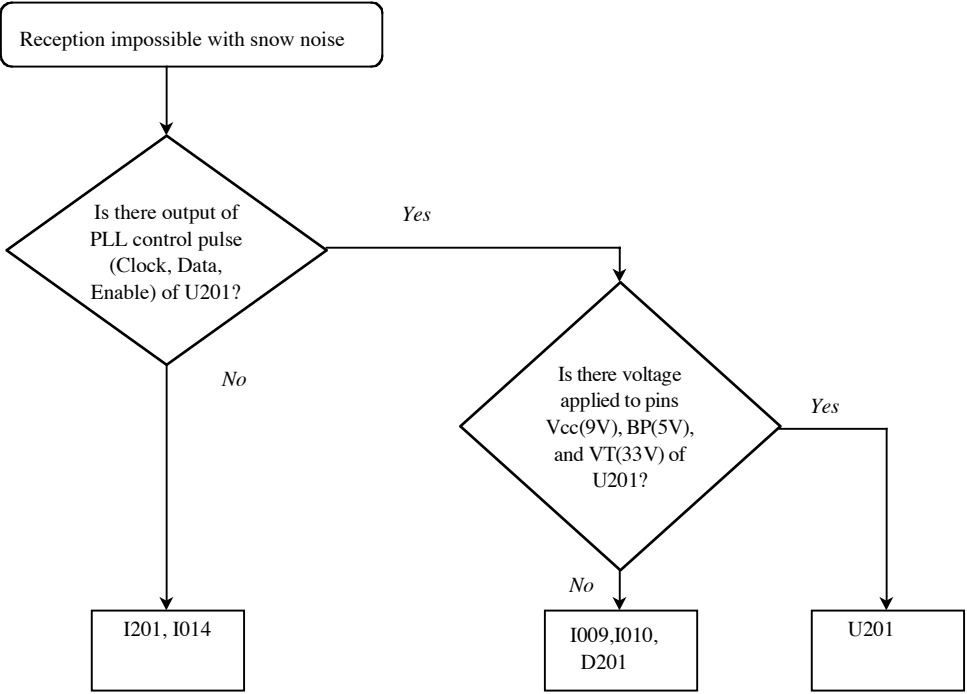


3. INCORRECT COLOR

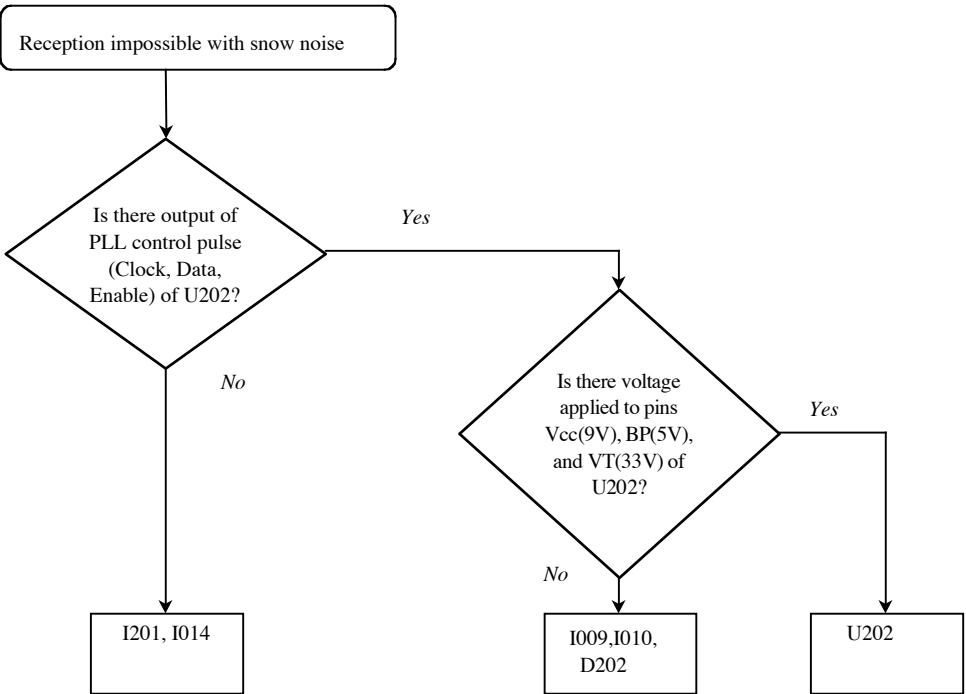


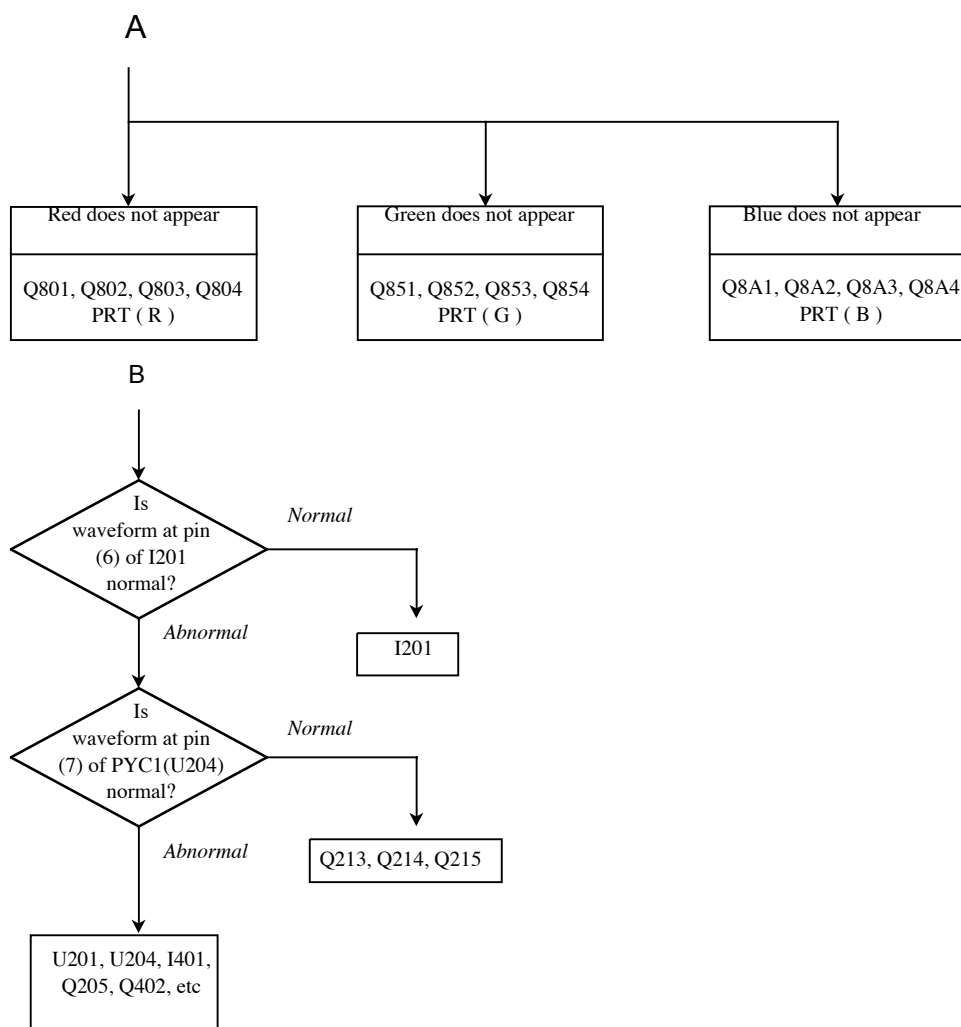
4. SNOW NOISE

ANT A



ANT B

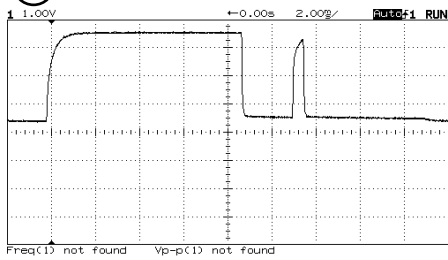




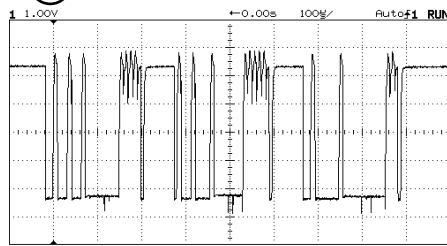
WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

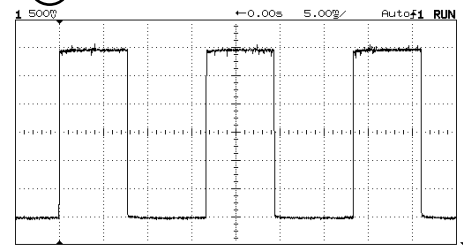
① I001 Pin 1



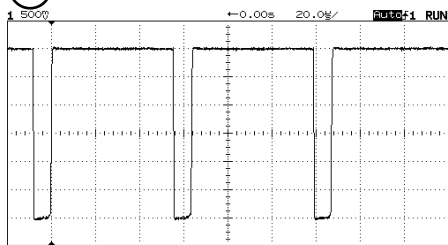
② I001 Pin 2



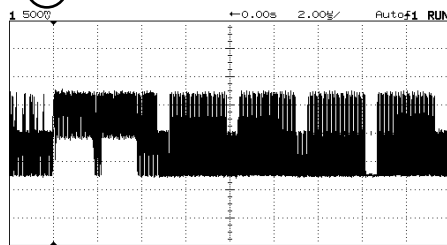
③ I001 Pin 23



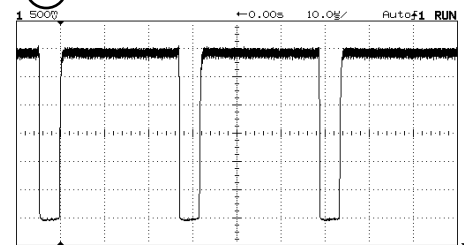
④ I001 Pin 24



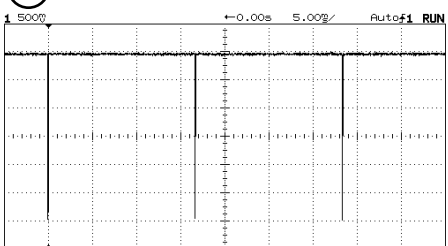
⑤ I001 Pin 38



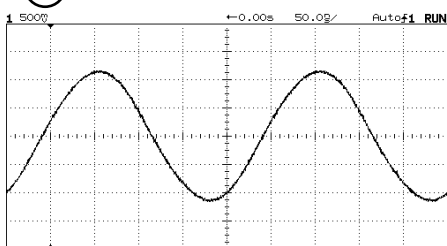
⑥ I001 Pin 49



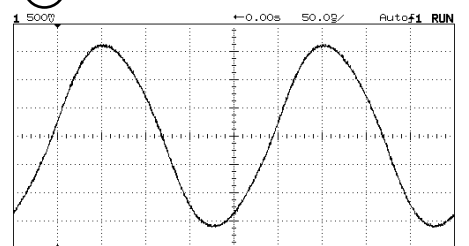
⑦ I001 Pin 55



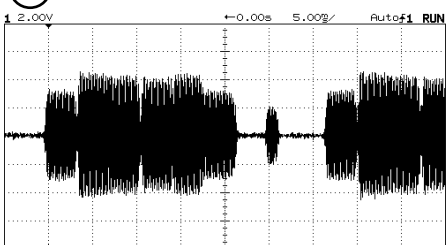
⑧ I001 Pin 62



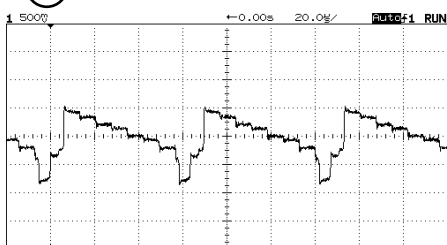
⑨ I001 Pin 63



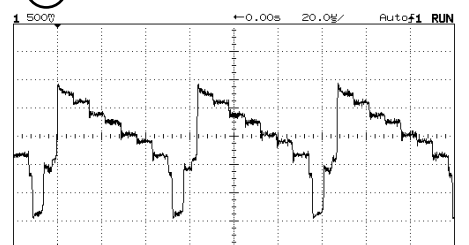
⑩ I403 Pin 6



⑪ I403 Pin 8



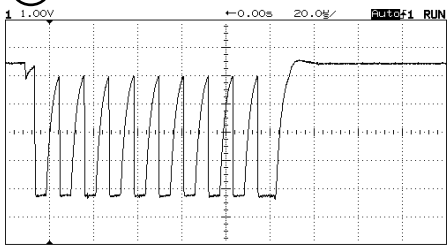
⑫ I403 Pin 40



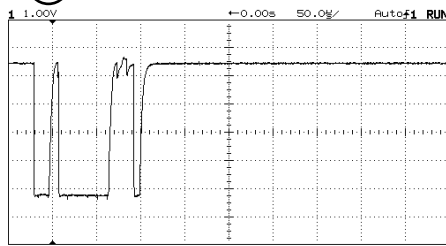
WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

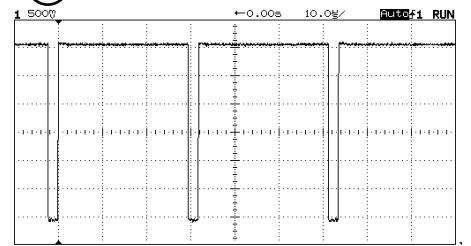
⑬ PSD2 Pin 1



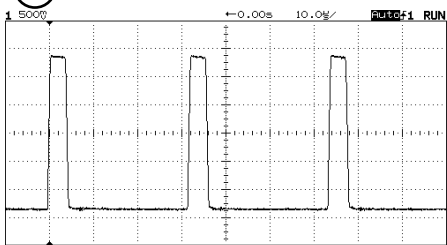
⑭ PSD2 Pin 2



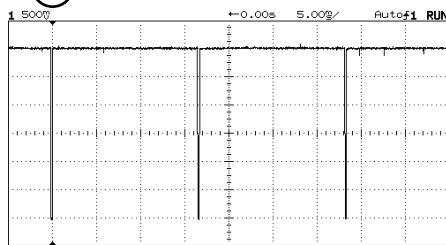
⑮ PSD3 Pin 4



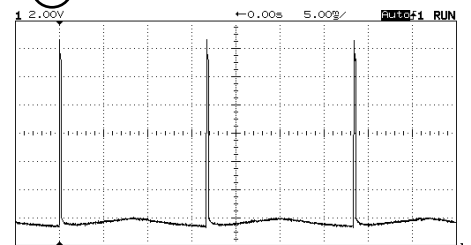
⑯ PSD3 Pin 6



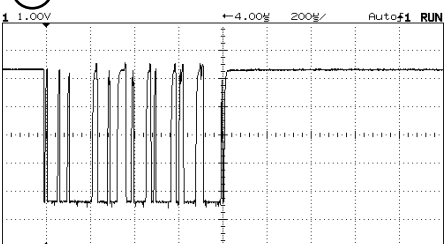
⑰ PSD3 Pin 8



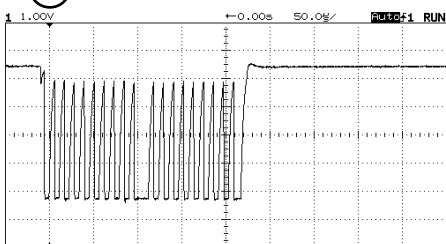
⑱ PSD3 Pin 10



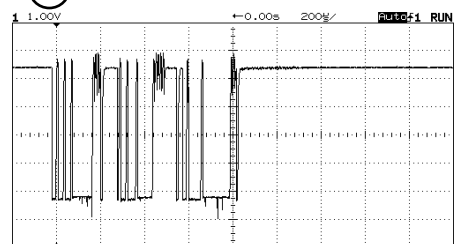
⑲ PST1 Pin 1



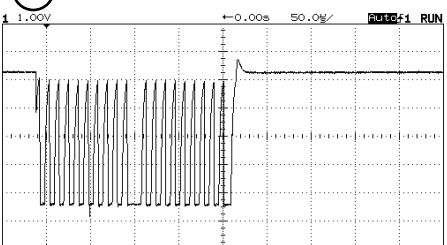
⑳ PST1 Pin 2



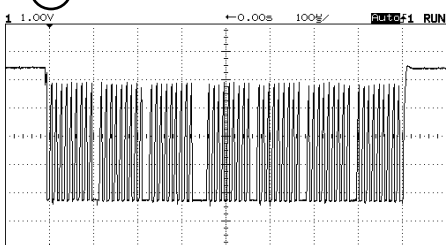
㉑ PST1 Pin 5



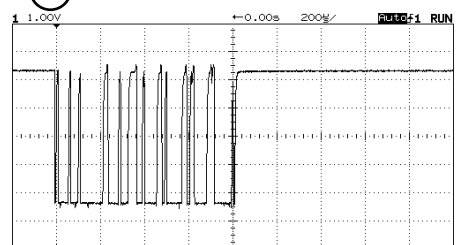
㉒ PST1 Pin 6



㉓ PSU1 Pin 1



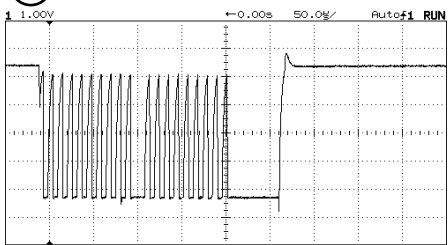
㉔ PSU1 Pin 2



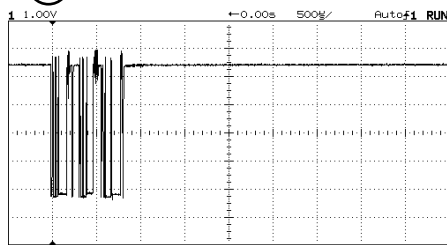
WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

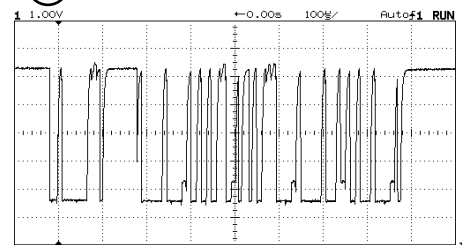
②⑤ PSU1 Pin 3



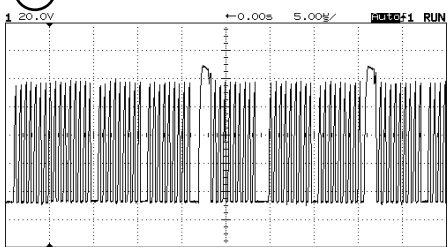
②⑥ PSU1 Pin 4



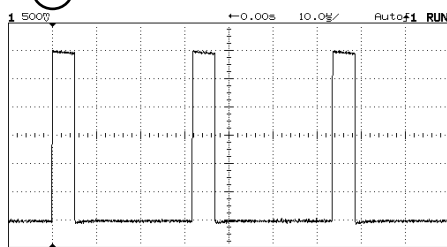
②⑦ PSZ2 Pin 1



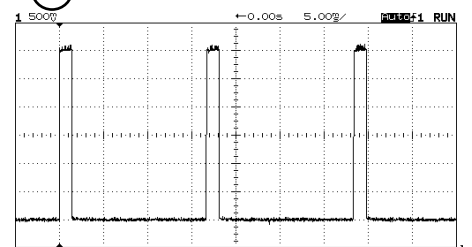
②⑧ PSZ2 Pin 2



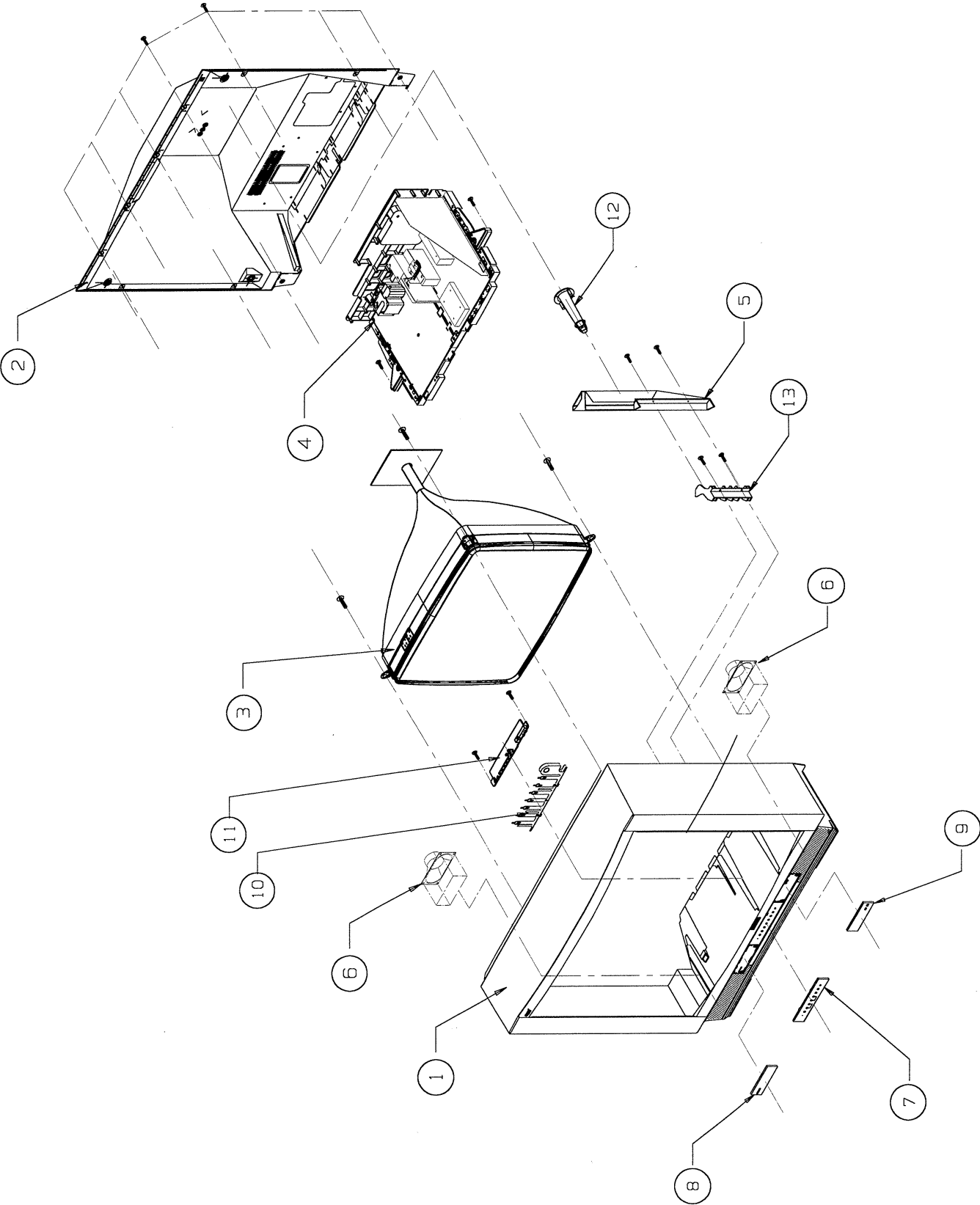
②⑨ PSZ2 Pin 12



③⑩ PSZ2 Pin 13



36/32UDX10S EXPLODED VIEW



NOTE: Parts 12 and 13 are for 32UDX model only.

EXPLODED VIEW PARTS LIST

ITEM	PART NUMBER	DESCRIPTION
1	QD21831	FRONT FRAME 36UDX
1	QD21861	FRONT FRAME 32UDX
2	QD09623	BACK COVER 36UDX
2	QD09852	BACK COVER 32UDX
3	UX04293	CPT FIX ASS'Y 36UDX
3	UX04296	CPT FIX ASS'Y 32UDX
4	UE08891	MAIN CHASSIS ASS'Y 36UDX
4	UE08892	MAIN CHASSIS ASS'Y 32 UDX
5	UE08891	POWER BOARD ASS'Y 36UDX
5	UE08892	POWER BOARD ASS'Y 32UDX
6	UX04281	SPEAKER ASS'Y
7	PH08785	CONTROL PANEL UDX
8	PH08923	CONTROL TRIM UDX
9	PH08778	AV DOOR UDX
10	PC04672	CONTROL BUTTONS
11	UE08891	CONTROL BOARD ASS'Y 36UDX
11	UE08892	CONTROL BOARD ASS'Y 32UDX
12	NJ05491	POWER SUPPORT
13	NT02101	POWER JOINT HOLDER

SIGNAL POWER 1/2 TV-ON Mode

Symbol	Pin No.	Vdc
I901	1	2
	2	0
	3	153.4
	4	15.62
	5	0
I902	1	12.03
	2	11.06
	3	3
	4	16.6
I903	1	12.03
	2	11.4
	3	0
	4	16.56
I904	1	2.85
	2	3.7
	3	4.8
	4	12
I905	1	25.4
	2	7.4
	3	0
	4	5
	5	0
I906	1	25.4
	2	11.5
	3	0
	4	9
	5	2.4
I907	1	25.4
	2	5.7
	3	0
	4	5
	5	2.3

Symbol	Pin No.	Vdc
I908	1	25.4
	2	12.1
	3	0
	4	12
	5	2.4

Symbol	Pin No.	Vdc
Q901	B	0
	C	15.62
	E	0
Q902	B	6.4
	C	11.1
	E	5.8
Q903	B	0
	C	4.7
	E	0
Q905	B	0
	C	11.5
	E	0
Q908	B	4.7
	C	4.7
	E	4.2
Q909	B	4.2
	C	-0.17
	E	4.3
Q910	B	3
	C	16.5
	E	2.4

Symbol	Pin No.	Vdc
Q911	B	0.73
	C	0.42
	E	0
Q912	B	4.7
	C	-0.15
	E	4.7
Q913	B	0.33
	C	11.2
	E	0

SIGNAL PWER 2/2 TV-ON Mode

Symbol	Pin No.	Vdc
PA	1	
	2	2
PQD1	1	
	2	4
PQD2	1	7.8
	2	0
	3	11.2
	4	0
	5	10.5
	6	0
	7	12.1
POS1	1	32
	2	0
	3	11.1
	4	11.1
	5	11.1
	6	0
	7	0
	8	0
	9	0
	10	4
POS2	1	7.3
	2	7.3
	3	7.3
	4	0
	5	0
	6	0
	7	5.5
	8	5.5
	9	0
	10	3
	11	3.2
POS4	1	0
	2	0
	3	0

Symbol	Pin No.	Vdc
PQU1	1	20.7
	2	20.7
	3	0
	4	0
	5	0.4
PW	6	0
	1	
	2	
	3	
	4	

CONTROL

Symbol	Pin No.	Vdc
QM01	B	0.69
	C	0.04
	E	0
QM02	B	0.04
	C	5
	E	0
QM03	B	0
	C	4.9
	E	0
QM04	B	0.67
	C	0.07
	E	0
QM91	B	2.5
	C	9
	E	1.9
QM92	B	2.5
	C	9
	E	1.2

Symbol	Pin No.	Vdc
PFS	1	9
	2	0
	3	5
	4	0.02
	5	0
	6	0
	7	3.2
	8	3.2
	9	0
PFS	1	3.1
	2	0
	3	0
	4	0
	5	0
	6	0
	7	1.7
	8	1.7
	9	0
	10	0
	11	9

SIGNAL POWER 1/2 STAND-BY MODE

Symbol	Pin No.	Vdc
I901	1	1.6
	2	0
	3	166.5
	4	14.93
	5	0
I902	1	12.1
	2	11.1
	3	2.8
	4	15.02
I903	1	12.1
	2	11.4
	3	0
	4	15.8
I904	1	3.2
	2	3.7
	3	4
	4	12.1
I905	1	25.4
	2	7.4
	3	0
	4	5
	5	0
I906	1	25.5
	2	11.5
	3	0
	4	9
	5	2.3
I907	1	25.4
	2	0
	3	0
	4	0
	5	0.42

Symbol	Pin No.	Vdc
I908	1	25.4
	2	0
	3	0
	4	0.03
	5	0.42

Symbol	Pin No.	Vdc
Q901	K	0
	A	14.92
	G	0
Q902	B	6.4
	C	11.1
	E	5.8
Q903	B	0.67
	C	0
	E	0
Q905	K	0
	A	11.4
	G	0
Q908	B	0.5
	C	4.8
	E	0.16
Q909	B	0.16
	C	-0.13
	E	0.16
Q910	B	2.8
	C	15.8
	E	2.18

Symbol	Pin No.	Vdc
Q911	B	0
	C	0
	E	0
Q912	B	4.8
	C	0
	E	4.8
Q913	B	0.3
	C	11.6
	E	0

SIGNAL POWER 2/2
STAND-BY MODE

Symbol	Pin No.	Vdc
PA	1	
	2	
PQD1	1	
	2	
PQD2	1	10.3
	2	0
	3	11.5
	4	0
	5	0
	6	0
	7	0
	1	12.45
	2	0
	3	11.4
	4	11.4
	5	11.4
PQS1	6	0
	7	0
	8	2.5
	9	0
	10	4.5
	1	7.4
	2	7.4
PQS2	3	7.4
	4	0
	5	0
	6	0
	7	0
	8	0
	9	0
	10	0
	11	3.3
PQS4	1	0
	2	0
	3	0

Symbol	Pin No.	Vdc
PQU1	1	0
	2	0
	3	0
	4	0
	5	0.4
	6	0
PW	1	
	2	
	3	
	4	

DEFLECTION

Symbol	Pin No.	Vdc
I601	1	0
	2	13.3
	3	28.1
	4	3.1
	5	3.1
	6	27.7
	7	1.3
IP01	1	2.1
	2	0
	3	154.5
	4	18.1
IP02	1	7.04
	2	6.3
	3	-0.02
	4	2.3
IP03	1	142.3
	2	10.7
	3	-0.02
IP04	1	12
	2	11
	3	3.2
	4	18.11

Symbol	Pin No.	Vdc
Q607	B	14
	C	27.9
	E	14
Q608	B	14
	C	-0.02
	E	14
Q609	B	1.3
	C	14
	E	0.65
Q610	B	27.7
	C	-0.02
	E	27.9
Q654	B	0.68
	C	1.4
	E	-0.02
Q655	B	1.4
	C	9.5
	E	1.7
Q656	B	1.4
	C	0
	E	1.7
Q657	B	0.04
	C	98
	E	0
Q703	B	0
	C	0
	E	0

Symbol	Pin No.	Vdc
Q704		0.03
	C	23.8
	E	0
Q751	B	0.34
	C	23.8
	E	0
Q755	B	1.1
	C	12.1
	E	1.6
Q777	1	0.02
	2	141
	3	-0.13
QH01	B	3.1
	C	143.3
	E	0.27
QP01	K	0
	A	10.2
	G	0.16
QP02	B	141.9
	C	0.13
	E	142.3
QP03	B	6.2
	C	-0.02
	E	6.2
QP04	B	10.5
	C	11
	E	11.2

DEFLECTION

Symbol	Pin No.	Vdc
PA	1	N/A
	2	N/A
	3	N/A
	4	N/A
PDC1	1	221.7
	2	NC
	3	27.9
	4	-0.02
	5	6.2
PCD2	1	0
PDH	1	140.3
	2	140.3
	3	140.8
	4	140.8
PDV	1	13.7
	2	0.04
	3	13.7
PQD1	1	0
	2	0
PQD2	1	7.8
	2	0
	3	11.2
	4	0
	5	10.1
	6	0
	7	12.1
PSD2	1	4.8
	2	4.8
	3	4.5
	4	0
	5	9.1
	6	0
	7	0
PSD3	1	8.3
	2	-0.65
	3	0
	4	3
	5	0
	6	1.6
	7	0
	8	3
	9	0
	10	0.69
	11	0
	12	0
	13	0

6

Symbol	Pin No.	Vdc
PWBA	1	12.1
	2	0
	3	31.5
	4	0
	5	1
		28.1
	7	0
	8	7.7
	9	0
	10	7.1
	11	0
	12	1.6
	13	0
	14	0
	15	3.1
PWBB	1	9.2
	2	2.9
	3	3
	4	4.5
	5	0
	6	1.1
	7	1.3
	8	2.5
	9	3.1
	10	5
	11	5.5
	12	0.6
	13	5
	14	0.9
	15	3.6
	16	3.4
	17	4.8
	18	4.8

SURROUND

Circuit No.	Pin No.	Voltage VDC
IC01	1	1.6
	2	0
	3	0
	4	0
	5	1.6
	6	6.9
	7	9.5
	8	5
	9	20.7
	10	0
	11	4.2
	12	9.2

Circuit No.	Pin No.	Voltage VDC
QC01	B	0.45
	C	0
	E	0
QC02	B	0.42
	C	0
	E	0
QC03	B	0
	C	4.1
	E	0
QC04	B	0
	C	6.9
	E	0

Circuit No.	Pin No.	Voltage VDC
PL	1	0
	2	0
	3	0
	4	0
	5	0
PR	1	0
	2	0
	3	0
	4	0
PSUI	1	4.8
	2	4.8
	3	0
	4	0
	5	0
	6	0
	7	0
	8	4.1
	9	4.1
	10	0
	11	4.4
	12	4.5
	13	0
	14	0
	15	4.8
	16	0
	17	5
	18	0
	19	9.1
	20	9.1
PQU1	1	20.7
	2	20.7
	3	0
	4	0
	5	0.4
	6	0

SURROUND

Circuit No.	Pin No.	Voltage VDC
IA01	1	5.0
	2	4.8
	3	4.8
	4	0.0
	5	0.0
	6	0.0
	7	5.0
	8	0.0
	9	5.0
	10	0.0
	11	5.0
	12	0.0
	13	0.0
	14	0.0
	15	0.0
	16	5.0
	17	5.0
	18	5.0
	19	5.0
	20	5.0
IA02	1	4.5
	2	1.2
	3	4.5
	4	9.1
	5	4.5
	6	0.0
	7	0.0
	8	4.5
	9	2.0
	10	4.5
IA03	1	4.5
	2	4.5
	3	4.5
	4	4.5
	5	4.5
	6	4.5
	7	4.5
	8	4.5
	9	9.0
	10	0.0
	11	0.0
	12	0.0
	13	4.5
	14	4.5
	15	4.5
	16	4.5
	17	0.0
	18	4.5
	19	4.5
	20	4.5
	21	4.5
	22	4.5

Circuit No.	Pin No.	Voltage VDC
IA04	1	4.5
	2	4.5
	3	4.5
	4	4.5
	5	4.5
	6	4.5
	7	4.5
	8	7.9
	9	7.9
	10	4.6
	11	0.0
	12	9.1
	13	4.5
	14	4.5
	15	4.5
	16	4.5
	17	4.5
	18	4.5
	19	4.5
	20	4.5
IA05	1	0.0
	2	4.1
	3	4.1
	4	4.1
	5	4.1
	6	4.1
	7	0.0
	8	0.0
	9	0.0
	10	4.8
	11	4.8
	12	0.4
	13	0.4
	14	1.8
	15	1.8
	16	8.3
	17	4.1
	18	4.1
	19	4.1
	20	4.1
	21	4.1
	22	0.0

Circuit No.	Pin No.	Voltage VDC
QA03	B	0.0
	C	7.9
	E	0.0
QA07	B	0.9
	C	8.4
	E	0.3
QA08	B	8.4
	C	0.3
	E	9.1
QA09	B	0.9
	C	8.4
	E	4.0
QA10	B	9.1
	C	8.4
	E	4.0
QA11	B	0.0
	C	0.0
	E	0.0
QA12	B	0.0
	C	0.0
	E	0.0
PSU2	1	0.0
	2	0.0
	3	0.0
	4	0.0
	5	0.0
	6	0.0
	7	0.0
	8	0.0
	9	0.0
	10	0.0
	11	4.9
	12	4.8
	13	0.0
	14	0.0
	15	0.0
	16	0.4
	17	0.0
	18	0.0
	19	0.0
	20	0.0

2H VIDEO

Symbol	Pin No.	Vdc	Pin No.	Vdc
1X01	1	1.5	29	5
	2	2.5	30	5
	3	4	31	0
	4	3	32	1
	5	2.3	33	3.3
	6	2.2	34	3.3
	7	0	35	3.3
	8	4	36	0.2
	9	4	37	3.5
	10	4	38	3.5
	11	1.6	39	3.5
	12	4.9	40	9.1
	13	2.6	41	3.3
	14	0	42	3.3
	15	2.6	43	3.3
	16	0	44	0
	17	0	45	5.7
	18	0.3	46	9.1
	19	0	47	0
	20	6.7	48	3.4
	21	0	49	5.5
	22	9.1	50	3.7
	23	9.1	51	5
	24	1.6	52	5.1
	25	1.2	53	6.5
	26	0	54	7
	27	4.8	55	5
	28	0	56	0.4

Symbol	Pin No.	Vdc	Pin No.	Vdc
IX02	1	2.5	9	2.1
	2	4.6	10	0
	3	1.8	11	2.5
	4	0	12	4.6
	5	1.8	13	5
	6	0.7	14	1.5
	7	0	15	0
	8	2.1	16	1.5
PSZ1	1	9.2	11	0
	2	9.2	12	0
	3	0	13	0
	4	5	14	0
	5	5	15	0
	6	0	16	0
	7	0	17	0
	8	0	18	0
	9	0	19	0.7
	10	0	20	0
PSZ2	1	4.8	11	0
	2	1.8	12	0.5
	3	0	13	0.3
	4	1.6	14	0
	5	8.3	15	4.2
	6	0	16	0
	7	0	17	4.2
	8	1.1	18	0
	9	0	19	4.2
	10	0.1	20	0

Symbol	Pin No.	Vdc
PZC	1	4
	2	0
	3	3.9
	4	0
	5	4
	6	0
	7	0
	8	9.2
PZV	1	3.2
	2	0
	3	0
	4	0

Symbol	Pin No.	Vdc
Q4X1	B	
	C	
	E	
Q4X2	B	
	C	
	E	
QX07	B	0
	C	0
	E	0.6
QX08	B	0
	C	0
	E	0.6
QX09	B	0
	C	0
	E	0.6
QX13	B	7.3
	C	9.2
	E	6.7
QX15	B	1.1
	C	9.1
	E	1.1
QX16	B	9.1
	C	0.3
	E	9.1
QX17	B	1.1
	C	0
	E	1.58
QX18	B	0.6
	C	0
	E	1.2
QX21	B	4.2
	C	9.1
	E	3.9
QX22	B	5.9
	C	9.1
	E	4.6
QX23	B	5.2
	C	9.1
	E	4.6
QX24	B	7.7
	C	9.1
	E	7.1

Symbol	Pin No.	Vdc
QX25	B	1.4
	C	4.9
	E	8
QX26	B	8.5
	C	4.6
	E	9.1
QX27	B	8.5
	C	4.9
	E	9.1
QX31	B	3.4
	C	0
	E	4
QX32	B	6.9
	C	3.4
	E	7.6
QX36	B	3.3
	C	0
	E	4
QX37	B	6.9
	C	3.4
	E	7.6
QX41	B	2.9
	C	0
	E	3.5
QX42	B	6.9
	C	3.5
	E	7.6
QX46	B	3.4
	C	9.2
	E	2.7
QX52	B	4.9
	C	9.1
	E	4.3
QX53	B	4.6
	C	9.1
	E	4
QX54	B	4.6
	C	8.5
	E	4
QX55	B	4.9
	C	8.5
	E	4.3

TERMINAL

Symbol	Pin No.	Vdc	Pin No.	Vdc
I401	1	3.9	33	4.9
	2	4.4	34	4.9
	3	3.9	35	0
	4	4.4	36	4.4
	5	4.4	37	4.4
	6	0.11	38	4.5
	7	4.9	39	3.7
	8	3.9	40	4.5
	9	4.4	41	4.9
	10	0	42	8.9
	11	0.11	43	4.5
	12	4.9	44	4.8
	13	3.9	45	4.5
	14	4.4	46	3.7
	15	0	47	4.4
	16	4.4	48	0.02
	17	4.4	49	5.4
	18	0.1	50	4.5
	19	4.9	51	4.4
	20	3.9	52	5
	21	4.4	53	4.4
	22	3.9	54	3.7
	23	4.4	55	4.6
	24	3.9	56	0
	25	4.4	57	4.3
	26	4.4	58	0
	27	0.1	59	4.6
	28	4.9	60	4.4
	29	4.4	61	4.4
	30	3.9	62	4.4
	31	4.4	63	4.6
	32	0.03	64	4.4
I402	1	4.9		
	2	0.0		
	3	4.0		
	4	6.5		
	5	9.0		

Symbol	Pin No.	Vdc	Pin No.	Vdc	Symbol	Pin No.	Vdc
PST1	1	4.8	11	4.5	PFT	1	1.9
	2	4.8	12	4.5		2	0.0
	3	0.0	13	0.0		3	0.0
	4	4.5	14	6.5		4	0.0
	5	4.9	15	0.0		5	0.0
	6	4.9	16	4.5		6	0.0
	7	0.0	17	4.5		7	0.0
	8	0.0	18	0.0		8	0.0
	9	1.8	19	1.3		9	0.0
	10	0.0	20	0.0		10	0.0
PST2	1	0.0	11	2.3		11	9.0
	2	0.0	12	0.0			
	3	4.3	13	2.3			
	4	0.0	14	0.0			
	5	4.2	15	4.8			
	6	0.0	16	0.0			
	7	3.8	17	4.7			
	8	0.0	18	0.0			
	9	1.2	19	4.7			
	10	0.0	20	0.0			
PST3	1	0.2	11	0.0			
	2	0.0	12	9.1			
	3	4.8	13	9.0			
	4	0.0	14	0.0			
	5	0.0	15	0.0			
	6	0.0	16	5.0			
	7	0.0	17	5.0			
	8	0.0	18	0.0			
	9	9.1	19	0.0			
	10	9.1	20	0.0			

TERMINAL CONT.

Symbol	Pin No.	Vdc	Pin No.	Vdc
I406	1	2.5	9	2.0
	2	4.8	10	0.0
	3	1.7	11	2.4
	4	0.0	12	4.8
	5	1.7	13	4.8
	6	0.6	14	0.0
	7	4.8	15	0.0
	8	2.0	16	2.4
	1	4.0	25	1.8
X401	2	4.0	26	0.0
	3	4.0	27	0.0
	4	2.0	28	0.0
	5	0.0	29	1.3
	6	1.7	30	1.2
	7	6.1	31	1.2
	8	3.0	32	0.0
	9	0.0	33	4.8
	10	7.0	34	4.8
	11	0.0	35	0.0
	12	5.8	36	0.0
	13	4.8	37	2.4
	14	0.1	38	4.9
	15	1.1	39	4.8
	16	0.0	40	2.9
	17	9.1	41	4.9
	18	9.0	42	4.9
	19	9.0	43	0.0
	20	3.7	44	1.5
	21	4.0	45	0.0
	22	4.0	46	3.7
	23	9.0	47	2.3
	24	0.0	48	2.5

Terminal Cont.

Symbol	Pin No.	Vdc
Q401	B	4.5
	C	9
	E	3.8
Q402	B	4.9
	C	9
	E	4.2
Q403	B	4.9
	C	9
	E	4.2
Q404	B	4.4
	C	0
	E	5.1
Q405	B	4.2
	C	0
	E	4.8
Q406	B	5.9
	C	9.1
	E	5.6
Q407	B	6.9
	C	9.1
	E	6.3
Q408	B	7.1
	C	9.1
	E	6.5
Q409	B	5
	C	9.1
	E	4.3
Q410	B	3.7
	C	9.1
	E	3.1
Q411	B	4.4
	C	9.1
	E	3.8
Q412	B	2.2
	C	0
	E	2.8
Q413	B	2.4
	C	0
	E	3
Q414	B	2.5
	C	0
	E	3.1

Symbol	Pin No.	Vdc
Q416	B	1.4
	C	5
	E	0.7
Q417	B	3.7
	C	8.5
	E	3.1
Q418	B	8.5
	C	5.6
	E	9.1
Q419	B	5.6
	C	1.9
	E	5.6
Q420	B	9.1
	C	4.7
	E	3.7
Q421	B	8.5
	C	3.1
	E	8.5
Q422	B	3.7
	C	8.5
	E	3.1
Q423	B	8.5
	C	5.6
	E	9.1
Q424	B	5.6
	C	9.1
	E	4.9
Q425	B	0.7
	C	0
	E	1.4
Q426	B	1.8
	C	0
	E	2.4
Q427	B	1.8
	C	0
	E	2.4
Q433	G	2.5
	C	4.9
	E	1.9

Symbol	Pin No.	Vdc
Q437	B	3.1
	C	4.9
	E	2.5
Q438	B	1.8
	C	4.9
	E	2.5
Q439	B	3.1
	C	4.9
	E	2.5
Q443	B	0.7
	C	0
	E	0
Q444	B	4.2
	C	9
	E	4.9
Q445	B	4.2
	C	9.1
	E	4.9
Q446	B	4.2
	C	9.1
	E	4.9

QUICK REFERENCE PARTS LIST

NO.	SYMBOL	PART NO.	DESCRIPTION	FUNCTION	PWB
1	EANT	HP00771	ANTSW	ANTENNA SWITCH BOX	MCHASS
2	HM01	CZ00641	GP1U281Q	R RECEIVER	CONTROL
3	I001	CP07791U	U-CON	TV MICRO MICROPROCESSOR	SIGNAL
4	I002	CK32542R	DIGITAL MONOLITHIC IC (M24C16-WMN6T)	E2PROM	SIGNAL
5	I003	CK31071R	CCXA1 875AM	DIGITAL ANALOG CONVERTER	SIGNAL
6	I004	CK31071R	CCXA1 875AM	DIGITAL ANALOG CONVERTER	SIGNAL
7	I005	CK31992R	C BU4053BCF-E2	MAIN-SUB SELECTOR	SIGNAL
8	I006	CP06941R	C PST994I	RESET 1C (+3 3V)	SIGNAL
9	I007	CP05572	ANALOG MONOLITHIC 1C (BA1 7809)	Ät-9 V REGULATOR	SIGNAL
10	I008	CP05571	CBA17805	+5V REGULATOR	SIGNAL
11	I009	CP05163F	C REG.(SI-3090F)	+9V REGULATOR	SIGNAL
12	I010	CP05162F	1C REG.JS1-3050F)	Ä5V REGULATOR	SIGNAL
13	I011	CP06581U	1C LF25CV	+2. 5V REGULATOR	SIGNAL
14	I012	CP04232	ANALOG MONOLITHIC 1C BA033T	t3 3V REGULATOR	SIGNAL
15	I014	CK34051R	C TC74HCT245AF	+3.3V->+5.0V LEVEL SHIFT	SIGNAL
16	I016	2004781	CL-LA7213	COMPONENT 2 SYNC. SEPARATOR 1C	SIGNAL
17	I201	CK07923U	C TA1270BF	MAINVIDEO CHROMA	SIGNAL
18	I202	CK31992R	C BU4053BCF-E2	MAIN SYNC. SELECTOR	SIGNAL
19	I203	2015452R	C HD74HC04FPEL	SYNC. INVERTER	SIGNAL
20	I205	CK08521R	ANALOG MONOLITHIC 1C (BA7657F-E2)	MAIN YBCRC SELECTOR	SIGNAL
21	I207	2004781	ICL-LA7213	SYNC. SEPARATOR	SIGNAL
22	I401	CK30941U	ANALOG MONOLITH 1C IC(CXA2069Q)	AUDIO/VIDEO SELECTOR	TERMINAL
23	I402	CW 00022	COMB FILTER (337KNT)	2 LINE Y/C SEPARATION 1C (SUB)	TERMINAL
24	I403	CK07923U	ICTA1270BF	VIDEO CHROMA 1C (SUB)	TERMINAL
25	I601	CP07081	IC AN5539N	VERTICAL OUTPUT	DEFLECTION
26	I701	CP06551	ICTA1300AN	DEFLECTION CONT.(31 .5/33.75KHz)	DEFLECTION
27	I702	CP07801U	TA1317AN	I2C DEFLECTION CONTROL	DEFLECTION
28	I901	CZ00864	ICSTR-F6626(LF1352)	SWITCHING REGULATOR	SIG/POWER
29	I902	CP05431	ANALOG MONOLITHIC IC (TLP621F D4-GRL)	OPTO. ISOLATOR	SIG/POWER
30	I903	CP05431	ANALOG MONOLITHIC IC (TLP621F D4-GRL)	OPTO ISOLATOR	SIG/POWER
31	I904	CP05431	ANALOG MONOLITHIC IC (TLP621F D4-GRL)	OPTO. ISOLATOR	SIG/POWER
32	I905	CP03926F	SI-8051S ANALOG MONOLITHIC IC	+ 7V VOLTAGE REGULATOR	SIG/POWER
33	I906	CP03923F	ANALOG MONOLITHIC 1C (SI-80903)	+1 1V VOLTAGE REGULATOR	SIG/POWER
34	I907	CP03922F	ANALOG MONOLITHIC 1C (SI-80503)	+5V VOLTAGE REGULATOR	SIG/POWER
35	I908	CP03924F	ICSI-8120S	+1 2V VOLTAGE REGULATOR	SIG/POWER
36	IA01	CP00871U	DIGITAL MONOLITHIC 1C (M62393P)	DIGITAL ANALOG CONVERTER 1C	SURROUND
37	IA02	CP02601	AN5285K	DIGITAL ANALOG CONVERTER 1C	SURROUND
38	IA03	CP06951U	1C NJM2198L	DIGITAL ANALOG CONVERTER 1C	SURROUND
39	IA05	CP06931U	1C BD3867S	DIGITAL ANALOG CONVERTER 1C	SURROUND
40	IC01	2004751	1C TA8200AH	AUDIO AMPLIFIER	SURROUND
41	IH02	CP07091	1C M62501P	HIGH VOLTAGE DETECT/REGULATOR	DEFLECTION
42	IP01	CZ00865	STR-F6629B(LF1351)	SWITCHING REGULATOR 1C	DEFLECTION
43	IP02	CP05141	ANALOG MONOLITHIC 1C (PQ6RD083)	VOLTAGE REGULATOR 1C (HEATER)	DEFLECTION
44	IP03	2381345	IC SE140N	+B REGULATOR 1C	DEFLECTION
45	IP04	CP05431	ANALOG MONOLITHIC IC (TLP621F D4-GRL)	OPTO. ISOLATOR 1C	DEFLECTION
46	IX01	CP05662U	ICTA1298AN	RGB PROCESSOR 1C	2H VIDEO
47	IX02	CK32711R	1C BA7609F	YBCRC/YIQ SELECTOR 1C	2H VIDEO
48	U201	HC00311	TUNER UNIT V6-A30FT	MAIN TUNER	SIGNAL
49	U202	HC00401	FRONT END V8-A68CT	TUNER	SIGNAL
50	U204	HP01061	KC-301SE(3DYC SEP UNIT)	3D Y/C UNIT	SIGNAL
51	U205	CS00491	FC UNIT ASY (HC5611)	FLEX CONV. UNIT (4:3)	SIGNAL

Replacement Parts List

PLEASE USE THE SCROLL BAR TO THE RIGHT TO BROWSE THE PARTS LIST

ABBREVIATIONS		
Capacitors:	Resistor:	Semiconductors:
CD: Ceramic Disc	CF: Carbon Film	TR: Transistor
PF: Polyester Film	CC: Carbon Composition	DI: Diode
EL: Electrolytic	MF: Metal Oxide Film	ZD: Zener Diode
PP: Polypropylene	VR: Variable Resistor	VA: Varistor
PR: Paper	WW: Wire Wound	TH: Thermistor
TA: Tantalum	FR: Fuse Resistor	IC: Integrated Circuit
TM: Trimmer	MG: Metal Glaze	SMD : Surface Mount Component
MC: Mylar		

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
C001	0800326R	CAP.-EL. 100UF-M 16V	C035	0228042R	CAP 2125SMD 33PFJCH 50V TAPE
C002	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C036	0228042R	CAP 2125SMD 33PFJCH 50V TAPE
C003	0800326R	CAP.-EL. 100UF-M 16V	C037	0228042R	CAP 2125SMD 33PFJCH 50V TAPE
C004	0893053R	CAP2125SMD 47000PFKB 50V TAPE	C038	0228042R	CAP 2125SMD 33PFJCH 50V TAPE
C005	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C039	0893038R	CAP 2125SMD 3900PFKB 50V TAPE
C006	0800361N	CAP.-EL 1000UF 16V	C040	0893044R	CAP2125SMD 10000PFKB 50V TAPE
C007	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C041	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
C008	0800326R	CAP.-EL. 100UF-M 16V	C042	0284623R	CAP.-EL. 1UF-SME(BP) 50V
C009	0800291R	CAP.-EL. 10UF-M(SMG) 16V	C043	0893031R	CAP 2125SMD 1000PFKB 50V TAPE
C010	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C044	0800315R	CAP.-EL. 47UF-M(SMG) 6.3V
C011	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C045	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
C012	0800359R	CAP.-EL. 1000UF-M 10V	C046	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
C013	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C047	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
C014	0800326R	CAP.-EL. 100UF-M 16V	C048	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
C015	0800317R	CAP.-EL. 47UF-M(SMG) 16V	C049	0893035R	CAP2125SMD 2200PFKB 50V TAPE
C016	0800326R	CAP.-EL. 100UF-M 16V	C050	0893035R	CAP2125SMD 2200PFKB 50V TAPE
C017	0800325R	CAP.-EL. 100UF-M 10V	C051	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C018	0800315R	CAP.-EL. 47UF-M(SMG) 6.3V	C052	0893044R	CAP2125SMD 10000PFKB 50V TAPE
C019	0800324R	CAP.-EL. 100UF-M(SMG) 6.3V	C053	0893044R	CAP2125SMD 10000PFKB 50V TAPE
C020	0800324R	CAP.-EL. 100UF-M(SMG) 6.3V	C054	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C021	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C055	0893053R	CAP2125SMD 47000PFKB 50V TAPE
C022	0800324R	CAP.-EL. 100UF-M(SMG) 6.3V	C056	0800326R	CAP.-EL. 100UF-M 16V
C023	0800324R	CAP.-EL. 100UF-M(SMG) 6.3V	C057	0800291R	CAP.-EL. 10UF-M(SMG) 16V
C024	0800324R	CAP.-EL. 100UF-M(SMG) 6.3V	C058	0800317R	CAP.-EL. 47UF-M(SMG) 16V
C025	0800324R	CAP.-EL. 100UF-M(SMG) 6.3V	C059	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C026	0893044R	CAP2125SMD 10000PFKB 50V TAPE	C060	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C027	0228770R	CAP SMD 470PF-J SL 50V TAPE	C061	0284623R	CAP.-EL. 1UF-SME(BP) 50V
C028	0228054R	CAP 2125 SMD 100PF-J CH 50V TAPE	C062	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C029	0228058R	CAP 2125 SMD 150PF-J CH 50V TAPE	C064	0800317R	CAP.-EL. 47UF-M(SMG) 16V
C030	0228070R	CAP 2125 SMD 470PF-J CH 50V TAPE	C065	0228066R	CAP 2125 SMD 330PF-J CH 50V TAPE
C031	0893035R	CAP2125SMD 2200PFKB 50V TAPE	C068	0800326R	CAP.-EL. 100UF-M 16V
C032	0800291R	CAP.-EL. 10UF-M(SMG) 16V	C069	0800326R	CAP.-EL. 100UF-M 16V
C033	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C070	0800326R	CAP.-EL. 100UF-M 16V
C034	0800324R	CAP.-EL. 100UF-M(SMG) 6.3V	C072	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
			C074	0800326R	CAP.-EL. 100UF-M 16V

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
C075	0800291R	CAP.-EL. 10UF-M(SMG) 16V	C233	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C076	0800317R	CAP.-EL. 47UF-M(SMG) 16V	C234	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V
C079	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C235	0893044R	CAP2125SMD 10000PFKB 50V TAPE
C080	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C236	0893035R	CAP2125SMD 2200PFKB 50V TAPE
C081	0800326R	CAP.-EL. 100UF-M 16V	C237	0800273R	CAP.-EL 0.22UF-M 50V
C082	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C238	0228032R	CAP 2125SMD 12PFJCH 50V TAPE
C083	0800324R	CAP.-EL. 100UF-M(SMG) 6.3V	C239	0800316R	CAP.-EL. 47UF-M(SMG) 10V
C084	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C240	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C085	0800317R	CAP.-EL. 47UF-M(SMG) 16V	C241	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C092	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	C242	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C093	0800351R	CAP.-EL. 470UF-M 6.3V	C243	0800326R	CAP.-EL. 100UF-M 16V
C094	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C244	0800325R	CAP.-EL. 100UF-M 10V
C096	0880062R	CAP.-POLYESTER 0.22UF-KEB 50V	C245	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C098	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C246	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C099	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C247	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C0A1	0893031R	CAP 2125SMD 1000PFKB 50V TAPE	C251	0800326R	CAP.-EL. 100UF-M 16V
C0A2	0893031R	CAP 2125SMD 1000PFKB 50V TAPE	C252	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C102	0228772R	CAP2125SMD 560PFJSL 50V TAPE	C261	0284665R	CAP.-EL. 47UF-MBPR(SME)6.3V
C103	0890082R	CAP.-CERAMIC 390PF-K 50V	C262	0284665R	CAP.-EL. 47UF-MBPR(SME)6.3V
C104	0890082R	CAP.-CERAMIC 390PF-K 50V	C263	0284665R	CAP.-EL. 47UF-MBPR(SME)6.3V
C105	0890082R	CAP.-CERAMIC 390PF-K 50V	C264	0284665R	CAP.-EL. 47UF-MBPR(SME)6.3V
C202	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C265	0284665R	CAP.-EL. 47UF-MBPR(SME)6.3V
C203	0800317R	CAP.-EL. 47UF-M(SMG) 16V	C266	0284665R	CAP.-EL. 47UF-MBPR(SME)6.3V
C205	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C267	0228070R	CAP 2125 SMD 470PF-J CH 50V TAPE
C206	0800361N	CAP.-EL 1000UF 16V	C268	0800317R	CAP.-EL. 47UF-M(SMG) 16V
C207	0893053R	CAP2125SMD 47000PFKB 50V TAPE	C269	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C208	0800361N	CAP.-EL 1000UF 16V	C270	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C209	0800291R	CAP.-EL. 10UF-M(SMG) 16V	C271	0800291R	CAP.-EL. 10UF-M(SMG) 16V
C211	0800317R	CAP.-EL. 47UF-M(SMG) 16V	C272	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C214	0800361N	CAP.-EL 1000UF 16V	C273	0800291R	CAP.-EL. 10UF-M(SMG) 16V
C215	0893053R	CAP2125SMD 47000PFKB 50V TAPE	C274	0800291R	CAP.-EL. 10UF-M(SMG) 16V
C216	0800358R	CAP.-EL. 1000UF-M 6.3V	C275	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C217	0800358R	CAP.-EL. 1000UF-M 6.3V	C277	0800324R	CAP.-EL. 100UF-M(SMG) 6.3V
C219	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C279	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C220	0800326R	CAP.-EL. 100UF-M 16V	C280	0893044R	CAP2125SMD 10000PFKB 50V TAPE
C221	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	C281	0893044R	CAP2125SMD 10000PFKB 50V TAPE
C222	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	C282	0893044R	CAP2125SMD 10000PFKB 50V TAPE
C223	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	C283	0800352R	CAP.-EL.470UF 10V
C224	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	C284	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C225	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	C285	0800352R	CAP.-EL.470UF 10V
C226	0800326R	CAP.-EL. 100UF-M 16V	C286	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C227	0893044R	CAP2125SMD 10000PFKB 50V TAPE	C288	0800291R	CAP.-EL. 10UF-M(SMG) 16V
C228	0228048R	CAP 2125 SMD 56PF-J CH 50V TAPE	C290	0228772R	CAP2125SMD 560PFJSL 50V TAPE
C229	0893044R	CAP2125SMD 10000PFKB 50V TAPE	C295	0228044R	CAP 2125SMD 39PFJCH 50V TAPE
C231	0893039R	CAP 2125SMD 4700PFKB 50V TAPE	C3Z1	0284665R	CAP.-EL. 47UF-MBPR(SME)6.3V
C232	0800282R	CAP.-EL. 2.2UF-M(SMG) 50V	C3Z2	AA00931R	CAP. CERAMIC 2012 (1UF 10V)

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
C401	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C450	0800282R	CAP.-EL. 2.2UF-M(SMG) 50V
C402	0800291R	CAP.-EL. 10UF-M(SMG) 16V	C451	0893039R	CAP 2125SMD 4700PFKB 50V TAPE
C403	0893062R	CAP2125SMD 1000000PFZF16V TAPE	C462	0800326R	CAP.-EL. 100UF-M 16V
C404	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C463	0800291R	CAP.-EL. 10UF-M(SMG) 16V
C405	0800317R	CAP.-EL. 47UF-M(SMG) 16V	C464	0800291R	CAP.-EL. 10UF-M(SMG) 16V
C406	0800326R	CAP.-EL. 100UF-M 16V	C465	0800291R	CAP.-EL. 10UF-M(SMG) 16V
C407	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C466	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C408	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C493	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C409	0893044R	CAP2125SMD 10000PFKB 50V TAPE	C494	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
C410	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C495	0800326R	CAP.-EL. 100UF-M 16V
C411	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C505	0893044R	CAP2125SMD 10000PFKB 50V TAPE
C412	0800291R	CAP.-EL. 10UF-M(SMG) 16V	C506	0893044R	CAP2125SMD 10000PFKB 50V TAPE
C413	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	C507	0893044R	CAP2125SMD 10000PFKB 50V TAPE
C414	0893062R	CAP2125SMD 1000000PFZF16V TAPE	C562	0800291R	CAP.-EL. 10UF-M(SMG) 16V
C415	0893062R	CAP2125SMD 1000000PFZF16V TAPE	C601	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE
C416	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	C602	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE
C419	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	C604	0800338R	CAP.EL.220UF-M 50V(SMG)
C420	0893062R	CAP2125SMD 1000000PFZF16V TAPE	C605	0800328R	CAP. EL. 100UF-M 35V
C421	0893062R	CAP2125SMD 1000000PFZF16V TAPE	C606	0800317R	CAP.-EL. 47UF-M(SMG) 16V
C422	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	C609	0880198R	CAP.-PLOY. 0.22UF-J 50V
C423	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C610	0800282R	CAP.-EL. 2.2UF-M(SMG) 50V
C424	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	C611	0284825F	CAP.-EL.3300UF-M 35V
C425	0893062R	CAP2125SMD 1000000PFZF16V TAPE	C612	AN00615R	CAP.POLYESTER 0.0022UF 50V TAPE
C426	0893062R	CAP2125SMD 1000000PFZF16V TAPE	C613	0800308R	CAP.-EL. 33UF-M(SMG) 16V
C427	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	C614	0880198R	CAP.-PLOY. 0.22UF-J 50V
C428	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C619	0800317R	CAP.-EL. 47UF-M(SMG) 16V
C429	0800317R	CAP.-EL. 47UF-M(SMG) 16V	C620	AN00624R	CAP.POLY 0.01UF 50V TAPE
C430	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C651	0800326R	CAP.-EL. 100UF-M 16V
C431	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	C655	0880198R	CAP.-PLOY. 0.22UF-J 50V
C432	0893062R	CAP2125SMD 1000000PFZF16V TAPE	C656	0244501R	CAP.-CERAMIC 1000PF-K 500V
C433	0893062R	CAP2125SMD 1000000PFZF16V TAPE	C657	0244507R	CAP.-CERAMIC 3300PF-KB B 500V
C434	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	 C658	0299977F	CAP-PP FILM 0.0047UF-F 630V
C435	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	 C659	0299977F	CAP-PP FILM 0.0047UF-F 630V
C436	0800352R	CAP.-EL.470UF 10V	 C660	0299974F	CAP.-PP 0.0027UF-630V
C437	0800291R	CAP.-EL. 10UF-M(SMG) 16V	C661	0259471	CAP.-EL 6.8UF-M (BP) 50V
C438	0800291R	CAP.-EL. 10UF-M(SMG) 16V	C662	0259471	CAP.-EL 6.8UF-M (BP) 50V
C439	0800352R	CAP.-EL.470UF 10V	C663	AN00624R	CAP.POLY 0.01UF 50V TAPE
C440	0893044R	CAP2125SMD 10000PFKB 50V TAPE	C702	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C441	0800317R	CAP.-EL. 47UF-M(SMG) 16V	C703	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
C443	AA00931R	CAP. CERAMIC 2012 (1UF 10V)	C704	AN00624R	CAP.POLY 0.01UF 50V TAPE
C444	0800316R	CAP.-EL. 47UF-M(SMG) 10V	C706	AN00624R	CAP.POLY 0.01UF 50V TAPE
C445	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	C707	0890074R	CAP.-CERAMIC 100PF-J 50V
C446	0228032R	CAP 2125SMD 12PFJCH 50V TAPE	C708	0890074R	CAP.-CERAMIC 100PF-J 50V
C447	0800273R	CAP.-EL 0.22UF-M 50V	C709	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C448	0893035R	CAP2125SMD 2200PFKB 50V TAPE	C718	0244505R	CAP-CERAMIC 0.0022UF-K 500V
C449	0800282R	CAP.-EL. 2.2UF-M(SMG) 50V	C719	0244505R	CAP-CERAMIC 0.0022UF-K 500V

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
C720	AN00624R	CAP.POLY 0.01UF 50V TAPE	C824	AN00615R	CAP.POLYESTER 0.0022UF 50V TAPE
C721	0880194R	CAP.-POLYESTER 0.1UF-J 50V	C825	0880062R	CAP.-POLYESTER 0.22UF-KEB 50V
C722	0880194R	CAP.-POLYESTER 0.1UF-J 50V	C826	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE
C723	0880203R	CAP.-POLYESTER 0.47UF-J 50V	C827	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE
C724	0880207R	CAP.-POLYESTER 1.0UF-J 50V	C828	AJ00001R	CAP.CERAMIC 0.01UF-Z 500V
C725	0880012R	MYLAR CAPACITOR 0.022U	C829	AJ00001R	CAP.CERAMIC 0.01UF-Z 500V
C726	AN00624R	CAP.POLY 0.01UF 50V TAPE	C832	AN00624R	CAP.POLY 0.01UF 50V TAPE
C727	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	C833	AN00624R	CAP.POLY 0.01UF 50V TAPE
C729	0890074R	CAP.-CERAMIC 100PF-J 50V	C834	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE
C730	0890074R	CAP.-CERAMIC 100PF-J 50V	△ C901	AN01445S	ACROSS CAPA 0.22UF 250V RE224
C731	AN00624R	CAP.POLY 0.01UF 50V TAPE	C902	AN01443S	ACROSS CAPA 0.1UF 250V RE104
C732	0880207R	CAP.-POLYESTER 1.0UF-J 50V	△ C903	AJ00195F	CAP. CERAMIC CK45-F2EA472ZYNN
C742	0244202R	CAP. CERAMIC DE0907R471K2K	△ C904	AJ00195F	CAP. CERAMIC CK45-F2EA472ZYNN
C743	0244202R	CAP. CERAMIC DE0907R471K2K	C905	AL01741	CAP.ALUMI.250V 220UF KMH(M)
C752	0244501R	CAP.-CERAMIC 1000PF-K 500V	C906	AL01741	CAP.ALUMI.250V 220UF KMH(M)
C753	0244501R	CAP.-CERAMIC 1000PF-K 500V	C907	0800345R	CAP.-EL. 330UF-M(SMG) 25V
C754	AL01724	CAP.ALUMI.160V 390UF KMH(M)	C908	0800329R	CAP.-EL. 100UF-M(SMG) 50V
C755	0880194R	CAP.-POLYESTER 0.1UF-J 50V	C909	0299616F	CAPACITOR-PP FILM 0.0033UF-J 630V
C756	0890081R	CAP.-CERAMIC 330PF 50V	C910	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
△ C758	AN01131F	METALLIZ PP FILM CAPACITOR0.0056UF	C911	0270425R	CAP.-POLY.1200PF 50V
△ C759	AN01133F	CAP.META.POLY FILM 0068UF	C913	AJ00184F	CAP. CERAMIC CD12-E2GA222MYNS
C762	AN01172F	CAPACITOR 0.27UF 250V METALLIZ PP	△ C914	AJ00182F	CAP. CERAMIC CD85-E2GA102MYNS
C763	AN01167F	CAPACITOR 0.18UF 250V METALLIZ PP	C915	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE
C767	0284677R	CAP.-EL. 100UF-M (BP) 16V	C918	AL01171S	CAP.EL.1000UF-M(YXF)50V
C768	0800294R	CAP.-EL. 10UF-M(SMG) 50V	C919	0880062R	CAP.-POLYESTER 0.22UF-KEB 50V
C769	0800323R	CAP.-EL. 47UF-M 100V	C921	0244105R	CAP.-CERAMIC 2200PF-K 50V TAPE
C773	0284634R	CAP.-EL 4.7UF-SME(BP) 50V	C922	0880009R	CAP.-POLYESTER 0.01UF-K 50V
C777	0244202F	CAP. CERAMIC DE0907R471K2K	C923	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE
C778	0880194R	CAP.-POLYESTER 0.1UF-J 50V	C924	0800338R	CAP.EL.220UF-M 50V(SMG)
C802	0800361N	CAP.-EL 1000UF 16V	C927	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE
C803	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE	C928	AL01171S	CAP.EL.1000UF-M(YXF)50V
C804	0800317R	CAP.-EL. 47UF-M(SMG) 16V	C931	0800346R	CAP.-EL 330UF 35V
C805	0890083R	CAP.-CERAMIC 470PF-K 50V	C932	AL01117S	CAP.EL.1000UF-M(YXF)10V
C807	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	C933	0284393F	CAP.EL.1000UF-M(KMF)10V
C808	AJ00001R	CAP.CERAMIC 0.01UF-Z 500V	C934	0800346R	CAP.-EL 330UF 35V
C811	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	C935	0284408F	CAP.-EL 1000UF 16V
C812	0890083R	CAP.-CERAMIC 470PF-K 50V	C936	0284408F	CAP.-EL 1000UF 16V
C813	AJ00001R	CAP.CERAMIC 0.01UF-Z 500V	C937	0800346R	CAP.-EL 330UF 35V
C815	0890078R	CAP.-CERAMIC 220PF-K 50V	C938	AL01106S	CAP.EL.2200UF-M(YXF)6.3V
C816	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	C939	0284377F	CAP.EL.1000UF-M(KMF)6.3V
C817	0244889R	CAP. CERAMIC DE1005B222K2K	C940	0800346R	CAP.-EL 330UF 35V
C818	0244881R	CAP. CERAMIC DE0405B101K2K	C941	AL01128R	CAP.EL.470UF-M(YXF)16V
C819	0299622F	CAPACITOR-PP FILM 0.01UF-J 630V	C942	0800353R	CAP.-EL.470UF-M 16V
C820	AL00031R	CAP.-EL. 33UF-M 250V	C947	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
C822	AN00615R	CAP.POLYESTER 0.0022UF 50V TAPE	C948	0800319R	CAP.-EL. 47UF-M 35V
C823	AN00615R	CAP.POLYESTER 0.0022UF 50V TAPE	C949	0800291R	CAP.-EL. 10UF-M(SMG) 16V

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
C950	0890087R	CAP.-CERAMIC 1000PF-K 50V	CA50	0893044R	CAP2125SMD 10000PFBK 50V TAPE
C951	0890087R	CAP.-CERAMIC 1000PF-K 50V	CA51	0800326R	CAP.-EL. 100UF-M 16V
C952	0890087R	CAP.-CERAMIC 1000PF-K 50V	CA52	0893053R	CAP2125SMD 47000PFBK 50V TAPE
C953	0890087R	CAP.-CERAMIC 1000PF-K 50V	CA53	0800291R	CAP.-EL. 10UF-M(SMG) 16V
C955	0880198R	CAP.-PLOY. 0.22UF-J 50V	CA54	0284638R	CAP.-EL. 10UF-SME(BP) 16V
C956	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CA55	0893025R	CAP 2125SMD 68000PFBK 25V TAPE
CA01	0800335R	CAP.-EL. 220UF-M(SMG) 16V	CA56	0893031R	CAP 2125SMD 1000PFBK 50V TAPE
CA02	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	CA57	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
CA03	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	CA58	0800286R	CAP.-EL. 4.7UF-M(SMG) 25V
CA04	0800324R	CAP.-EL. 100UF-M(SMG) 6.3V	CA59	0284638R	CAP.-EL. 10UF-SME(BP) 16V
CA05	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CA60	0893025R	CAP 2125SMD 68000PFBK 25V TAPE
CA08	0284634R	CAP.-EL. 4.7UF-SME(BP) 50V	CA61	0893031R	CAP 2125SMD 1000PFBK 50V TAPE
CA09	0800288R	CAP.-EL. 4.7UF-M(SMG) 50V	CA62	0800291R	CAP.-EL. 10UF-M(SMG) 16V
CA10	0800326R	CAP.-EL. 100UF-M 16V	CA63	0800286R	CAP.-EL. 4.7UF-M(SMG) 25V
CA11	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CA64	0800286R	CAP.-EL. 4.7UF-M(SMG) 25V
CA12	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CA65	0800286R	CAP.-EL. 4.7UF-M(SMG) 25V
CA13	0284634R	CAP.-EL. 4.7UF-SME(BP) 50V	CA66	0800286R	CAP.-EL. 4.7UF-M(SMG) 25V
CA14	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CA83	0284638R	CAP.-EL. 10UF-SME(BP) 16V
CA15	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CA84	0800291R	CAP.-EL. 10UF-M(SMG) 16V
CA16	0893051R	CAP2125SMD 33000PFBK 50V TAPE	CA85	0800291R	CAP.-EL. 10UF-M(SMG) 16V
CA17	0893044R	CAP2125SMD 10000PFBK 50V TAPE	CA86	0284638R	CAP.-EL. 10UF-SME(BP) 16V
CA18	0893095R	CAP.SMD-CERAMIC 330000PF 16V TAPE	CA87	0800291R	CAP.-EL. 10UF-M(SMG) 16V
CA19	0880203R	CAP.-POLYESTER 0.47UF-J 50V	CA88	0800291R	CAP.-EL. 10UF-M(SMG) 16V
CA20	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CA89	0800326R	CAP.-EL. 100UF-M 16V
CA21	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CC01	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
CA22	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	CC02	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
CA23	0800326R	CAP.-EL. 100UF-M 16V	CC03	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
CA24	0800326R	CAP.-EL. 100UF-M 16V	CC04	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
CA25	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	CC05	0893031R	CAP 2125SMD 1000PFBK 50V TAPE
CA26	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	CC06	0893031R	CAP 2125SMD 1000PFBK 50V TAPE
CA27	0893044R	CAP2125SMD 10000PFBK 50V TAPE	CC07	0800317R	CAP.-EL. 47UF-M(SMG) 16V
CA28	0893013R	CAP 2125 SMD 220000PF-KB 16V TAPE	CC08	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
CA29	0893039R	CAP 2125SMD 4700PFBK 50V TAPE	CC09	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
CA30	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	CC10	0800318R	CAP.-EL. 47UF-M 25V
CA31	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CC11	0800318R	CAP.-EL. 47UF-M 25V
CA32	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CC12	0800327R	CAP.-EL. 100UF-M 25V
CA40	0800288R	CAP.-EL. 4.7UF-M(SMG) 50V	CC13	0800327R	CAP.-EL. 100UF-M 25V
CA41	0800288R	CAP.-EL. 4.7UF-M(SMG) 50V	CC14	0800317R	CAP.-EL. 47UF-M(SMG) 16V
CA42	0893037R	CAP 2125SMD 3300PFBK 50V TAPE	CC15	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
CA43	0893051R	CAP2125SMD 33000PFBK 50V TAPE	CC16	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
CA44	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CC17	0800368N	CAP.-EL. 2200UF-M 25V
CA45	0893037R	CAP 2125SMD 3300PFBK 50V TAPE	CC18	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
CA46	0893051R	CAP2125SMD 33000PFBK 50V TAPE	CC19	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
CA47	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	CC20	0800368N	CAP.-EL. 2200UF-M 25V
CA48	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	CC21	0800368N	CAP.-EL. 2200UF-M 25V
CA49	0800361N	CAP.-EL 1000UF 16V	CC22	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CH07	0880194R	CAP.-POLYESTER 0.1UF-J 50V		0800291R	CAP.-EL. 10UF-M(SMG) 16V
 CH15	AN01119F	METALLIZ PP FILM CAPACITOR0.0022UF	CM94	0800291R	CAP.-EL. 10UF-M(SMG) 16V
CH16	0244507R	CAP.-CERAMIC 3300PF-KB B 500V	CM97	AN00624R	CAP.POLY 0.01UF 50V TAPE
CH17	AL01724	CAP.ALUMI.160V 390UF KMH(M)	CN03	AN00631R	CAP.POLYESTER 0.033UF 50V TAPE
CH21	0244139R	CAPACITOR-CERAMIC 1000PF-K B50V	CN04	0890084R	CAP.-CERAMIC 560PF-K 50V
CH25	0279693R	CAP.-POLYESTER FLM 0.1UF	 CP01	AJ00195F	CAP. CERAMIC CK45-F2EA472ZYNN
CH29	0800352R	CAP.-EL.470UF 10V	 CP02	AJ00195F	CAP. CERAMIC CK45-F2EA472ZYNN
CH30	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	CP03	AL01737	CAP.ALUMI.200V 680UF KMH(M)
CH31	0880198R	CAP.-PLOY. 0.22UF-J 50V	CP04	AL01737	CAP.ALUMI.200V 680UF KMH(M)
CH37	AN00618R	CAP.POLY 0.0039UF 50V TAPE	CP05	0800346R	CAP.-EL 330UF 35V
CH43	0800326R	CAP.-EL. 100UF-M 16V	CP06	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CH44	0890078R	CAP.-CERAMIC 220PF-K 50V	CP07	0890085R	CAP.-CERAMIC 680PF-K 50V
CH45	AN00624R	CAP.POLY 0.01UF 50V TAPE	CP09	0299616F	CAPACITOR-PP FILM 0.0033UF-J 630V
CH46	0800291R	CAP.-EL. 10UF-M(SMG) 16V	 CP10	AJ00182F	CAP. CERAMIC CD85-E2GA102MYNS
CH47	AN00613R	CAP.POLYESTER 0.0015UF 50V TAPE	CP11	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE
CH48	0800326R	CAP.-EL. 100UF-M 16V	CP12	0244202R	CAP. CERAMIC DE0907R471K2K
CH49	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	CP13	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE
CH50	0880198R	CAP.-PLOY. 0.22UF-J 50V	CP14	0284438F	CAP.-EL. 330UF-M 35V
CJG1	0800317R	CAP.-EL. 47UF-M(SMG) 16V	CP15	0244202R	CAP. CERAMIC DE0907R471K2K
CJG2	0800317R	CAP.-EL. 47UF-M(SMG) 16V	CP16	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE
CL01	0880016R	CAP.-POLYESTER FILM 0.1UF 50V	CP17	AL01153S	CAP.ELECTR. 1000UF-M 35V
CL02	0800329R	CAP.-EL. 100UF-M(SMG) 50V	CP18	0800328R	CAP. EL. 100UF-M 35V
CL04	0800294R	CAP.-EL. 10UF-M(SMG) 50V	CP20	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CL05	0880009R	CAP.-POLYESTER 0.01UF-K 50V	CP21	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
CL06	0880016R	CAP.-POLYESTER FILM 0.1UF 50V	CP22	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V
CL07	0800294R	CAP.-EL. 10UF-M(SMG) 50V	CP23	AL01749	CAP EL. 120UF 250V KMH(M)ALUMINIUM
CL08	0890067R	CAP.-CERAMIC 33PF-J 50V	CP24	0299610F	CAP.-POLYPRO.FILM 0.001UF 630V
CL09	AJ00001R	CAP.CERAMIC 0.01UF-Z 500V	CP25	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CL10	AJ00001R	CAP.CERAMIC 0.01UF-Z 500V	CP26	0800352R	CAP.-EL.470UF 10V
CL11	AN00619R	CAP.POLYESTER 0.0047UF 50V TAPE	CP27	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CL12	0800321R	CAP.-EL. 47UF-M 50V	CP28	0800328R	CAP. EL. 100UF-M 35V
CL13	0800321R	CAP.-EL. 47UF-M 50V	CP29	AL01129S	CAP.ELLYTIC 1000UF-M(YXF)16V
CL14	AL00028R	CAPACITOR EL. 100UF250V	CP31	0800326R	CAP.-EL. 100UF-M 16V
CL15	0246836R	CAP.CERAMIC 18PF 500V TAPE	CP33	AL01723	CAP. EL. 160V 330UF KMH(M)
CL16	0246836R	CAP.CERAMIC 18PF 500V TAPE	CP34	0800317R	CAP.-EL. 47UF-M(SMG) 16V
CL17	AL00032R	CAP.-EL. 47UF-M 250V	CP35	0800303R	CAP.-EL. 22UF-M 50V
CL18	0800294R	CAP.-EL. 10UF-M(SMG) 50V	CP36	0880198R	CAP.-PLOY. 0.22UF-J 50V
CL20	0890059R	CCL-9R0D500SLDFT-D3	CP38	0800355N	CAP.EL. 470UF-M 35V
CL21	0890059R	CCL-9R0D500SLDFT-D3	CP42	0800335R	CAP.-EL. 220UF-M(SMG) 16V
CL22	0890067R	CAP.-CERAMIC 33PF-J 50V	CP43	0800335R	CAP.-EL. 220UF-M(SMG) 16V
CM01	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	CP44	0800326R	CAP.-EL. 100UF-M 16V
CM02	0800291R	CAP.-EL. 10UF-M(SMG) 16V	CP45	0800361N	CAP.-EL 1000UF 16V
CM03	AN00624R	CAP.POLY 0.01UF 50V TAPE	CX01	0800317R	CAP.-EL. 47UF-M(SMG) 16V
CM04	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE	CX03	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
CM05	AN00624R	CAP.POLY 0.01UF 50V TAPE	CX08	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
CM92	0800317R	CAP.-EL. 47UF-M(SMG) 16V	CX09	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CX10	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	CX79	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
CX11	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	CX80	0800317R	CAP.-EL. 47UF-M(SMG) 16V
CX12	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	CX81	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
CX13	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	CX85	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE
CX14	0800282R	CAP.-EL. 2.2UF-M(SMG) 50V			
CX15	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE			
CX17	0800282R	CAP.-EL. 2.2UF-M(SMG) 50V			
CX18	0800279R	CAP.-EL. 1.0UF-M(SMG) 50V	D001	2331849M	ZD HZ12C3 (TA) SI 500MW
CX19	0893044R	CAP2125SMD 10000PFKB 50V TAPE	D002	2331849M	ZD HZ12C3 (TA) SI 500MW
CX20	0800326R	CAP.-EL. 100UF-M 16V	D003	2331849M	ZD HZ12C3 (TA) SI 500MW
CX21	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D004	2331849M	ZD HZ12C3 (TA) SI 500MW
CX22	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D007	CH02001M	DIODE 1SR139-400
CX23	0800326R	CAP.-EL. 100UF-M 16V	D008	2344041M	DIODE 1SS254TA/1SS270TA
CX25	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D009	2344041M	DIODE 1SS254TA/1SS270TA
CX27	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D010	2331849M	ZD HZ12C3 (TA) SI 500MW
CX31	0800291R	CAP.-EL. 10UF-M(SMG) 16V	D012	2344041M	DIODE 1SS254TA/1SS270TA
CX32	0800317R	CAP.-EL. 47UF-M(SMG) 16V	D014	CH02001M	DIODE 1SR139-400
CX33	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D015	CH02001M	DIODE 1SR139-400
CX34	0284634R	CAP.-EL 4.7UF-SME(BP) 50V	D016	CH02001M	DIODE 1SR139-400
CX35	0800324R	CAP.-EL. 100UF-M(SMG) 6.3V	D017	2331827M	ZD DIODE HZ-9 TAPE (C1)
CX36	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D018	2331827M	ZD DIODE HZ-9 TAPE (C1)
CX37	0893044R	CAP2125SMD 10000PFKB 50V TAPE	D020	2344041M	DIODE 1SS254TA/1SS270TA
CX38	0893044R	CAP2125SMD 10000PFKB 50V TAPE	D023	2344041M	DIODE 1SS254TA/1SS270TA
CX39	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D024	2344041M	DIODE 1SS254TA/1SS270TA
CX40	0800326R	CAP.-EL. 100UF-M 16V	D025	2344041M	DIODE 1SS254TA/1SS270TA
CX43	0800326R	CAP.-EL. 100UF-M 16V	D026	2344041M	DIODE 1SS254TA/1SS270TA
CX44	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D027	2344041M	DIODE 1SS254TA/1SS270TA
CX45	0284638R	CAP.-EL. 10UF-SME(BP) 16V	D028	2344041M	DIODE 1SS254TA/1SS270TA
CX47	0284638R	CAP.-EL. 10UF-SME(BP) 16V	D029	2344041M	DIODE 1SS254TA/1SS270TA
CX49	0284638R	CAP.-EL. 10UF-SME(BP) 16V	D030	2344041M	DIODE 1SS254TA/1SS270TA
CX51	0284638R	CAP.-EL. 10UF-SME(BP) 16V	D031	2344041M	DIODE 1SS254TA/1SS270TA
CX53	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D032	CH02001M	DIODE 1SR139-400
CX57	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D034	2344041M	DIODE 1SS254TA/1SS270TA
CX59	0893062R	CAP2125SMD 1000000PFZF16V TAPE	D035	2331779M	ZD DIODE HZ3C3
CX60	0893062R	CAP2125SMD 1000000PFZF16V TAPE	D036	2331849M	ZD HZ12C3 (TA) SI 500MW
CX61	0893062R	CAP2125SMD 1000000PFZF16V TAPE	D037	2331809M	ZD DIODE HZ-6 TAPE (C3) SI 500MW
CX62	0893062R	CAP2125SMD 1000000PFZF16V TAPE	D038	2344041M	DIODE 1SS254TA/1SS270TA
CX63	0800326R	CAP.-EL. 100UF-M 16V	D201	2335991M	ZD HZ-T33 (02 TP)
CX64	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D202	2335991M	ZD HZ-T33 (02 TP)
CX65	0800317R	CAP.-EL. 47UF-M(SMG) 16V	D203	2331849M	ZD HZ12C3 (TA) SI 500MW
CX66	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D205	2344041M	DIODE 1SS254TA/1SS270TA
CX69	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D206	2344041M	DIODE 1SS254TA/1SS270TA
CX70	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D601	2339983M	ZD HZS36-3 TA
CX73	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D603	CH02021M	DIODE 1SS133 T-72
CX74	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D604	CH02001M	DIODE 1SR139-400
CX78	0893027R	CAP 2125 SMD 100000PF-K B 25V TAPE	D607	2339981M	ZD HZS36-1 TA

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
D608	2339981M	ZD HZS36-1 TA	D820	2338321M	DIODE 1SS270 (TA)
D615	2344041M	DIODE 1SS254TA/1SS270TA	D821	2338321M	DIODE 1SS270 (TA)
D653	2344041M	DIODE 1SS254TA/1SS270TA	D822	2338321M	DIODE 1SS270 (TA)
D654	CH02011M	DIODE 1SR153-400	D823	2338321M	DIODE 1SS270 (TA)
D655	CH02011M	DIODE 1SR153-400	D824	2338321M	DIODE 1SS270 (TA)
 D656	2349861	DIODE FMU-G16S	D825	2348432M	DIODE RMPG06G
 D657	2349861	DIODE FMU-G16S	D826	2348432M	DIODE RMPG06G
D661	CH02011M	DIODE 1SR153-400	D827	2348432M	DIODE RMPG06G
D702	2339882M	ZD DIODE HZS-12(A2) TAPE	D828	2348432M	DIODE RMPG06G
D706	2344041M	DIODE 1SS254TA/1SS270TA	D830	2339153M	ZD DIODE HZS12(C3L)
D731	2339839M	ZD HZS5C3 TAPE	D831	2338321M	DIODE 1SS270 (TA)
D732	2339882M	ZD DIODE HZS-12(A2) TAPE	D832	2338321M	DIODE 1SS270 (TA)
D733	2339882M	ZD DIODE HZS-12(A2) TAPE	D833	2338321M	DIODE 1SS270 (TA)
D734	2339882M	ZD DIODE HZS-12(A2) TAPE	D834	2338321M	DIODE 1SS270 (TA)
D735	2339882M	ZD DIODE HZS-12(A2) TAPE	D835	2338321M	DIODE 1SS270 (TA)
D736	2339882M	ZD DIODE HZS-12(A2) TAPE	D836	2338321M	DIODE 1SS270 (TA)
D737	2339882M	ZD DIODE HZS-12(A2) TAPE	D837	2338321M	DIODE 1SS270 (TA)
D751	2344041M	DIODE 1SS254TA/1SS270TA	D838	2338321M	DIODE 1SS270 (TA)
 D752	CH02161	DIODE FMQ-G2FLS (1500V)	D839	2348432M	DIODE RMPG06G
D753	2339551M	DIODE ED14(V1) SI 5MA 45V	D840	2348432M	DIODE RMPG06G
D753	2344041M	DIODE 1SS254TA/1SS270TA	D841	2348432M	DIODE RMPG06G
D754	2339952M	ZD DIODE HZS27.2 TA	D842	2348432M	DIODE RMPG06G
D755	2339826M	ZD HZS4B3 TAPE	D843	2338321M	DIODE 1SS270 (TA)
D756	2344041M	DIODE 1SS254TA/1SS270TA	D844	2338321M	DIODE 1SS270 (TA)
D759	CH02001M	DIODE 1SR139-400	D845	2338321M	DIODE 1SS270 (TA)
D760	CH02011M	DIODE 1SR153-400	D846	2338321M	DIODE 1SS270 (TA)
D762	2339882M	ZD DIODE HZS-12(A2) TAPE	D847	2338321M	DIODE 1SS270 (TA)
D801	2339153M	ZD DIODE HZS12(C3L)	D848	2338321M	DIODE 1SS270 (TA)
D802	2338321M	DIODE 1SS270 (TA)	D849	2338321M	DIODE 1SS270 (TA)
D803	2338321M	DIODE 1SS270 (TA)	D850	2344041M	DIODE 1SS254TA/1SS270TA
D804	2338321M	DIODE 1SS270 (TA)	D851	2344041M	DIODE 1SS254TA/1SS270TA
D805	2338321M	DIODE 1SS270 (TA)	D852	2344041M	DIODE 1SS254TA/1SS270TA
D806	2338321M	DIODE 1SS270 (TA)	 D901	2338313	DIODE RBV-406M (60V) SI 0.1USEC
D807	2338321M	DIODE 1SS270 (TA)	D902	CH02001M	DIODE 1SR139-400
D808	2338321M	DIODE 1SS270 (TA)	D903	CH00183R	LIGHT EMITTING DIODE (SLZ-981C-06-T1)
D809	2338321M	DIODE 1SS270 (TA)	D904	2334304M	ZD RD30E (B3 T2/TP/TA) SI 5MA 30.51V
D810	2348432M	DIODE RMPG06G	D905	CH02011M	DIODE 1SR153-400
D811	2348432M	DIODE RMPG06G	D906	2344041M	DIODE 1SS254TA/1SS270TA
D812	2348432M	DIODE RMPG06G	D908	2331795M	ZD HZ-5 (B2 TAPE) SI 200MA 4.9V
D813	2348432M	DIODE RMPG06G	D909	CH02001M	DIODE 1SR139-400
D814	2338321M	DIODE 1SS270 (TA)	D910	2337952S	DIODE RU4YX(LF015-302)
D815	2339153M	ZD DIODE HZS12(C3L)	D912	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)
D816	2338321M	DIODE 1SS270 (TA)	D914	CH02001M	DIODE 1SR139-400
D817	2338321M	DIODE 1SS270 (TA)	D915	2338532M	DIODE EG01A (V1)
D818	2338321M	DIODE 1SS270 (TA)	D917	CH02001M	DIODE 1SR139-400
D819	2338321M	DIODE 1SS270 (TA)	D918	2337952S	DIODE RU4YX(LF015-302)

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
D921	2339882M	ZD DIODE HZS-12(A2) TAPE	DC07	2344041M	DIODE 1SS254TA/1SS270TA
D922	CH02001M	DIODE 1SR139-400	DC08	2344041M	DIODE 1SS254TA/1SS270TA
D923	2339846M	ZD HZS6B3 TA	DC09	2344041M	DIODE 1SS254TA/1SS270TA
D926	CH01042M	DIODE RK34 (40V)	DC10	2344041M	DIODE 1SS254TA/1SS270TA
D927	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)	DC20	2344041M	DIODE 1SS254TA/1SS270TA
D928	2344041M	DIODE 1SS254TA/1SS270TA	DCZ9	2339867M	ZD HZS-9-C1 TAPE (SI.200MA)
D929	CH01042M	DIODE RK34 (40V)	DH01	2339839M	ZD HZS5C3 TAPE
D930	CH01042M	DIODE RK34 (40V)	DH08	2344041M	DIODE 1SS254TA/1SS270TA
D931	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)	DH11	2337361F	DIODE RU4D LF-20
D932	2339852M	ZD HZS7-A2 TA	DH15	2344041M	DIODE 1SS254TA/1SS270TA
D933	2344041M	DIODE 1SS254TA/1SS270TA	DH17	CH02001M	DIODE 1SR139-400
D934	CH01042M	DIODE RK34 (40V)	DH20	CH02001M	DIODE 1SR139-400
D935	2339892M	DIODE (HZS15-2TA)	DH21	2344041M	DIODE 1SS254TA/1SS270TA
D936	2344041M	DIODE 1SS254TA/1SS270TA	 DH24	CH00031M	DIODE AU02V1(280V)
D938	2339875M	ZD HZS11B2 TA	DH25	2339862M	ZD HZS-9A2 TA
D941	2339892M	DIODE (HZS15-2TA)	DH26	2339863M	ZD HZS9A3 TA
D942	2339836M	ZD HZS-5 B3	DH27	2344041M	DIODE 1SS254TA/1SS270TA
D943	CH02001M	DIODE 1SR139-400	DH28	2339831M	ZD HZS5 A1 TA SI 400MW 5V
D944	CH02001M	DIODE 1SR139-400	DH30	2344041M	DIODE 1SS254TA/1SS270TA
D945	2344041M	DIODE 1SS254TA/1SS270TA	 DH31	2335042M	ZD HZ-22 (2L TP) SI 200MA 400MW
D946	2344041M	DIODE 1SS254TA/1SS270TA	DH33	2334305M	ZD RD30E (B4 T2/TP/TA) SI 5MA 30.51V
D947	2339861M	ZD HZS-9 A1	DH40	2344041M	DIODE 1SS254TA/1SS270TA
D948	2344041M	DIODE 1SS254TA/1SS270TA	DH41	2334243M	ZD RD16E (B2 T2/TP/TA) SI 10MA 16.51V
D949	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)	DH42	2334315M	ZD DIODE RD33E TAPE (B4)
D950	2339836M	ZD HZS-5 B3	DH43	2339802M	ZD DIODE HZS2B2 TAPE
D951	2344041M	DIODE 1SS254TA/1SS270TA	DH44	2339839M	ZD HZS5C3 TAPE
D952	2344041M	DIODE 1SS254TA/1SS270TA	DH47	2344041M	DIODE 1SS254TA/1SS270TA
D953	2344041M	DIODE 1SS254TA/1SS270TA	DH80	2344041M	DIODE 1SS254TA/1SS270TA
D954	2344041M	DIODE 1SS254TA/1SS270TA	DJG1	2339843M	ZD HZS-6 A3 (SI 200MA)
D955	2344041M	DIODE 1SS254TA/1SS270TA	DL02	2337341M	DIODE 1SS270A (TP)
D956	2339836M	ZD HZS-5 B3	DL03	2337341M	DIODE 1SS270A (TP)
D957	2344041M	DIODE 1SS254TA/1SS270TA	DL04	2331913M	DIODE 1SS83 (TAPE)
D958	2339821M	ZD HZS4A1 TA	DL05	2331913M	DIODE 1SS83 (TAPE)
D959	2344041M	DIODE 1SS254TA/1SS270TA	DL06	2331913M	DIODE 1SS83 (TAPE)
D960	2339817M	ZD HZS3C1 TA	DL07	2331913M	DIODE 1SS83 (TAPE)
D961	CH02001M	DIODE 1SR139-400	DL08	2339889M	ZD HZS12 (C3) 0.005A
DA03	CH00151M	DIODE DSM1SD2(200V)TAPE	DM01	2339869M	ZD HZS9C3 TA
DA04	2344041M	DIODE 1SS254TA/1SS270TA	DM02	CH00231	LED SLH-56VC3F
DA08	2344041M	DIODE 1SS254TA/1SS270TA	DM91	2339889M	ZD HZS12 (C3) 0.005A
DA15	2331771M	ZD HZ-3A1 TAPE	DM92	2339889M	ZD HZS12 (C3) 0.005A
DA16	2331771M	ZD HZ-3A1 TAPE	DM93	2339889M	ZD HZS12 (C3) 0.005A
DC02	2344041M	DIODE 1SS254TA/1SS270TA	DM94	2339889M	ZD HZS12 (C3) 0.005A
DC03	2344041M	DIODE 1SS254TA/1SS270TA	DN04	2344041M	DIODE 1SS254TA/1SS270TA
DC04	2344041M	DIODE 1SS254TA/1SS270TA	DN05	2339825M	ZD DIODE HZS-4 TAPE (B2) SI 400MW 3.9V
DC05	2344041M	DIODE 1SS254TA/1SS270TA	DN06	2344041M	DIODE 1SS254TA/1SS270TA
DC06	2344041M	DIODE 1SS254TA/1SS270TA	DN12	2344041M	DIODE 1SS254TA/1SS270TA

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
DN13	2344041M	DIODE 1SS254TA/1SS270TA			FUSE & PROTECTOR
 DP01	2338313	DIODE RBV-406M (60V) SI 0.1USEC	 E992	AZ00109M	PROTECTOR CRXT491007
DP02	CH02001M	DIODE 1SR139-400	 E994	AZ00108M	PROTECTOR(CRXT491005)
DP03	CH02011M	DIODE 1SR153-400	EH01	AZ00101M	PROTECTOR(CRXT491.500)
DP04	2334324M	ZD DIODE RD36E TAPE (B3) SI 500MW 36V	 EP92	AZ00107M	PROTECTOR CRXT491004
DP05	2331844M	ZD HZ12-B1	 EP93	AZ00101M	PROTECTOR(CRXT491.500)
DP07	CH02011M	DIODE 1SR153-400	 EP94	AZ00109M	PROTECTOR CRXT491007
DP08	2359312	DIODE RU3C (1000V)	 EP96	AZ00421M	PROTECTOR 491010T52
DP09	2337952S	DIODE RU4YX(LF015-302)	EP97	AZ00106M	PROTECTOR CRXT491003
DP11	CH01061F	DIODE RU4AM(600V)	 EP98	AZ00106M	PROTECTOR CRXT491003
DP12	2337952S	DIODE RU4YX(LF015-302)	 F901	FN00291	FUSE 125V 8A
DP13	2336614	DIODE RU3YX	 F902	2722358	FUSE AC05A
DP14	2339881M	ZD HZS12A1 TA	FE91	2721351	FUSE HOLDER
DP15	2339961M	ZD HZS30-1 TA	FE92	2721351	FUSE HOLDER
DP16	2344041M	DIODE 1SS254TA/1SS270TA	 FP01	2722358	FUSE AC05A
DP17	2339857M	ZD HZS7C1 SI			COMPOUND COMPONENTS
DP18	2344041M	DIODE 1SS254TA/1SS270TA	U201	HC00311	TUNER UNIT V6-A30FT
DP21	2344041M	DIODE 1SS254TA/1SS270TA	U202	HC00401	FRONT-END V8-A68CT
DP22	2344041M	DIODE 1SS254TA/1SS270TA	U204	HP01061	KC-301SE(3DYC SEP UNIT)
DP26	CH02001M	DIODE 1SR139-400	U205	CS00491	FC UNIT ASY (HC5611)
DP27	2339847M	ZD HZS6C1 TA	HM01	CZ00641	GP1U281Q
DP28	2344041M	DIODE 1SS254TA/1SS270TA	EANT	HP00771	ANT SW.
DP29	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)			INTEGRATED CIRCUITS
DP30	CH02001M	DIODE 1SR139-400			
DP31	CH00041M	DIODE ES1FV1 (1500V)	I001	CP07791U	U-CON
DP32	CH00041M	DIODE ES1FV1 (1500V)	I002	CK32542R	DIGITAL MONOLITHIC IC (M24C16-WMN6T)
DP33	CH02001M	DIODE 1SR139-400	I003	CK31071R	IC CXA1875AM
DP34	2344041M	DIODE 1SS254TA/1SS270TA	I004	CK31071R	IC CXA1875AM
DP35	CH02001M	DIODE 1SR139-400	I005	CK31992R	IC BU4053BCF
DP36	CH02001M	DIODE 1SR139-400	I006	CP06941R	IC PST994I
DP37	CH00183R	LIGHT EMITTING DIODE (SLZ-981C-06-T1)	I007	CP05572	IC BA17809
DX03	2344041M	DIODE 1SS254TA/1SS270TA	I008	CP05571	IC BA17805
DX05	2344041M	DIODE 1SS254TA/1SS270TA	I009	CP05163F	IC SI-3090F
DX06	2344041M	DIODE 1SS254TA/1SS270TA	I010	CP05162F	IC SI-3050F
DX07	2344041M	DIODE 1SS254TA/1SS270TA	I011	CP06581U	IC LF25CV
DX08	2344041M	DIODE 1SS254TA/1SS270TA	I012	CP04232	ANALOG MONOLITHIC IC BA033T
DX09	2344041M	DIODE 1SS254TA/1SS270TA	I014	CK34051R	IC TC74HCT245AF
DX10	2344041M	DIODE 1SS254TA/1SS270TA	I016	2004781	ICL-LA7213
DX11	2331849M	ZD HZ12C3 (TA) SI 500MW	I201	CK07923U	IC TA1270BF
DX12	2331849M	ZD HZ12C3 (TA) SI 500MW	I202	CK31992R	IC BU4053BCF
DX13	2331849M	ZD HZ12C3 (TA) SI 500MW	I203	2015452R	IC HD74HC04FPEL
DX15	2344041M	DIODE 1SS254TA/1SS270TA	I205	CK08521R	ANALOG MONOLITHIC IC (BA7657F-E2)
DX16	2344041M	DIODE 1SS254TA/1SS270TA	I207	2004781	ICL-LA7213
DX18	2348212M	ZD DIODE MTZ-J15B	I401	CK30941U	IC CXA2069Q
DZ01	2344041M	DIODE 1SS254TA/1SS270TA			

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
I402	CW00022	COMB FILTER (337KNT)	L211	BH00697R	FILTER COIL 100UH
I403	CK07923U	IC TA1270BF	L212	2123781R	FILTER COIL 100UH(EL0607)
I601	CP07081	IC AN5539N	L214	BH00697R	FILTER COIL 100UH
I701	CP06551	IC TA1300AN	L215	BH00697R	FILTER COIL 100UH
I702	CP07801U	TA1317AN	L216	2123781R	FILTER COIL 100UH(EL0607)
 I901	CZ00864	IC STR-F6626(LF1352)	L217	2123781R	FILTER COIL 100UH(EL0607)
 I902	CP05431	ANALOG MONOLITHIC IC (TLP621F D4-GRL)	L295	2123411M	AXIAL COIL 1.0UH-K TYPE LAL02
 I903	CP05431	ANALOG MONOLITHIC IC (TLP621F D4-GRL)	L401	BH00697R	FILTER COIL 100UH
 I904	CP05431	ANALOG MONOLITHIC IC (TLP621F D4-GRL)	L402	BH00697R	FILTER COIL 100UH
I905	CP03926F	SI-8051S ANALOG MONOLITHIC IC	L403	BH00697R	FILTER COIL 100UH
I906	CP03923F	ANALOG MONOLITHIC IC (SI-8090S)	L404	BH00697R	FILTER COIL 100UH
I907	CP03922F	IC SI-8050S	L405	BH00697R	FILTER COIL 100UH
I908	CP03924F	IC SI-8120S	L406	BH00697R	FILTER COIL 100UH
IA01	CP00871U	DIGITAL MONOLITHIC IC (M62393P)	L408	BH00697R	FILTER COIL 100UH
IA02	CP02601	AN5285K	L601	BH00204R	FILTER COIL 18UH
IA03	CP06951U	IC NJM2198L	L602	2122652M	FERRITE CORE
IA04	CP05351	ANALOG MONOLITHIC IC NJM2150D	L651	BZ00841	CHOKE COIL 150UH SL1720
IA05	CP06931U	IC BD3867S	L652	BH01301	HC-331K-1
IC01	2004751	IC TA8200AH	L661	BH01342M	COIL FERRITE BEADS 2.3UH
IH02	CP07091	IC M62501P	L662	BH01342M	COIL FERRITE BEADS 2.3UH
 IP01	CZ00865	STR-F6629B(LF1351)	L701	BH00697R	FILTER COIL 100UH
IP02	CP05141	ANALOG MONOLITHIC IC (PQ6RD083)	L707	BZ04611	HORIZONTAL LINEARITY COIL 6UH
 IP03	2381345	IC SE140N	L708	BH01681	COIL SL1415-330K2R5
 IP04	CP05431	ANALOG MONOLITHIC IC (TLP621F D4-GRL)	L708	BH01682	COIL SL1415-101K2R5
IX01	CP05662U	IC TA1298AN	L751	BH00217R	FILTER COIL 180UH
IX02	CK32711R	IC BA7609F-E2	L758	BH00228R	COIL 332K-1T7608A
COILS			L771	BH01341M	COIL FERRITE BEADS 0.8UH
L001	BH00697R	FILTER COIL 100UH	L772	BH01341M	COIL FERRITE BEADS 0.8UH
L002	BH00697R	FILTER COIL 100UH	L773	BH01341M	COIL FERRITE BEADS 0.8UH
L003	BJ00402	30MHZ BAND PASS LC FILTER 87F2	L801	BH00214R	FILTER COIL 100UH
L004	2123781R	FILTER COIL 100UH(EL0607)	L802	BH00676R	COIL 2.7UH
L005	BH00697R	FILTER COIL 100UH	L803	BH00676R	COIL 2.7UH
L006	BH00697R	FILTER COIL 100UH	L804	BH00678R	COIL 3.9UH
L007	BH00697R	FILTER COIL 100UH	L805	BH00679R	COIL 4.7UH
L008	BH00697R	FILTER COIL 100UH	L806	BH00673R	COIL 1.5UH
L201	BH00697R	FILTER COIL 100UH	L807	BH00676R	COIL 2.7UH
L202	2123781R	FILTER COIL 100UH(EL0607)	L808	BH00676R	COIL 2.7UH
L203	BH00697R	FILTER COIL 100UH	L809	BH00678R	COIL 3.9UH
L204	BH00697R	FILTER COIL 100UH	L810	BH00679R	COIL 4.7UH
L205	2123781R	FILTER COIL 100UH(EL0607)	L811	BH00676R	COIL 2.7UH
L206	BH00697R	FILTER COIL 100UH	L812	BH00676R	COIL 2.7UH
L207	2123112M	COIL-AXIAL 47UH-K	L813	BH00676R	COIL 2.7UH
L208	BH00697R	FILTER COIL 100UH	L814	BH00678R	COIL 3.9UH
L209	BH00697R	FILTER COIL 100UH	L815	BH00679R	COIL 4.7UH
L210	2123781R	FILTER COIL 100UH(EL0607)	L816	BH00676R	COIL 2.7UH
			 L901	2274556	LINE FILTER-LL (333Y1R5-02)

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
 L902	2274556	LINE FILTER-LL (333Y1R5-02)	LX04	BH00697R	FILTER COIL 100UH
 L903	2274556	LINE FILTER-LL (333Y1R5-02)	LX05	BH00697R	FILTER COIL 100UH
 L904	BZ01841	LX-LINE FILTER(102)	LX06	BH00697R	FILTER COIL 100UH
 L905	BZ01841	LX-LINE FILTER(102)	LX07	BH00697R	FILTER COIL 100UH
L906	BH01342M	COIL FERRITE BEADS 2.3UH	LX08	BH00697R	FILTER COIL 100UH
L907	BH01342M	COIL FERRITE BEADS 2.3UH	LX09	BH00697R	FILTER COIL 100UH
L908	BH01341M	COIL FERRITE BEADS 0.8UH	LX16	BH00697R	FILTER COIL 100UH
L909	BH01341M	COIL FERRITE BEADS 0.8UH			
L910	BH01342M	COIL FERRITE BEADS 2.3UH			
L912	BH00201R	FILTER COIL 10UH	Q001	2325781R	2SA1037KT146(Q/R TYPE)
L914	BH00201R	FILTER COIL 10UH	Q002	2320647M	TRS. 2SC1213 (C/D)
L915	BV00891	PL-CHOPPER COIL 200UH/3A	Q003	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
L916	BH00201R	FILTER COIL 10UH	Q004	2320647M	TRS. 2SC1213 (C/D)
L917	BH00201R	FILTER COIL 10UH	Q005	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
L918	BV00901	PL-CHOPPER COIL 200UH/2A	Q006	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
L919	BH00207R	FILTER COIL 33UH	Q007	2325781R	2SA1037KT146(Q/R TYPE)
L920	BV00891	PL-CHOPPER COIL 200UH/3A	Q008	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
L921	BH00207R	FILTER COIL 33UH	Q009	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
L922	BH00207R	FILTER COIL 33UH	Q014	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
L923	BV00901	PL-CHOPPER COIL 200UH/2A	Q015	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
L927	BH00207R	FILTER COIL 33UH	Q016	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
L928	BH00211R	FILTER COIL 56UH	Q017	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LA01	BH00697R	FILTER COIL 100UH	Q018	2325781R	2SA1037KT146(Q/R TYPE)
LA02	BH00697R	FILTER COIL 100UH	Q019	2325781R	2SA1037KT146(Q/R TYPE)
LC01	2122652M	FERRITE CORE	Q021	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LC02	2122652M	FERRITE CORE	Q022	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LH01	BH00204R	FILTER COIL 18UH	Q023	2325781R	2SA1037KT146(Q/R TYPE)
 LH02	BH00214R	FILTER COIL 100UH	Q024	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LH03	BH00217R	FILTER COIL 180UH	Q029	2312171	TRS. 2SC3852
LL01	2123781R	FILTER COIL 100UH(EL0607)	Q030	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LL02	2123468M	FERRITE BEADS CORE LEAD 0.8MH	Q031	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LL03	2123416M	LAL AXIAL COIL 2.7UH-K	Q034	2325781R	2SA1037KT146(Q/R TYPE)
LL04	2123416M	LAL AXIAL COIL 2.7UH-K	Q035	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LP01	BH01342M	COIL FERRITE BEADS 2.3UH	Q038	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LP02	BH01342M	COIL FERRITE BEADS 2.3UH	Q039	2325781R	2SA1037KT146(Q/R TYPE)
LP03	BH01341M	COIL FERRITE BEADS 0.8UH	Q040	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LP04	BH01341M	COIL FERRITE BEADS 0.8UH	Q046	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LP05	BH00214R	FILTER COIL 100UH	Q201	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LP06	BH00214R	FILTER COIL 100UH	Q202	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LP07	BH00212R	FILTER COIL 68UH	Q203	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LP09	BH00212R	FILTER COIL 68UH	Q204	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LP10	BH00206R	FILTER COIL 27UH	Q205	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LP11	BH00212R	FILTER COIL 68UH	Q206	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
LP12	BH00217R	FILTER COIL 180UH	Q207	2320647M	TRS. 2SC1213 (C/D)
LX01	BH00697R	FILTER COIL 100UH	Q208	2325781R	2SA1037KT146(Q/R TYPE)
LX03	BH00697R	FILTER COIL 100UH	Q209	2325691R	TRS SMD 2SC2412K(Q/R TYPE)

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
Q210	2325781R	2SA1037KT146(Q/R TYPE)	Q418	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
Q211	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q419	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
Q212	CA11264R	TRS.-SMD DTC114EKA	Q420	2325781R	2SA1037KT146(Q/R TYPE)
Q213	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q421	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
Q214	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q422	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
Q215	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q423	2325781R	2SA1037KT146(Q/R TYPE)
Q216	2325781R	2SA1037KT146(Q/R TYPE)	Q424	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
Q217	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q443	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
Q220	2325781R	2SA1037KT146(Q/R TYPE)	Q444	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
Q221	2325781R	2SA1037KT146(Q/R TYPE)	Q445	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
Q222	2325781R	2SA1037KT146(Q/R TYPE)	Q446	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
Q223	2325781R	2SA1037KT146(Q/R TYPE)	Q607	2322511	TRS.2SD669A (C TYPE)
Q224	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q608	2322521	TRS.2SB649A (C TYPE)
Q226	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q609	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW
Q227	2325781R	2SA1037KT146(Q/R TYPE)	Q610	2320637M	TRS. 2SA673 (C26TZ/D26TZ)SI 80MHZ 400MW
Q228	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q654	2320591M	TRS. 2SC458 (B TZ/C TZ)
Q229	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q655	2323522M	TRS. 2SD789 (E TYPE)
Q230	2325781R	2SA1037KT146(Q/R TYPE)	Q656	2323531R	TRS. 2SB740(B/C TYPE)
Q231	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q657	2312282	TRS 2SC4160(M)
Q232	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q701	2326873R	TRS. DTC144ES TP
Q233	2325781R	2SA1037KT146(Q/R TYPE)	Q702	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW
Q234	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q705	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW
Q235	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q751	2326216	TRS. 2SC3116 (S/T)
Q236	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q754	2320637M	TRS. 2SA673 (C26TZ/D26TZ)SI 80MHZ 400MW
Q237	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q755	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW
Q239	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	△ Q777	CF01891F	TRS. 2SC5413
Q240	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q804	2327471	TRANSISTOR 2SC3950-HIT
Q3V1	2325781R	2SA1037KT146(Q/R TYPE)	Q805	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW
Q3Z1	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q806	2312372F	TRS-2SC3942
Q3Z2	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q807	2312772	TRS.2SA1546 (M/L)
Q401	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q808	2312371	TRS. 2SC3942
Q402	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q809	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW
Q403	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q810	2327471	TRANSISTOR 2SC3950-HIT
Q404	2325781R	2SA1037KT146(Q/R TYPE)	Q811	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW
Q405	2325781R	2SA1037KT146(Q/R TYPE)	Q812	2312372F	TRS-2SC3942
Q406	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q813	2312772	TRS.2SA1546 (M/L)
Q407	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q814	2312371	TRS. 2SC3942
Q408	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q815	2327471	TRANSISTOR 2SC3950-HIT
Q409	2320647M	TRS. 2SC1213 (C/D)	Q816	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW
Q410	2320647M	TRS. 2SC1213 (C/D)	Q817	2312372F	TRS-2SC3942
Q411	2320647M	TRS. 2SC1213 (C/D)	Q818	2312772	TRS.2SA1546 (M/L)
Q412	2325781R	2SA1037KT146(Q/R TYPE)	Q819	2312371	TRS. 2SC3942
Q413	2325781R	2SA1037KT146(Q/R TYPE)	△ Q901	2323782R	THYRISTOR 03P2M
Q414	2325781R	2SA1037KT146(Q/R TYPE)	Q902	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW
Q416	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	Q903	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW
Q417	2325781R	2SA1037KT146(Q/R TYPE)	△ Q905	2323782R	THYRISTOR 03P2M

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
Q908	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW	QX07	2325781R	2SA1037KT146(Q/R TYPE)
Q909	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX08	2325781R	2SA1037KT146(Q/R TYPE)
Q910	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW	QX09	2325781R	2SA1037KT146(Q/R TYPE)
Q911	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW	QX13	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
Q912	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX15	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
Q913	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW	QX16	2325781R	2SA1037KT146(Q/R TYPE)
QA03	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	QX17	2325781R	2SA1037KT146(Q/R TYPE)
QA07	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	QX18	2325781R	2SA1037KT146(Q/R TYPE)
QA08	CA11271R	TRS 2SA1037AK T146 RS	QX21	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
QA09	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	QX22	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
QA10	CA11271R	TRS 2SA1037AK T146 RS	QX23	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
QA11	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	QX24	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
QA12	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	QX25	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
QC01	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	QX26	2325781R	2SA1037KT146(Q/R TYPE)
QC02	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	QX27	2325781R	2SA1037KT146(Q/R TYPE)
QC03	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	QX31	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QC04	2325691R	TRS SMD 2SC2412K(Q/R TYPE)	QX32	2325781R	2SA1037KT146(Q/R TYPE)
 QH01	CF02541	TRS GT8Q101	QX36	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QH07	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX37	2325781R	2SA1037KT146(Q/R TYPE)
QH08	2320663M	TRS. 2SC1213A (C)	QX41	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QH80	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX42	2325781R	2SA1037KT146(Q/R TYPE)
QJG1	2320647M	TRS. 2SC1213 (C/D)	QX46	2320647M	TRS. 2SC1213 (C/D)
QL01	2327772M	TRS.2SC3413 TAPE (B/C)	QX52	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
QL02	2327772M	TRS.2SC3413 TAPE (B/C)	QX53	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
QL03	2327772M	TRS.2SC3413 TAPE (B/C)	QX54	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
QL04	2327772M	TRS.2SC3413 TAPE (B/C)	QX55	2325691R	TRS SMD 2SC2412K(Q/R TYPE)
QL05	2327772M	TRS.2SC3413 TAPE (B/C)			
QL06	2327772M	TRS.2SC3413 TAPE (B/C)			
QL07	2325715M	TRS.2SA933S (Q/R)	R001	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
QL08	2315381	TRS. 2SA1837	R002	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
QL09	2315391	TRS. 2SC4793	R003	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
QL10	2326821	TRANSISTOR 2SA1371 E/F	R004	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
QL11	2327772M	TRS.2SC3413 TAPE (B/C)	R006	0195250R	RES 2125 SMD JUMPER WIRE
QM01	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW	R007	0195929R	RES 2125 SMD 1/16W 15K-J TAPE
QM02	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW	R008	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
QM03	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW	R009	0195943R	RES.2125 SMD 1/16W 56K-J TAPE
QM04	2320647M	TRS. 2SC1213 (C/D)	R010	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
QM91	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW	R011	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
QM92	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW	R013	0195941R	RES.2125 SMD 1/16W 47K-J TAPE
QN03	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW	R014	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
QN04	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	R015	0195250R	RES 2125 SMD JUMPER WIRE
QN05	2320591M	TRS. 2SC458 (B TZ/C TZ)SI 230MHZ200MW	R016	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
 QP01	2323782R	THYRISTOR 03P2M	R017	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
QP02	2321112M	TRS.2SA778AK(02 TAPE)	R018	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
QP03	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	R019	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
QP04	2327461	TRS.2SA1488 (Y/G)	R020	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R021	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	R080	0195918R	RES 2125 SMD 1/16W 5.6K-J TAPE
R022	0196858R	RES 2125SMD 1/10W 56-F TAPE	R081	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R023	0196900R	RES 2125SMD 1/16W3.3K-F TAPE	R082	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R024	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R083	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R025	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	R084	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R026	0195250R	RES 2125 SMD JUMPER WIRE	R085	0195912R	RES 2125 SMD 1/16W 3.3K-J TAPE
R028	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	R086	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R029	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R087	0195879R	RES 2125 SMD 1/16W 150-J TAPE
R031	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R088	0195912R	RES 2125 SMD 1/16W 3.3K-J TAPE
R035	0700027M	RES.-CARBON FLM 1/16W 100-JB	R089	0195881R	RES 2125 SMD 1/16W 180-J TAPE
R036	0700027M	RES.-CARBON FLM 1/16W 100-JB	R090	0195881R	RES 2125 SMD 1/16W 180-J TAPE
R037	0195918R	RES 2125 SMD 1/16W 5.6K-J TAPE	R091	0195881R	RES 2125 SMD 1/16W 180-J TAPE
R038	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R092	0195868R	RES.MINI-SMD RMC1/10 56-J TAPE
R039	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	R093	0195868R	RES.MINI-SMD RMC1/10 56-J TAPE
R040	0195918R	RES 2125 SMD 1/16W 5.6K-J TAPE	R094	0195868R	RES.MINI-SMD RMC1/10 56-J TAPE
R041	0195927R	RES 2125 SMD 1/16W 12K-J TAPE	R095	0195893R	RES 2125 SMD 1/16W 560-J TAPE
R042	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	R096	0195889R	RES.2125 SMD 1/10W 390-J TAPE
R043	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R097	0195902R	RES 2125 SMD 1/16W 1.2K-J TAPE
R044	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R098	0195933R	RES.2125 SMD 1/16W 22K-J TAPE
R045	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R099	0195933R	RES.2125 SMD 1/16W 22K-J TAPE
R046	0195943R	RES.2125 SMD 1/16W 56K-J TAPE	ROA2	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R047	0195947R	RES.2125 SMD 1/10W 82K-J TAPE	ROA8	0195941R	RES.2125 SMD 1/16W 47K-J TAPE
R048	0195881R	RES 2125 SMD 1/16W 180-J TAPE	ROA9	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R049	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	ROC0	0195960R	RES.2125 SMD 1/16W 270K-J TAPE
R050	0195933R	RES.2125 SMD 1/16W 22K-J TAPE	ROC1	0195941R	RES.2125 SMD 1/16W 47K-J TAPE
R051	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	ROC2	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R053	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	ROC5	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R056	0195250R	RES 2125 SMD JUMPER WIRE	ROC6	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R057	0700027M	RES.-CARBON FLM 1/16W 100-JB	ROC7	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R058	0700027M	RES.-CARBON FLM 1/16W 100-JB	ROC8	0195950R	RES 2125 SMD 1/16W 100K-J TAPE
R059	0700027M	RES.-CARBON FLM 1/16W 100-JB	R100	0700027M	RES.-CARBON FLM 1/16W 100-JB
R060	0195912R	RES 2125 SMD 1/16W 3.3K-J TAPE	R101	0700027M	RES.-CARBON FLM 1/16W 100-JB
R061	0195918R	RES 2125 SMD 1/16W 5.6K-J TAPE	R102	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R065	0195918R	RES 2125 SMD 1/16W 5.6K-J TAPE	R103	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE
R066	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R104	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R069	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R105	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R070	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R106	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R071	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R107	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R072	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R109	0195916R	RES.2125 SMD 1/16W 4.7K-J TAPE
R073	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R110	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
R074	0195975R	RMC73S-2A105JR	R111	0195937R	RES.2125 SMD 1/16W 33K-J TAPE
R075	0195918R	RES 2125 SMD 1/16W 5.6K-J TAPE	R112	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R076	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R113	0195250R	RES 2125 SMD JUMPER WIRE
R077	0195918R	RES 2125 SMD 1/16W 5.6K-J TAPE	R116	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R078	0700032M	RES.-CARBON FLM 1/16W 220-JB	R117	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R079	0195918R	RES 2125 SMD 1/16W 5.6K-J TAPE	R126	0195956R	RES.SMD 1/16W 180K-J TAPE

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R129	0700027M	RES.-CARBON FLM 1/16W 100-JB	R181	0195912R	RES 2125 SMD 1/16W 3.3K-J TAPE
R130	0195918R	RES 2125 SMD 1/16W 5.6K-J TAPE	R184	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R131	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R186	0700027M	RES.-CARBON FLM 1/16W 100-JB
R132	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R187	0195893R	RES 2125 SMD 1/16W 560-J TAPE
R133	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R188	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R134	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R189	0114149M	RES-CARBON FLM SRD 1/4 PF 560-J
R136	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R190	0195916R	RES.2125 SMD 1/16W 4.7K-J TAPE
R137	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R191	0195933R	RES.2125 SMD 1/16W 22K-J TAPE
R138	0700032M	RES.-CARBON FLM 1/16W 220-JB	R192	0195927R	RES 2125 SMD 1/16W 12K-J TAPE
R140	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R193	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R141	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R194	0700063M	RES.-CARBON FLM 1/16W 47K-JB
R142	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R195	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R143	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	R196	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R144	0195918R	RES 2125 SMD 1/16W 5.6K-J TAPE	R197	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R145	0195960R	RES.2125 SMD 1/16W 270K-J TAPE	R198	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R146	0700027M	RES.-CARBON FLM 1/16W 100-JB	R199	0700027M	RES.-CARBON FLM 1/16W 100-JB
R147	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1C1	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R148	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1C2	0195941R	RES.2125 SMD 1/16W 47K-J TAPE
R149	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R1C3	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R150	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R1C4	0195887R	RES 2125 SMD 1/16W 330-J TAPE
R151	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R1C5	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R152	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R1C6	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R153	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1C7	0700027M	RES.-CARBON FLM 1/16W 100-JB
R154	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1C8	0700027M	RES.-CARBON FLM 1/16W 100-JB
R155	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1C9	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R156	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1E1	0195893R	RES 2125 SMD 1/16W 560-J TAPE
R157	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1E2	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R158	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R1E3	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R160	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R1E4	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R161	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R1E5	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R162	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R1F1	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R163	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R1F2	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R166	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R1F4	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R167	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R1F5	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R169	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R201	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R170	0700027M	RES.-CARBON FLM 1/16W 100-JB	R202	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R171	0195960R	RES.2125 SMD 1/16W 270K-J TAPE	R203	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R172	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R204	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R173	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	R205	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R174	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R206	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R175	0195918R	RES 2125 SMD 1/16W 5.6K-J TAPE	R207	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R176	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	R208	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R177	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R209	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R178	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R210	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R179	0195937R	RES.2125 SMD 1/16W 33K-J TAPE	R212	0195895R	RES.2125 SMD 1/10W 680-J TAPE
R180	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R213	0196888R	RES 2125SMD 1/10W1.0K-F TAPE

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R216	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R278	0195941R	RES.2125 SMD 1/16W 47K-J TAPE
R217	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R279	0195941R	RES.2125 SMD 1/16W 47K-J TAPE
R219	0700038M	RES.-CARBON FLM 1/16W 680-JB	R280	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R220	0196888R	RES 2125SMD 1/10W1.0K-F TAPE	R281	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R221	0195250R	RES 2125 SMD JUMPER WIRE	R282	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R223	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R283	0700027M	RES.-CARBON FLM 1/16W 100-JB
R224	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R284	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R225	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	R286	0195897R	RES 2125 SMD 1/16W 820-J TAPE
R226	0195933R	RES.2125 SMD 1/16W 22K-J TAPE	R292	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R227	0195939R	RES.2125 SMD 1/16W 39K-J TAPE	R293	0700027M	RES.-CARBON FLM 1/16W 100-JB
R228	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	R294	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R230	0195916R	RES.2125 SMD 1/16W 4.7K-J TAPE	R295	0700027M	RES.-CARBON FLM 1/16W 100-JB
R231	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	R296	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
R232	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R297	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE
R233	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R298	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
R234	0195916R	RES.2125 SMD 1/16W 4.7K-J TAPE	R299	0195250R	RES 2125 SMD JUMPER WIRE
R235	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	R301	0195250R	RES 2125 SMD JUMPER WIRE
R236	0195939R	RES.2125 SMD 1/16W 39K-J TAPE	R306	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R237	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	R307	0700027M	RES.-CARBON FLM 1/16W 100-JB
R238	0195922R	RES 2125 SMD 1/16W 8.2K-J TAPE	R308	0195966R	RES 2125 SMD 1/16W 470KJ TAPE
R243	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R309	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R244	0195891R	RES 2125 SMD 1/16W 470-J TAPE	R310	0195943R	RES.2125 SMD 1/16W 56K-J TAPE
R245	0195889R	RES.2125 SMD 1/10W 390-J TAPE	R311	0195939R	RES.2125 SMD 1/16W 39K-J TAPE
R246	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE	R312	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R247	0195927R	RES 2125 SMD 1/16W 12K-J TAPE	R313	0195895R	RES.2125 SMD 1/10W 680-J TAPE
R248	0195929R	RES 2125 SMD 1/16W 15K-J TAPE	R314	0196890R	RES 2125SMD 1/10W1.2K-F TAPE
R249	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R315	0196892R	RES 2125SMD 1/16W1.5K-F TAPE
R250	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R316	0195895R	RES.2125 SMD 1/10W 680-J TAPE
R251	0195931R	RES 2125 SMD 1/16W 18K-J TAPE	R317	0195864R	RES MINI-SMD RMC1/10 39-J TAPE
R252	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R318	0195943R	RES.2125 SMD 1/16W 56K-J TAPE
R253	0195922R	RES 2125 SMD 1/16W 8.2K-J TAPE	R319	0195939R	RES.2125 SMD 1/16W 39K-J TAPE
R254	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R320	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R255	0196872R	RES 2125SMD 1/10W 220-F TAPE	R321	0195895R	RES.2125 SMD 1/10W 680-J TAPE
R256	0196872R	RES 2125SMD 1/10W 220-F TAPE	R322	0196890R	RES 2125SMD 1/10W1.2K-F TAPE
R257	0196880R	RES 2125SMD 1/10W 470-F TAPE	R323	0196892R	RES 2125SMD 1/16W1.5K-F TAPE
R258	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R324	0195895R	RES.2125 SMD 1/10W 680-J TAPE
R259	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R325	0195864R	RES MINI-SMD RMC1/10 39-J TAPE
R268	0195888R	RES.2125 SMD 1/10W 360-J TAPE	R326	0195943R	RES.2125 SMD 1/16W 56K-J TAPE
R269	0195911R	RES.2125 SMD 1/16W 3.0K-J TAPE	R327	0195939R	RES.2125 SMD 1/16W 39K-J TAPE
R270	0195936R	RES.2125 SMD 1/16W 30K-J TAPE	R328	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R271	0195250R	RES 2125 SMD JUMPER WIRE	R329	0195895R	RES.2125 SMD 1/10W 680-J TAPE
R273	0195250R	RES 2125 SMD JUMPER WIRE	R330	0196890R	RES 2125SMD 1/10W1.2K-F TAPE
R274	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R331	0196892R	RES 2125SMD 1/16W1.5K-F TAPE
R275	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R332	0195895R	RES.2125 SMD 1/10W 680-J TAPE
R276	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R333	0195864R	RES MINI-SMD RMC1/10 39-J TAPE
R277	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R334	0100059M	RES.-CARBON FLM 1/8W 560-JB

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R335	0100059M	RES.-CARBON FLM 1/8W 560-JB	R408	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R337	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R409	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R338	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R410	0196880R	RES 2125SMD 1/10W 470-F TAPE
R339	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R411	0196880R	RES 2125SMD 1/10W 470-F TAPE
R340	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R412	0196880R	RES 2125SMD 1/10W 470-F TAPE
R341	0195914R	RES 2125 SMD 1/16W 3.9K-J TAPE	R413	0196872R	RES 2125SMD 1/10W 220-F TAPE
R342	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE	R414	0196872R	RES 2125SMD 1/10W 220-F TAPE
R343	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R415	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R344	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R416	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R345	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R417	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R346	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R418	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R347	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R419	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R348	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R420	0196904R	RES 2125SMD 1/16W4.7K-F TAPE
R350	0196888R	RES 2125SMD 1/10W1.0K-F TAPE	R421	0196898R	RES 2125SMD 1/16W2.7K-F TAPE
R351	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R422	0196900R	RES 2125SMD 1/16W3.3K-F TAPE
R354	0700027M	RES.-CARBON FLM 1/16W 100-JB	R425	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R355	0196888R	RES 2125SMD 1/10W1.0K-F TAPE	R426	0196906R	RES 2125SMD 1/16W5.6K-F TAPE
R356	0195866R	RES 2125 SMD 1/16W 47J TAPE	R427	0196906R	RES 2125SMD 1/16W5.6K-F TAPE
R357	0195956R	RES.SMD 1/16W 180K-J TAPE	R428	0700027M	RES.-CARBON FLM 1/16W 100-JB
R358	0195883R	RES 2125 SMD 1/16W 220-J TAPE	R432	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R360	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R434	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R361	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R435	0196906R	RES 2125SMD 1/16W5.6K-F TAPE
R362	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R436	0196906R	RES 2125SMD 1/16W5.6K-F TAPE
R367	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R437	0196861R	RES 2125SMD 1/10W 75-F TAPE
R371	0195250R	RES 2125 SMD JUMPER WIRE	R438	0196946R	RES 2125SMD 1/16W270K-F TAPE
R372	0195250R	RES 2125 SMD JUMPER WIRE	R439	0196946R	RES 2125SMD 1/16W270K-F TAPE
R373	0195250R	RES 2125 SMD JUMPER WIRE	R440	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R3V1	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R441	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R3V2	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R442	0196861R	RES 2125SMD 1/10W 75-F TAPE
R3V3	0196924R	RES 2125SMD 1/16W 33K-F TAPE	R443	0196861R	RES 2125SMD 1/10W 75-F TAPE
R3Z1	0187038M	RES.-CARBON FLM 1/16W 75-J	R444	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R3Z2	0196861R	RES 2125SMD 1/10W 75-F TAPE	R445	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R3Z3	0196861R	RES 2125SMD 1/10W 75-F TAPE	R446	0196906R	RES 2125SMD 1/16W5.6K-F TAPE
R3Z4	0196932R	RES 2125SMD 1/16W 68K-F TAPE	R447	0196906R	RES 2125SMD 1/16W5.6K-F TAPE
R3Z5	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R448	0196861R	RES 2125SMD 1/10W 75-F TAPE
R3Z6	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R449	0196946R	RES 2125SMD 1/16W270K-F TAPE
R3Z7	0196924R	RES 2125SMD 1/16W 33K-F TAPE	R450	0196946R	RES 2125SMD 1/16W270K-F TAPE
R3Z8	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	R451	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R3Z9	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R452	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R401	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R453	0196861R	RES 2125SMD 1/10W 75-F TAPE
R402	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R454	0196861R	RES 2125SMD 1/10W 75-F TAPE
R403	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R455	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R404	0195891R	RES 2125 SMD 1/16W 470-J TAPE	R456	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R405	0195891R	RES 2125 SMD 1/16W 470-J TAPE	R457	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R406	0195891R	RES 2125 SMD 1/16W 470-J TAPE	R458	0196861R	RES 2125SMD 1/10W 75-F TAPE
R407	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R459	0700027M	RES.-CARBON FLM 1/16W 100-JB

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R460	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB	R516	0196892R	RES 2125SMD 1/16W1.5K-F TAPE
R461	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB	R517	0195895R	RES.2125 SMD 1/10W 680-J TAPE
R462	0700027M	RES.-CARBON FLM 1/16W 100-JB	R518	0195870R	RES.2125 SMD 1/10W 68-J TAPE
R463	0700027M	RES.-CARBON FLM 1/16W 100-JB	R519	0196930R	RES 2125SMD 1/16W 56K-F TAPE
R464	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R520	0195939R	RES.2125 SMD 1/16W 39K-J TAPE
R465	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R521	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R466	0196882R	RES 2125SMD 1/10W 560-F TAPE	R522	0196884R	RES 2125SMD 1/10W 680-F TAPE
R467	0196882R	RES 2125SMD 1/10W 560-F TAPE	R523	0196890R	RES 2125SMD 1/10W1.2K-F TAPE
R468	0196882R	RES 2125SMD 1/10W 560-F TAPE	R524	0196892R	RES 2125SMD 1/16W1.5K-F TAPE
R469	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R525	0195895R	RES.2125 SMD 1/10W 680-J TAPE
R470	0196882R	RES 2125SMD 1/10W 560-F TAPE	R526	0195870R	RES.2125 SMD 1/10W 68-J TAPE
R471	0196882R	RES 2125SMD 1/10W 560-F TAPE	R527	0196930R	RES 2125SMD 1/16W 56K-F TAPE
R472	0196882R	RES 2125SMD 1/10W 560-F TAPE	R528	0195939R	RES.2125 SMD 1/16W 39K-J TAPE
R473	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R529	0195875R	RES 2125 SMD 1/16W 100-J TAPE
R474	0196882R	RES 2125SMD 1/10W 560-F TAPE	R530	0196884R	RES 2125SMD 1/10W 680-F TAPE
R475	0196882R	RES 2125SMD 1/10W 560-F TAPE	R531	0196890R	RES 2125SMD 1/10W1.2K-F TAPE
R476	0196882R	RES 2125SMD 1/10W 560-F TAPE	R532	0196892R	RES 2125SMD 1/16W1.5K-F TAPE
R477	0196860R	RES 2125SMD 1/10W 68-F TAPE	R533	0195895R	RES.2125 SMD 1/10W 680-J TAPE
R478	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R534	0195870R	RES.2125 SMD 1/10W 68-J TAPE
R479	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	R586	0196861R	RES 2125SMD 1/10W 75-F TAPE
R480	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	R587	0196861R	RES 2125SMD 1/10W 75-F TAPE
R481	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	R593	0195941R	RES.2125 SMD 1/16W 47K-J TAPE
R482	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	R594	0195941R	RES.2125 SMD 1/16W 47K-J TAPE
R483	0196860R	RES 2125SMD 1/10W 68-F TAPE	R595	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R484	0196860R	RES 2125SMD 1/10W 68-F TAPE	R596	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R485	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	R597	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
R486	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	R598	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
R489	0195250R	RES 2125 SMD JUMPER WIRE	R599	0195922R	RES 2125 SMD 1/16W 8.2K-J TAPE
R490	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R601	0188098M	RES.-CARBON FLM 1/2W 3.9-JB
R491	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	R602	0188141M	RES.-CARBON FLM 1/2W 5.6K-JB
R492	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R603	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R493	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R604	0700037M	RES.-CARBON FLM 1/16W 560-JB
R494	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R605	0100053M	RES.-CARBON FLM 1/8W 330-JB
R495	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R608	0100053M	RES.-CARBON FLM 1/8W 330-JB
R496	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R609	AT03406S	METAL OX. 150OHM 2W
R497	0195910R	RES.2125 SMD 1/16W 2.7K-J TAPE	R610	0700034M	RES.-CARBON FLM 1/16W 330-JB
R498	0196898R	RES 2125SMD 1/16W2.7K-F TAPE	R611	0700057M	RES.-CARBON FLM 1/16W 18K-JB
R499	0196898R	RES 2125SMD 1/16W2.7K-F TAPE	R611	0700058M	RES.-CARBON FLM 1/16W 22K-JB
R500	0196923R	RES 2125SMD 1/16W 30K-F TAPE	R612	0700061M	RES.-CARBON FLM 1/16W 33K-JB
R501	0196899R	RES 2125SMD 1/16W3.0K-F TAPE	R613	0700058M	RES.-CARBON FLM 1/16W 22K-JB
R502	0195888R	RES.2125 SMD 1/10W 360-J TAPE	R613	0700059M	RES.-CARBON FLM 1/16W 27K-JB
R511	0196930R	RES 2125SMD 1/16W 56K-F TAPE	R614	0700034M	RES.-CARBON FLM 1/16W 330-JB
R512	0195939R	RES.2125 SMD 1/16W 39K-J TAPE	R615	0119731M	RES.-MTL 0X1DE 1W R68-K TAPE
R513	0195875R	RES 2125 SMD 1/16W 100-J TAPE	R616	0188104M	RES.-CARBON FLM 1/2W 10-JB
R514	0196884R	RES 2125SMD 1/10W 680-F TAPE	R617	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
R515	0196890R	RES 2125SMD 1/10W1.2K-F TAPE	R618	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R619	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	R751	0700034M	RES.-CARBON FLM 1/16W 330-JB
R645	0119731M	RES.-MTL OX1DE 1W R68-K TAPE	R752	0700032M	RES.-CARBON FLM 1/16W 220-JB
R646	0700054M	RES.-CARBON FLM 1/16W 10K-JB	R753	0110153S	RES.-MTL OXIDE FLM 2.2K-JS
R647	0700059M	RES.-CARBON FLM 1/16W 27K-JB	R754	AT03593S	METAL OX. 1.5KOHM 3W
R648	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R755	AT03597S	METAL OX. 222 OHM 3W
R663	0700056M	RES.-CARBON FLM 1/16W 15K-JB	R756	AT00435S	RES.MTL OXIDE FLM 2W 0.75 OHM
R664	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB	R757	AT00435S	RES.MTL OXIDE FLM 2W 0.75 OHM
R671	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	R758	0100031M	RES.-CARBON FLM 1/8W 39-JB
R673	0188117M	RES.-CARBON FLM 1/2W 100-JB	R766	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
R674	0188104M	RES.-CARBON FLM 1/2W 10-JB	R769	0700062M	RES.-CARBON FLM 1/16W 39K-JB
R675	AT03417S	METAL OX. 390OHM 2W	R770	0700067M	RES.-CARBON FLM 1/16W 100K-JB
R676	0700054M	RES.-CARBON FLM 1/16W 10K-JB	R771	0700059M	RES.-CARBON FLM 1/16W 27K-JB
R677	0700058M	RES.-CARBON FLM 1/16W 22K-JB	R772	0700059M	RES.-CARBON FLM 1/16W 27K-JB
R677	0700061M	RES.-CARBON FLM 1/16W 33K-JB	R773	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
R701	0187084M	RES.-CARBON FLM 1/16W 6.2K-JB	R775	0100085M	RES.-CARBON FLM 1/8W 6.8K-JB
R702	0187054M	RES.-CARBON FLM 1/16W 360-JB	R776	0700055M	RES.-CARBON FLM 1/16W 12K-JB
R703	0700027M	RES.-CARBON FLM 1/16W 100-JB	R777	0700032M	RES.-CARBON FLM 1/16W 220-JB
R704	0700027M	RES.-CARBON FLM 1/16W 100-JB	R778	0188122M	RES.-CARBON FLM 1/2W 220-J
R705	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	R780	AT03562S	METAL OX. 100OHM 3W
R706	0700058M	RES.-CARBON FLM 1/16W 22K-JB	R781	0188141M	RES.-CARBON FLM 1/2W 5.6K-JB
R707	0187054M	RES.-CARBON FLM 1/16W 360-JB	R788	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R708	0700048M	RES.-CARBON FLM 1/16W 3.9K-JB	R807	0188127M	RES.-CARBON FLM 560-JB 1/2W
R709	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB	R809	0700032M	RES.-CARBON FLM 1/16W 220-JB
R710	0700054M	RES.-CARBON FLM 1/16W 10K-JB	R811	0700018M	RES.-CARBON FLM 1/16W 22-J
R711	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	R812	0119561M	RES.-MTL FLM 1/8W 12-FB
R712	0700027M	RES.-CARBON FLM 1/16W 100-JB	R813	0700067M	RES.-CARBON FLM 1/16W 100K-JB
R713	0700027M	RES.-CARBON FLM 1/16W 100-JB	R814	0100063M	RES.-CARBON FLM 1/8W 820-JB
R714	0100065M	RES.-CARBON FLM 1/8W 1K-JB	R815	0144068	RES. WIRE WOUND 1.5K 7W
R715	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	R817	0100035M	RES.-CARBON FLM 1/8W 56-JB
R716	0700053M	RES.-CARBON FLM 1/16W 8.2K-JB	R818	0113725M	RES CARBON FLM SRD1/2P-B 100-J
R717	0188119M	RES.-CARBON FLM 150-J 1/2W	R819	0100035M	RES.-CARBON FLM 1/8W 56-JB
R719	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R821	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R720	0700063M	RES.-CARBON FLM 1/16W 47K-JB	R822	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R721	0700063M	RES.-CARBON FLM 1/16W 47K-JB	R824	0700032M	RES.-CARBON FLM 1/16W 220-JB
R724	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	R826	0700018M	RES.-CARBON FLM 1/16W 22-J
R725	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	R827	0188123M	RES.-CARBON FLM 1/2W 270-JB
R726	0700053M	RES.-CARBON FLM 1/16W 8.2K-JB	R828	0188127M	RES.-CARBON FLM 560-JB 1/2W
R727	0700058M	RES.-CARBON FLM 1/16W 22K-JB	R829	0119561M	RES.-MTL FLM 1/8W 12-FB
R728	0700054M	RES.-CARBON FLM 1/16W 10K-JB	R830	0700067M	RES.-CARBON FLM 1/16W 100K-JB
R729	0700027M	RES.-CARBON FLM 1/16W 100-JB	R831	0100063M	RES.-CARBON FLM 1/8W 820-JB
R730	0700027M	RES.-CARBON FLM 1/16W 100-JB	R832	0144068	RES. WIRE WOUND 1.5K 7W
R731	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	R834	0113725M	RES CARBON FLM SRD1/2P-B 100-J
R732	0100117M	RES.-CARBON FLM 1/8W 150K-JB	R835	0100035M	RES.-CARBON FLM 1/8W 56-JB
R733	0700057M	RES.-CARBON FLM 1/16W 18K-JB	R836	0100035M	RES.-CARBON FLM 1/8W 56-JB
R734	0100125M	RES.-CARBON FLM 1/8W 330K-JB	R839	0700032M	RES.-CARBON FLM 1/16W 220-JB
R735	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	R841	0700022M	RES.-CARBON FLM 1/16W 39-J

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R843	0119561M	RES.-MTL FLM 1/8W 12-FB	R929	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
R844	0700067M	RES.-CARBON FLM 1/16W 100K-JB	R930	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
R845	0100049M	RES.-CARBON FLM 1/8W 220-JB	R931	0700036M	RES.-CARBON FLM 1/16W 470-JB
R846	0144068	RES. WIRE WOUND 1.5K 7W	R932	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
R848	0113725M	RES CARBON FLM SRD1/2P-B 100-J	R933	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB
R849	0100035M	RES.-CARBON FLM 1/8W 56-JB	R934	0700028M	RES.-CARBON FLM 1/16W 120-JB
R850	0100035M	RES.-CARBON FLM 1/8W 56-JB	R935	0700042M	RES.-CARBON FLM 1/16W 1.2K-JB
R851	0188166M	RES.-CARBON FLM 470K-JB 1/2W	R936	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB
R852	0188159M	RES.-CARBON FLM 150K-JB 1/2W	R937	0700024M	RES.-CARBON FLM 1/16W 56-J
R853	0188127M	RES.-CARBON FLM 560-JB 1/2W	R938	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
R871	0100087M	RES.-CARBON FLM 1/8W 8.2K-JB	R941	CJ00362	3/2 OHM POSITIVE THERMISTOR
R872	0100063M	RES.-CARBON FLM 1/8W 820-JB	R943	0144151	RES.-WIRE WOUND 33-J
R873	0100087M	RES.-CARBON FLM 1/8W 8.2K-JB	R945	0188136M	RES.-CARBON FLM 2.7K-J 1/2W
R874	0100035M	RES.-CARBON FLM 1/8W 56-JB	R946	0100087M	RES.-CARBON FLM 1/8W 8.2K-JB
R875	0188123M	RES.-CARBON FLM 1/2W 270-JB	R947	0100096M	RES.-CARBON FLM 1/8W 20K-JB
R876	0100035M	RES.-CARBON FLM 1/8W 56-JB	R948	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
R877	0100035M	RES.-CARBON FLM 1/8W 56-JB	R949	0100083M	RES.-CARBON FLM 1/8W 5.6K-JB
R878	0188123M	RES.-CARBON FLM 1/2W 270-JB	R950	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R879	0144068	RES. WIRE WOUND 1.5K 7W	R951	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
R880	0144068	RES. WIRE WOUND 1.5K 7W	R952	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R881	0144068	RES. WIRE WOUND 1.5K 7W	R953	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R885	0188159M	RES.-CARBON FLM 150K-JB 1/2W	R954	0700058M	RES.-CARBON FLM 1/16W 22K-JB
 R901	AT03672M	RES.MTL GRAZD FLM 1/2W 3.3M	 R955	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB
 R902	0147718	RES. WIRE WOUND 10W 2.2 OHM	R956	0700038M	RES.-CARBON FLM 1/16W 680-JB
R903	0188162M	RES.-CARBON FLM 220K-JB 1/2W	R957	0700027M	RES.-CARBON FLM 1/16W 100-JB
R904	0188162M	RES.-CARBON FLM 220K-JB 1/2W	 R958	0700058M	RES.-CARBON FLM 1/16W 22K-JB
R905	AT03448S	METAL OX. 5.6KOHM 2W	R959	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R906	AT03448S	METAL OX. 5.6KOHM 2W	R960	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R907	0700055M	RES.-CARBON FLM 1/16W 12K-JB	R961	0700058M	RES.-CARBON FLM 1/16W 22K-JB
R908	0100037M	RES.-CARBON FLM 1/8W 68-JB	R962	0100081M	RES.-CARBON FLM 1/8W 4.7K-JB
R909	0100033M	RES.-CARBON FLM 1/8W 47-JB	R963	0700056M	RES.-CARBON FLM 1/16W 15K-JB
R910	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R964	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
R911	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R965	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
R912	0700038M	RES.-CARBON FLM 1/16W 680-JB	R966	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
R914	0188104M	RES.-CARBON FLM 1/2W 10-JB	R967	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
R916	0100073M	RES.-CARBON FLM 1/8W 2.2K-JB	R968	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
R917	0700036M	RES.-CARBON FLM 1/16W 470-JB	R969	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R918	AT01534S	METAL FLM 0.22OHM 1/2W	R970	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R919	AT01534S	METAL FLM 0.22OHM 1/2W	 R971	AT03665M	RES.MTL GRAZD FLM 1/2W 1M
 R921	AT03676M	RES.MTL GRAZD FLM 1/2W 6.8M	RA01	0195916R	RES.2125 SMD 1/16W 4.7K-J TAPE
R922	0188157M	RES.-CARBON FLM 100K-J 1/2W	RA02	0700027M	RES.-CARBON FLM 1/16W 100-JB
 R923	0147807	RES. WIRE WOUND 1.0-J 15W	RA03	0700027M	RES.-CARBON FLM 1/16W 100-JB
 R924	0147060	RES.-WIRE WOUND 2W 33-K	RA04	0179559M	REG.-METAL GRAZED FLM 1.2M-JB
R926	0188146M	RES.-CARBON FLM 1/4W 15K-JB	RA05	0195975R	RMCT3S-2A105JR
R927	0188133M	RES.-CARBON FLM 1/2W 1.5K-JB	RA06	0195929R	RES 2125 SMD 1/16W 15K-J TAPE
R928	0700038M	RES.-CARBON FLM 1/16W 680-JB	RA07	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RA08	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	RC02	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE
RA09	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	RC03	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RA10	0195922R	RES 2125 SMD 1/16W 8.2K-J TAPE	RC04	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
RA11	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	RC05	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE
RA12	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	RC06	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE
RA13	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	RC07	0195941R	RES.2125 SMD 1/16W 47K-J TAPE
RA14	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RC08	0195950R	RES 2125 SMD 1/16W 100K-J TAPE
RA38	0195900R	RES.2125 SMD 1/16W 1.0K-J TAPE	RC09	0195941R	RES.2125 SMD 1/16W 47K-J TAPE
RA39	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	RC10	0700036M	RES.-CARBON FLM 1/16W 470-JB
RA40	0195932R	RES. 2125SMD 1/10W 20K-J TAPE	RC11	0700058M	RES.-CARBON FLM 1/16W 22K-JB
RA41	0195932R	RES. 2125SMD 1/10W 20K-J TAPE	RC12	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
RA42	0195932R	RES. 2125SMD 1/10W 20K-J TAPE	RC13	0195945R	RES 2125 SMD 1/16W 68K-J TAPE
RA43	0195932R	RES. 2125SMD 1/10W 20K-J TAPE	RC14	0195945R	RES 2125 SMD 1/16W 68K-J TAPE
RA44	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	RC15	AT01549S	METAL FLM RES(2.2OHM 1W)
RA45	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RC16	AT01549S	METAL FLM RES(2.2OHM 1W)
RA46	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RC17	0114161M	RES.-CARBON FLM 1/4W 1K-JB
RA47	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RC18	0114161M	RES.-CARBON FLM 1/4W 1K-JB
RA48	0195958R	RES.2125 SMD 1/10W 220KJ TAPE	RC20	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
RA49	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	RC23	0700027M	RES.-CARBON FLM 1/16W 100-JB
RA74	0195916R	RES.2125 SMD 1/16W 4.7K-J TAPE	RC24	0700027M	RES.-CARBON FLM 1/16W 100-JB
RA75	0195939R	RES.2125 SMD 1/16W 39K-J TAPE	RC29	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RA76	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RH01	0147552	RES.-WIRE WOUND 5W 33-JM CEMENTED
RA77	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	RH01	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RA78	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	RH02	0147552	RES.-WIRE WOUND 5W 33-JM CEMENTED
RA79	0195872R	RES 2125 SMD 1/10W 82-J TAPE	RH10	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RA80	0195883R	RES 2125 SMD 1/16W 220-J TAPE	RH11	0188103M	RES.-CARBON FLM 8.2-J 1/2W
RA81	0195947R	RES.2125 SMD 1/10W 82K-J TAPE	RH12	0188142M	RES.-CARBON FLM 1/2W 6.8K-JB
RA82	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	RH17	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RA83	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	RH18	0100033M	RES.-CARBON FLM 1/8W 47-JB
RA84	0195916R	RES.2125 SMD 1/16W 4.7K-J TAPE	 RH20	0148052	RES.-WIRE WOUND 0.68-K 3W
RA85	0195939R	RES.2125 SMD 1/16W 39K-J TAPE	RH31	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RA86	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RH35	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB
RA87	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	RH36	0700053M	RES.-CARBON FLM 1/16W 8.2K-JB
RA88	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	RH37	0700065M	RES.-CARBON FLM 1/16W 68K-JB
RA89	0195872R	RES 2125 SMD 1/10W 82-J TAPE	RH38	0187098M	RES.-CARBON FLM 1/16W 24K-JB
RA90	0195883R	RES 2125 SMD 1/16W 220-J TAPE	RH39	0700062M	RES.-CARBON FLM 1/16W 39K-JB
RA91	0195947R	RES.2125 SMD 1/10W 82K-J TAPE	 RH43	0100049M	RES.-CARBON FLM 1/8W 220-JB
RA92	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	 RH44	AW00208	TRIMMER RES 100KOHM 1/2W
RA93	0195950R	RES 2125 SMD 1/16W 100K-J TAPE	RH46	0700056M	RES.-CARBON FLM 1/16W 15K-JB
RA94	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	RH50	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RA95	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	RH51	0700055M	RES.-CARBON FLM 1/16W 12K-JB
RAA1	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RH52	0700067M	RES.-CARBON FLM 1/16W 100K-JB
RAA2	0700027M	RES.-CARBON FLM 1/16W 100-JB	RH53	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RC01	0110121S	RES.-MTL OXIDE FLM 100-JS	 RH54	0119633M	RES.-MTL FLM 1/8W 12K-FB
RC01	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE	 RH55	0119639M	RES.-MTL FLM 1/8W 22K-FB
RC02	0110121S	RES.-MTL OXIDE FLM 100-JS	RH56	0188145M	RES.-CARBON FLM 12K-J 1/2W

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RH57	0113750M	RES.-CARBON FLM 1/2W 1K-JB	RL26	0100071M	RES.-CARBON FLM 1/8W 1.8K-JB
RH58	0188154M	RES.-CARBON FLM 1/2W 56K-JB	RL27	0100119M	RES.-CARBON FLM 1/8W 180K-JB
RH58	AT03889M	27KOHM 1/2W RDS50 CARBON FLM RES	RL28	0100119M	RES.-CARBON FLM 1/8W 180K-JB
RH59	0188151M	RES.-CARBON FLM 33K-J 1/2W	RL29	0100071M	RES.-CARBON FLM 1/8W 1.8K-JB
RH59	AT03889M	27KOHM 1/2W RDS50 CARBON FLM RES	RL30	0100017M	RES.-CARBON FLM 1/8W 10-JB
RH60	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	RL31	0100067M	RES.-CARBON FLM 1/8W 1.2K-JB
RH61	0100053M	RES.-CARBON FLM 1/8W 330-JB	RL32	0100017M	RES.-CARBON FLM 1/8W 10-JB
RH67	0188127M	RES.-CARBON FLM 560-JB 1/2W	RL33	0188111M	RES.-CARBON FLM 1/2W 33-JB
 RH72	0700062M	RES.-CARBON FLM 1/16W 39K-JB	RL34	0188097M	RES.-CARBON FLM 1/2W 3.3-J
 RH73	0119653M	RES.-MTL FLM 1/8W 82K-FB	RL35	0188111M	RES.-CARBON FLM 1/2W 33-JB
RH77	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	RL36	0188097M	RES.-CARBON FLM 1/2W 3.3-J
 RH80	0119647M	RES.-MTL FLM 1/8W 47K-FB	RL37	0147568	RES.-WIRE WOUND 5W 150-JM CEMENTED
RH81	0700067M	RES.-CARBON FLM 1/16W 100K-JB	RL38	0100021M	RES.-CARBON FLM 1/8W 15-JB
RH82	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RL39	0700027M	RES.-CARBON FLM 1/16W 100-JB
RJG1	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RL40	0110237S	RES.-MTL OXIDE FLM 2W 470-J
RJG2	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RL41	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RJG3	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RL42	0700027M	RES.-CARBON FLM 1/16W 100-JB
RJG4	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RL43	0100113M	RES.-CARBON FLM 1/8W 100K-JB
RJG5	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RM01	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RJG6	0195887R	RES 2125 SMD 1/16W 330-J TAPE	RM02	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB
RJG7	0195925R	RES 2125 SMD 1/16W 10K-J TAPE	RM03	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RJG8	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RM04	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
RL02	0700065M	RES.-CARBON FLM 1/16W 68K-JB	RM05	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RL03	0700055M	RES.-CARBON FLM 1/16W 12K-JB	RM06	0100065M	RES.-CARBON FLM 1/8W 1K-JB
RL04	0700027M	RES.-CARBON FLM 1/16W 100-JB	RM07	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RL05	0700031M	RES.-CARBON FLM 1/16W 180-JB	RM08	0700058M	RES.-CARBON FLM 1/16W 22K-JB
RL06	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RM09	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RL07	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RM10	0700032M	RES.-CARBON FLM 1/16W 220-JB
RL08	0700055M	RES.-CARBON FLM 1/16W 12K-JB	RM100	0100123M	RES.-CARBON FLM 1/8W 270K-JB
RL09	0700055M	RES.-CARBON FLM 1/16W 12K-JB	RM101	0100123M	RES.-CARBON FLM 1/8W 270K-JB
RL10	0700027M	RES.-CARBON FLM 1/16W 100-JB	RM102	0100041M	RES.-CARBON FLM 1/8W 100-JB
RL11	0700027M	RES.-CARBON FLM 1/16W 100-JB	RM103	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RL12	0700031M	RES.-CARBON FLM 1/16W 180-JB	RM104	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RL13	0700027M	RES.-CARBON FLM 1/16W 100-JB	RM105	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RL14	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RM108	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RL15	0700061M	RES.-CARBON FLM 1/16W 33K-JB	RM11	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RL16	0700053M	RES.-CARBON FLM 1/16W 8.2K-JB	RM12	0100065M	RES.-CARBON FLM 1/8W 1K-JB
RL17	0700027M	RES.-CARBON FLM 1/16W 100-JB	RM13	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RL18	0700035M	RES.-CARBON FLM 1/16W 390-JB	RM14	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RL19	0700029M	RES.-CARBON FLM 1/16W 150-JB	RM15	0700058M	RES.-CARBON FLM 1/16W 22K-JB
RL20	0700031M	RES.-CARBON FLM 1/16W 180-JB	RM16	0700058M	RES.-CARBON FLM 1/16W 22K-JB
RL21	0700027M	RES.-CARBON FLM 1/16W 100-JB	RM17	0100065M	RES.-CARBON FLM 1/8W 1K-JB
RL22	0100059M	RES.-CARBON FLM 1/8W 560-JB	RM18	0700058M	RES.-CARBON FLM 1/16W 22K-JB
RL23	0700027M	RES.-CARBON FLM 1/16W 100-JB	RM92	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RL24	0700027M	RES.-CARBON FLM 1/16W 100-JB	RM93	0100041M	RES.-CARBON FLM 1/8W 100-JB
RL25	0188104M	RES.-CARBON FLM 1/2W 10-JB	RM94	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RM95	0700064M	RES.-CARBON FLM 1/16W 56K-JB	RP37	0100069M	RES.-CARBON FLM 1/8W 1.5K-JB
RM96	0700064M	RES.-CARBON FLM 1/16W 56K-JB	RP38	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RM97	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP39	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RM98	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	RP40	0700027M	RES.-CARBON FLM 1/16W 100-JB
RM99	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP41	AT00443S	RES.MTL OXIDE FLM 2W 1.5 OHM
RN06	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RP42	0700055M	RES.-CARBON FLM 1/16W 12K-JB
RN07	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB	RP43	0179625M	RES. MTL GRAZED FLM 1M-F 1/8W
RN08	0700044M	RES.-CARBON FLM 1/16W 1.8K-JB	RP45	0700056M	RES.-CARBON FLM 1/16W 15K-JB
RN09	0700061M	RES.-CARBON FLM 1/16W 33K-JB	RX01	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE
RN10	0700057M	RES.-CARBON FLM 1/16W 18K-JB	RX14	0195875R	RES 2125 SMD 1/16W 100-J TAPE
RN11	0700058M	RES.-CARBON FLM 1/16W 22K-JB	RX15	0195875R	RES 2125 SMD 1/16W 100-J TAPE
RN12	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB	RX16	0195875R	RES 2125 SMD 1/16W 100-J TAPE
RN13	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RX20	0195910R	RES.2125 SMD 1/16W 2.7K-J TAPE
RN14	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB	RX21	0195910R	RES.2125 SMD 1/16W 2.7K-J TAPE
RN15	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB	RX22	0195910R	RES.2125 SMD 1/16W 2.7K-J TAPE
RP01	0188165M	RES.-CARBON FLM 390K-J 1/2W	RX26	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
RP02	AT01129S	RES.MTL OXIDE FLM 1W 5.6K OHM	RX27	0195968R	RES 2125 SMD 1/16W 560K-J TAPE
RP03	AT01129S	RES.MTL OXIDE FLM 1W 5.6K OHM	RX29	0195250R	RES 2125 SMD JUMPER WIRE
RP04	0700038M	RES.-CARBON FLM 1/16W 680-JB	RX32	0195250R	RES 2125 SMD JUMPER WIRE
RP05	0188104M	RES.-CARBON FLM 1/2W 10-JB	RX33	0195935R	RES 2125 SMD 1/16W 27K-J TAPE
RP08	0100073M	RES.-CARBON FLM 1/8W 2.2K-JB	RX34	0195885R	RES 2125 SMD 1/16W 270J TAPE
RP09	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB	RX35	0195902R	RES 2125 SMD 1/16W 1.2K-J TAPE
RP10	AT01534S	METAL FLM 0.22OHM 1/2W	RX36	0195914R	RES 2125 SMD 1/16W 3.9K-J TAPE
RP11	AT01534S	METAL FLM 0.22OHM 1/2W	RX37	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
RP12	AT01534S	METAL FLM 0.22OHM 1/2W	RX38	0195875R	RES 2125 SMD 1/16W 100-J TAPE
RP14	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RX39	0195875R	RES 2125 SMD 1/16W 100-J TAPE
RP15	0700032M	RES.-CARBON FLM 1/16W 220-JB	RX40	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
RP16	AT03464S	METAL OX. 22K OHM 2W	RX41	0195904R	RES.2125 SMD 1/16W 1.5K-J TAPE
RP17	0119695M	RES.-MTL OXIDE FLM 1W 0.47-F	RX42	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
RP18	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RX43	0195904R	RES.2125 SMD 1/16W 1.5K-J TAPE
RP19	0700058M	RES.-CARBON FLM 1/16W 22K-JB	RX44	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
RP20	0700063M	RES.-CARBON FLM 1/16W 47K-JB	RX45	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
RP21	0188156M	RES.-CARBON FLM 82K-J 1/2W	RX46	0195925R	RES 2125 SMD 1/16W 10K-J TAPE
RP22	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RX47	0195875R	RES 2125 SMD 1/16W 100-J TAPE
⚠ RP23	0700039M	RES.-CARBON FLM 1/16W 820-JB	RX48	0195875R	RES 2125 SMD 1/16W 100-J TAPE
⚠ RP24	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB	RX49	0195875R	RES 2125 SMD 1/16W 100-J TAPE
RP25	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB	RX50	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE
RP27	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB	RX52	0195916R	RES.2125 SMD 1/16W 4.7K-J TAPE
RP28	0188154M	RES.-CARBON FLM 1/2W 56K-JB	RX56	0195875R	RES 2125 SMD 1/16W 100-J TAPE
RP29	0188154M	RES.-CARBON FLM 1/2W 56K-JB	RX57	0195875R	RES 2125 SMD 1/16W 100-J TAPE
RP30	0700056M	RES.-CARBON FLM 1/16W 15K-JB	RX58	0195250R	RES 2125 SMD JUMPER WIRE
RP32	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RX62	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE
RP33	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RX65	0195875R	RES 2125 SMD 1/16W 100-J TAPE
RP34	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB	RX66	0195908R	RES.2125 SMD 1/10W 2.2K-J TAPE
RP35	0700063M	RES.-CARBON FLM 1/16W 47K-JB	RX67	0195937R	RES.2125 SMD 1/16W 33K-J TAPE
RP36	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RX68	0195937R	RES.2125 SMD 1/16W 33K-J TAPE

Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RX69	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	RY83	0195875R	RES 2125 SMD 1/16W 100-J TAPE
RX70	0195941R	RES.2125 SMD 1/16W 47K-J TAPE	RY86	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
RX71	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RY87	0195862R	RES 2125 SMD 1/16W 33J TAPE
RX72	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RZ01	0196890R	RES 2125SMD 1/10W1.2K-F TAPE
RX73	0195910R	RES.2125 SMD 1/16W 2.7K-J TAPE	RZ02	0196873R	RES 2125SMD 1/10W 240-F TAPE
RX74	0195910R	RES.2125 SMD 1/16W 2.7K-J TAPE	RZ04	0196890R	RES 2125SMD 1/10W1.2K-F TAPE
RX75	0195927R	RES 2125 SMD 1/16W 12K-J TAPE	RZ05	0196873R	RES 2125SMD 1/10W 240-F TAPE
RX76	0195945R	RES 2125 SMD 1/16W 68K-J TAPE	RZ08	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RX77	0195875R	RES 2125 SMD 1/16W 100-J TAPE	RZ09	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE
RX79	0196888R	RES 2125SMD 1/10W1.0K-F TAPE	RZ11	0195250R	RES 2125 SMD JUMPER WIRE
RX80	0195943R	RES.2125 SMD 1/16W 56K-J TAPE	RZ20	0196906R	RES 2125SMD 1/16W5.6K-F TAPE
RX81	0195925R	RES 2125 SMD 1/16W 10K-J TAPE			
RX82	0195875R	RES 2125 SMD 1/16W 100-J TAPE			
RX83	0196896R	RES 2125SMD 1/16W2.2K-F TAPE	⚠ S901	FJ00142	RELAY ALKS329
RX84	0196898R	RES 2125SMD 1/16W2.7K-F TAPE	S902	FJ00142	RELAY ALKS329
RX85	0196897R	RES 2125SMD 1/16W2.4K-F TAPE	S903	FJ00142	RELAY ALKS329
RX86	0196896R	RES 2125SMD 1/16W2.2K-F TAPE	S904	FJ00071	AC POWER RELAY ALK3213
RX88	0195895R	RES.2125 SMD 1/10W 680-J TAPE	SM01	2633322	PUSH SWITCH 5-5P TACT SW LONG NOB
RX89	0195875R	RES 2125 SMD 1/16W 100-J TAPE	SM02	FE10332R	SWITCH (TYPE SWP01N01TKSH0636BT)
RX90	0195875R	RES 2125 SMD 1/16W 100-J TAPE	SM03	FE10332R	SWITCH (TYPE SWP01N01TKSH0636BT)
RX91	0195895R	RES.2125 SMD 1/10W 680-J TAPE			
RX92	0195875R	RES 2125 SMD 1/16W 100-J TAPE			
RY13	0195900R	RES 2125 SMD 1/16W 1.0K-J TAPE	⚠ T751	2260261	DRIVE TRANSFORMER
RY16	0195920R	RES 2125 SMD 1/16W 6.8K-J TAPE	⚠ T752	BT01231	PT-EE28F05US-HOTDP8X
RY24	0195250R	RES 2125 SMD JUMPER WIRE	⚠ T901	BT01992	SW TRANS.
RY26	0195927R	RES 2125 SMD 1/16W 12K-J TAPE	⚠ TH01	BW02492	FBT:1735YD-RC
RY27	0195937R	RES.2125 SMD 1/16W 33K-J TAPE	⚠ TP91	BT01981	SW TRANS.
RY28	0195875R	RES 2125 SMD 1/16W 100-J TAPE			
RY29	0195885R	RES 2125 SMD 1/16W 270J TAPE			
RY33	0195875R	RES 2125 SMD 1/16W 100-J TAPE	SP451	GK00262	SPEAKER 6X12D
RY34	0195920R	RES 2125 SMD 1/16W 6.8K-J TAPE	SP452	GK00262	SPEAKER 6X12D
RY41	0195250R	RES 2125 SMD JUMPER WIRE			
RY43	0195875R	RES 2125 SMD 1/16W 100-J TAPE			
RY44	0195927R	RES 2125 SMD 1/16W 12K-J TAPE			
RY45	0195937R	RES.2125 SMD 1/16W 33K-J TAPE	X001	2163971	CERAMIC FILTER 4MHZ
RY46	0195885R	RES 2125 SMD 1/16W 270J TAPE	X201	2791501	CRYSTAL HC-49/U
RY50	0195875R	RES 2125 SMD 1/16W 100-J TAPE	X202	2168771	X'TAL(TYPE CSB503F30)
RY51	0195920R	RES 2125 SMD 1/16W 6.8K-J TAPE	X401	2791501	CRYSTAL HC-49/U
RY59	0195250R	RES 2125 SMD JUMPER WIRE	X402	2168771	X'TAL(TYPE CSB503F30)
RY61	0195875R	RES 2125 SMD 1/16W 100-J TAPE	X701	2168771	X'TAL(TYPE CSB503F30)
RY62	0195927R	RES 2125 SMD 1/16W 12K-J TAPE	X901	AJ00322	ENC271D-14A
RY63	0195937R	RES.2125 SMD 1/16W 33K-J TAPE			
RY64	0195885R	RES 2125 SMD 1/16W 270J TAPE			
RY68	0195875R	RES 2125 SMD 1/16W 100-J TAPE			
RY70	0195250R	RES 2125 SMD JUMPER WIRE			
RY72	0195910R	RES.2125 SMD 1/16W 2.7K-J TAPE			

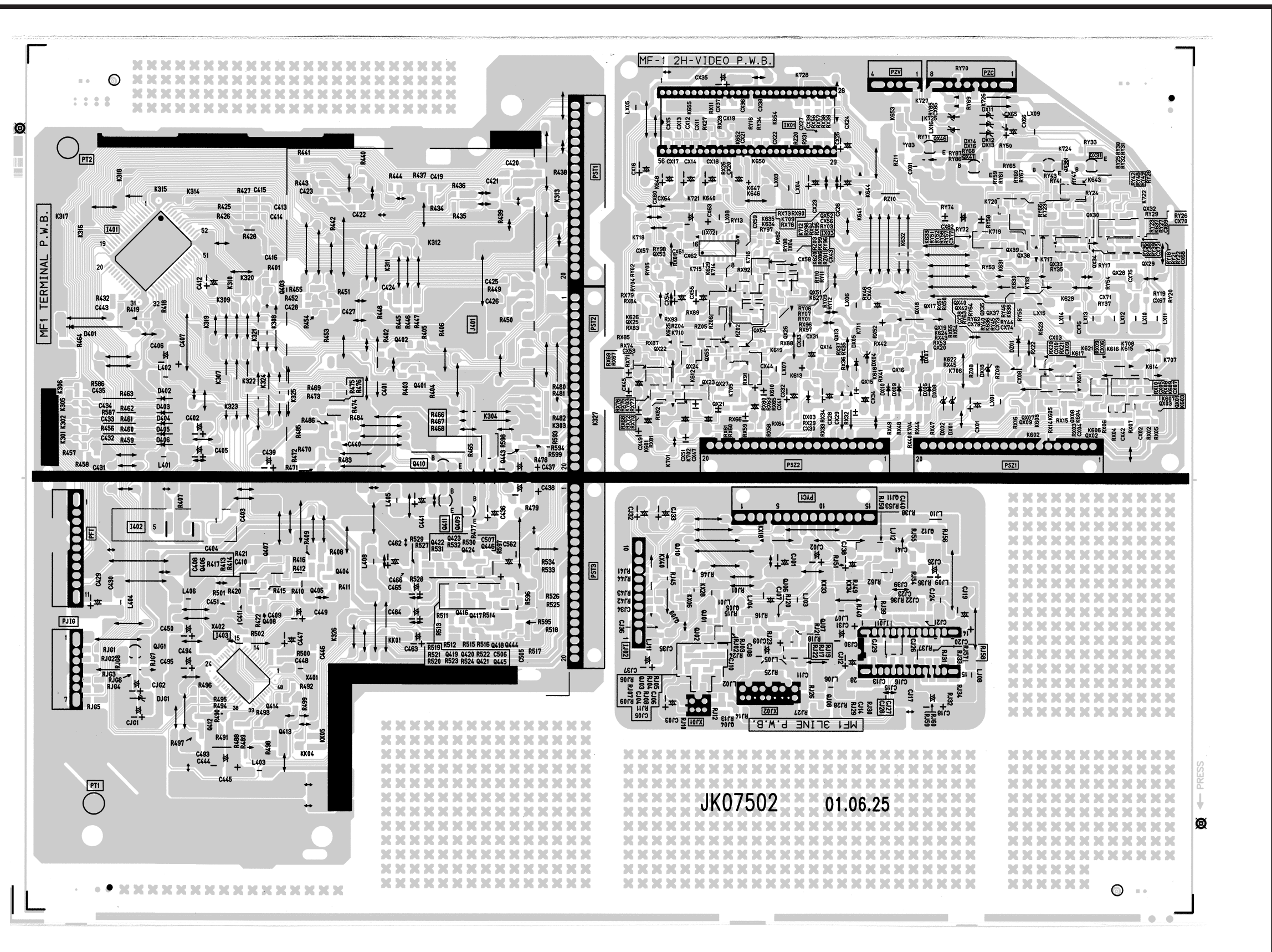
Replacement Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
MISCELLANEOUS					
#001	NT01231	MM1 POWER HOLDER	#140	PC04672	CONTROL BUTTON M10
#002	4319361	3*12 SCREW WITH WASHER	#140	PH09221	DECORATION PLATE 36V
#006	3875351	WIRE CLAMP 18	#145	PH08761	INDICATOR LENS SDX
#010	NT01292	CHASSIS FRAME R MF1	#147	4519503	3X12 TAPPING SCREW SWCH15A
#015	3744174	CLAMP 20 L16 V0	#149	4519503	3X12 TAPPING SCREW SWCH15A
#020	NT01301	CHASSIS FRAME L MM1	#150	NT02101	POWER JOINT HOLDER
#020	QD21831	FRAME COSMETICS 36FDX	#151	NA53631	SURROUND SUP. BKT
#030	NT01221	MM1 CHASSIS SUPPORT	#153	4520232	4X16 D TAPPING SCREW SWCH16A
#030	QD09793	FRONT FRAME 36-M10	#155	NJ05491	POWER SUPPORT 32UDX
#040	3760031	SMALL PIECE (S-2) FOR CABINET PS	#156	4520232	4X16 D TAPPING SCREW SWCH16A
#040	NT01222	MM1CHASSIS SUPPORT R	#157	4520232	4X16 D TAPPING SCREW SWCH16A
#051	3875771	LATCH 4T02 NYLON	#158	4520232	4X16 D TAPPING SCREW SWCH16A
#060	PH08783	CONTROL PANEL SDX	#159	4520232	4X16 D TAPPING SCREW SWCH16A
#060	PH09891	TERMINAL HOLDER	#160	4613658	CUSHION BACK COVER RUBBER FOAM
#070	PH08778	AV DOOR UDX	#161	3813121	LEAD CLAMPER 2135 PA
#070	PH30741	TERMINAL LABEL MF-1	#161	QD09623	BACK COVER 36UDX
#080	PH08923	CONTROL TRIM UDX	#165	MD07251	TERMINAL SHIELD MF1
#090	NA40071	CHAS.CONNECT MTL MM1	#165	PU00603	36 ULTRADIGITAL BADGE
#095	PH08751	R/C LENS M10	#170	3727972	POWER CORD HANGER
#100	4319361	3*12 SCREW WITH WASHER	#170	4519512	4X16 B TAPPING SCREW STEEL
#100	4519512	4X16 B TAPPING SCREW STEEL	#171	4329271	WASHER (F) C2720R
#100	NA54641	2H BRACKET MF1	#172	4522901	6 NUT (F) BSBM
#101	QD21861	FRAME COSMETICS 32FDX	#175	PH08761	INDICATOR LENS SDX
#106	QD09885	FRONT FRAME 32UDX	#180	4519511	4X12 B TAPPING SCREW STEEL
#108	PH08751	R/C LENS M10	#181	MD06132	SHIELD METAL DP06B SECC20/20E
#109	PH08822	INDOOR TRIM AV-SDX	#183	4319361	3*12 SCREW WITH WASHER
#110	4520232	4X16 D TAPPING SCREW SWCH16A	#191	4137974	4X12 TAPPING WITH WASHER STEEL
#110	4520881	M3*8 SCREW WITH WASHER	#200	4137974	4X12 TAPPING WITH WASHER STEEL
#110	PH08783	CONTROL PANEL SDX	#200	4520232	4X16 D TAPPING SCREW SWCH16A
#110	PH08822	INDOOR TRIM AV-SDX	#210	4520232	4X16 D TAPPING SCREW SWCH16A
#112	PH08778	AV DOOR UDX	#220	4520232	4X16 D TAPPING SCREW SWCH16A
#113	PH08923	CONTROL TRIM UDX	#230	4518378	6X35 TAPPING SCREW WITH WASHER STEEL
#115	3875771	LATCH 4T02 NYLON	#241	4520232	4X16 D TAPPING SCREW SWCH16A
#115	PH09221	DECORATION PLATE 36V	#310	3727972	POWER CORD HANGER
#117	PC04672	CONTROL BUTTON M10	#320	MQ00436	CUSHION UDX
#118	PU00603	36 ULTRADIGITAL BADGE	#330	8441428	HIMERON SHEET(H) HIMERON
#119	4518378	6X35 TAPPING SCREW WITH WASHER STEEL	#335	4613658	CUSHION BACK COVER RUBBER FOAM
#120	4519511	4X12 B TAPPING SCREW STEEL	#350	MQ00437	CUSHION UDX
#120	4520232	4X16 D TAPPING SCREW SWCH16A	#355	8441429	HIMERON SHEET(I) HIMERON
#121	4526581	HEX HEAD T-SCREW WITH WASHER L=15	#360	4621681	SEALING CUSHION
#122	4520232	4X16 D TAPPING SCREW SWCH16A	#365	MN03111	WASHER 2.9*6.35*13.5 PVC
#125	4520232	4X16 D TAPPING SCREW SWCH16A	#370	4286581	PVC WASHER 2.0T
#130	4520232	4X16 D TAPPING SCREW SWCH16A	#380	99912013	BLUE MASKING TAPE
#130	QD09852	BACK COVER 32UDX	#60	MS00621	HIMERON 480*20*t0.5
#135	4520232	4X16 D TAPPING SCREW SWCH16A	#61	MS00631	HIMERON WASHER
#140	ME03091	HEAT SINK PROTECTOR MF1	#62	99912013	BLUE MASKING TAPE

Replacement Parts List

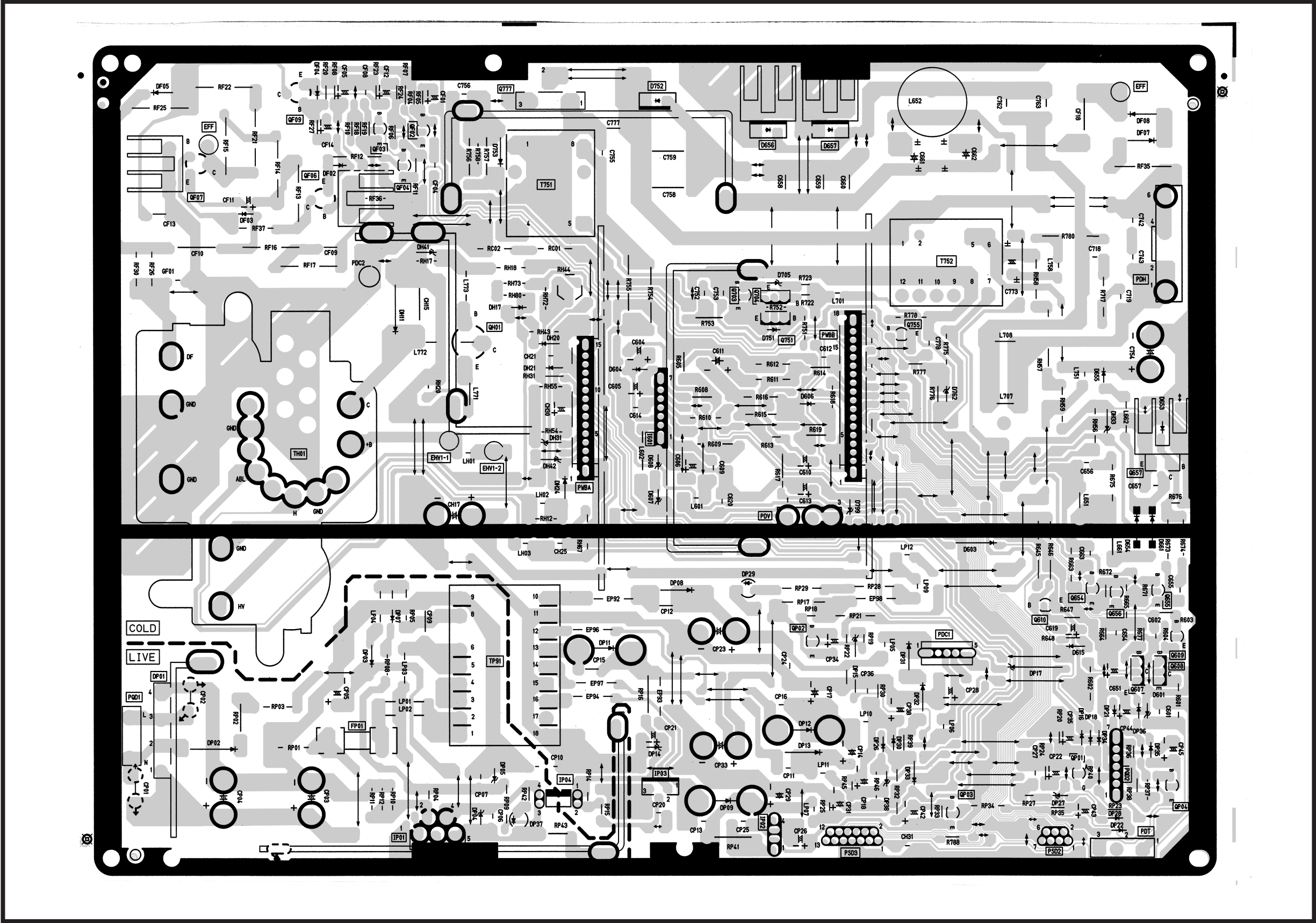
SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
A010	H461543	LABEL SHEET (C) BLANK	N108	3785522	V LOCK 20
E203	FQ00021	DRY BATTERY(R6P-AA)	N109	3763751	SK BINDER
E301	HL01327	RCT CLU-577TSI	N110	3737102	PURSE LOCK 15
E600B	H211361	1P CONNECTOR (RECEPTACLE)	N111	3728273	PURSE LOCK (8)
E602	2908402	CRT EARTH WIRE (35V)	N111	3785522	V LOCK 20
E602	EZ00975	CRT GROUNDING WIRE 32INCH	N112	3728273	PURSE LOCK (8)
E602	EZ00976	CRT GROUNDING WIRE 36INCH	N114	3728273	PURSE LOCK (8)
E603	GX00131	CHEVRON FUNNEL MAGNET	N115	3731082	PURSE LOCK 11.5
⚠ E901	EV00556	COD-VM0284-212GL340 AC cord.	N116	3728273	PURSE LOCK (8)
EANT	HP00771	ANT SW	N117	3728273	PURSE LOCK (8)
ECV	2973758S	CONN. W/WIRE SEH 5J L200(C-C)	N118	3728273	PURSE LOCK (8)
EDC1	H211401	5J XA LOCK CONNECTOR	N119	3731082	PURSE LOCK 11.5
EDC2	H211391	1J MINI CONNECTOR	N120	3731082	PURSE LOCK 11.5
EFS	2973893S	EH CONNE.9P L=680	N122	3737102	PURSE LOCK 15
EFT	H211411	1 CORE SHIELD 11J EH CONNECTOR	N123	3728273	PURSE LOCK (8)
EQD1	EF03843	CO-04C-C3R9-681 #2, 3N	N171	3705232	ANODE CLAMPER 94V0 (1010N)
EQD2	H211421	7J XA LOCK CONNECTOR	N173	3705232	ANODE CLAMPER 94V0 (1010N)
EQS1	EF08331	CO-10C-C2R5-681 LOCK	N201	9563444	EXCEL TUBE 6
EQS2	H211431	11J XA LOCK CONNECTOR	N201	QR48441	36/32FDX10B-511 ENGLISH INST. BOOK
EQS3	H211441	CO-03C-C5RO-601 LOCK	N201	QR48451	36/32FDX10B-501 FRENCH INST. BOOK
EQU1	H211451	CO-06C-C2R5-461 LOCK	N202	9449603	NITTOH TAPE #747
ESL	2976648	2P CONNE. L=1000	N205	3611877	POLYETHYLENE COVER
ESR	2976656	3J EH CONNECTOR	N401	H462121	LABEL BLANK 160-162
ETU1	2979173	PLUG WITH COAXIAL CABLE	N606	3330941	EARTH SPRING
ETU2	2979172	MINI PLUG WITH COAXIAL CABLE	N606	3330944	EARTH SPRING
EVV	2979222	2J CONNECTOR (L=120MM)	N607	3763752	SK BINDER 200 NYLON 66
EZC	2973861S	CONNE. EH 8J L560	N610	2772981	FERRITE SHEET ASS'Y
EZV	2973736S	CONN. W/WIRE SEH 4J L390(C-C)	N612	2956801	EARTH RING
L905	BZ03901	DGC-COIL 32VR M10	NSPC	3763751	SK BINDER
L970	BZ03902	DGC-COIL 36VR M10	NSVM	3763751	SK BINDER
LMFC	BZ00411	COIL M.F.COIL	NVM1	3797711	PLASTIC RIVET PA
N001	H461543	LABEL SHEET (C) BLANK	PMG	H390121	PURITY MAGNET
N100	3785522	V LOCK 20	Z	9449553	TAPE-ADHESIVE W19 NITTO#223S(B PVC
N101	3785522	V LOCK 20	Z101	9413945	SILICONE KE-1300 (WHITE)
N102	3728273	PURSE LOCK (8)	Z101A	9449603	NITTOH TAPE #747
N103	3705232	ANODE CLAMPER 94V0 (1010N)	Z201	9542102	STAPLE(MAX NO.10)
N103	3737102	PURSE LOCK 15	Z601	9413945	SILICONE KE-1300 (WHITE)
N104	3737102	PURSE LOCK 15	Z608	9449506	SCOTCH TAPE NO.29 19MM
N104	3763751	SK BINDER	Z609	9436111	TAPE-ADHESIVE W50 NITTO#223S
N105	3700342	WIRE CLAMP V0	ZEY	9553958	ADHESIVE TAPE (PERMACEL P212 19W)
N105	3744161	PURSE LOCK 25 NYLON 6	ZEY2	9449553	TAPE-ADHESIVE W19 NITTO#223S(B PVC
N106	3744151	PURSE LOCK	ZMFC	9436111	TAPE-ADHESIVE W50 NITTO#223S
N106	3785522	V LOCK 20	ZMFC	9436111	TAPE-ADHESIVE W50 NITTO#223S
N107	3737102	PURSE LOCK 15	ZVD	9485158	HOT MELT (AX-1503C)
N107	4319361	3*12 SCREW WITH WASHER			CPT
N108	3728273	PURSE LOCK (8)	V1	DE01762	A90LPY30X50 36" ITC
			V1	DE01373	A80LJF30X50 32" ITC

2H Video/Terminal/3 Line P.W.B.



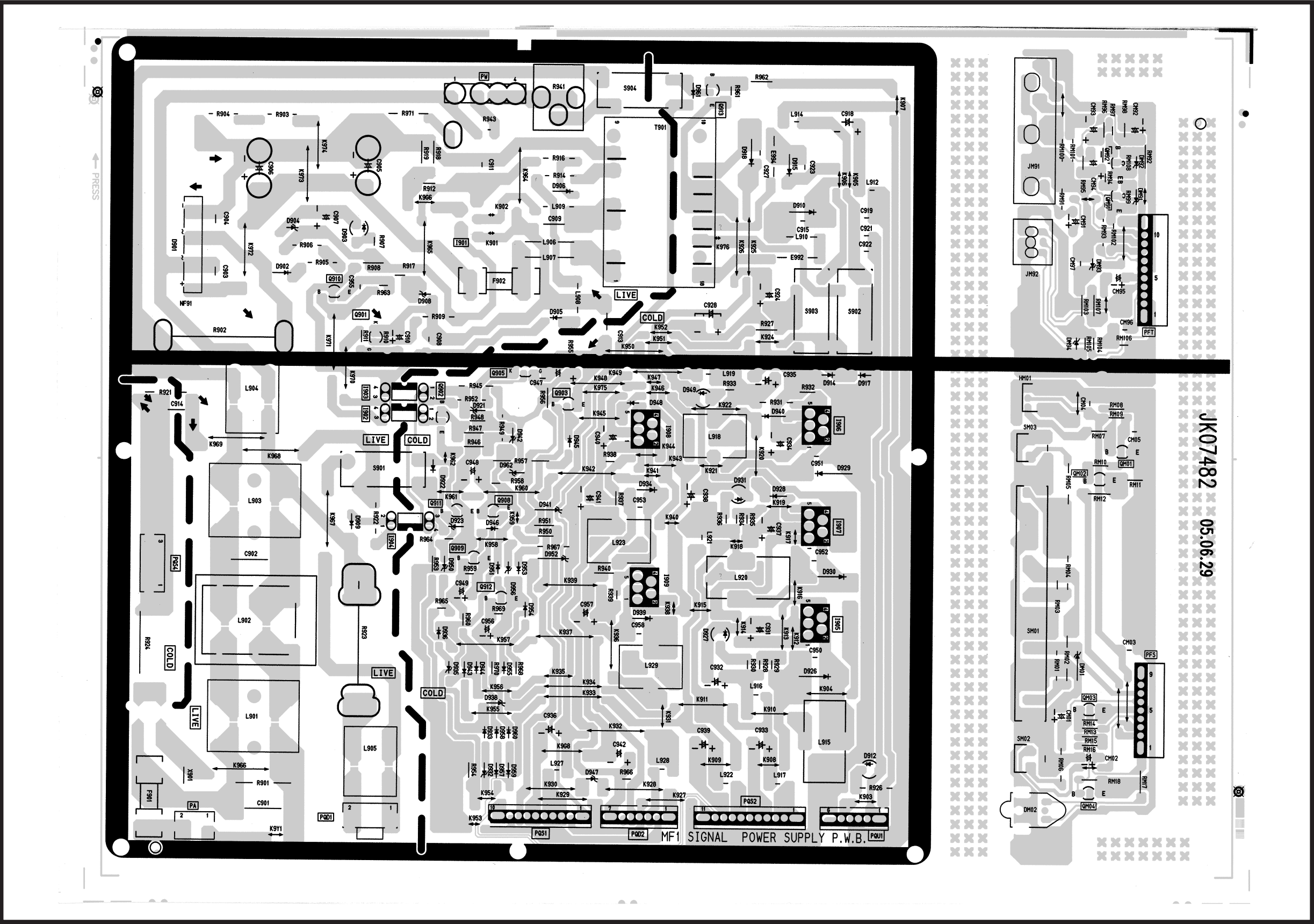
PRINTED CIRCUIT BOARD

Deflection P.W.B.



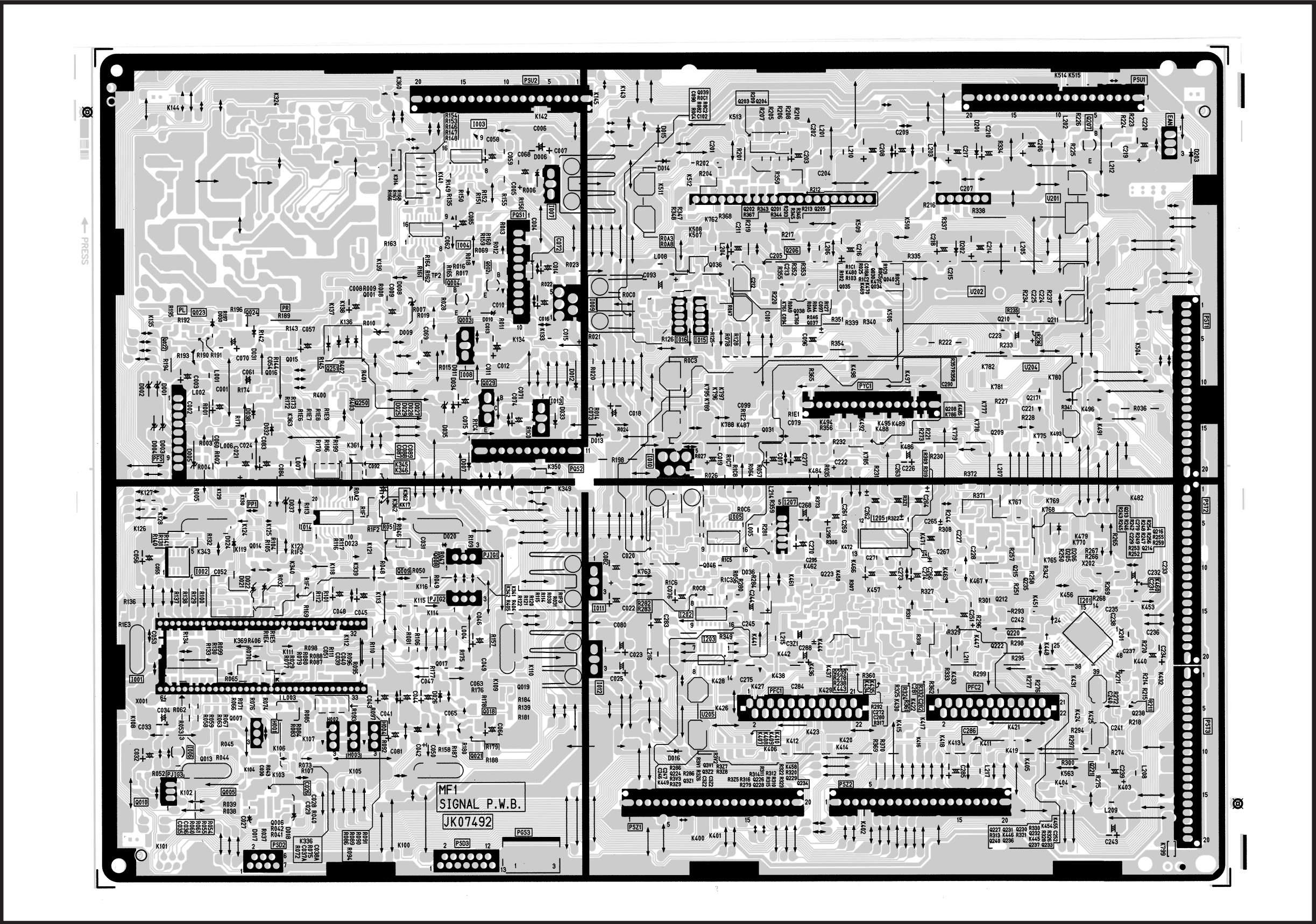
PRINTED CIRCUIT BOARD

Signal Power Supply/Control P.W.B.

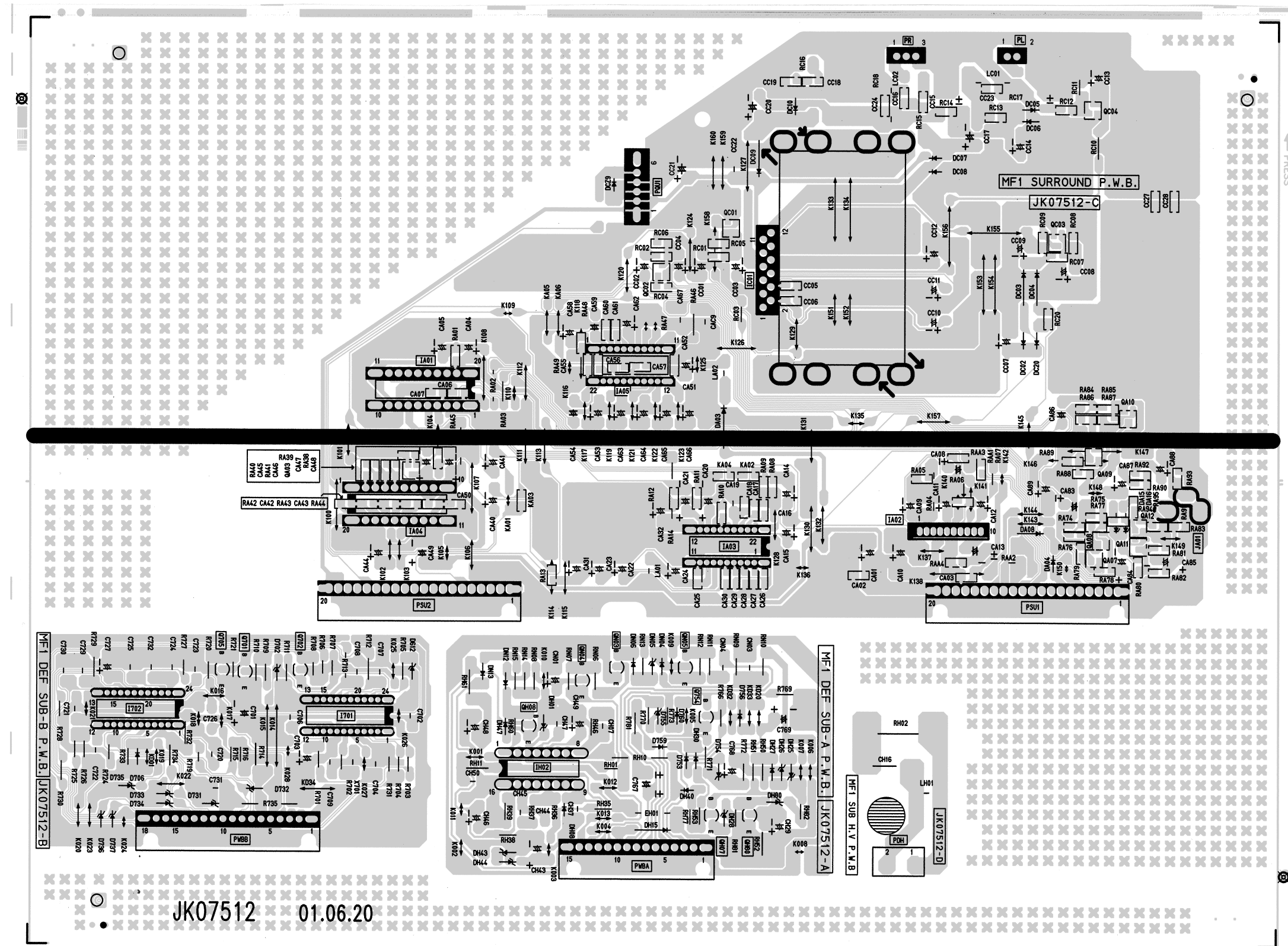


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PATTERN SIDE

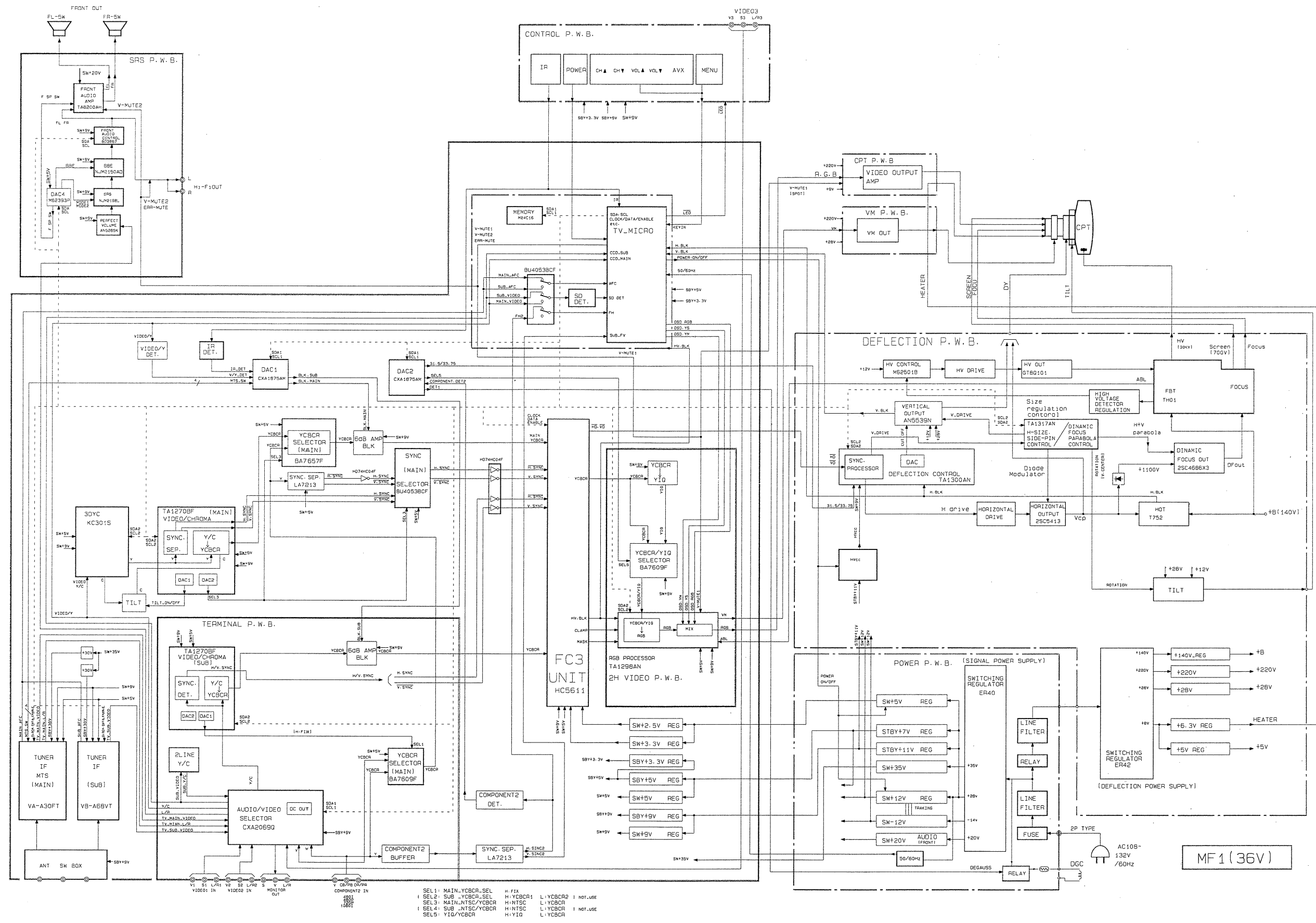
Signal P.W.B.



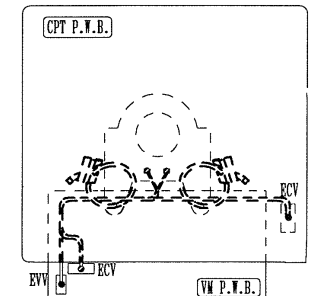
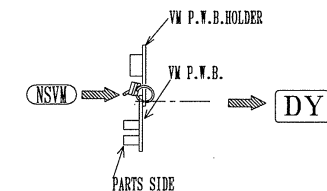
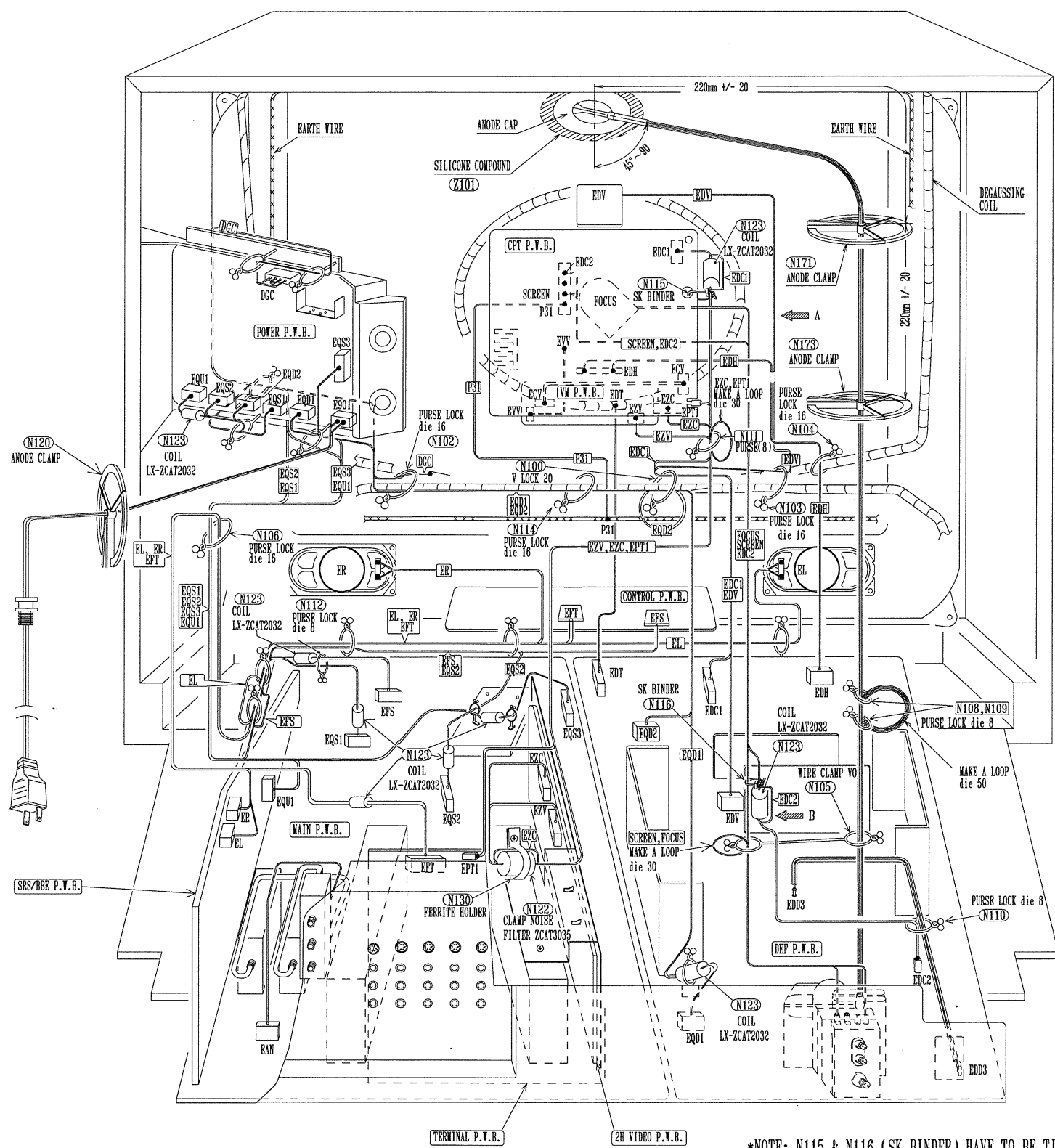
Surround/Deflection Sub P.W.B.



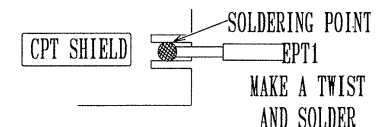
BLOCK DIAGRAM



36UDX10S WIRING DRAWING

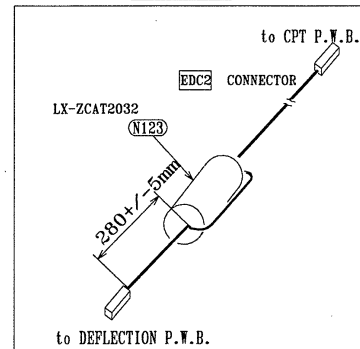


"A" VIEW



EPT1 ASSY DETAIL

"B" VIEW

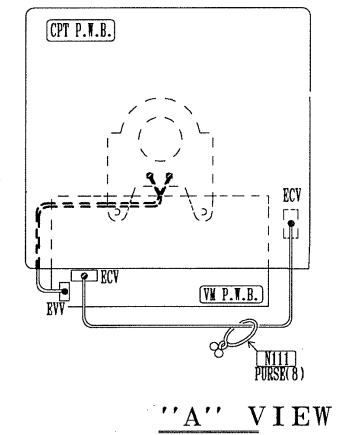
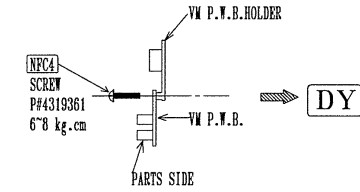
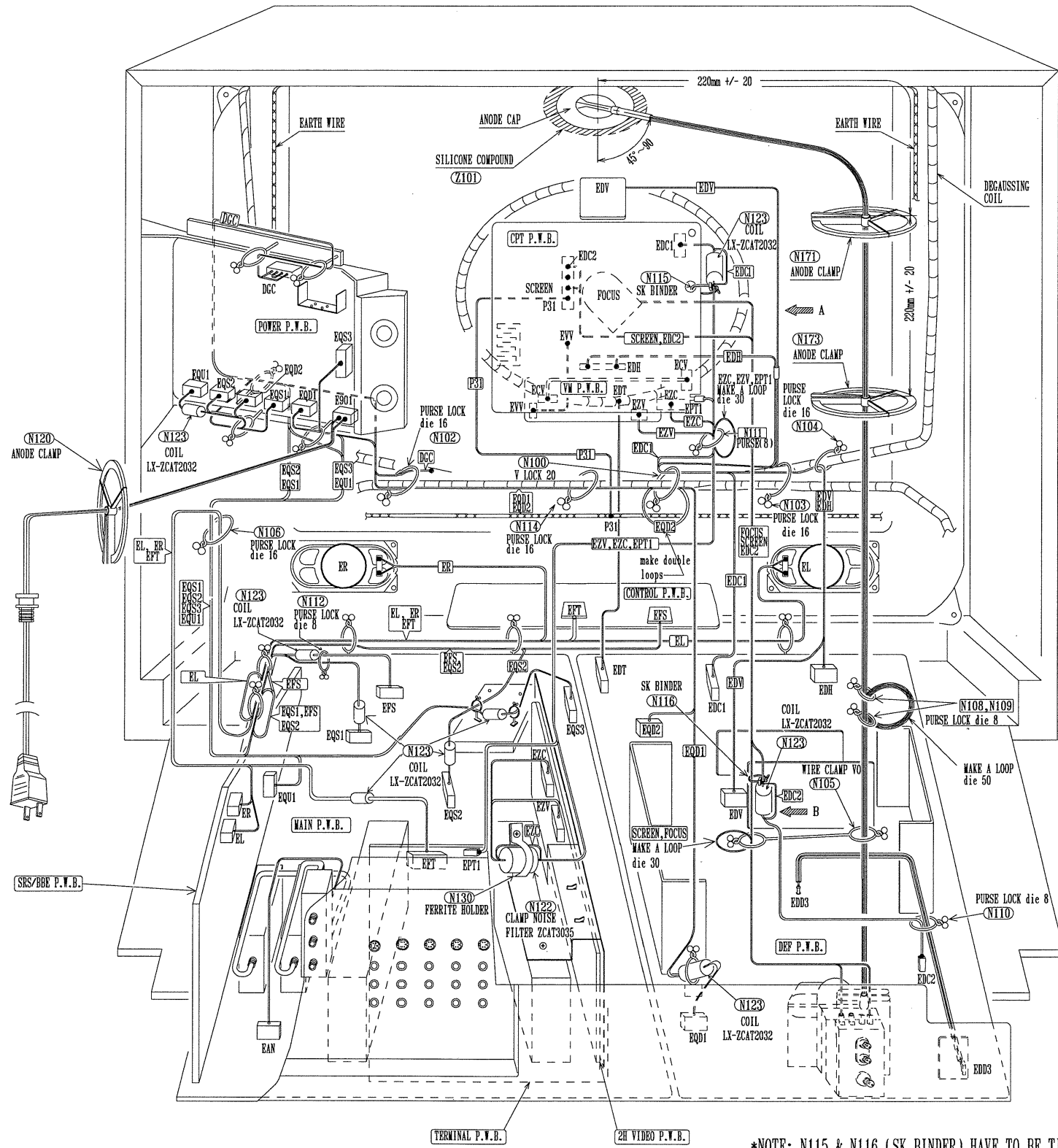


*NOTE: N115 & N116 (SK BINDER) HAVE TO BE TIGHT

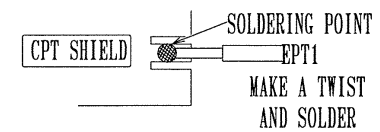
No.	SYMBOL	INSERTING LOCATION
1	EVV	V.M. P.W.B.
2	ECV	V.M. P.W.B.
3	EZV	V.M. C.P.W.B.
4	EZC	CPT P.W.B.
5	EDC1	CPT P.W.B.
6	EDC2	CPT P.W.B.
7	EQD1	POWER P.W.B.
8	EQD2	POWER P.W.B.
9	EQS1	POWER P.W.B.
10	EQS2	POWER P.W.B.
11	EQS3	POWER P.W.B.
12	EPT	AUDIO P.W.B.
13	ER	SURROUND P.W.B.
14	EL	SURROUND P.W.B.
15	EFS	TERMINAL P.W.B.
16	EQU1	POWER P.W.B.
17	EPD1	POWER P.W.B.
18	EDV	DEF P.W.B.
19	DGC	POWER P.W.B.
20	ESP	CPT P.W.B.
21	EAN	SIGNAL B P.W.B.
22	EGND1	CPT SHIELD
23	EGND2	TERMINAL SHIELD
24	EPT1	CPT SHIELD
25		
26		
27		

CAUTION: 1.A → B MEANS CONNECTOR → CONNECTOR
2.A → B MEANS DIRECTION OF CONNECTION (A TO B)

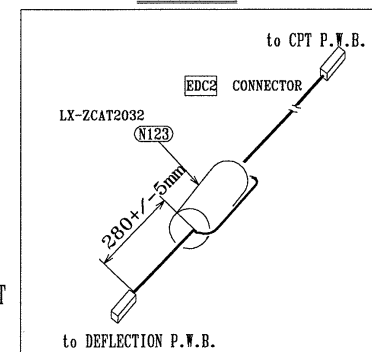
32UDX10S WIRING DRAWING



EPT1 ASSY DETAIL



"B" VIEW

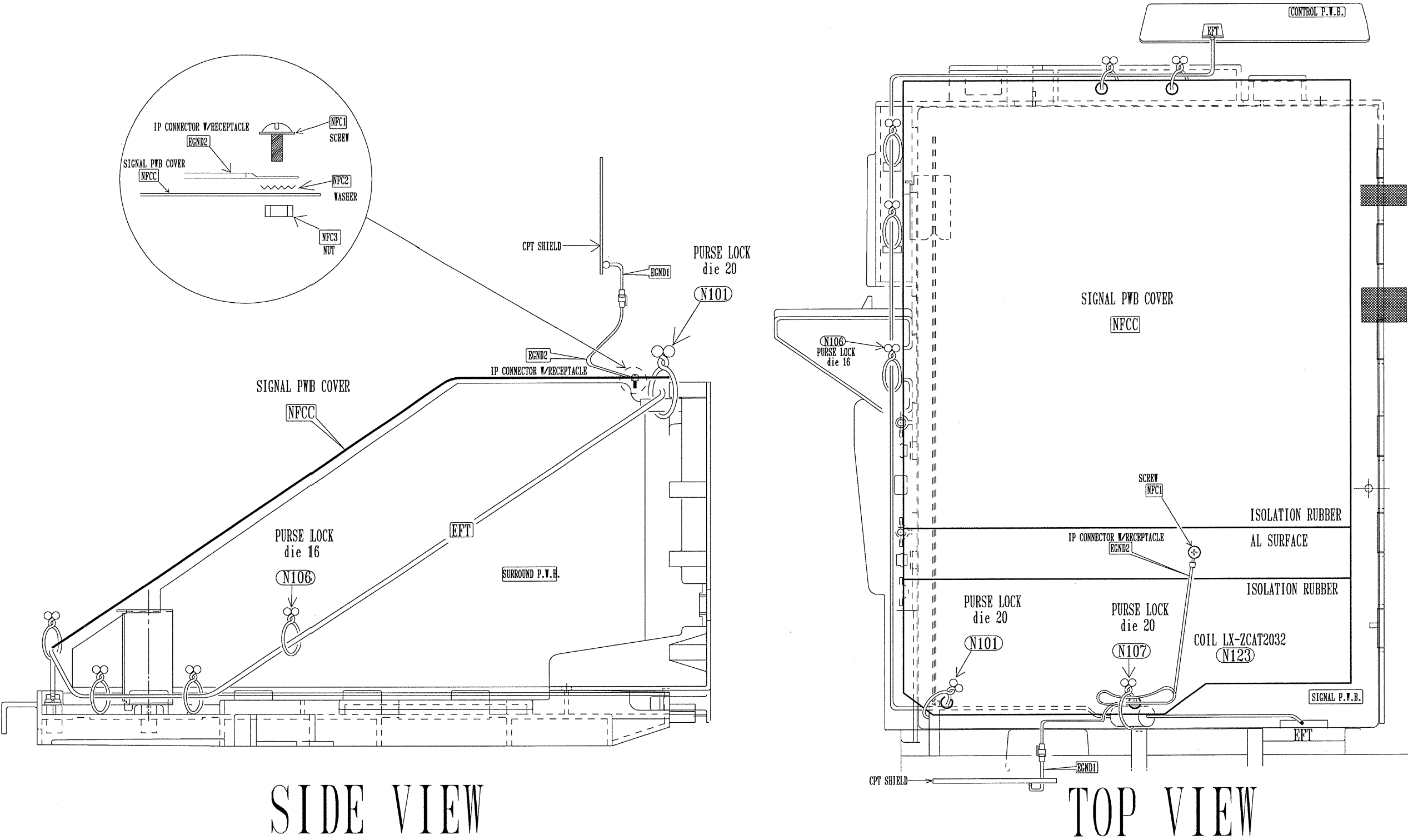


No.	SYMBOL	INSERTING LOCATION
1	EVV	VW P.W.B. → VW COIL
2	ECV	VW B P.W.B. → CPT P.W.B.
3	EZV	VW C P.W.B. → 2H VIDEO P.W.B.
4	EZC	CPT P.W.B. → 2H VIDEO P.W.B.
5	EDC1	CPT P.W.B. → DEF P.W.B.
6	EDC2	CPT P.W.B. → DEF P.W.B.
7	EQD1	POWER P.W.B. → DEF P.W.B.
8	EQD2	POWER P.W.B. → DEF P.W.B.
9	EQS1	POWER P.W.B. → SIGNAL P.W.B.
10	EQS2	POWER P.W.B. → SIGNAL P.W.B.
11	EQS3	POWER P.W.B. → SIGNAL P.W.B.
12	EPT	AUDIO P.W.B. → CONTROL P.W.B.
13	ER	SURROUND P.W.B. → SP
14	EL	SURROUND P.W.B. → SP
15	EFS	TERMINAL P.W.B. → CONTROL P.W.B.
16	EQU1	POWER P.W.B. → SURROUND P.W.B.
17	EPD1	POWER P.W.B. → DEF P.W.B.
18	EDV	DEF P.W.B. → Y DY
19	DCC	POWER P.W.B. → DEGAUSSING COIL
20	ESP	CPT P.W.B. → EPT
21	EAN	SIGNAL B P.W.B. → ANT SW BOX
22	BGN1	CPT SHIELD → TERMINAL SHIELD
23	BGN2	TERMINAL SHIELD → CPT SHIELD
24	EPT1	CPT SHIELD → SIGNAL PMB COVER
25		
26		
27		

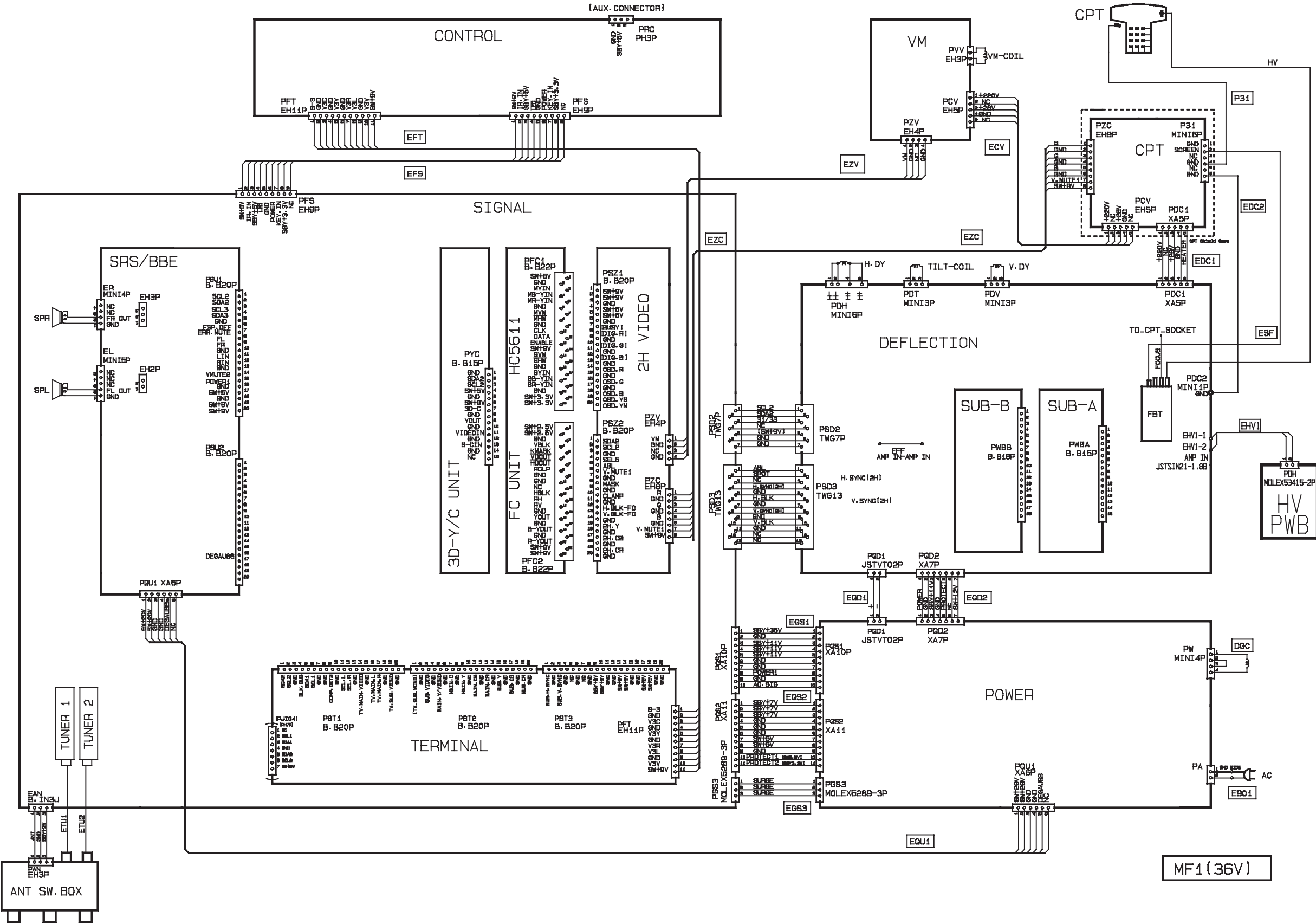
CAUTION: 1.A $\longleftrightarrow$ B MEANS CONNECTOR CONNECTOR
2.A $\longrightarrow$ B MEANS DIRECTION OF CONNECTION (A TO B)

*NOTE: N115 & N116 (SK BINDER) HAVE TO BE TIGHT

32/36UDX10S WIRING DRAWING

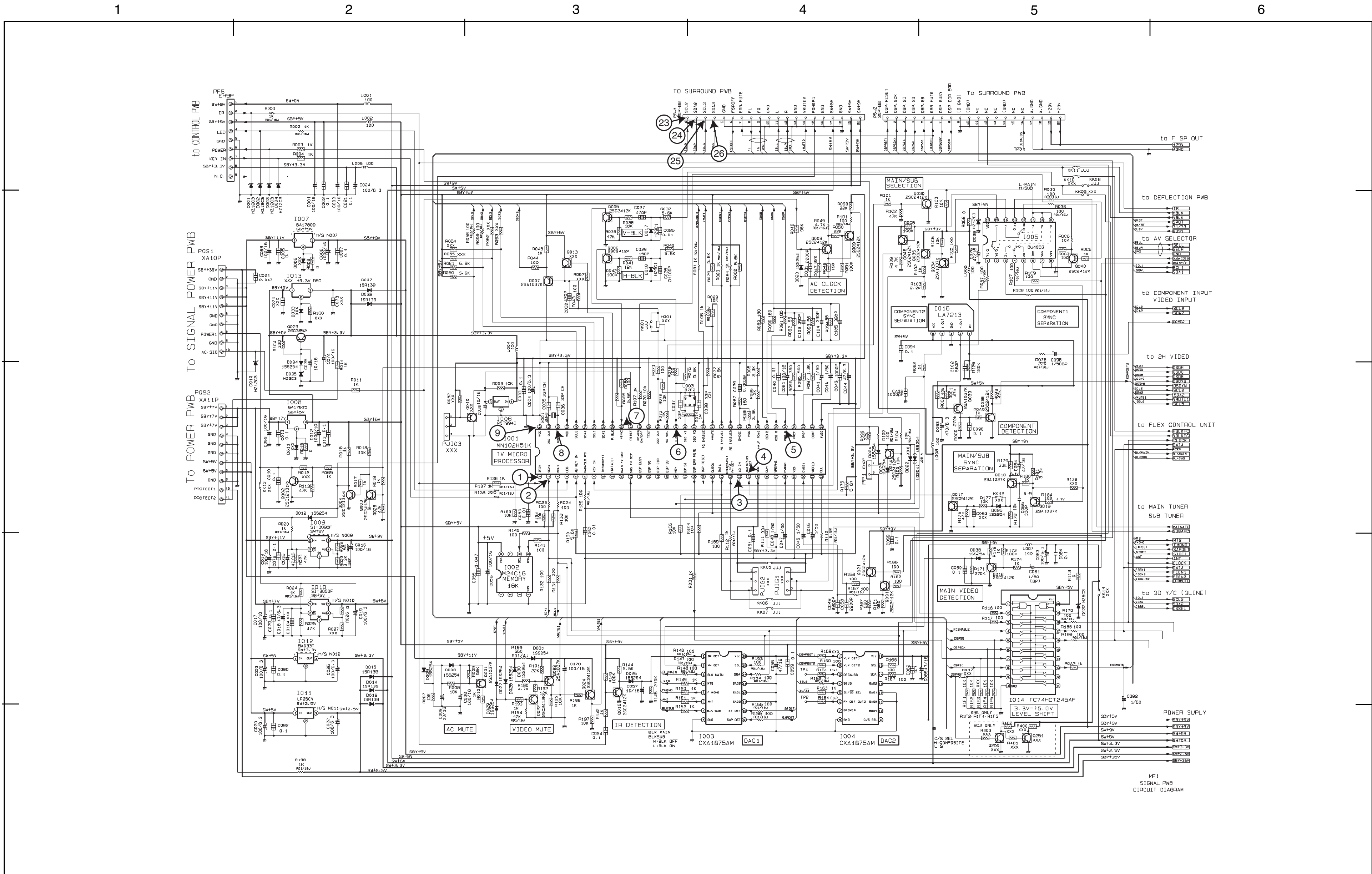


WIRING DIAGRAM



PRODUCT SAFETY NOTE: Components marked with a  and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

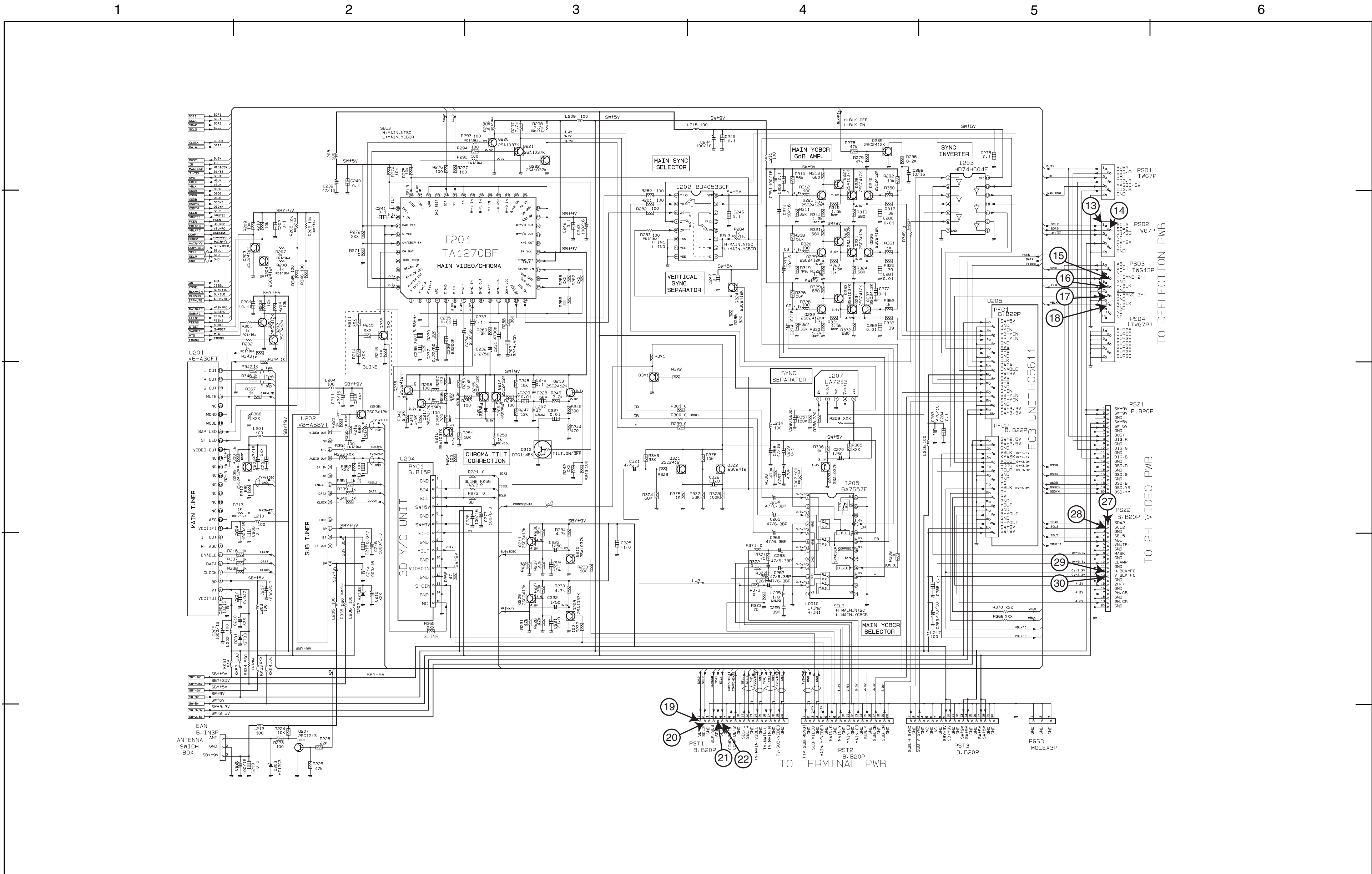
CIRCUIT SCHEMATIC DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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CIRCUIT SCHEMATIC DIAGRAM

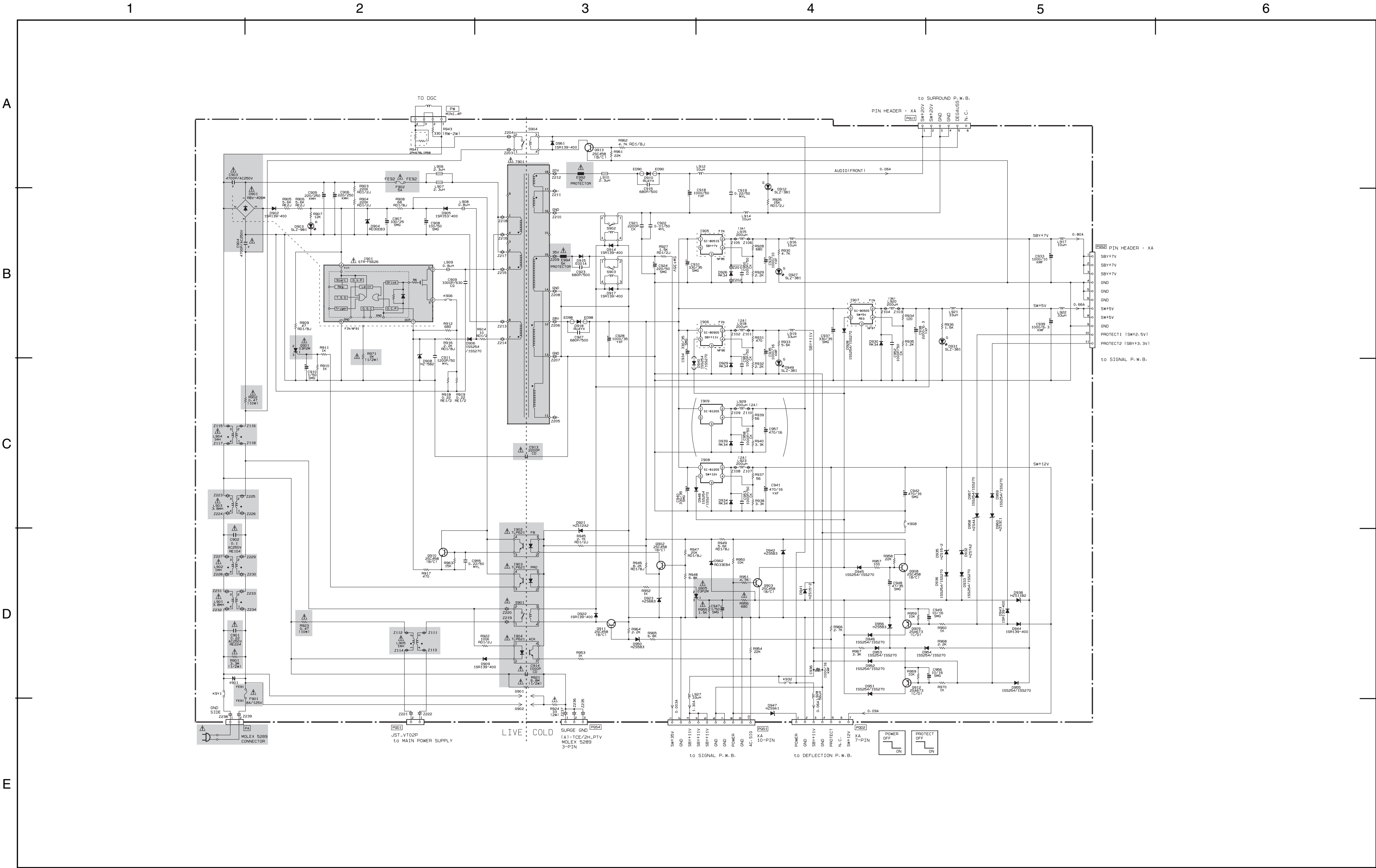


- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
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CIRCUIT SCHEMATIC DIAGRAM

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SIGNAL POWER
SUPPLY



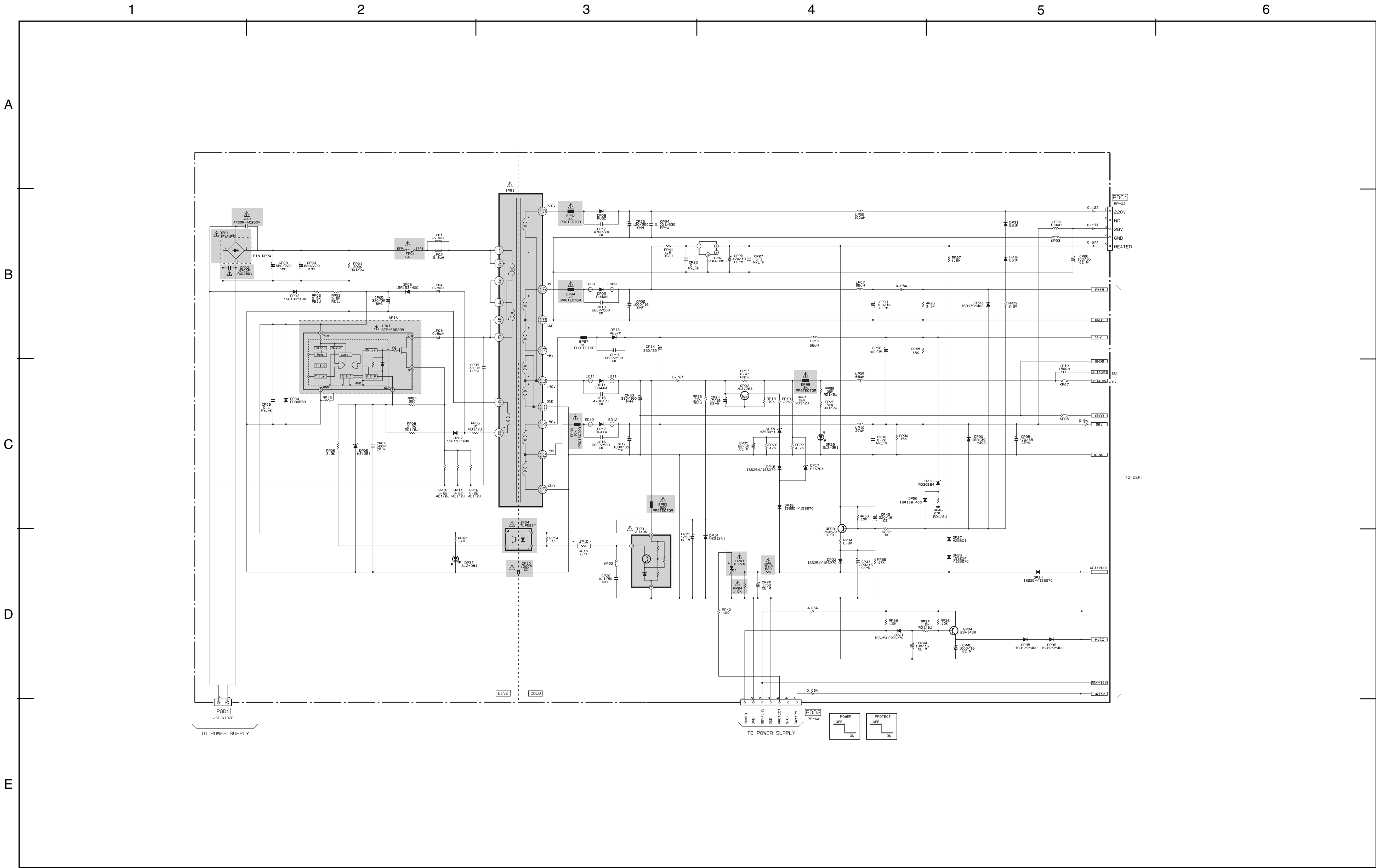
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
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SIGNAL POWER
SUPPLY

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CIRCUIT SCHEMATIC DIAGRAM

DEFLECTION
POWER SUP.



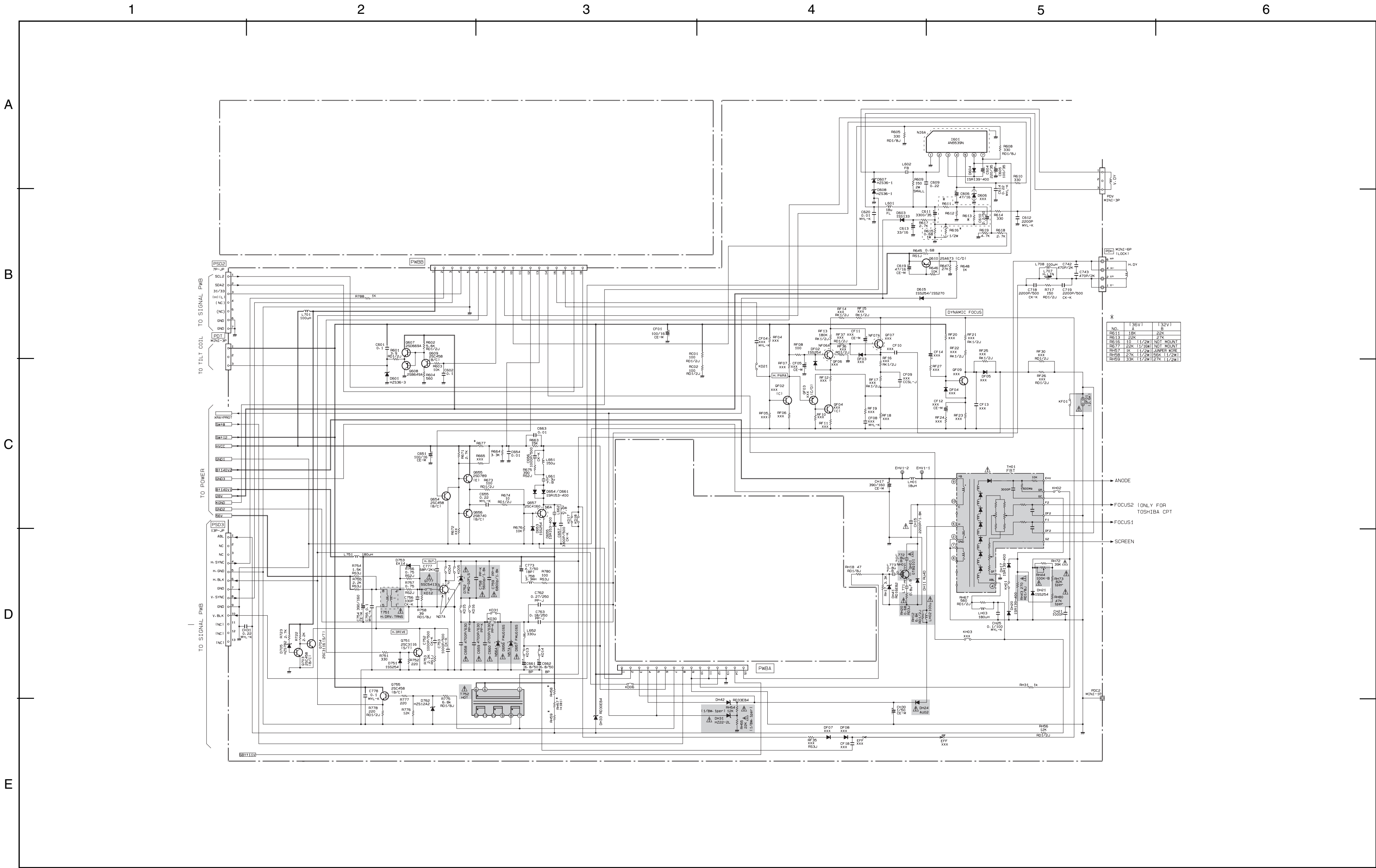
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
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DEFLECTION POWER SUP.

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CIRCUIT SCHEMATIC DIAGRAM

DEFLECTION



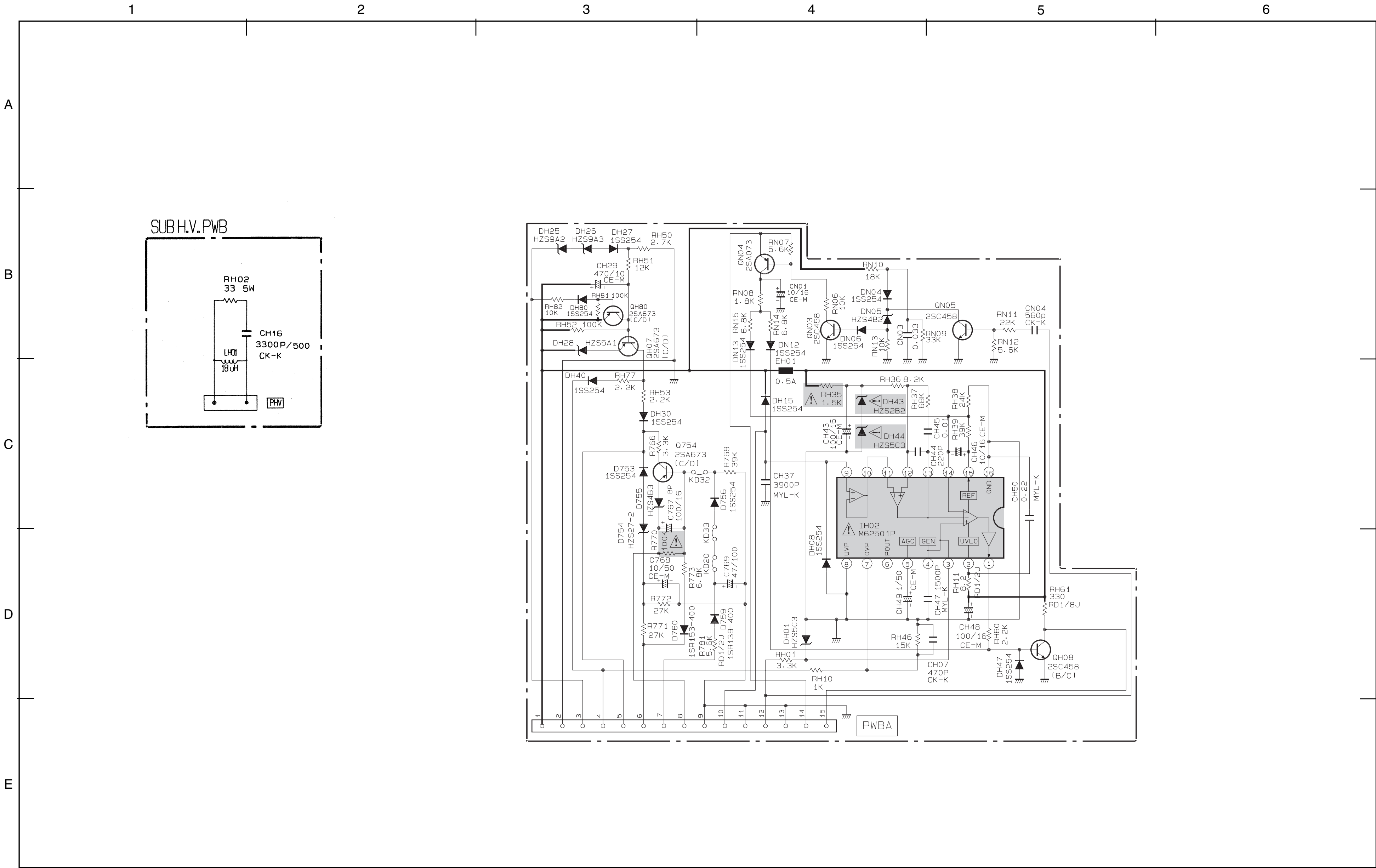
- All DC voltage to be measured with a tester (100k Ω /V). Voltage taken on a complex color bar signal including a standard color bar signal.
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DEFLECTION

CIRCUIT SCHEMATIC DIAGRAM

SUB A

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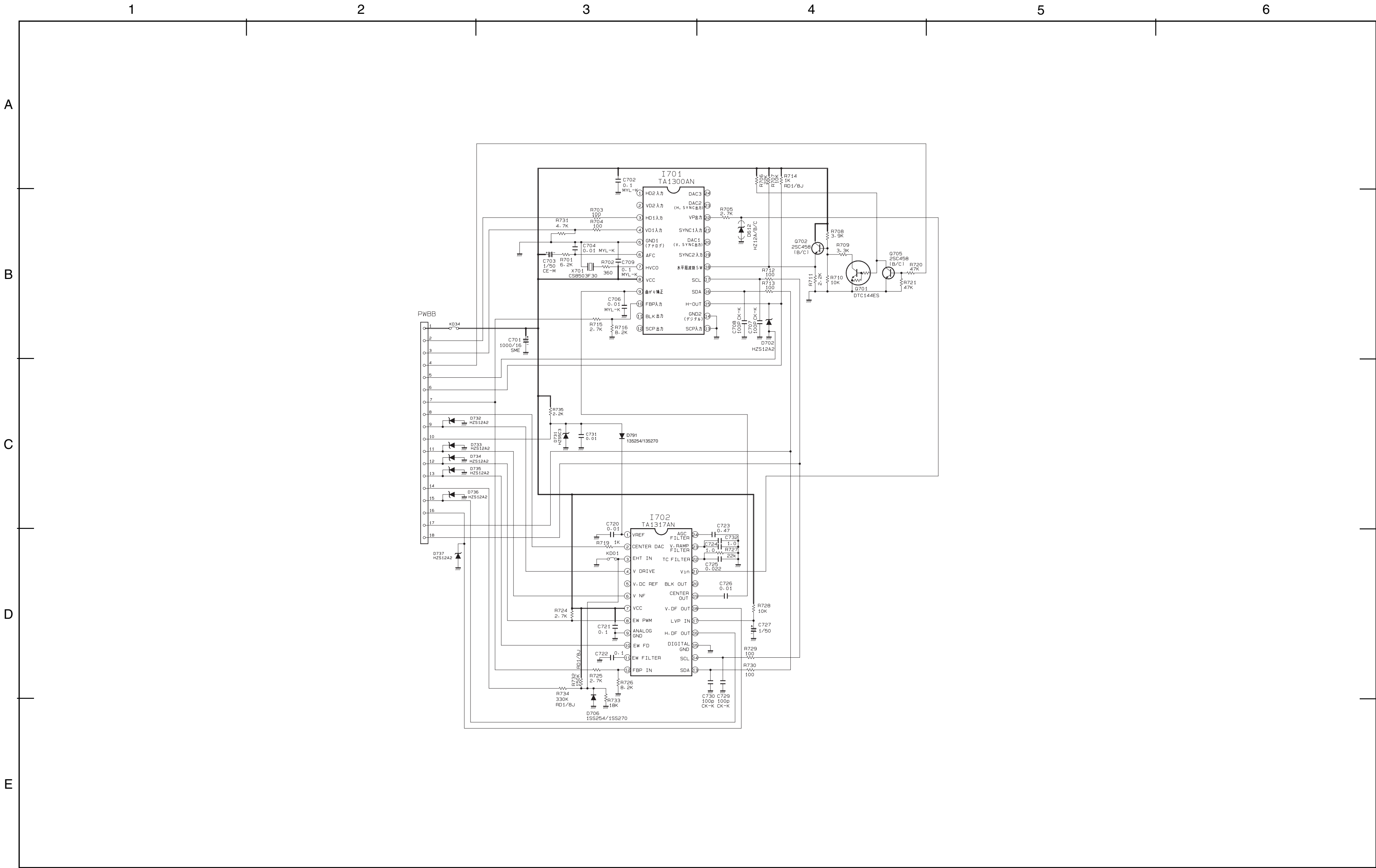


- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
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SUB A

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CIRCUIT SCHEMATIC DIAGRAM

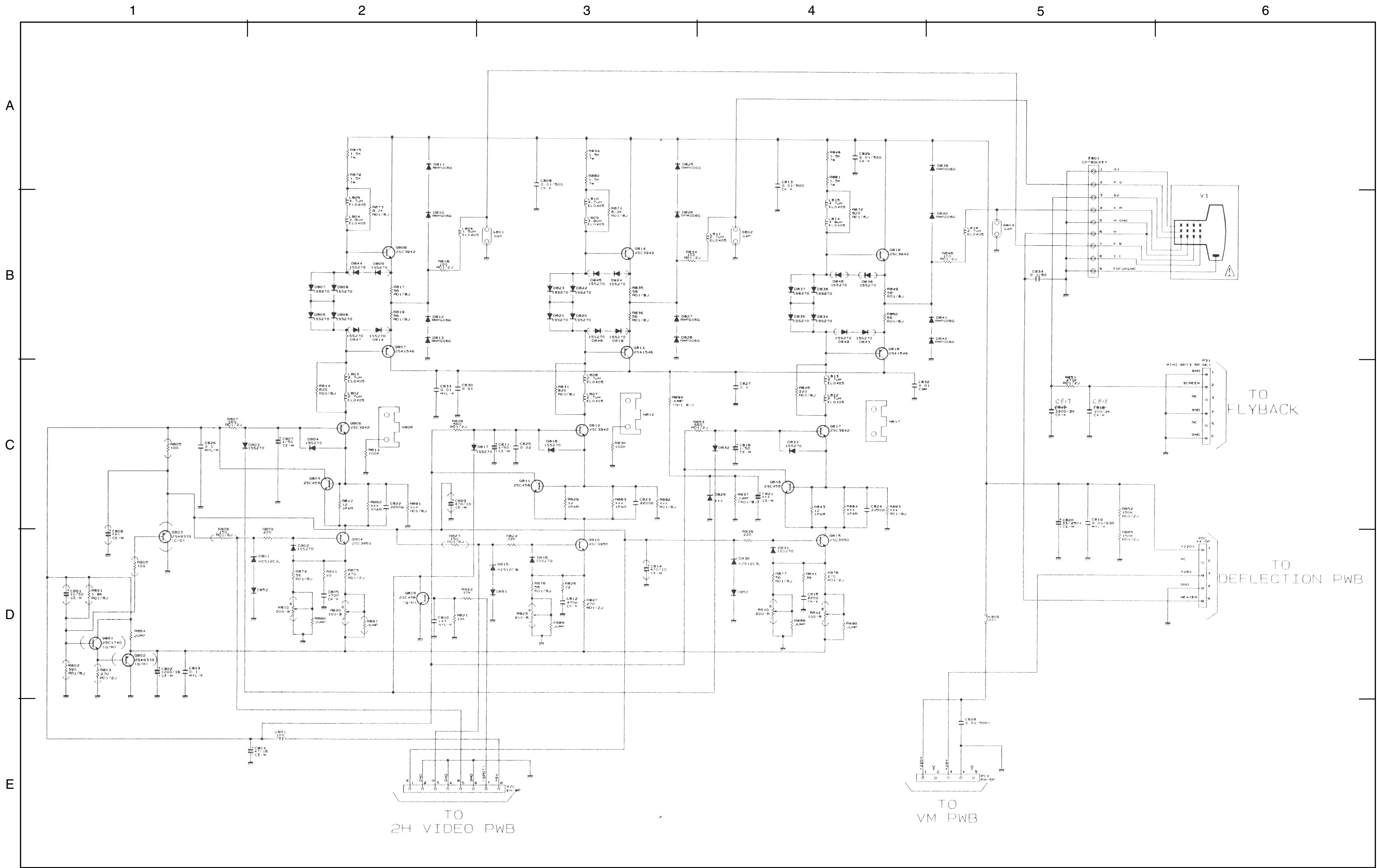


- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
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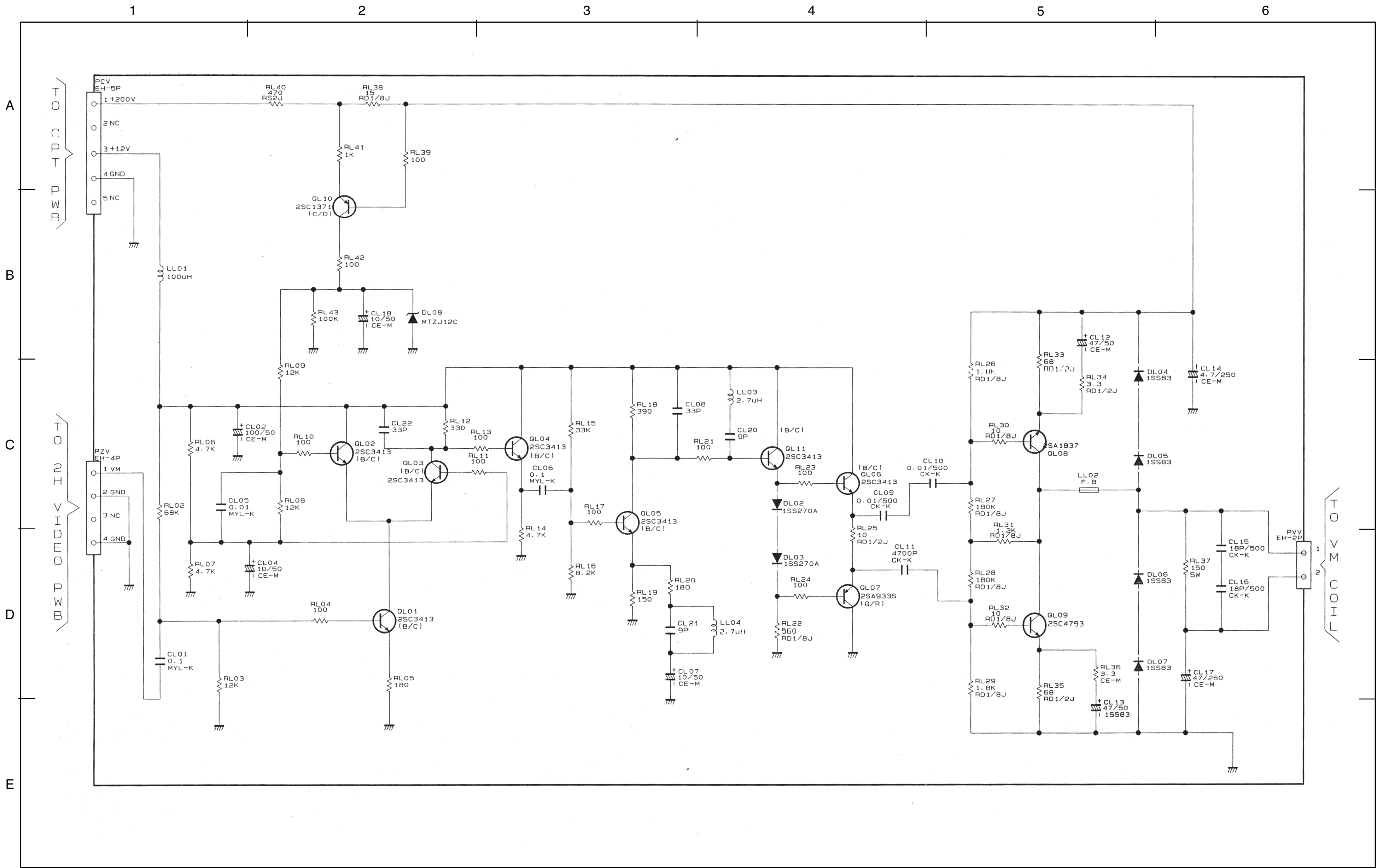
CIRCUIT SCHEMATIC DIAGRAM

CPT



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

CPT

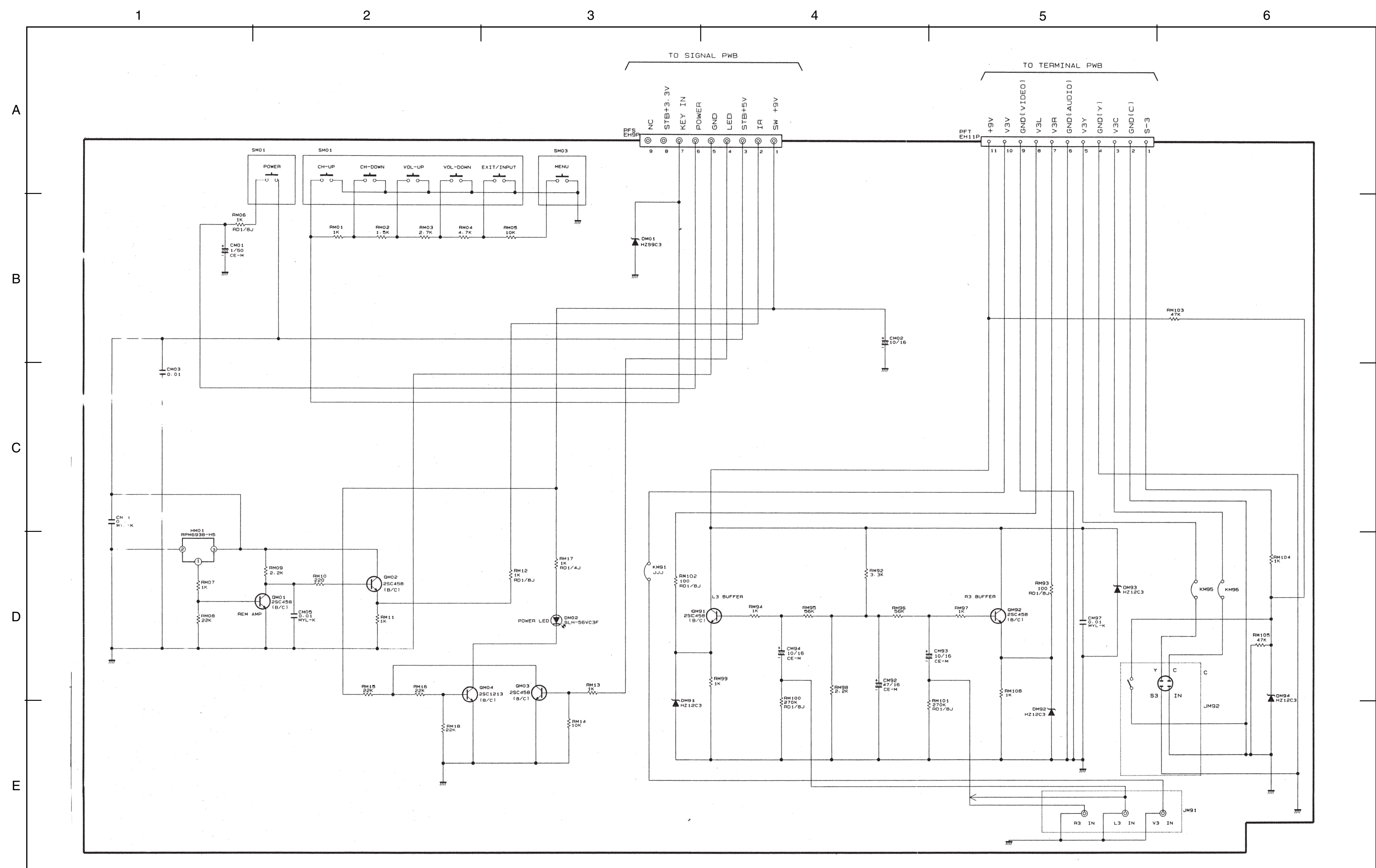


- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

CIRCUIT SCHEMATIC DIAGRAM

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CONTROL



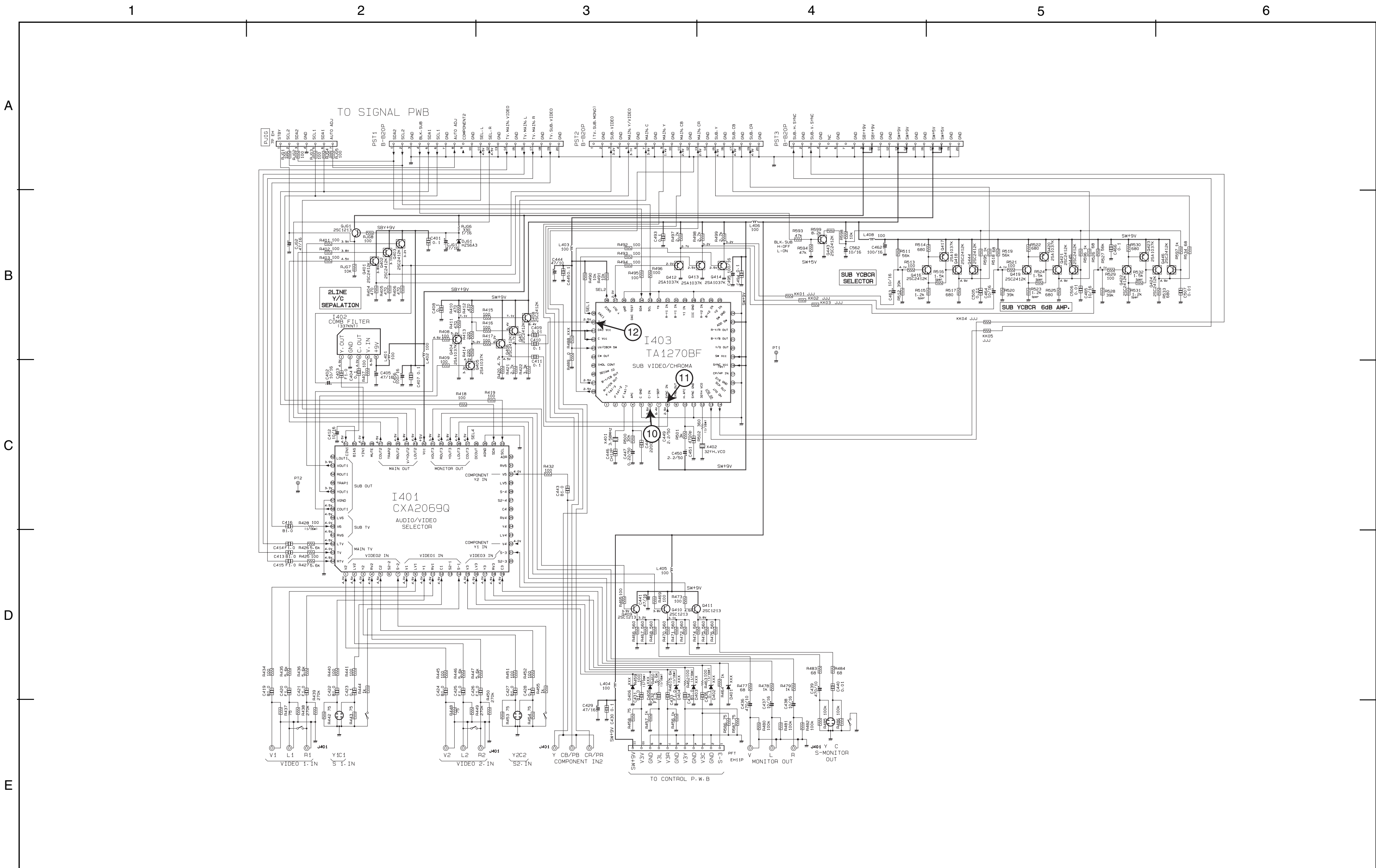
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

CONTROL

CIRCUIT SCHEMATIC DIAGRAM

TERMINAL

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- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
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TERMINAL

CIRCUIT SCHEMATIC DIAGRAM



B

C

D

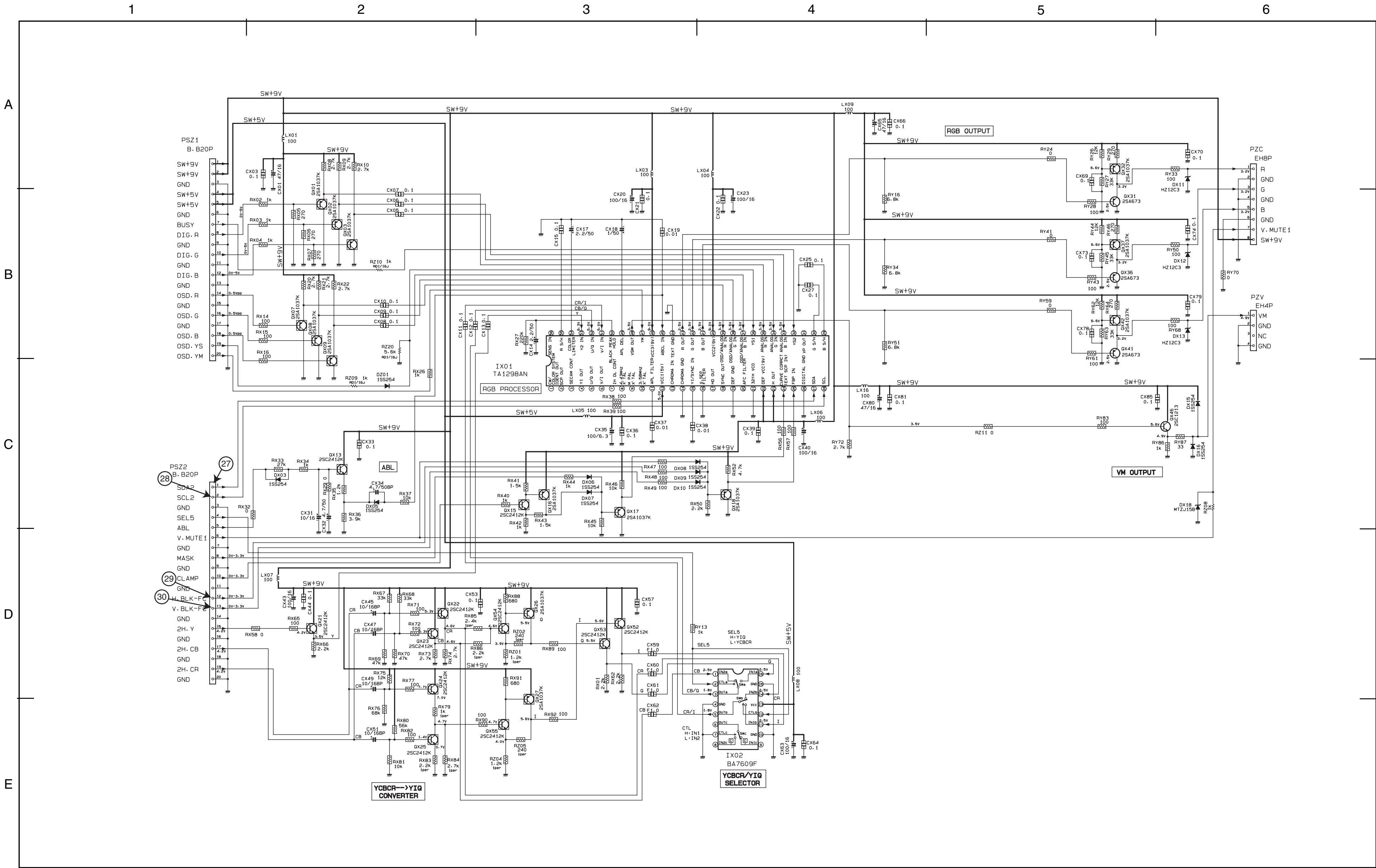
E

SRS/BBE

CIRCUIT SCHEMATIC DIAGRAM

2H VIDEO

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- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

2H VIDEO

HITACHI