HITACHI
SERVICE MANUAL

YK | No. 0430E

46EX2B/K

NTSC | AP22 Chassis

R/C:CLU-660GR
CLU-609

CONTENTS

Refer to the 50UX10B/50UX11K service manual (TY No. 0431E) for items shown below.

- CAUTIONS WHEN CONNECTING/DISCONNECTING THE HV CONNECTOR
- PROTECT CIRCUIT BLOCK DIAGRAM

Refer to the 55EX1K service manual (YK No. 0405E) for the printed wiring boards other than the sub deflection P.W.B.

CAUTION: Before servicing this chassis, it is important that the service technician read the "Safety Precaution" and "Product Safety Notices" in this Service Manual.

SAFETY NOTICE
USE ISOLATION TRANSFORMER WHEN SERVICING

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

* For continued x-radiation protection, replace picture tube with original type or Hitachi approved equivalent tipe.

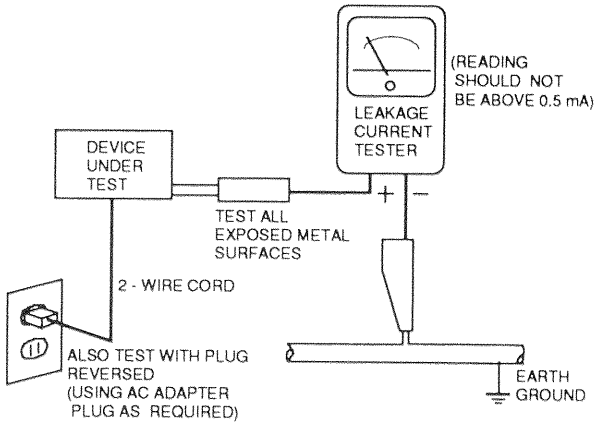
SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

PROJECTION COLOR TELEVISION

April 1992 **CONSUMER ELECTRONICS DIVISION**

SAFETY PRECAUTIONS

1. Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to the following items:
   a. Be sure that no built-in protective devices are defective and/or have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
   b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the picture tube and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
   c. **Antenna Cold Check** — With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohms or greater than 5.2 megohms, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
   d. **Leakage Current Hot Check** — With the instrument completely reassembled, plug the AC line cord directly into a 120 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.0 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal waterpipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle bracket, metal cabinet, screwheads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamps. Reverse the instrument power cord plug in the outlet and repeat test.

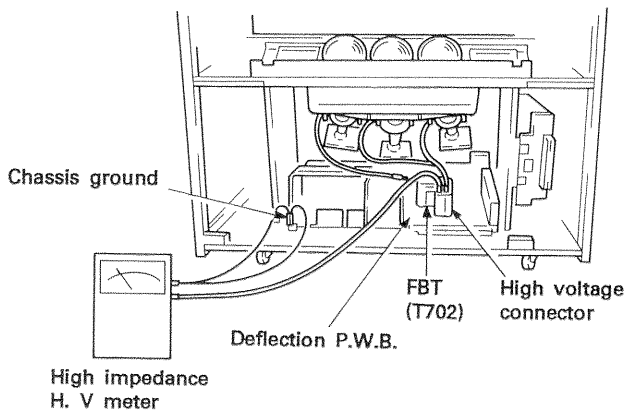


AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

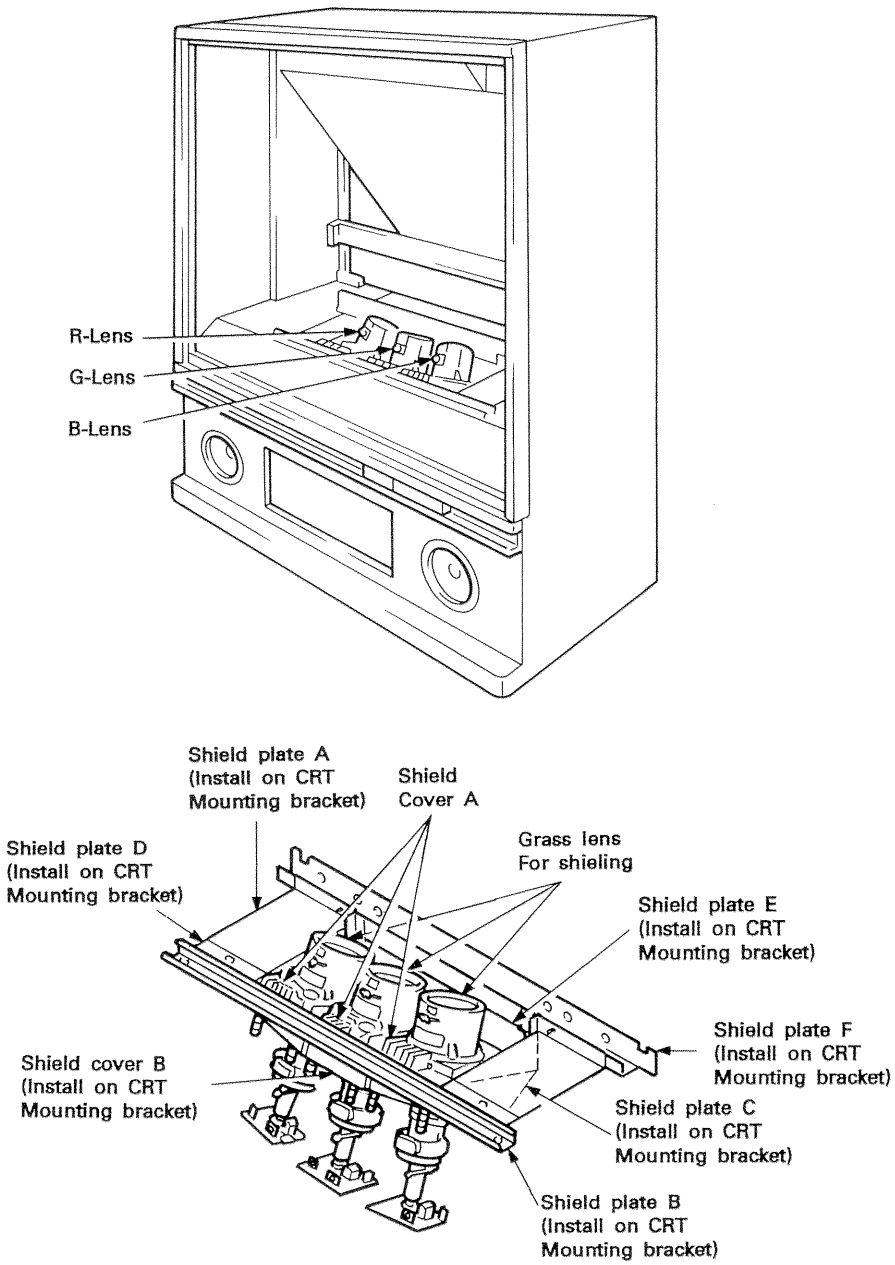
   e. **High Voltage** — This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit may correctly be operated.
   f. **Serviceman warning** — With minimum Black Level and Picture, operating high voltage in this receiver is lower than **31.6kV.** In case any component having influenced on high voltage is replaced, confirm that high voltage with minimum Black Level and Picture is lower than **31.6kV.**
   To measure H.V. use a high impedance H.V. 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 with Anode button is made.



g. **X-radiation — TUBE:** The primary source of X radiation in this receiver is the picture tube. The tube utilized for the above mentioned function 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 a problem of excessive high voltage, 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.

h. **X-radiation Shield —**
1) This receiver is provided X-ray shield plates for the protection of X-radiation. Do not remove X-ray shield **plates A, B, C, D, E, F and shield covers A, B shown in Fig. 1 unnecessarily, when troubleshooting and/or making test measurements.**
2) To prevent X-radiation, after replacement of picture tube and lens, confirm these components to be fixed correctly to bracket and cabinet, and not to be taken off easily.



Detailling X-radiation shields

Fig. 1

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.

3. **Design Alteration Warning** — Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to, circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions may void the manufacturer's warranty and may make you, the servicer responsible for personal injury or property damage resulting therefrom.

4. **Picture Tube Implosion Protection Warning** — The picture tube in this receiver employs integral implosion protection. For continued implosion protection, replace the picture tube only with one of the same type number. Do not remove, install, or otherwise handle the picture tube in any manner without first putting on shatterproof goggles equipped with side shields. People not so equipped must be kept safely away while picture tubes are handled. Keep the picture tube away from your body. Do not handle the picture tube by its neck.

5. **Hot Chassis Warning** — **a**. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and may be safely serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0 V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground. **b**. Some TV receiver chassis normally have 85 V AC (RMS) between chassis and earth ground regardless of the AC plug polarity. These chassis can be safely serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection. **c**. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.

6. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: **a**. near sharp edges, **b**. near thermally hot parts — be sure that leads and components do not touch thermally hot parts, **c**. the AC supply, **d**. high voltage, and **e**. antenna wiring. Always inspect in all areas for pinched, out-of-plate, or frayed wiring. Do not change spacing between components, and between components and the printed-circuit board. Check AC power cord for damage.

7. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

8. **PRODUCT SAFETY NOTICE** — Many TV electrical and mechanical parts have special safety-related characteristics some of which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified Hitachi service data by shading on schematics and by a (⚠) in the parts list. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part in Hitachi service data parts list might create shock, fire, and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate. For the latest information, always consult the appropriate current Hitachi service literature. A subscription to, or additional copies of Service literature may be obtained at a normal charge from Hitachi.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service data and its supplements and addenda, read and follow the SAFETY PRECAUTIONS on page 2 of this publication.
NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 2 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

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".
   The H.V. Distribution Box has an internal 400MΩ resistor (bleeder resistor) connected from the high voltage to ground. After power is removed from the instrument the high voltage will discharge through the high voltage bleeder resistor. If the tubes have high voltage after power is removed then the bleeder resistor is defective or the bleeder ground is disconnected.
3. Discharge the picture tubes anode at any of the R, G, or B outputs on the High Voltage distribution box only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube high voltage distribution box R, G, or B output, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemical 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 with 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.

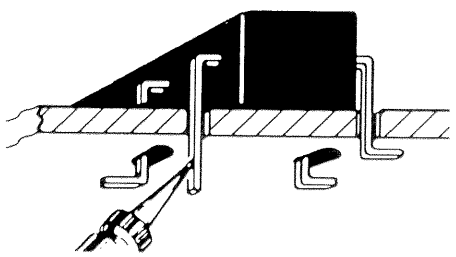
Electrostatically Sensitive (ES) Devices

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 buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise 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 unsoldering 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 antistatic, 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 the 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 the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact, then solder each connection.

Power Output Transistor 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 out 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.

Fuse 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.

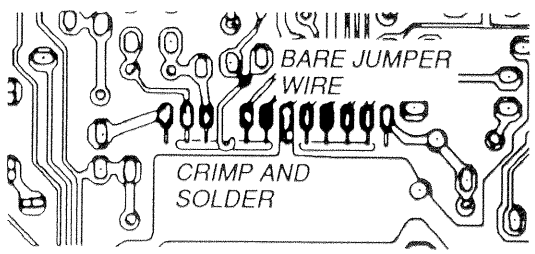
In Critical Copper Pattern Areas

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 areas is designated as Critical Copper Pattern and is identified and illustrated in this service data in the section titled Safety Related Copper Pattern (see table of contents for page number). 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.

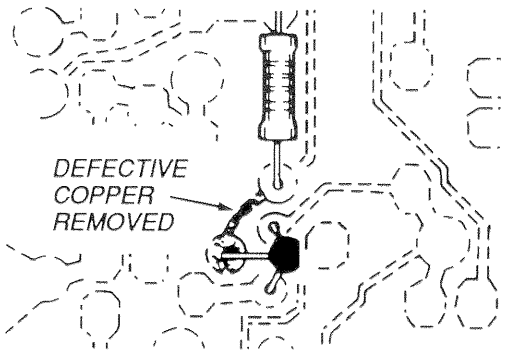


Install Jumper Wire and Solder

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 that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wirer from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.

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

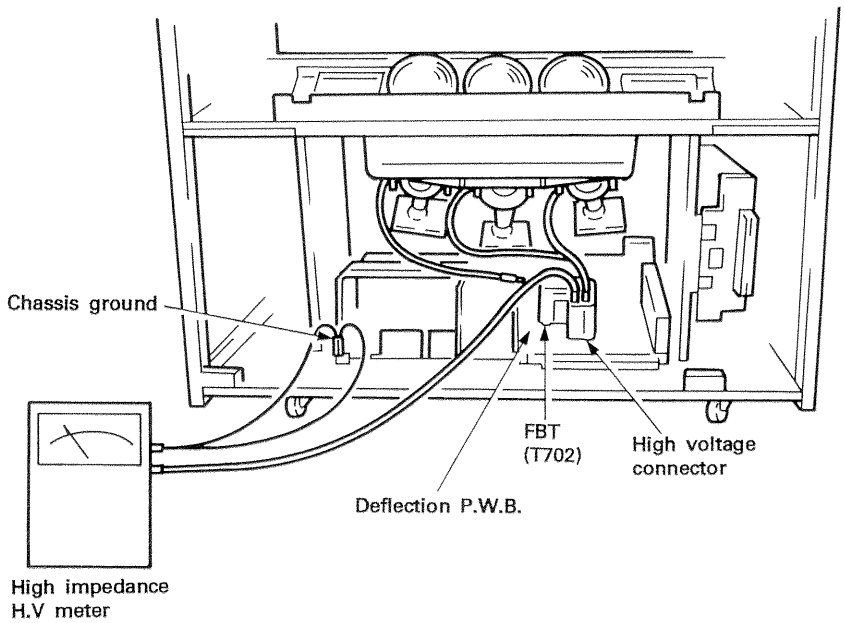
Frequency Synthesis (FS) Tuning Systems

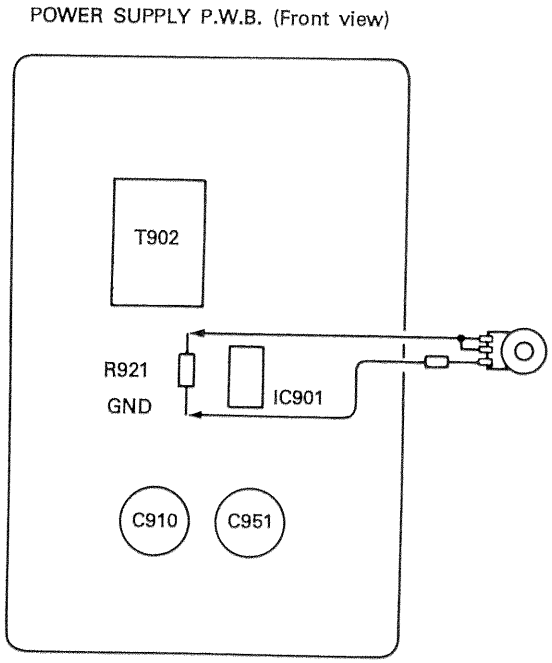
1. Always unplug the instrument AC power cord before disconnecting or reconnecting FS tuning system cables and before removing or reinserting FS tuning system modules.
2. The FS tuner must never be disconnected from the FS tuning control module while power is applied to the instrument.
3. When troubleshooting 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.

TECHNICAL CAUTIONS

High voltage limiter circuit operation check

1. Connect the high voltage voltmeter between the high voltage connector and chassis ground as shown Fig. 2.
2. Set the AC input voltage to 120V.
3. Set picture and black level control fully to + side (max.) of the on-screen indication.
4. Connect the jig as shown in Fig. 2 to POWER SUPPLY P.W.B.
5. Turn the 20 kΩ-B VR of the jig fully clockwise viewed from the knob side.
6. Turn on the set.
7. Gradually turn the 20 kΩ-B VR of the jig counterclockwise and check that the picture disappears when the high voltage is less than 38kV.
8. Turn off the set immediately after checking that the picture disappears.
9. Remove the jig and voltmeter.





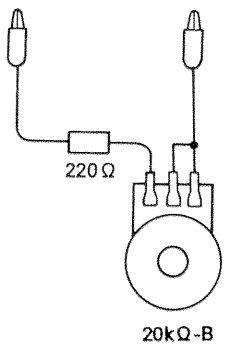


Fig. 2

GENERAL INFORMATION

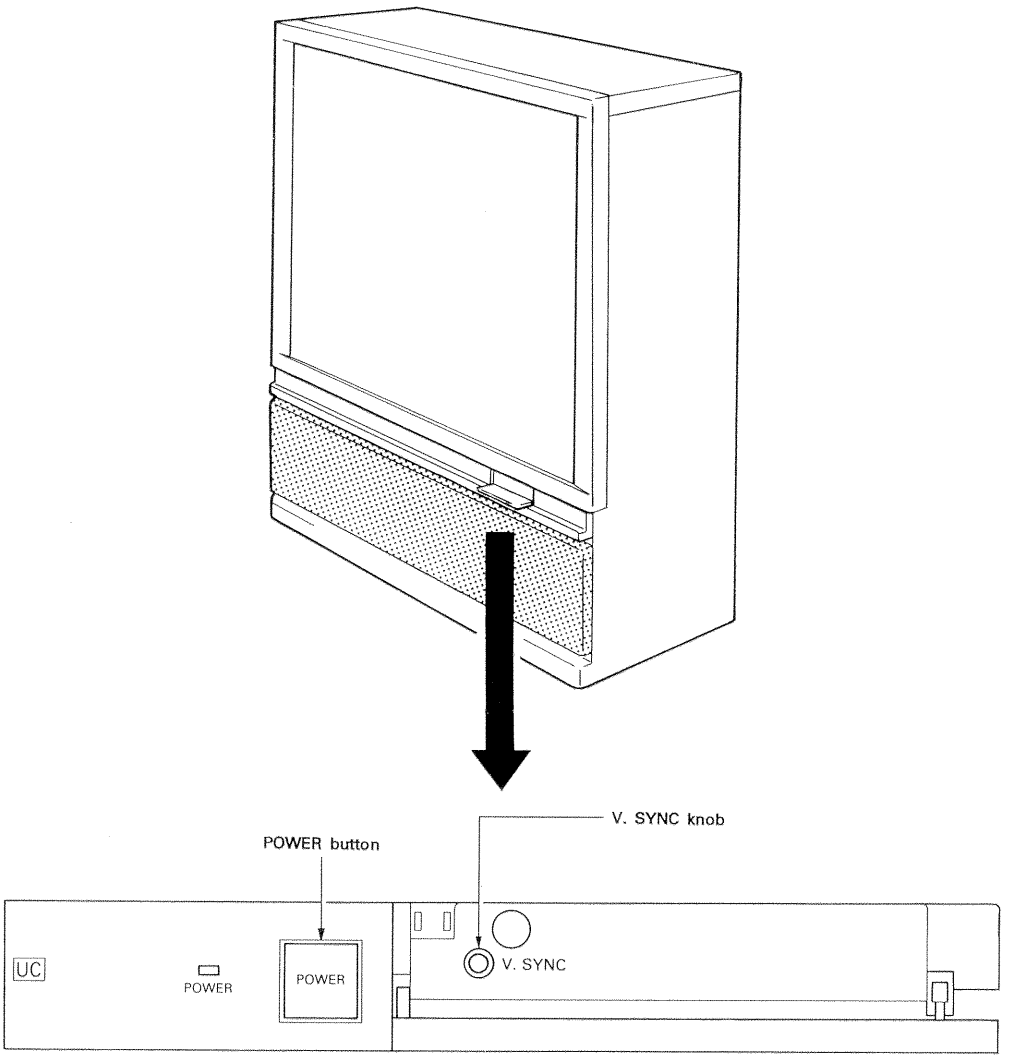


Fig. 3 Control panel

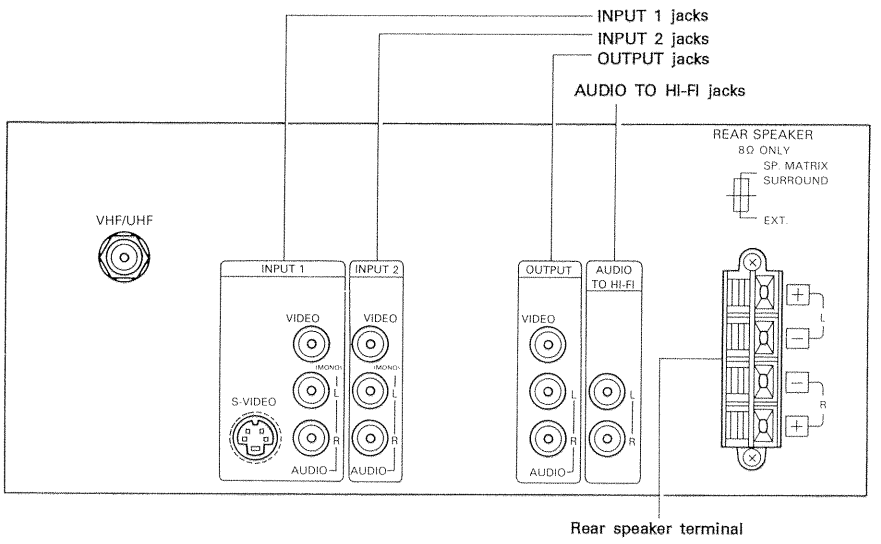


Fig. 4 Monitor connection panel

SPECIFICATIONS

Model:	46EX2B/K
Cathode-Ray tube:	80° defrection 7 inch. (170WB22R/170WB22G/ 170WB22B)
Power Input:	120 volts AC, 60Hz
Power Consumption:	225 watts – Maximum 155 watts – Operating
Antenna Impedance:	75 ohm Unbalanced VHF/UHF/CATV
Receiving Channel:	CH VHF 2-13 UHF 14-69 EXT. Mid (A-2)-(A-1), 4+ CATV Mid A-I CATV Super J-W CATV Hyper (W + 1)-(W + 28) CATV Ultra (W + 29)-(W + 53)
Intermediate Frequency:	Picture I-F Carrier 45.75 MHz Sound I-F Carrier 41.25 MHz Color Sub Carrier 42.17MHz
Video Input:	1 Voltp-p 75 ohm
Video Output:	1 Voltp-p 75 ohm
Audio Input:	0.4 volt rpm, 40 k ohm
Stereo Audio Output:	0.4 volt rpm, 1 k ohm
Audio Output Power:	Front – 7 watts rms per channel, 8 ohm impedance. Rear – 3 watts rms per channel, 8 ohm impedance.
Anode Voltage:	30.0 kV (Zero Beam Current)
Brightness:	290 ft-L Nominal (Peak White)
Speakers:	2 Woofers – 6 inch (16 cm) round 2 Tweeters – 2 inch (5 cm) round
Dimension:	Width ... 48-15/16 Height .. 54-11/16 Depth ... 27-7/16
Circuit Board Assemblies:	CPT (B) P.C.B CPT (G) P.C.B CPT (R) P.C.B Convergence Correction P.C.B Signal P.C.B Power Supply P.C.B Deflection P.C.B Sub Deflection P.C.B SP Terminal P.C.B Control P.C.B 2-LINE COMB P.C.B P in P Selector P.C.B

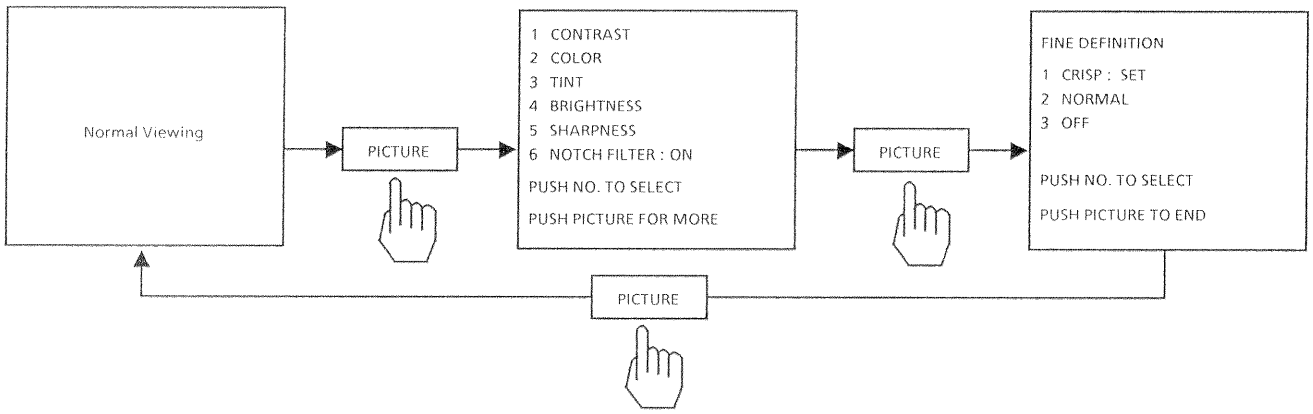
CIRCUIT PROTECTION

Fuse (or Device)	Circuit Protected	Physical location
F901 5.0A-125V (AC)	Main Fuse	Signal Circuit Board
F903 4.0A-125V (DC)	〃	Power Supply Circuit Board
F904 4.0A-125V (DC)	Audio Output Circuit	Power Supply Circuit Board
F905 1.6A-125V (DC)	Deflection Circuit	Power Supply Circuit Board

ADJUSTING FOR PICTURE AND SOUND FUNCTIONS

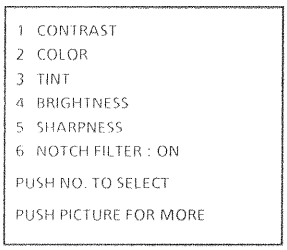
PICTURE BUTTON

Press this button to display the following picture adjustment:

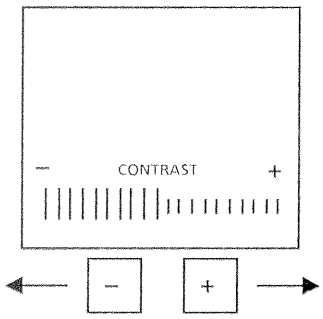


Example – "CONTRAST" adjustment

(1) Press "PICTURE" button on Remote Control once display as Picture menu.



(2) Press number button "1" to select CONTRAST.



Press " – " button to decrease contrast, or press " + " button to increase contrast.

Adjustment for Picture

- **CONTRAST adjustment**

The "CONTRAST" function adjusts the overall brightness and contrast of the picture.

(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press number button "1" to select CONTRAST.
(3) Press " + " button repeatedly to increase contrast, or press " – " button repeatedly to decrease contrast.

- **COLOR adjustment**

The "COLOR" function adjusts the amount of color in the picture.

(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press number button "2" to select COLOR.
(3) Press " + " button repeatedly to inclease color, or press " – " button repeately to decrease color.

- **TINT adjustment**

The "TINT" function adjusts the color of flesh tones.

(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press numer button "3" to select TINT.
(3) Press " + " button repeatedly to add more red tint, or press " – " button repeatedly to add more green tint.

- **BRIGHTNESS**

The "BRIGHTNESS" function adjusts the brightness of the dark portion of the picture.

(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press number button "4" to select BRIGHTNESS.
(3) Press " + " button repeatedly to increase brightness, or press " – " button repeatedly to decrease brightness.

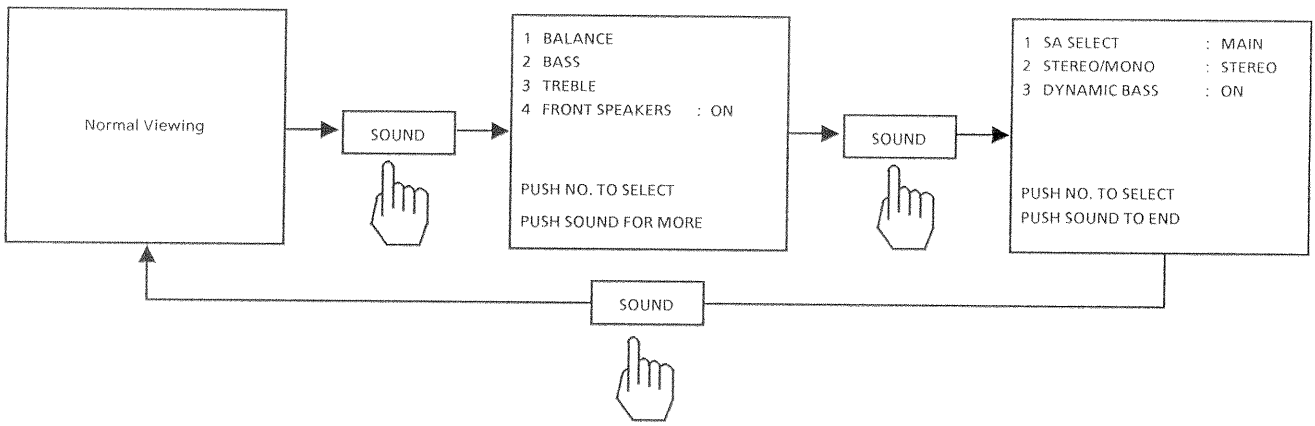
- **SHARPNESS**

The "SHARPNESS" function adjusts picture sharpness.

(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press number button "5" to select SHARPNESS.
(3) Press " + " button repeatedly to increase sharpness, or press " – " button repeatedly to decrease sharpness.

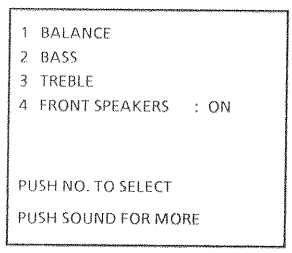
SOUND BUTTON

Press this button to display the following sound adjustment:

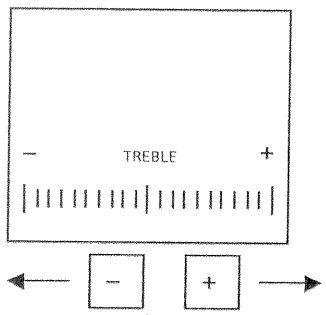


Example – "TREBLE" adjustment

(1) Press "SOUND" button on remote control once display as Sound menu.



(2) Press number button "3" to select TREBLE.



Press " – " button to decrease treble, or press " + " button to increase treble.

Adjustment for Sound

- **BALANCE adjustment**

The "BALANCE" function adjusts the right / left balance of sound from the speakers.

(1) Press SOUND button once to get Sound adjustment menu.
(2) Press number button "1" to select BALANCE.
(3) Press " + " button repeatedly to increase sound level from right speaker, or press " – " button repeatedly to increase sound level from left speaker.

- **BASS adjustment**

The "BASS" function adjusts the low frequency audio.

(1) Press SOUND button once to get Sound adjustment menu.
(2) Press number button "2" to select BASS.
(3) Press " + " button repeatedly to increase bass, or press " – " button repeatedly to decrease bass.

- **TREBLE adjustment**

The "TREBLE" function adjusts the high frequency audio.

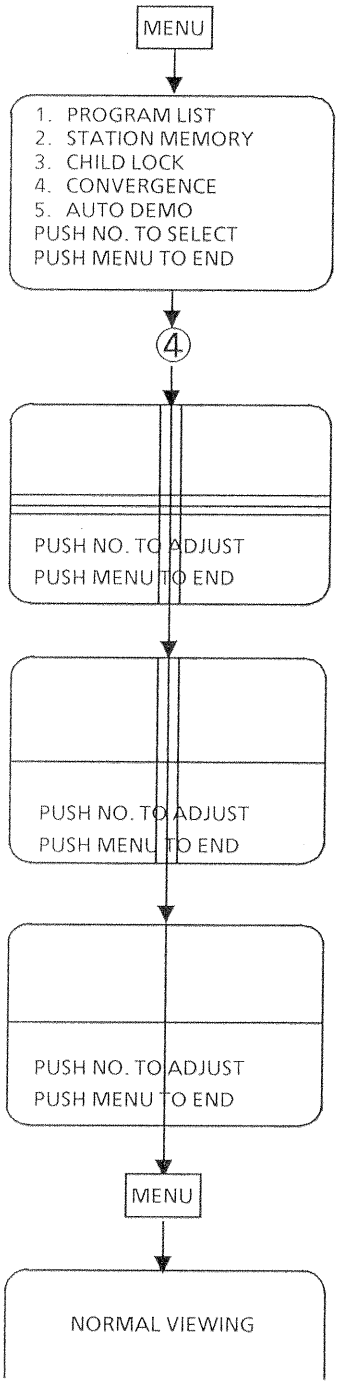
(1) Press SOUND button once to get Sound adjustment menu.

(2) Press number button "3" to select TREBLE.

(3) Press " + " button repeatedly to increase bass, or press " – " button repeatedly to decrease bass.

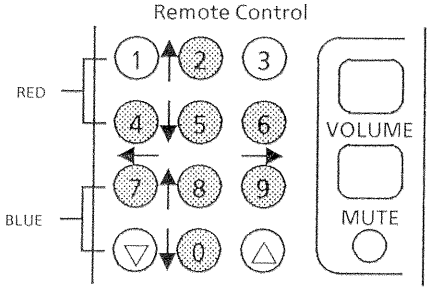
CONVERGENCE ADJUSTMENT

Static Convergence

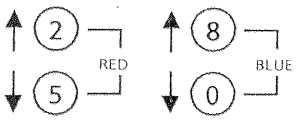


Use button on Remote to align colors to form white lines

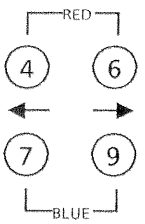
Remote Control



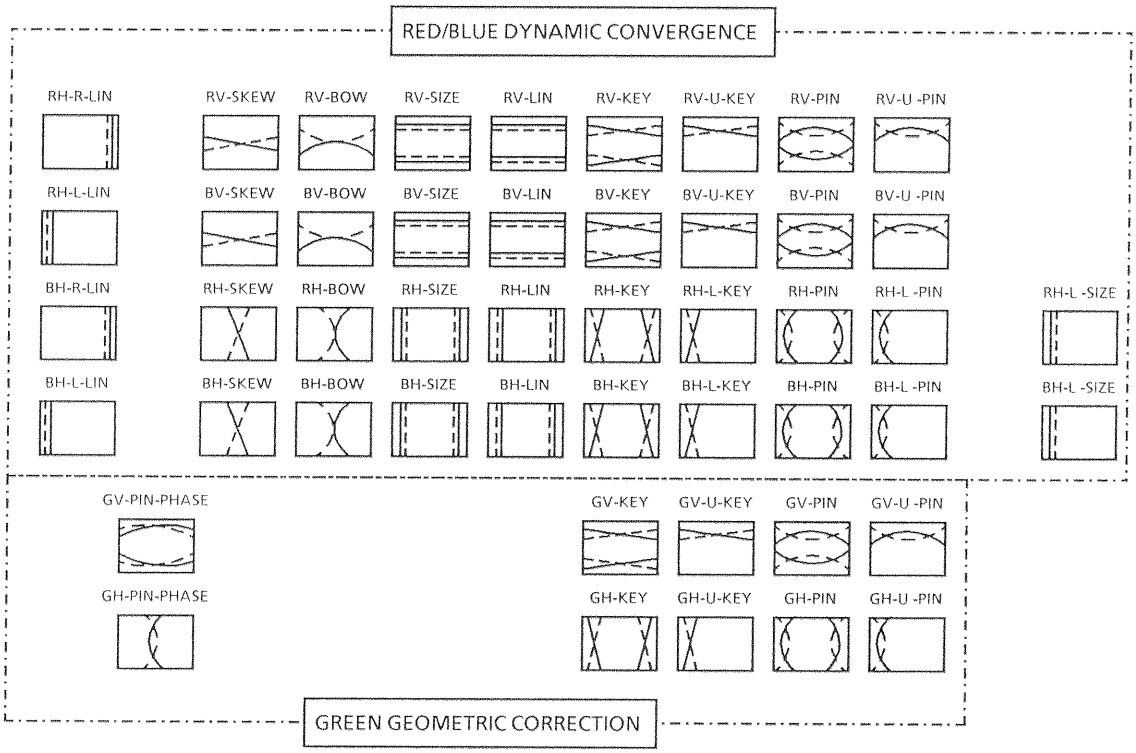
Vertical Position



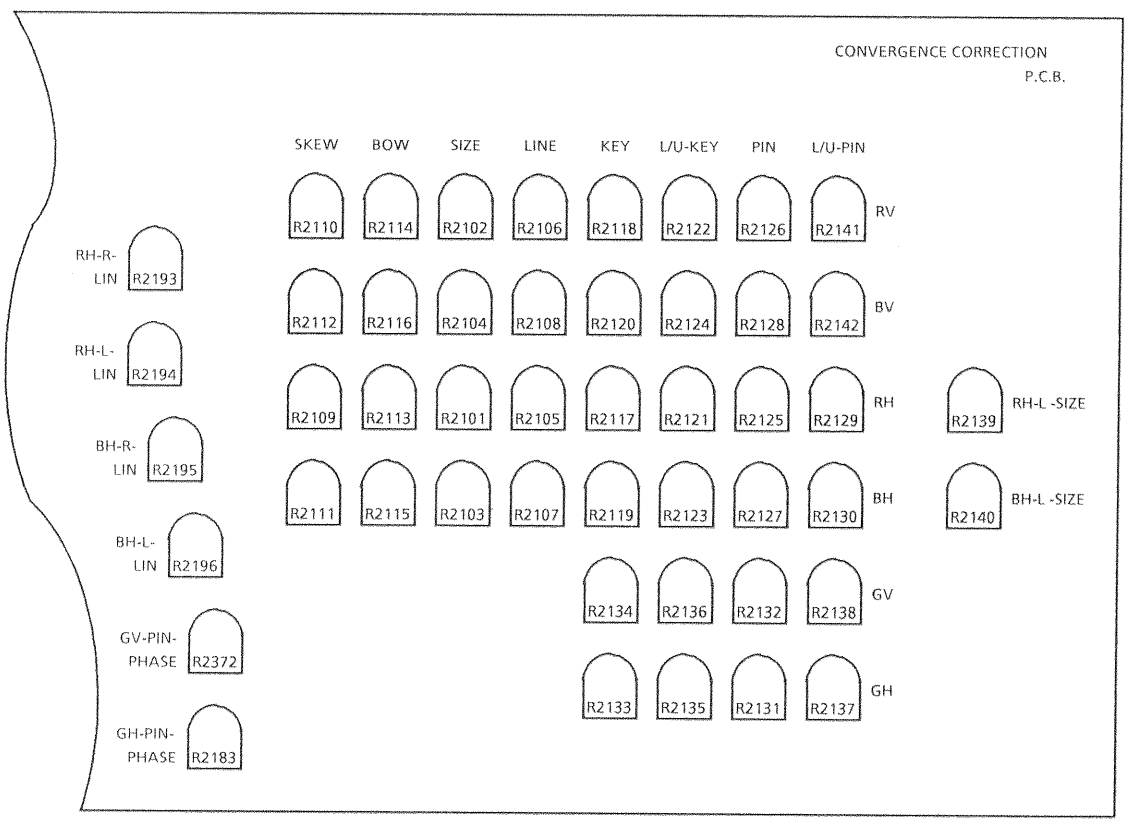
Horizontal Position



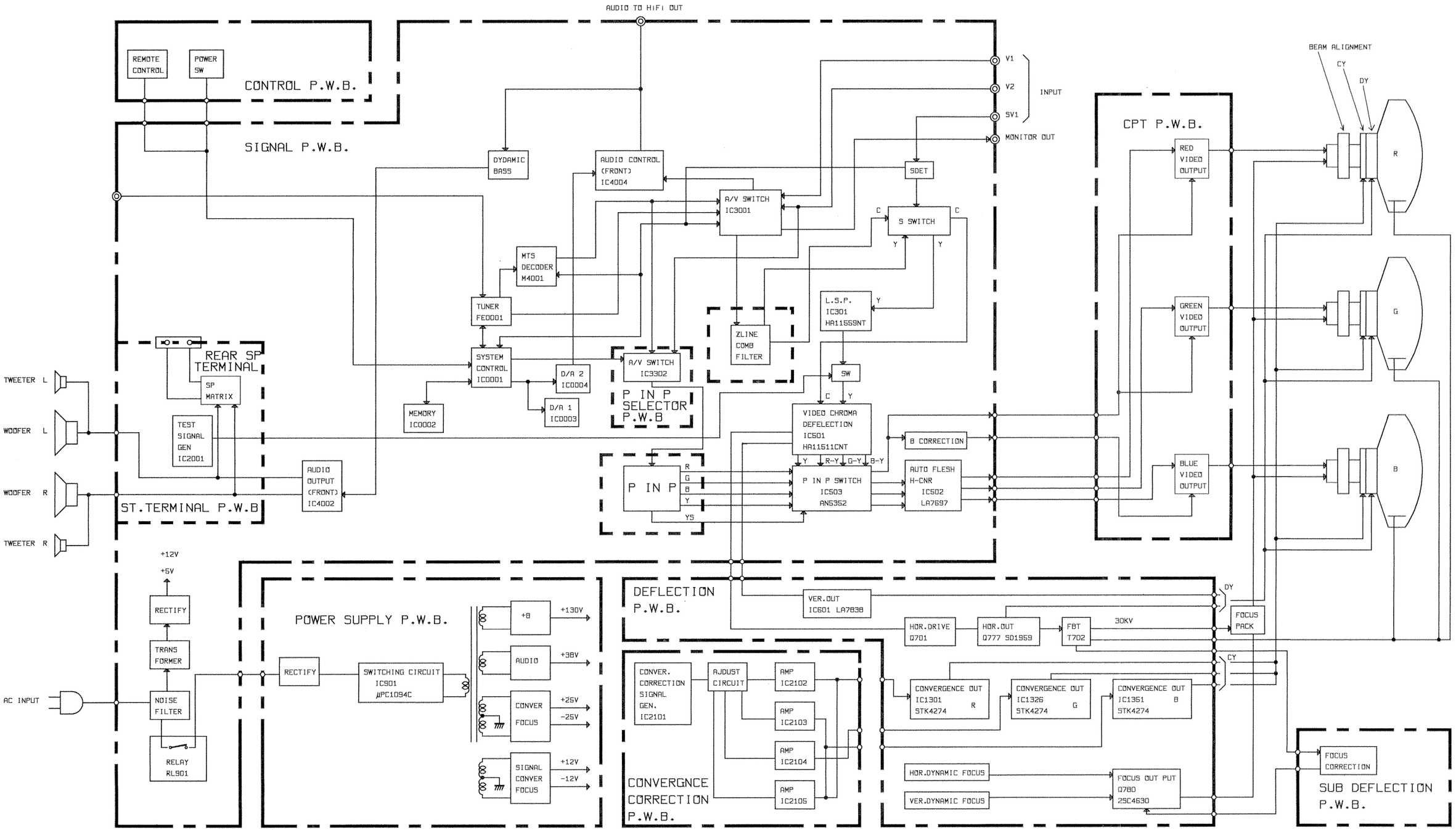
Dynamic Convergence



Layout of the Adjustment VR

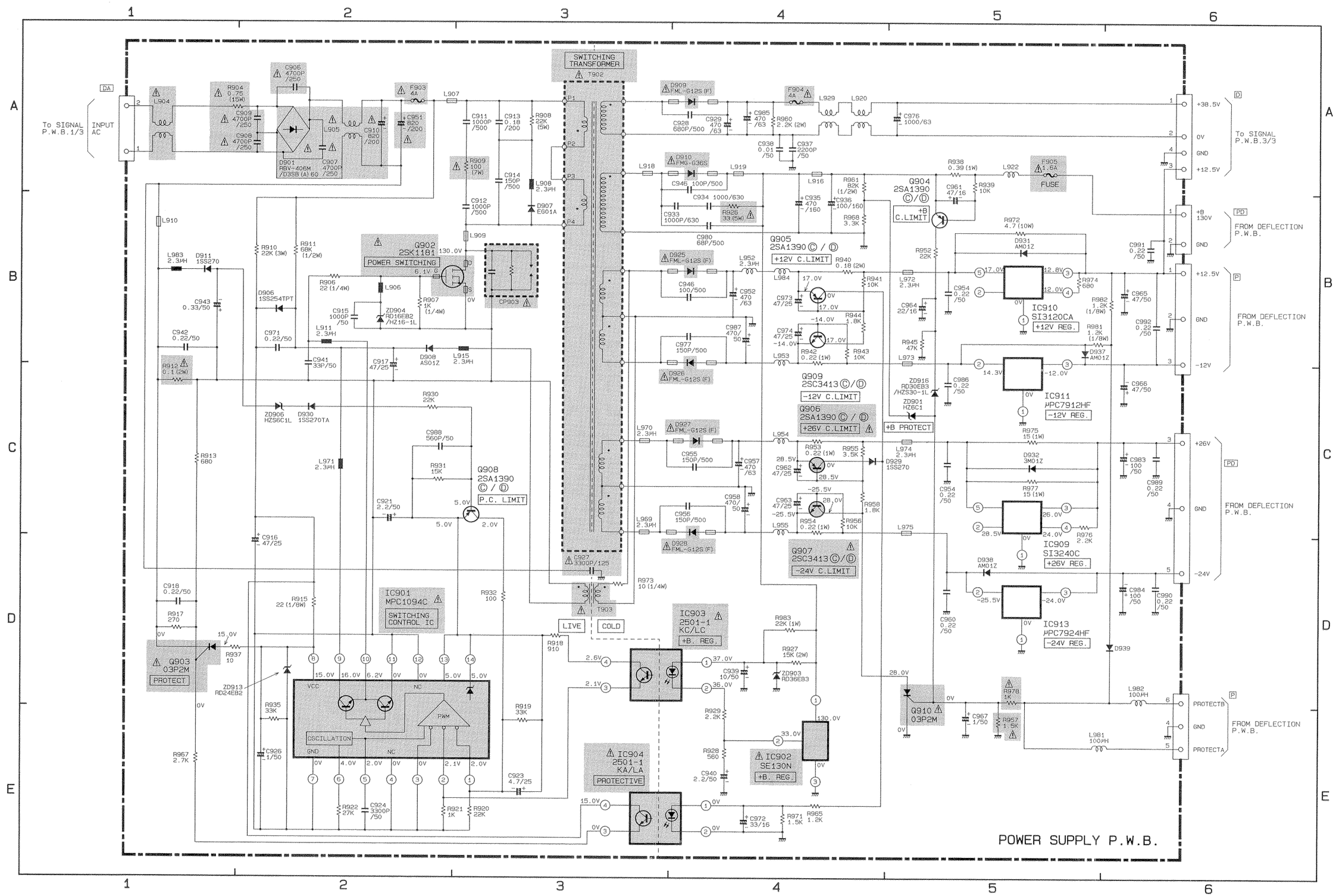


BLOCK DIAGRAM



BASIC CIRCUIT 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 though improper servicing.



- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- 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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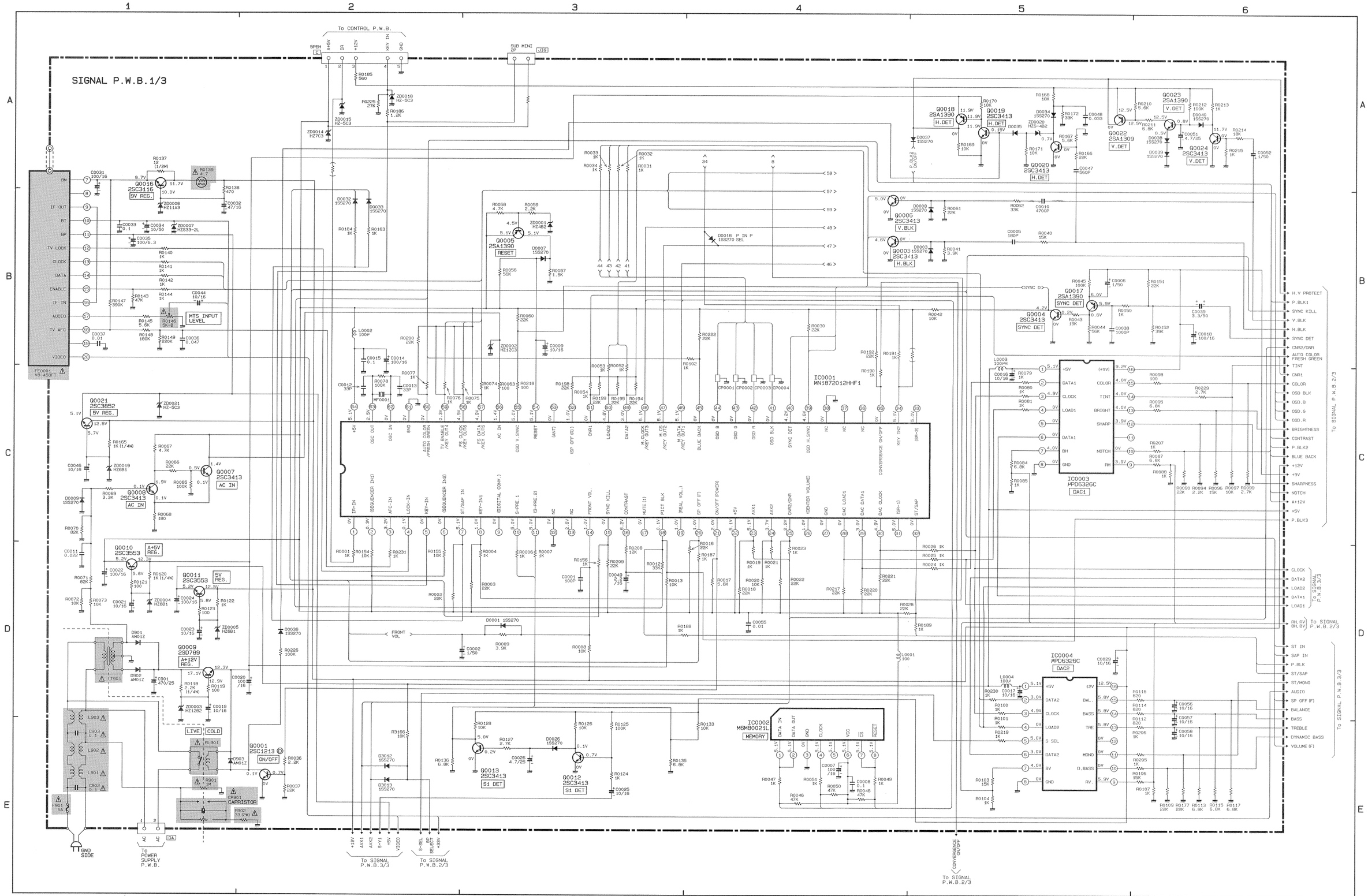

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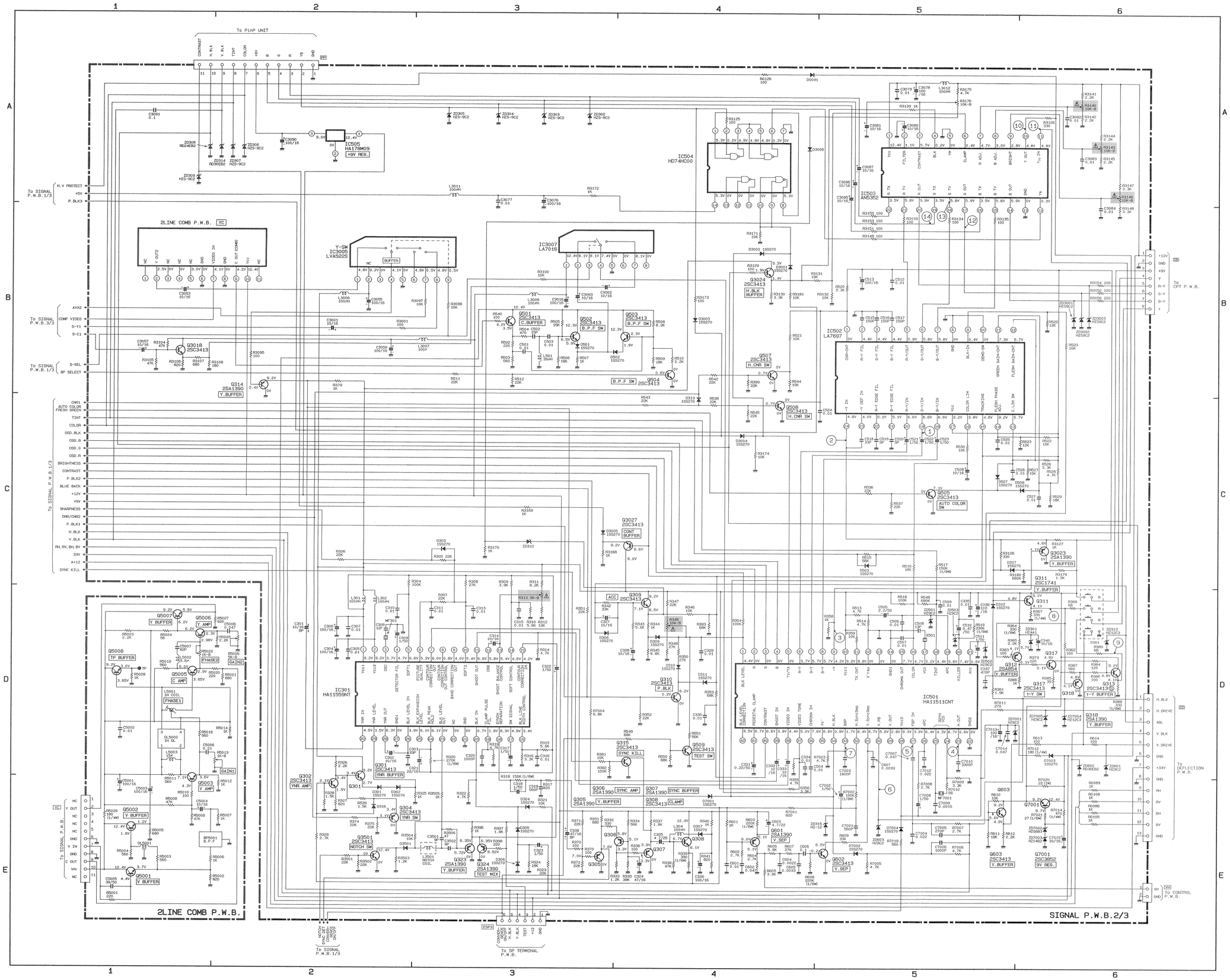

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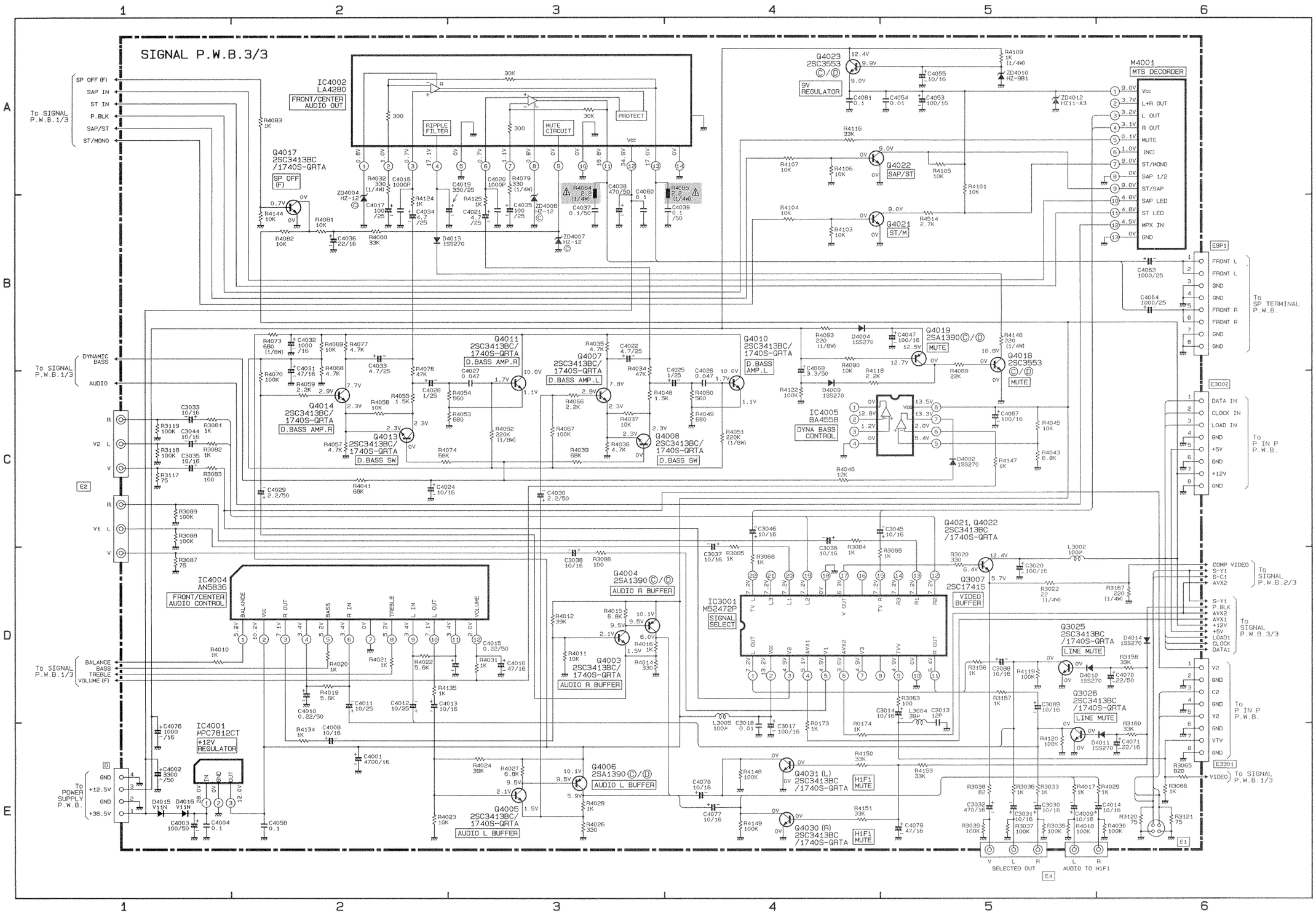

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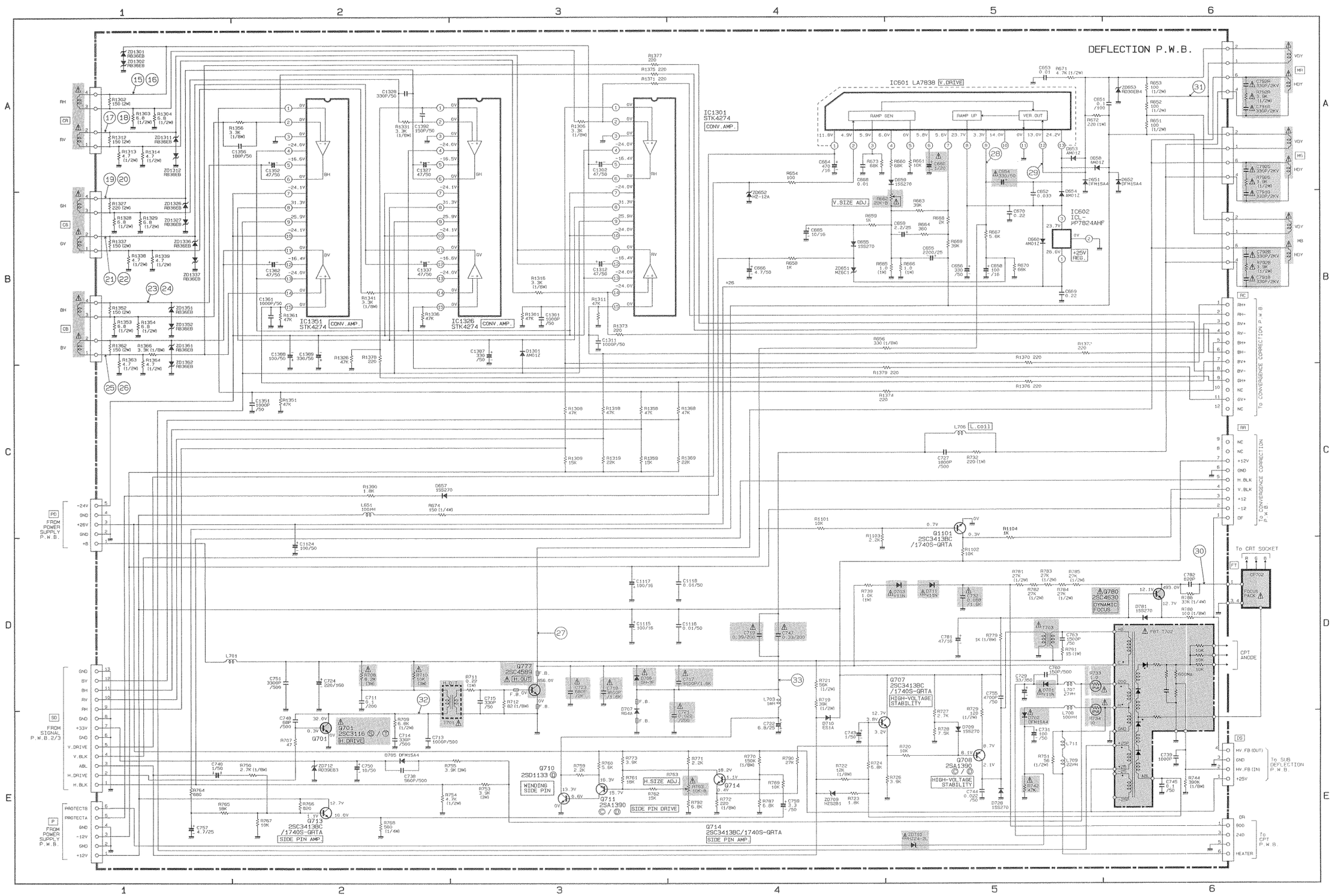

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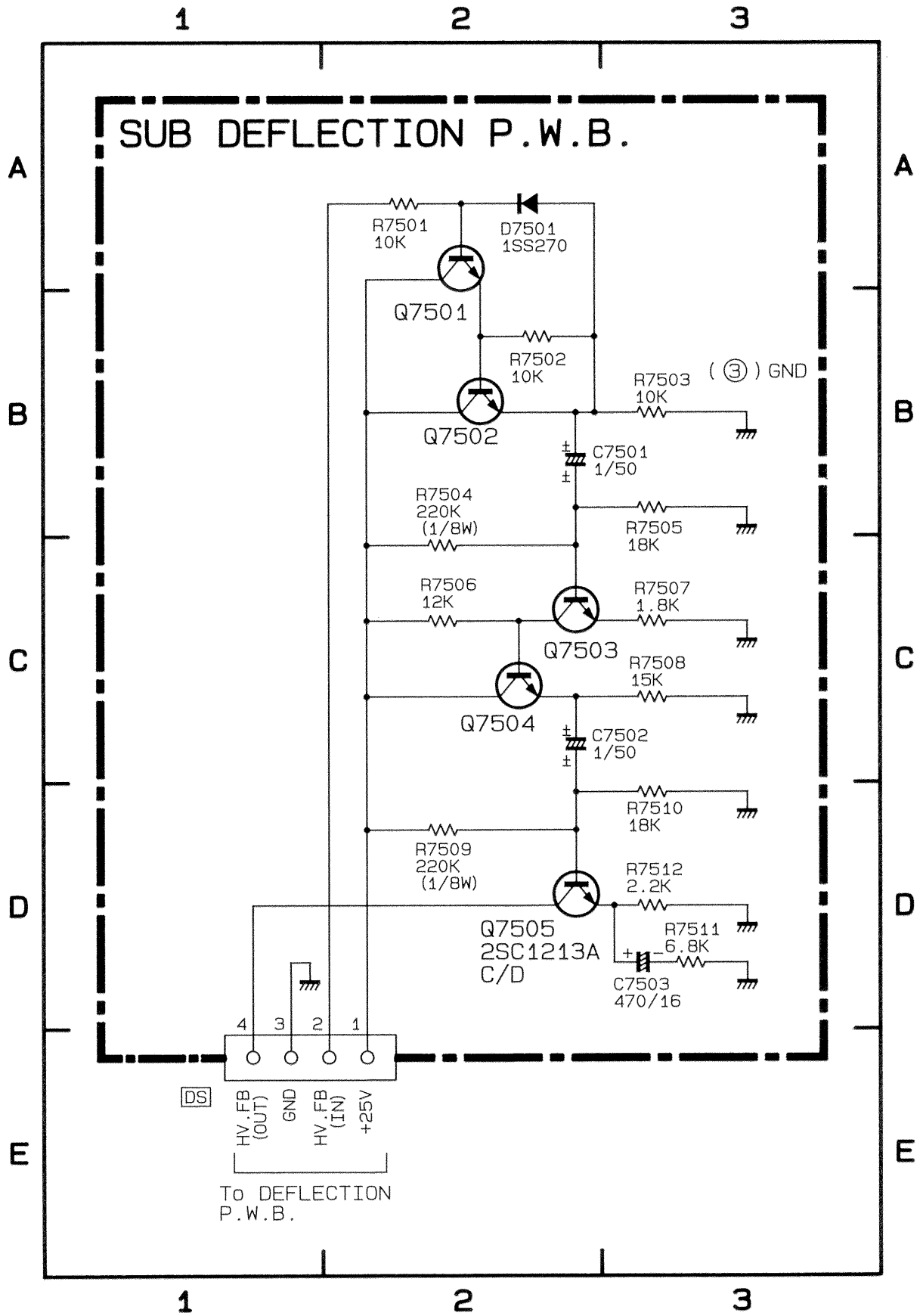
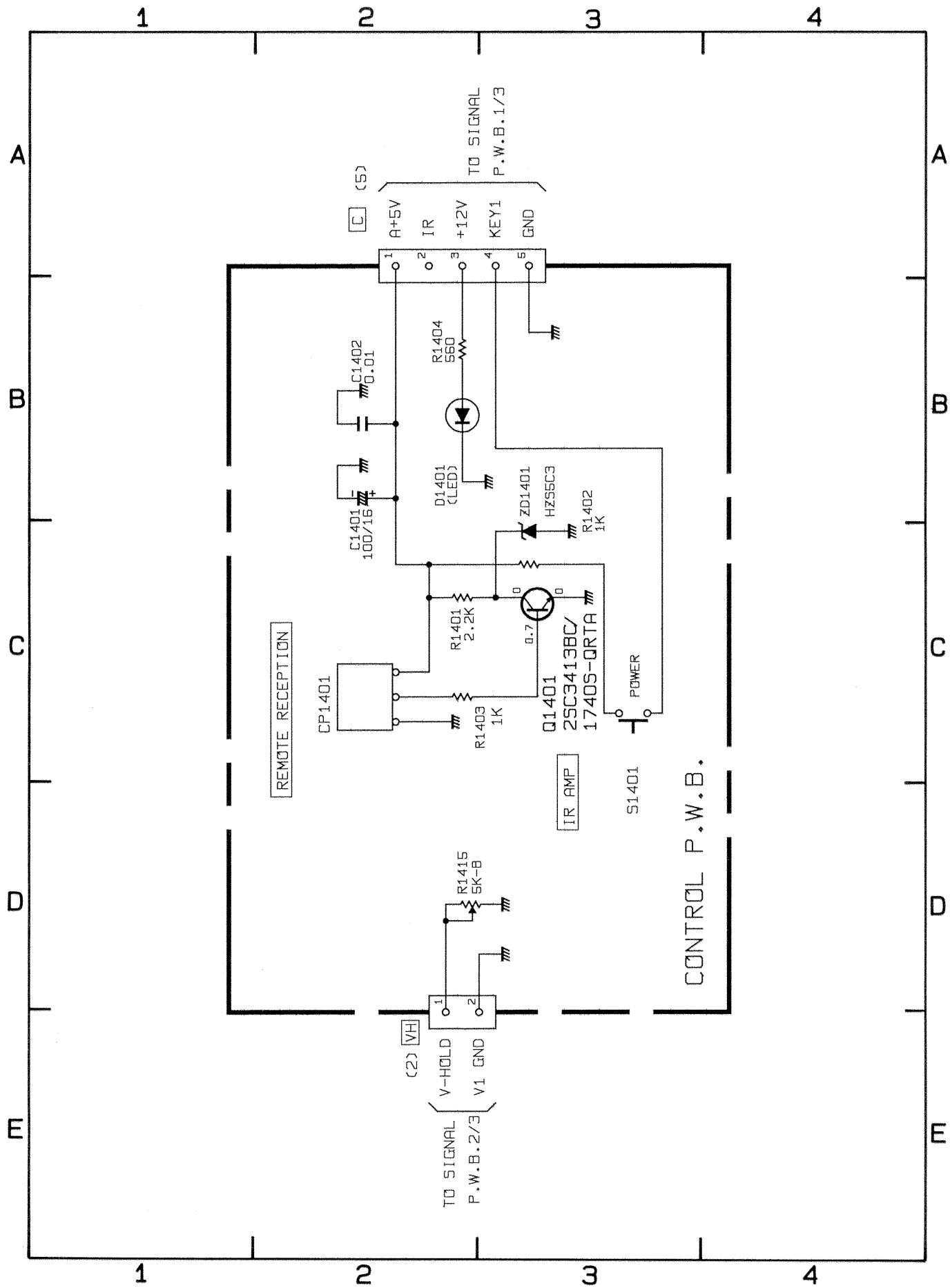


BASIC CIRCUIT DIAGRAM



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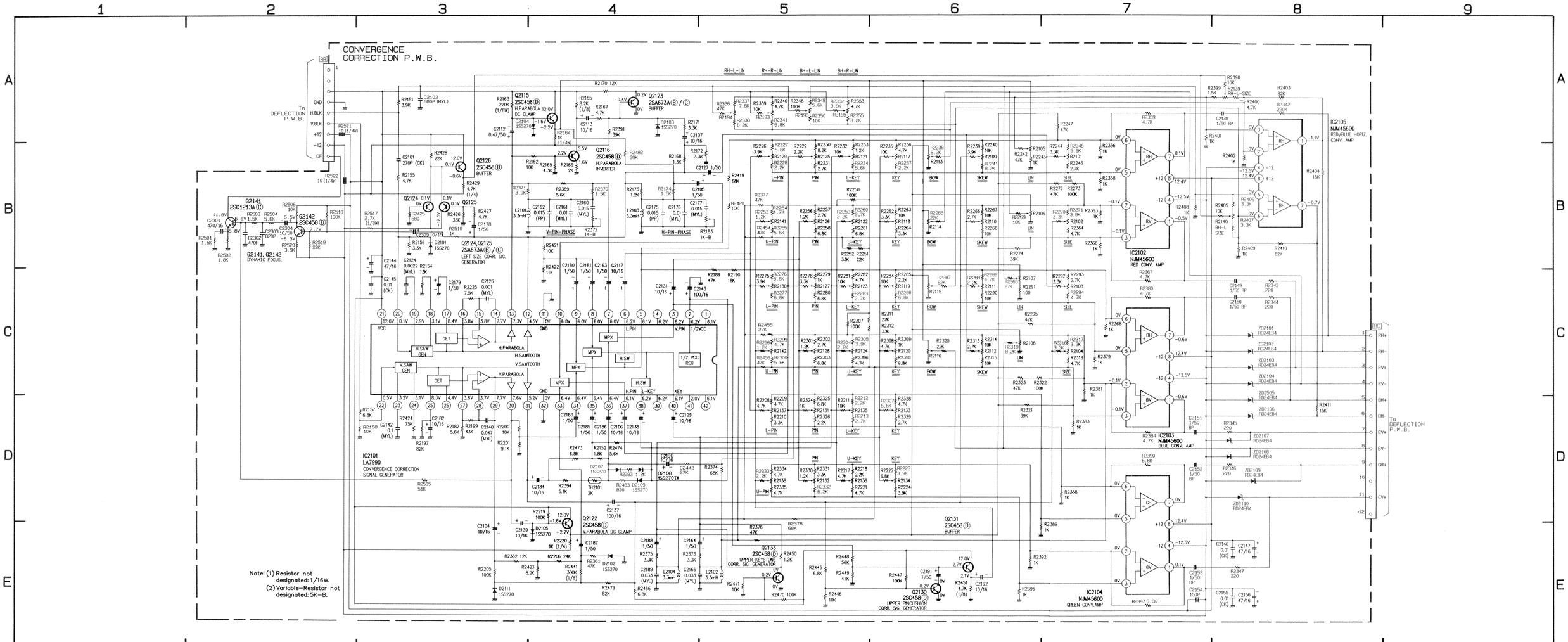

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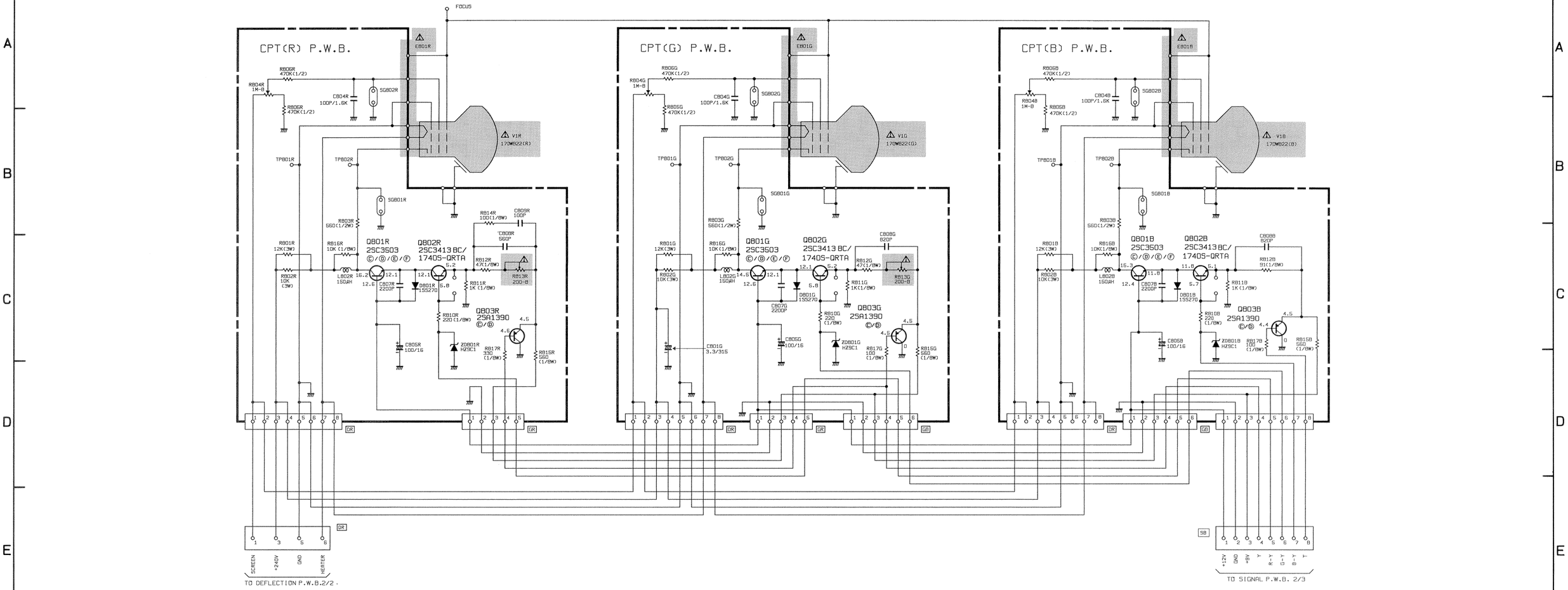

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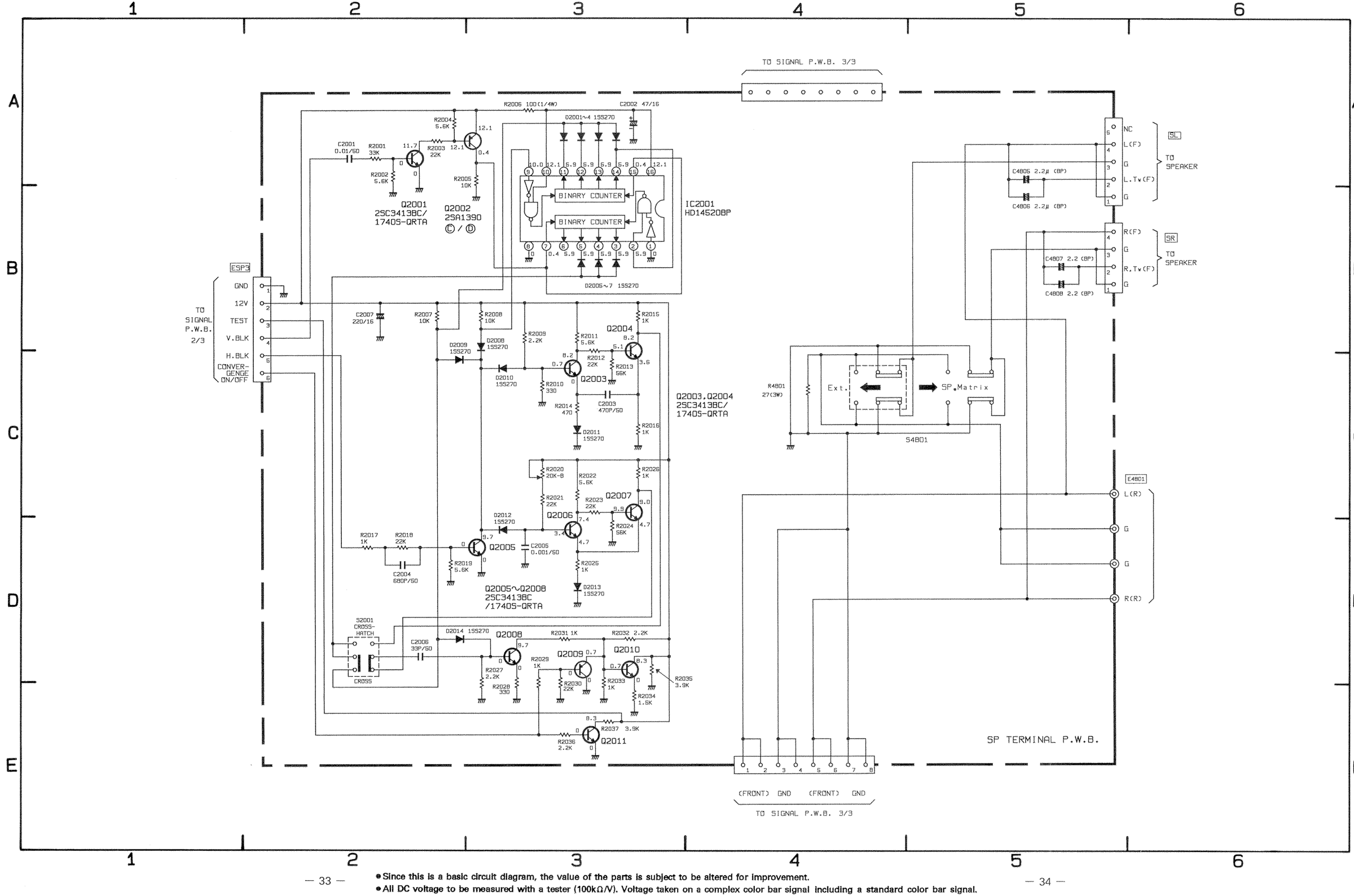

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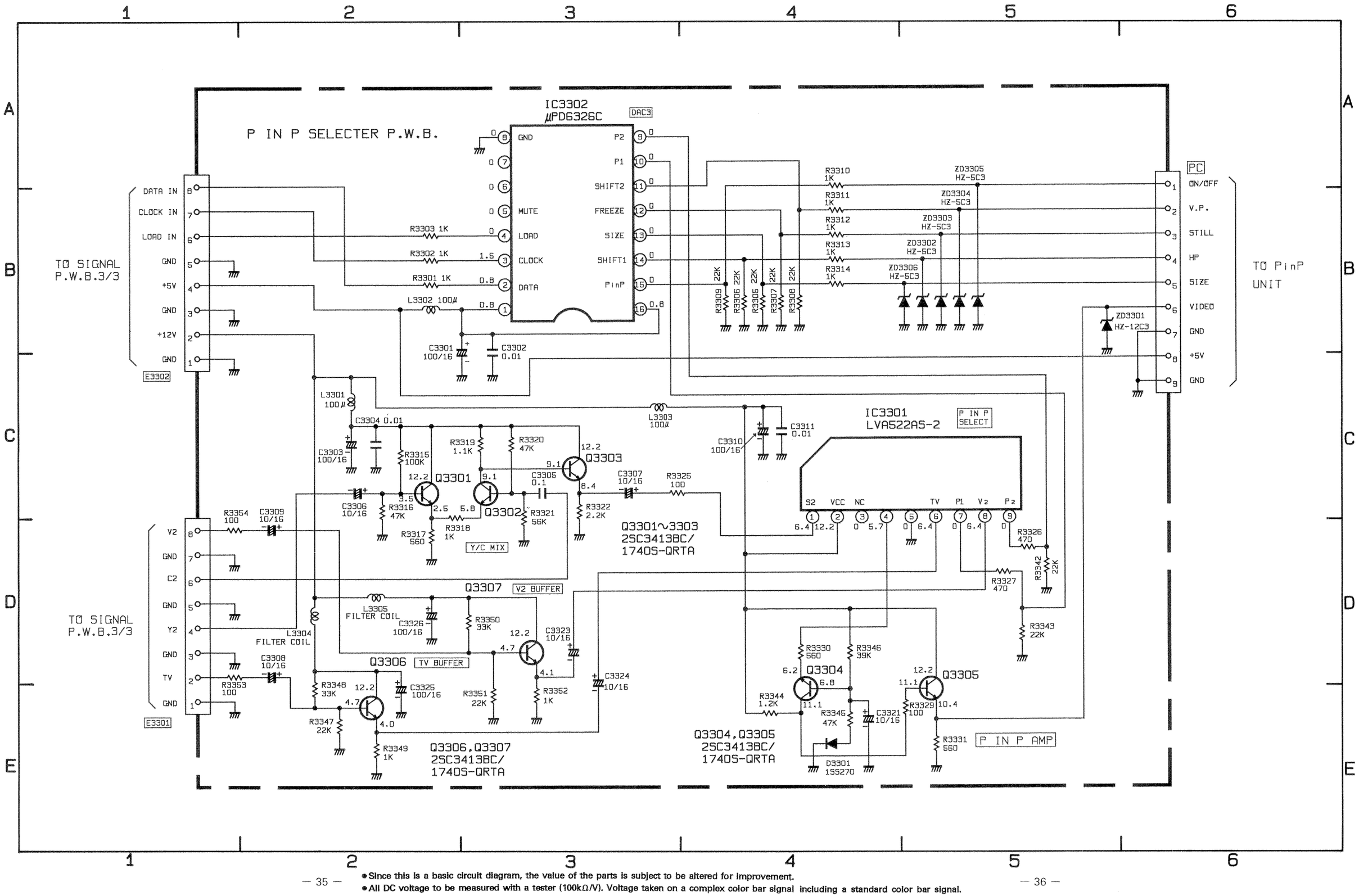

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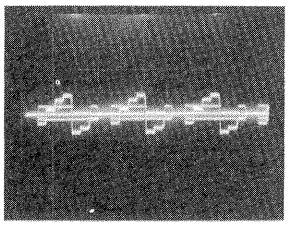
WAVEFORMS AT EACH SECTION

SIGNAL P.W.B. (2/3)

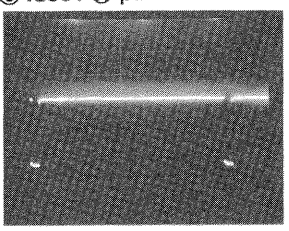
① IC502 ⑲ pin



0.5V/div

20μsec./div

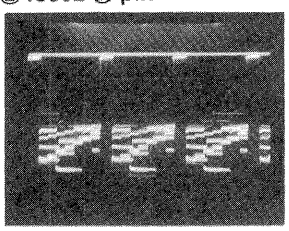
⑥ IC501 ㉚ pin



2V/div

20μsec./div

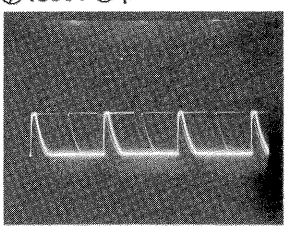
② IC502 ㉔ pin



1V/div

20μsec./div

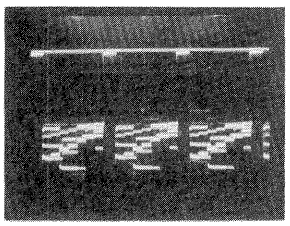
⑦ IC501 ㉝ pin



2V/div

20msec./div

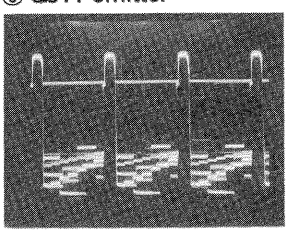
③ IC501 ⑨ pin



1V/div

20μsec./div

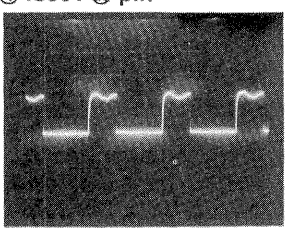
⑧ Q311 emitter



1V/div

20μsec./div

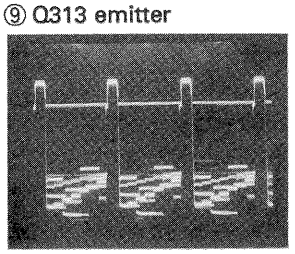
④ IC501 ㉓ pin



1V/div

20μsec./div

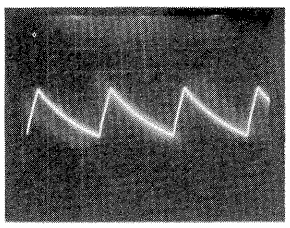
⑨ Q313 emitter



1V/div

20μsec./div

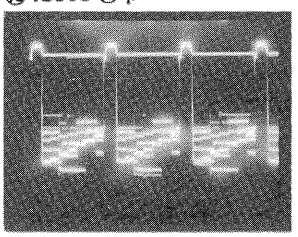
⑤ IC501 ㉗ pin



1V/div

20μsec./div

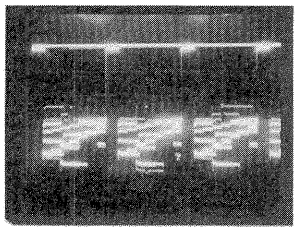
⑩ IC503 ⑩ pin



1V/div

20μsec./div

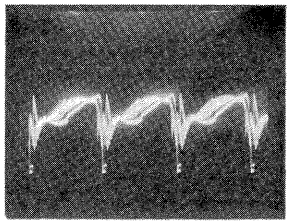
⑪ IC503 ⑪ pin



1V/div

20μsec./div

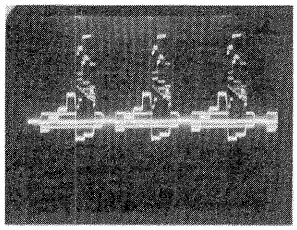
⑯ CR connector ③ pin



10V/div

20μsec./div

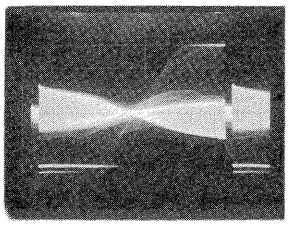
⑫ IC503 ⑰ pin



0.5V/div

20μsec./div

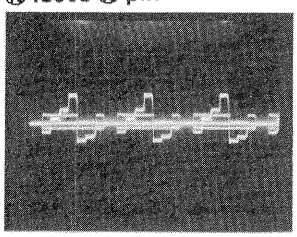
⑰ CR connector ② pin



10V/div

2msec./div

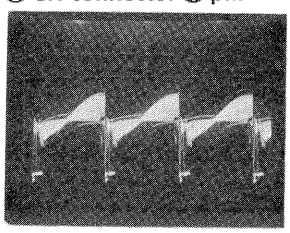
⑬ IC503 ⑱ pin



0.5V/div

20μsec./div

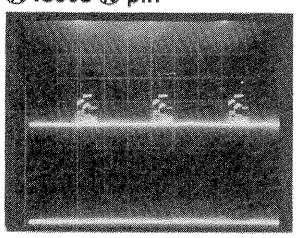
⑱ CR connector ② pin



10V/div

20μsec./div

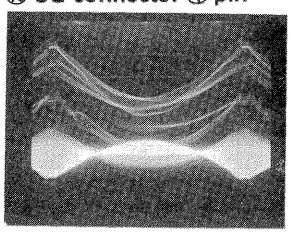
⑭ IC503 ⑲ pin



0.5V/div

20μsec./div

⑲ CG connector ④ pin

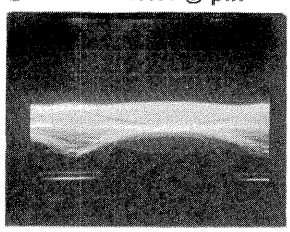


5V/div

2msec./div

DEFLECTION P.W.B.

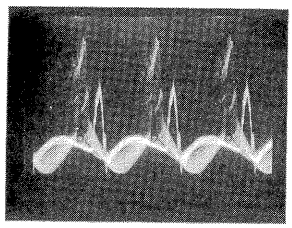
⑮ CR connector ③ pin



10V/div

2μsec./div

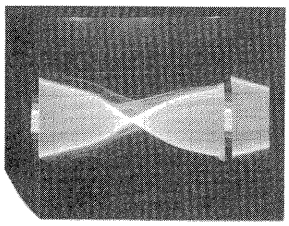
⑳ CG connector ④ pin



5V/div

20μsec./div

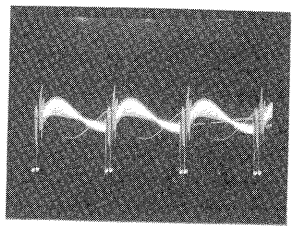
㉑ CG connector ② pin



5V/div

2msec./div

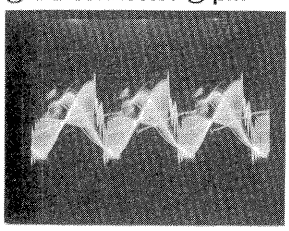
㉖ CB connector ② pin



10V/div

20μsec./div

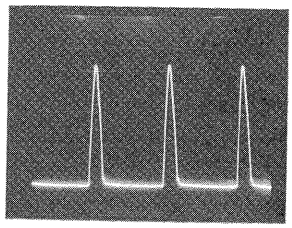
㉒ CG connector ② pin



5V/div

20μsec./div

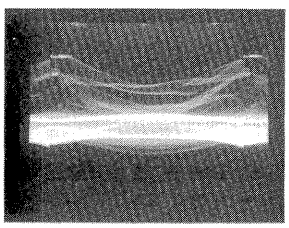
㉗ Q777 corrector



200V/div

20μsec./div

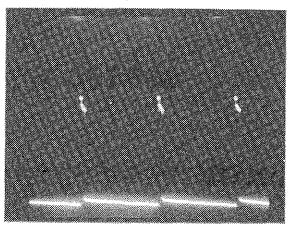
㉓ CB connector ④ pin



10V/div

2μsec./div

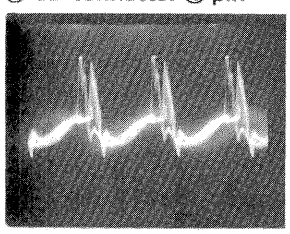
㉘ IC601 ⑨ pin



5V/div

5msec./div

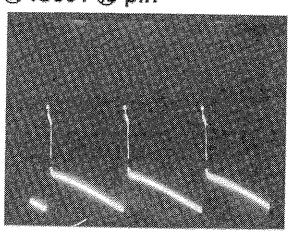
㉔ CB connector ④ pin



10V/div

20μsec./div

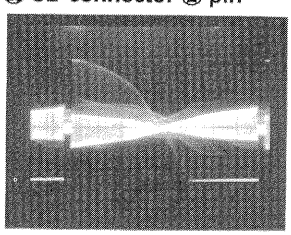
㉙ IC601 ⑫ pin



10V/div

5msec./div

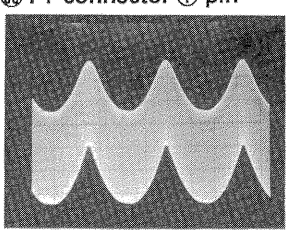
㉕ CB connector ② pin



10V/div

2μsec./div

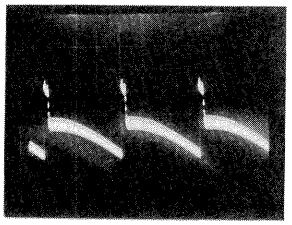
㉚ FT connector ① pin

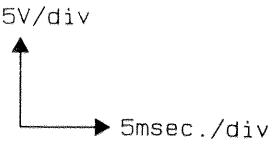


100V/div

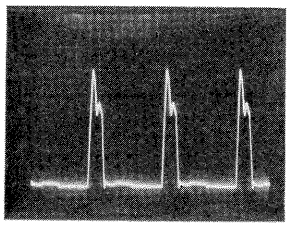
5msec./div

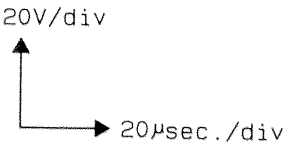
㉛ MR connector ① pin



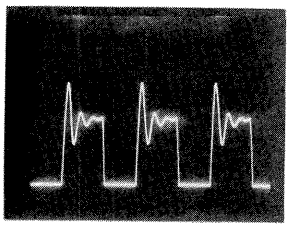


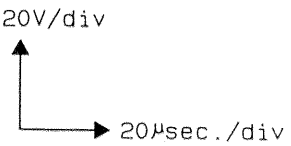
㉝ Q706 anode





㉜ Q701 corrector

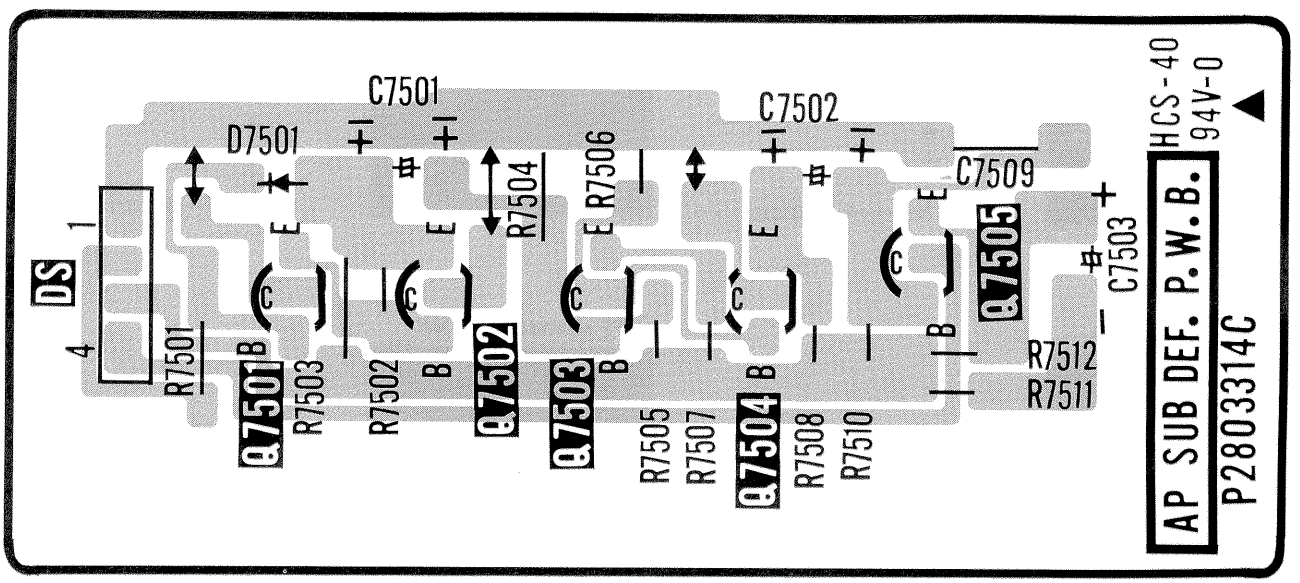




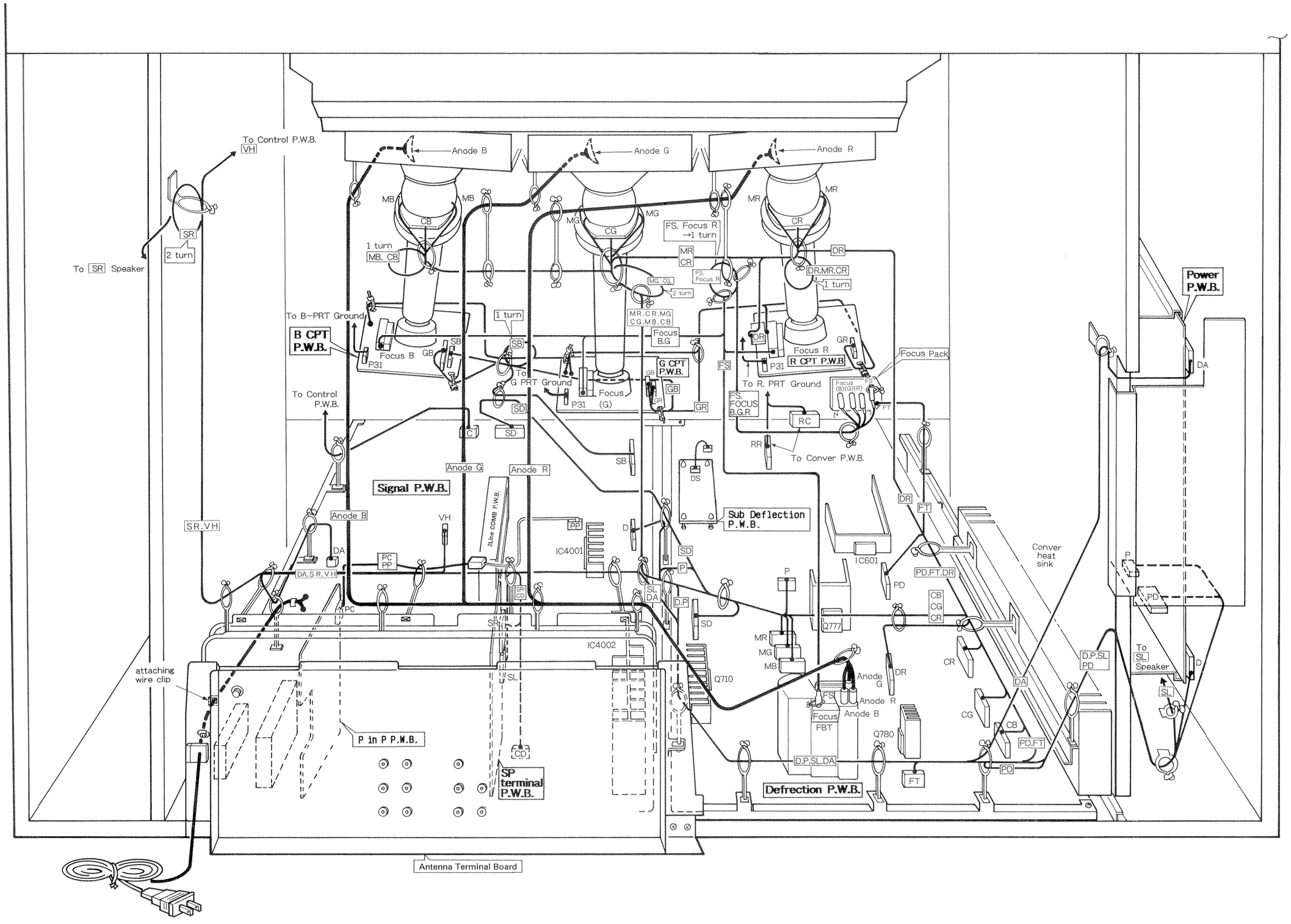
PRINTED WIRING BOARD

Refer to the 55EX1K service manual (YK No. 0405E) for the printed wiring boards other than the sub deflection P.W.B.

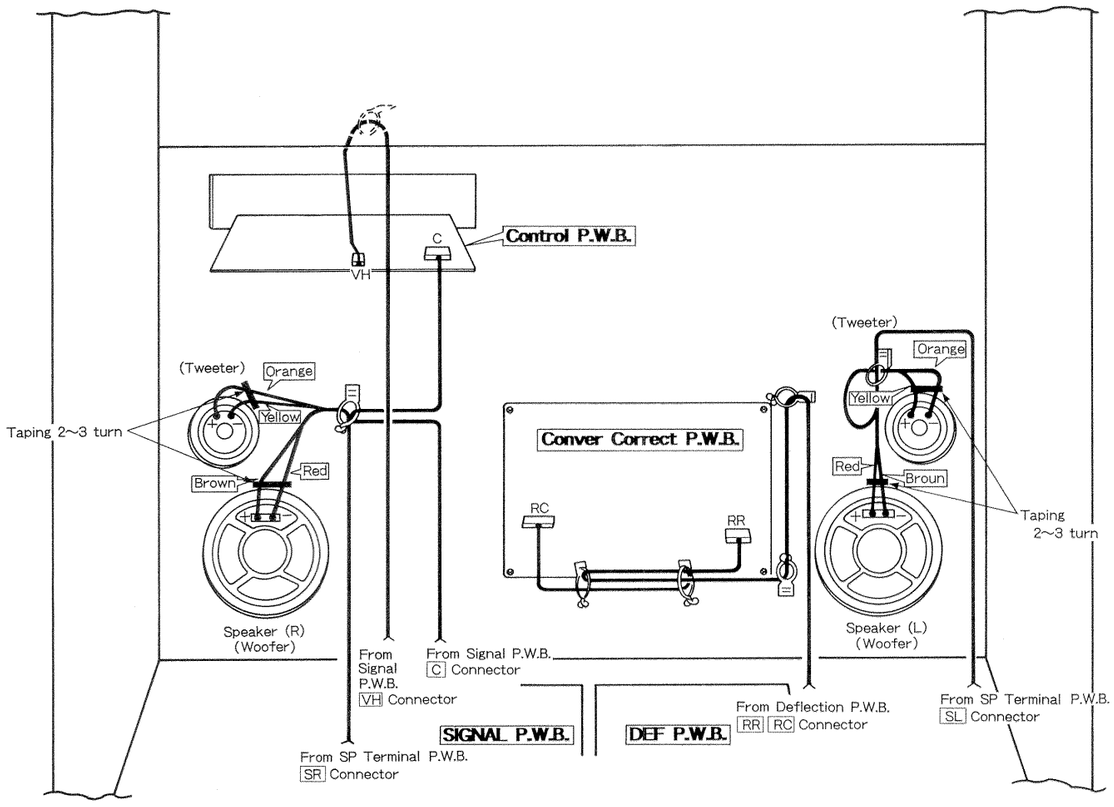
SUB DEFLECTION P.W.B.



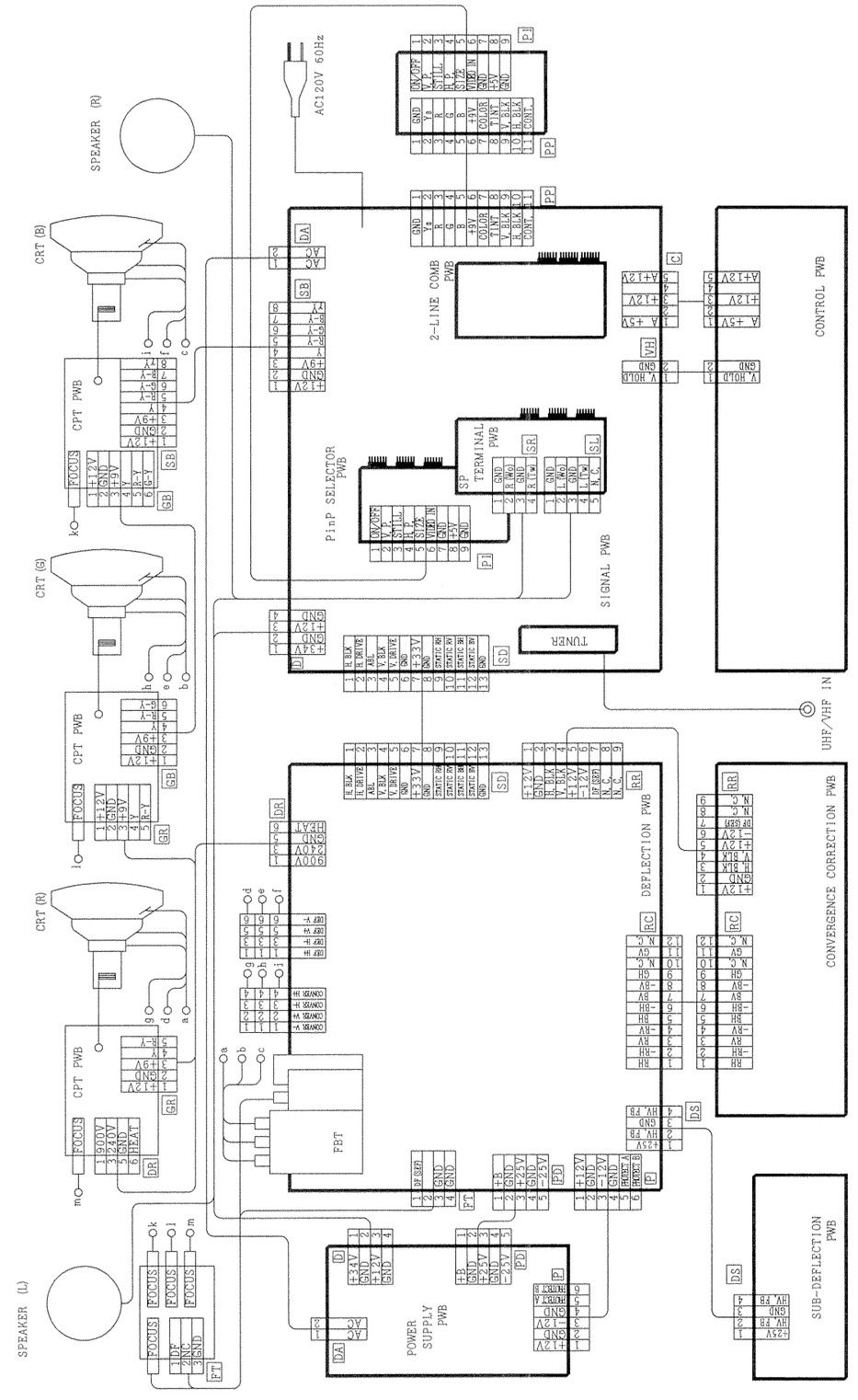
WIRING DIAGRAM



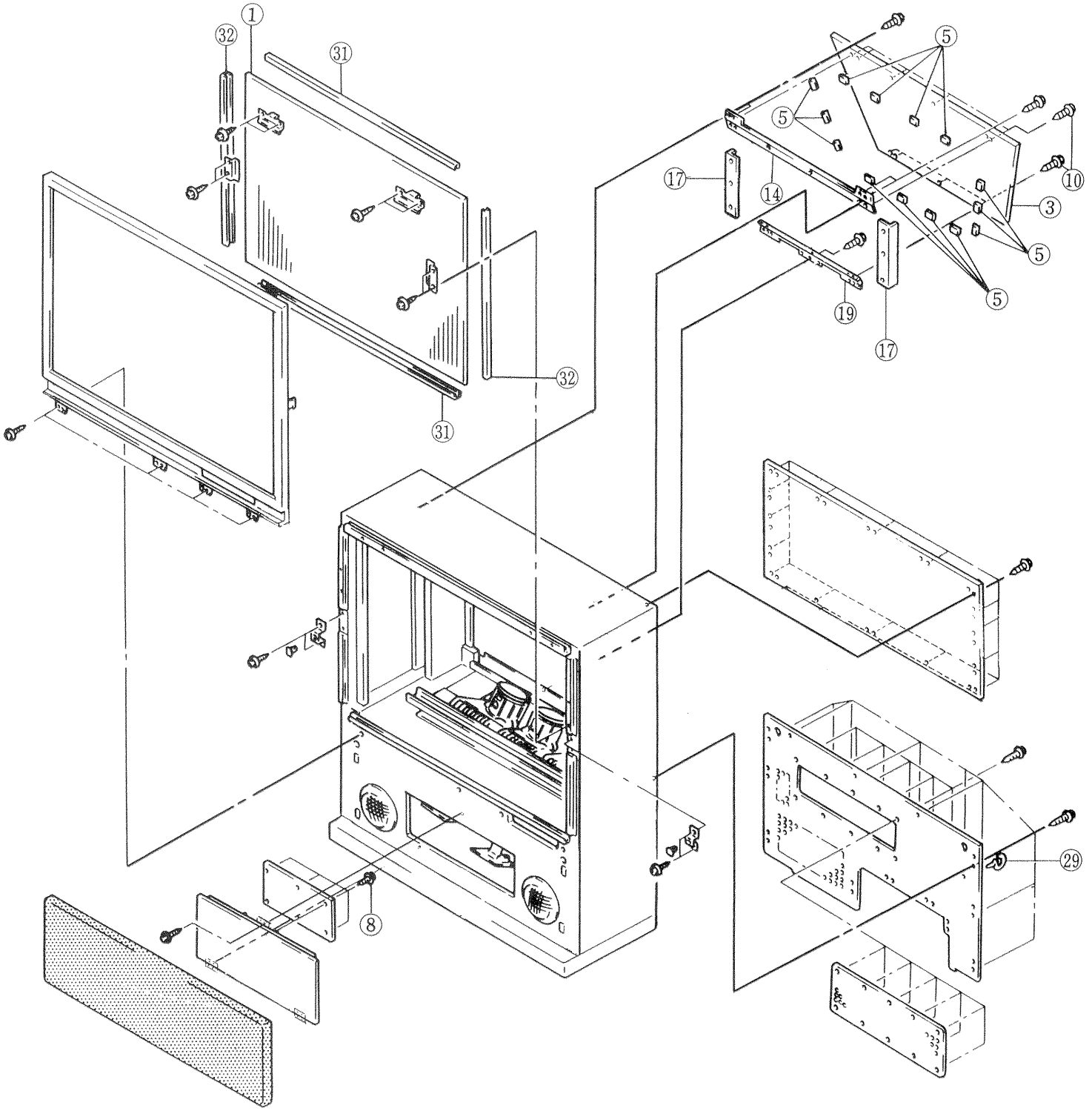
WIRING DIAGRAM



WIRING DIAGRAM

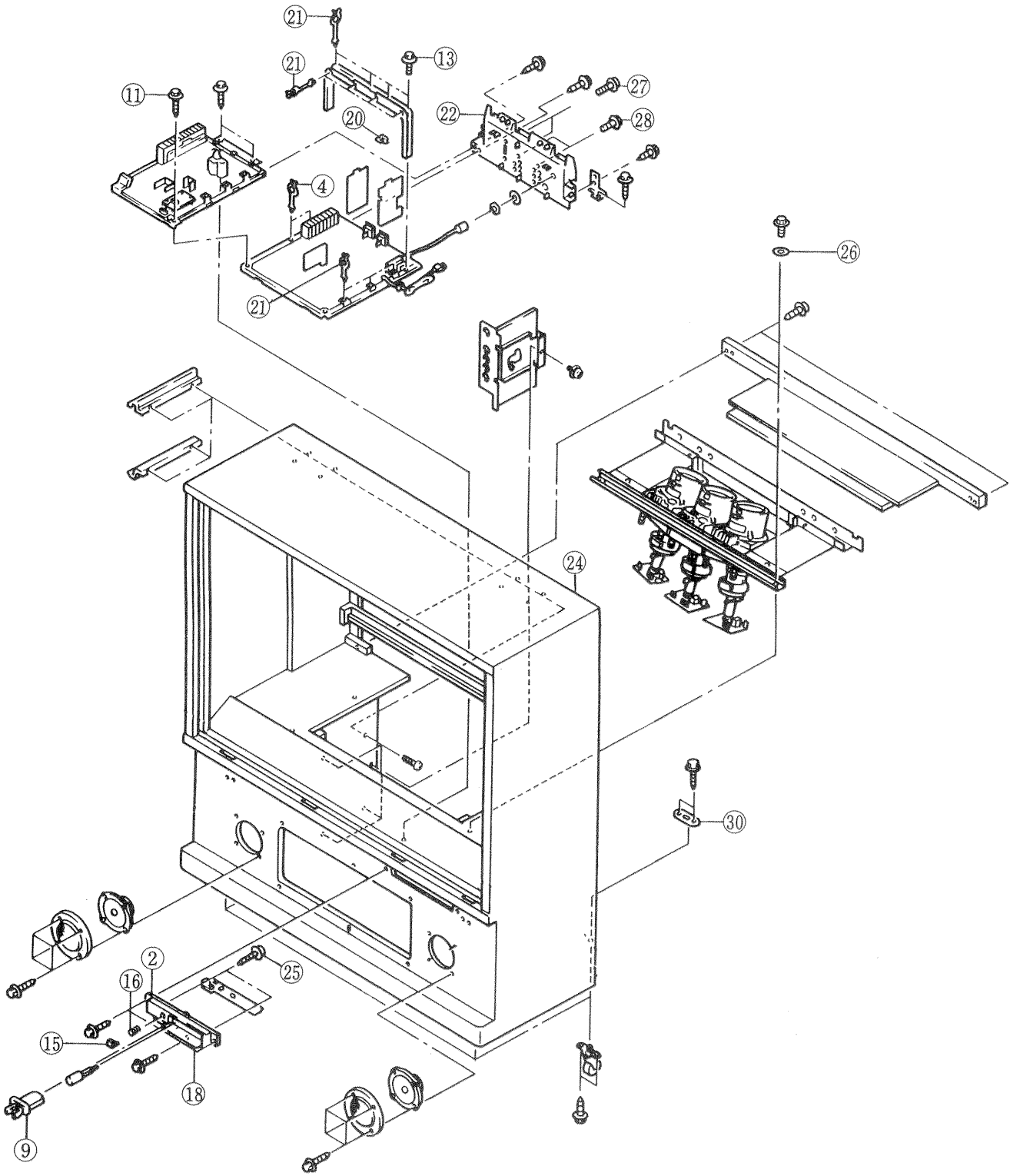


EXPLODED VIEW (1/3)

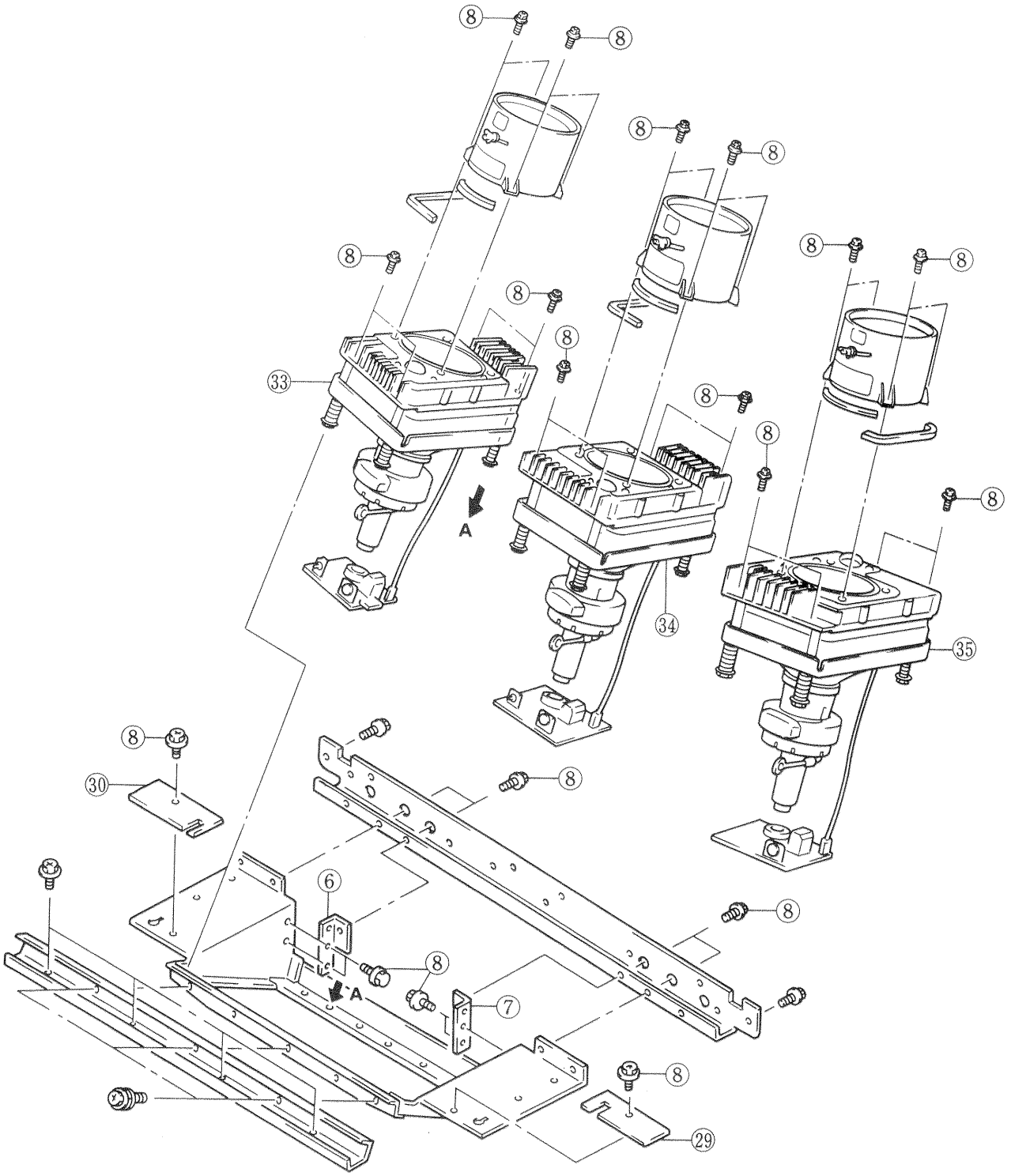


Note: Some parts may appear different than those shown in the exploded view. When ordering, refer to the REPLACEMENT PARTS LIST for correct part number.

EXPLODED VIEW (2/3)



EXPLODED VIEW (3/3)



REPLACEMENT PARTS LIST

PRODUCT SAFETY NOTE: Components marked with a ⚠ 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.

ABBREVIATIONS

Capacitors	CD:Ceramic disk, PF:Polyester film, EL:Electrolytic, PP:Polypropylene, PR:Paper, TA:Tantalum, TM:Trimmer.
Resistors	CF:Carbon film, CC:Carbon composition, MF:Metal oxide film, VR:Variable resistor, WW:Wire would, FR:Fuse resistor, MG:Metal glazed
Semiconductor	TR:Transistor, DI:Diode, ZD:Zener diode, VA:Varistor, TH:Thermistor, IC:IC.

SYMBOL NO.	PART NO.	DESCRIPTION
		CAPACITORS
C0001	0247854	CD 100PF +-5% 500V
C0002	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C0005	0248690	CD 180PF +-5% 50V
C0006	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C0007	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C0008	0880057	PF 0.1MF +-10% 50V
C0009	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0010	0244109	CD 4700PF +-10% 50V
C0011	0880048	PF 0.022MF +-10% 50V
C0012	0890067	CD 33PF +-5% 50V
C0013	0890067	CD 33PF +-5% 50V
C0014	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C0015	0880057	PF 0.1MF +-10% 50V
C0016	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0017	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0018	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C0019	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0020	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C0021	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0022	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C0023	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0024	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C0025	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0026	0800009	CAPACITOR ELECTROLYTIC 4.7MF 25V
C0029	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0031	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C0032	0800041	CAPACITOR ELECTROLYTIC 47MF 16V
C0033	0880057	PF 0.1MF +-10% 50V
C0034	0800018	CAPACITOR ELECTROLYTIC 10MF 50V
C0035	0800047	CAPACITOR ELECTROLYTIC 100MF 6.3V
C0036	0880053	PF 0.047MF +-10% 50V
C0037	0880044	PF 0.01MF +-10% 50V
C0038	0244501	CD 1000PF +-10% 500V
C0039	0284628R	EL 3.3MF 50V
C0044	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0046	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0047	0890084	CD 560PF +-10% 50V
C0048	0880051	PF 0.033MF +-10% 50V
C0049	0800005	CAPACITOR,ELECTROLYTIC 2.2MF 50V
C0051	0284449R	EL 4.7MF 50V
C0052	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C0055	0880044	PF 0.01MF +-10% 50V
C0056	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0057	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C0058	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C1115	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C1116	0244141	CD 0.01MF +-10% 50V
C1117	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C1118	0244141	CD 0.01MF +-10% 50V
C1124	0800053	CAPACITOR ELECTROLYTIC 100MF 50V
C1301	0890087	CD 1000PF +-10% 50V
C1302	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C1311	0890087	CD 1000PF +-10% 50V
C1312	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C1327	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C1328	0248696	CD 330PF +-5% 50V
C1337	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C1351	0890087	CD 1000PF +-10% 50V
C1352	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C1356	0248690	CD 180PF +-5% 50V
C1361	0890087	CD 1000PF +-10% 50V
C1362	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C1387	0800069	CAPACITOR,ELECTROLYTIC 330MF 50V
C1388	0800053	CAPACITOR ELECTROLYTIC 100MF 50V
C1389	0800069	CAPACITOR,ELECTROLYTIC 330MF 50V
C1392	0248688	CD 150PF +-5% 50V
C1401	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C1402	0890087	CD 1000PF +-10% 50V
C2001	0880044	PF 0.01MF +-10% 50V
C2002	0800041	CAPACITOR ELECTROLYTIC 47MF 16V
C2003	0890083	CD 470PF +-10% 50V
C2004	0890085	CD 680PF +-10% 50V
C2005	0880031	PF 1000PF +-10% 50V
C2006	0890121	CD 33PF +-5% 50V
C2007	0800058	CAPACITOR ELECTROLYTIC 220MF 16V
C2101	0244136	CD 270PF +-10% 50V
C2102	0880001	PF 680PF +-10% 50V
C2104	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2105	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C2106	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2107	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2112	0800001	CAPACITOR ELECTROLYTIC 0.47MF 50V
C2113	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2117	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2124	0880005	PF 2200PF +-10% 50V

PRODUCT SAFETY NOTE: Components marked with a ⚠ 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.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
C2126	0299001	PP 0.001MF +-2% 100V	C3014	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2127	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C3016	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C2129	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C3017	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C2131	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C3018	0880044	PF 0.01MF +-10% 50V
C2137	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V	C302	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2138	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C3020	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C2139	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C303	0890067	CD 33PF +-5% 50V
C2140	0880014	PF 0.047MF +-10% 50V	C3030	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2142	0880016	PF 0.1MF +-10% 50V	C3031	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2143	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V	C3032	0800074	CAPACITOR ELECTROLYTIC 470MF 16V
C2144	0800041	CAPACITOR ELECTROLYTIC 47MF 16V	C3033	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2145	0244141	CD 0.01MF +-10% 50V	C3035	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2146	0244141	CD 0.01MF +-10% 50V	C3036	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2147	0800041	CAPACITOR ELECTROLYTIC 47MF 16V	C3037	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2148	0252417	EL 1MF 50V	C3038	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2149	0252417	EL 1MF 50V	C304	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C2150	0252417	EL 1MF 50V	C3044	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2151	0252417	EL 1MF 50V	C3045	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2152	0252417	EL 1MF 50V	C3046	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2153	0252417	EL 1MF 50V	C305	0244171	CD 0.01MF +80-20% 50V
C2154	0244229	CD 150PF +-10% 50V	C3053	0284667	EL 47MF 16V
C2155	0244141	CD 0.01MF +-10% 50V	C3055	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C2156	0800044	CAPACITOR ELECTROLYTIC 47MF 50V	C3057	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2160	0880011	PF 0.015MF +-10% 50V	C3059	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C2161	0880009	PF 0.01MF +-10% 50V	C306	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C2162	0299029	PP 0.015MF +-2% 100V	C3062	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2163	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C3063	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2164	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C307	0244171	CD 0.01MF +80-20% 50V
C2166	0880013	PF 0.033MF +-10% 50V	C3076	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C2175	0299029	PP 0.015MF +-2% 100V	C3077	0880044	PF 0.01MF +-10% 50V
C2176	0880009	PF 0.01MF +-10% 50V	C3078	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C2177	0880011	PF 0.015MF +-10% 50V	C3079	0880044	PF 0.01MF +-10% 50V
C2178	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C308	0890115	CD 12PF +-5% 50V
C2179	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C3080	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2180	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C3081	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2181	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C3082	0880044	PF 0.01MF +-10% 50V
C2182	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C3083	0880044	PF 0.01MF +-10% 50V
C2183	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C3084	0880044	PF, 0.01MF +-10% 50V
C2184	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C3085	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2185	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C3086	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2186	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C3087	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2187	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C3088	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2188	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C3089	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2189	0880013	PF 0.033MF +-10% 50V	C309	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C2190	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C3090	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C2191	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C3091	0880057	PF 0.1MF +-10% 50V
C2192	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C3092	0880057	PF 0.1MF +-10% 50V
C2301	0800074	CAPACITOR ELECTROLYTIC 470MF 16V	C310	0244171	CD 0.01MF +80-20% 50V
C2302	0244118	CD 470PF +-10% 50V	C311	0244171	CD 0.01MF +80-20% 50V
C2303	0244120	CD 820PF +-10% 50V	C313	0244171	CD 0.01MF +80-20% 50V
C2304	0800018	CAPACITOR ELECTROLYTIC 10MF 50V	C314	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C2309	0800018	CAPACITOR ELECTROLYTIC 10MF 50V	C315	0244171	CD 0.01MF +80-20% 50V
C3001	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C316	0244171	CD 0.01MF +80-20% 50V
C301	0284638	EL 10MF 16V	C317	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C3013	0890062	CD 12PF +-5% 50V	C318	0800003	CAPACITOR ELECTROLYTIC 1MF 50V

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
C319	0890084	CD 560PF +-10% 50V	C4024	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C320	0890087	CD 1000PF +-10% 50V	C4025	0284446R	EL 1MF 50V
C321	0800023	CAPACITOR ELECTROLYTIC 22MF 16V	C4026	0880053	PF 0.047MF +-10% 50V
C322	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C4027	0880053	PF 0.047MF +-10% 50V
C323	0800003	CAPACITOR ELECTROLYTIC 1MF 50V	C4028	0284446R	EL 1MF 50V
C324	0800041	CAPACITOR ELECTROLYTIC 47MF 16V	C4029	0800005	CAPACITOR,ELECTROLYTIC 2.2MF 50V
C325	0800009	CAPACITOR ELECTROLYTIC 4.7MF 25V	C4030	0800005	CAPACITOR,ELECTROLYTIC 2.2MF 50V
C326	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V	C4031	0800041	CAPACITOR ELECTROLYTIC 47MF 16V
C327	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C4032	0800082	CAPACITOR ELECTROLYTIC 1000MF 16V
C328	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C4033	0800009	CAPACITOR ELECTROLYTIC 4.7MF 25V
C329	0244171	CD 0.01MF +80-20% 50V	C4034	0800009	CAPACITOR ELECTROLYTIC 4.7MF 25V
C330	0244171	CD 0.01MF +80-20% 50V	C4035	0800051	CAPACITOR ELECTROLYTIC 100MF 25V
C3301	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V	C4036	0800023	CAPACITOR ELECTROLYTIC 22MF 16V
C3302	0880044	PF 0.01MF +-10% 50V	C4037	0880057	PF 0.1MF +-10% 50V
C3308	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C4038	0800077	CAPACITOR,ELECTROLYTIC 470MF 50V
C3309	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C4039	0880057	PF 0.1MF +-10% 50V
C331	0800103	CAPACITOR ELECTROLYTIC 0.22MF 50V	C4047	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C3310	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V	C4053	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C3311	0880044	PF 0.01MF +-10% 50V	C4054	0880044	PF 0.01MF +-10% 50V
C332	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C4055	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C3321	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C4058	0880057	PF 0.1MF +-10% 50V
C3322	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V	C4060	0880057	PF 0.1MF +-10% 50V
C3323	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C4063	0800083	CAPACITOR ELECTROLYTIC 1000MF 25V
C3324	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C4064	0800083	CAPACITOR ELECTROLYTIC 1000MF 25V
C3325	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V	C4067	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C3326	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V	C4068	0800007	CAPACITOR,ELECTROLYTIC 3.3MF 50V
C333	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C4070	0800026	CAPACITOR ELECTROLYTIC 22MF 50V
C334	0244171	CD 0.01MF +80-20% 50V	C4071	0800026	CAPACITOR ELECTROLYTIC 22MF 50V
C335	0880057	PF 0.1MF +-10% 50V	C4076	0800082	CAPACITOR ELECTROLYTIC 1000MF 16V
C336	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V	C4077	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C337	0890083	CD 470PF +-10% 50V	C4078	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C339	0284667	EL 47MF 16V	C4079	0800041	CAPACITOR ELECTROLYTIC 47MF 16V
C340	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C4081	0880057	PF 0.1MF +-10% 50V
C341	0880037	PF 3300PF +-10% 50V	C4805	0257048	EL 2.2MF 25V
C3501	0890113	CD 9PF +-0.5% 50V	C4806	0257048	EL 2.2MF 25V
C3502	0890113	CD 9PF +-0.5% 50V	C4807	0257048	EL 2.2MF 25V
C4001	0252953	EL 4700MF 16V	C4808	0257048	EL 2.2MF 25V
C4002	0259411F	EL 3300MF 50V	C5001	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C4003	0800053	CAPACITOR ELECTROLYTIC 100MF 50V	C5002	0880044	PF 0.01MF +-10% 50V
C4004	0880057	PF 0.1MF +-10% 50V	C5003	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C4008	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C5004	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C4009	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C5005	0246454	CD 39PF +-5% 50V
C4010	0800103	CAPACITOR ELECTROLYTIC 0.22MF 50V	C5006	0880044	PF 0.01MF +-10% 50V
C4011	0800016	CAPACITOR ELECTROLYTIC 10MF 25V	C5007	0246462	CD 82PF +-10% 50V
C4012	0800016	CAPACITOR ELECTROLYTIC 10MF 25V	C5008	0880053	PF 0.047MF +-10% 50V
C4013	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C501	0880044	PF 0.01MF +-10% 50V
C4014	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V	C502	0890063	CD 15PF +-5% 50V
C4015	0800103	CAPACITOR ELECTROLYTIC 0.22MF 50V	C503	0880044	PF 0.01MF +-10% 50V
C4016	0800041	CAPACITOR ELECTROLYTIC 47MF 16V	C504	0880044	PF 0.01MF +-10% 50V
C4017	0800051	CAPACITOR ELECTROLYTIC 100MF 25V	C505	0800005	CAPACITOR,ELECTROLYTIC 2.2MF 50V
C4018	0880031	PF 1000PF +-10% 50V	C506	0244171	CD 0.01MF +80-20% 50V
C4019	0800067	CAPACITOR,ELECTROLYTIC 330MF 25V	C507	0244171	CD 0.01MF +80-20% 50V
C4020	0880031	PF 1000PF +-10% 50V	C508	0246443	CD 13PF +-5% 50V
C4021	0800009	CAPACITOR ELECTROLYTIC 4.7MF 25V	C509	0244171	CD 0.01MF +80-20% 50V
C4022	0800009	CAPACITOR ELECTROLYTIC 4.7MF 25V	C510	0800001	CAPACITOR ELECTROLYTIC 0.47MF 50V

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SYMBOL NO.	PART NO.	DESCRIPTION
C511	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C512	0880044	PF 0.01MF +-10% 50V
C513	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C515	0890076	CD 150PF +-10% 50V
C516	0890076	CD 150PF +-10% 50V
C517	0890076	CD 150PF +-10% 50V
C518	0890067	CD 33PF +-5% 50V
C519	0890059	CD 9PF +-0.5% 50V
C520	0890059	CD 9PF +-0.5% 50V
C521	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C522	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C523	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C524	0244171	CD 0.01MF +80-20% 50V
C525	0244171	CD 0.01MF +80-20% 50V
C526	0244171	CD 0.01MF +80-20% 50V
C527	0244171	CD 0.01MF +80-20% 50V
C528	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C601	0880044	PF 0.01MF +-10% 50V
C602	0880053	PF 0.047MF +-10% 50V
C603	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C604	0880035	PF 2200PF +-10% 50V
C605	0880037	PF 3300PF +-10% 50V
C606	0880057	PF 0.1MF +-10% 50V
C607	0880037	PF 3300PF +-10% 50V
C651	0279859	PF 0.1MF +-10% 100V
C652	0880051	PF 0.033MF +-10% 50V
C653	0880044	PF 0.01MF +-10% 50V
⚠C654	0800069	CAPACITOR,ELECTROLYTIC 330MF 50V
C655	0252969	EL 2200MF 25V
C656	0800069	CAPACITOR,ELECTROLYTIC 330MF 50V
C658	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C659	0284447R	EL 2.2MF 50V
⚠C660	0292716	TA 1MF +-10% 20V
C664	0800074	CAPACITOR ELECTROLYTIC 470MF 16V
C665	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C666	0800012	CAPACITOR ELECTROLYTIC 4.7MF 50V
C668	0880044	PF 0.01MF +-10% 50V
C669	0880062	PF 0.22MF +-10% 50V
C670	0880062	PF 0.22MF +-10% 50V
C7001	0890084	CD 560PF +-10% 50V
C7002	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C7003	0244104	CD 1800PF +-10% 50V
C7004	0880048	PF 0.022MF +-10% 50V
C7005	0890081	CD 330PF +-10% 50V
C7006	0890087	CD 1000PF +-10% 50V
C7007	0880053	PF 0.047MF +-10% 50V
C7008	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C7009	0880033	PF 1500PF +-10% 50V
C7010	0244107	CD 3300PF +-10% 50V
C7012	0880048	PF 0.022MF +-10% 50V
C7013	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C7014	0880053	PF 0.047MF +-10% 50V
C7015	0800015	CAPACITOR,ELECTROLYTIC 10MF 16V
C711	0299926	PP 0.1MF +-10% 200V
C713	0244501	CD 1000PF +-10% 500V
C714	0243507	CD 330PF +-10% 500V
C715	0890028	CD 330PF +-10% 50V
⚠C717	0299723	PP 9100PF +-5% 1.6KV
⚠C718	0299668	PP 3600PF +-5% 1600V
⚠C719	0299933	PP 0.39MF +-10% 200V
⚠C721	0299918	PP 0.022MF +-10% 200V
C722	0259471	EL 6.8MF 25V
⚠C723	0244209	CD 680PF +-10% 1600V
C724	0259153	EL 220MF 160V
C727	0244504	CD 1800PF +-10% 500V
C729	0253483	EL 33MF 350V
C731	0800053	CAPACITOR ELECTROLYTIC 100MF 50V
⚠C732	0299636	PP 0.068MF +-5% 1600V
C738	0243510	CD 560PF +-10% 500V
C739	0890087	CD 1000PF +-10% 50V
C740	0284623R	EL 1MF 50V
C743	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C744	0880048	PF 0.022MF +-10% 50V
C745	0880057	PF 0.1MF +-10% 50V
⚠C747	0299932	PP 0.33MF +-10% 200V
C748	0247850	CD 68PF +-5% 500V
C750	0800018	CAPACITOR ELECTROLYTIC 10MF 50V
C7501	0284623R	EL 1MF 50V
C7502	0284623R	EL 1MF 50V
C7503	0800074	CAPACITOR ELECTROLYTIC 470MF 16V
C751	0244507	CD 3300PF +-10% 500V
C755	0244109	CD 4700PF +-10% 50V
C757	0284449R	EL 4.7MF 50V
C759	0800007	CAPACITOR,ELECTROLYTIC 3.3MF 50V
C760	0243503	CD 150PF +-10% 500V
C763	0890089	CD 1500PF +-10% 50V
C781	0800041	CAPACITOR ELECTROLYTIC 47MF 16V
C782	0244120	CD 820PF +-10% 50V
⚠C791B	0244206	CD 330PF +-10% 2KV
⚠C791G	0244206	CD 330PF +-10% 2KV
⚠C791R	0244206	CD 330PF +-10% 2KV
⚠C792B	0244206	CD 330PF +-10% 2KV
⚠C792G	0244206	CD 330PF +-10% 2KV
⚠C792R	0244206	CD 330PF +-10% 2KV
C801G	0257543	EL 3.3MF 315V
C804B	0243425	CD 100PF +-10% 1.6KV
C804G	0243425	CD 100PF +-10% 1.6KV
C804R	0243425	CD 100PF +-10% 1.6KV
C805B	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C805G	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C805R	0800049	CAPACITOR,ELECTROLYTIC 100MF 16V
C807B	0244105	CD 2200PF +-10% 50V
C807G	0244105	CD 2200PF +-10% 50V
C807R	0244105	CD 2200PF +-10% 50V
C808B	0244120	CD 820PF +-10% 50V
C808G	0244120	CD 820PF +-10% 50V
C808R	0244115	CD 560PF +-10% 50V
C809R	0244227	CD 100PF +-10% 50V
C901	0800075	CAPACITOR ELECTROLYTIC 470MF 25V
⚠C902	0279718	PF 0.1MF +-10% 125V

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SYMBOL NO.	PART NO.	DESCRIPTION
⚠C903	0279718	PF 0.1MF +-10% 125V
⚠C906	0248593F	CD 4700PF +80-20% 250V
⚠C907	0248593F	CD 4700PF +80-20% 250V
⚠C908	0248593F	CD 4700PF +80-20% 250V
⚠C909	0248593F	CD 4700PF +80-20% 250V
⚠C910	0259167	EL 820MF 200V
⚠C911	0244501	CD 1000PF +-10% 500V
C912	0244501	CD 1000PF +-10% 500V
C913	0299929	PP 0.18MF +-10% 200V
C914	0243503	CD 150PF +-10% 500V
C915	0890087	CD 1000PF +-10% 50V
C916	0800042	CAPACITOR ELECTROLYTIC 47MF 25V
C917	0800042	CAPACITOR ELECTROLYTIC 47MF 25V
C918	0880062	PF 0.22MF +-10% 50V
C921	0800005	CAPACITOR,ELECTROLYTIC 2.2MF 50V
C923	0800009	CAPACITOR ELECTROLYTIC 4.7MF 25V
C924	0276223	PF 3300PF +-5% 50V
C926	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
⚠C927	0249487	CD 3300PF +-20%
C928	0243511	CD 680PF +-10% 500V
C929	0258178G	EL 470MF,63V
C933	0299969	PP 1000PF +-5% 630V
C934	0299969	PP 1000PF +-5% 630V
C935	0258697	EL 470MF 160V
C936	0253460	EL 100MF 160V
C937	0244105	CD 2200PF +-10% 50V
C938	0880044	PF 0.01MF +-10% 50V
C939	0800018	CAPACITOR ELECTROLYTIC 10MF 50V
C940	0800005	CAPACITOR,ELECTROLYTIC 2.2MF 50V
C941	0890067	CD 33PF +-5% 50V
C942	0880062	PF 0.22MF +-10% 50V
C943	0253943	EL 0.33MF 50V
C946	0247854	CD 100PF +-5% 500V
⚠C951	0259167	EL 820MF 200V
C952	0258178G	EL 470MF,63V
C953	0243511	CD 680PF +-10% 500V
C954	0880062	PF 0.22MF +-10% 50V
C955	0243503	CD 150PF +-10% 500V
C956	0243503	CD 150PF +-10% 500V
C957	0258178G	EL 470MF,63V
C958	0258175	EL 470MF 31.5V
C959	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C960	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C961	0800041	CAPACITOR ELECTROLYTIC 47MF 16V
C962	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C963	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C964	0800023	CAPACITOR ELECTROLYTIC 22MF 16V
C965	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C966	0800044	CAPACITOR ELECTROLYTIC 47MF 50V
C967	0800003	CAPACITOR ELECTROLYTIC 1MF 50V
C971	0880062	PF 0.22MF +-10% 50V
C972	0800032	CAPACITOR-ELECTROLYTIC 33MF 16V
C973	0800042	CAPACITOR ELECTROLYTIC 47MF 25V
C974	0800042	CAPACITOR ELECTROLYTIC 47MF 25V
C976	0258179G	EL 1000MF,6
C977	0243503	CD 150PF +-10% 500V
C980	0247850	CD 68PF +-5% 500V
C983	0800053	CAPACITOR ELECTROLYTIC 100MF 50V
C984	0800053	CAPACITOR ELECTROLYTIC 100MF 50V
C985	0258178G	EL 470MF,63V
C986	0880062	PF 0.22MF +-10% 50V
C987	0258175	EL 470MF 31.5V
C988	0244115F	CD 560PF +-10% 50V
C989	0880062	PF 0.22MF +-10% 50V
C990	0880062	PF 0.22MF +-10% 50V
C991	0880062	PF 0.22MF +-10% 50V
C992	0880062	PF 0.22MF +-10% 50V

RESISTORS

R0001	0700041	CF 1K OHM +-5% 1/16W
R0002	0700058	CF 22K OHM +-5% 1/16W
R0003	0700058	CF 22K OHM +-5% 1/16W
R0004	0700041	CF 1K OHM +-5% 1/16W
R0005	0700041	CF 1K OHM +-5% 1/16W
R0006	0700041	CF 1K OHM +-5% 1/16W
R0007	0700041	CF 1K OHM +-5% 1/16W
R0008	0700054	CF 10K OHM +-5% 1/16W
R0009	0700048	CF 3.9K OHM +-5% 1/16W
R0012	0700061	CF 33K OHM +-5% 1/16W
R0013	0700054	CF 10K OHM +-5% 1/16W
R0016	0700058	CF 22K OHM +-5% 1/16W
R0017	0700051	CF 5.6K OHM +-5% 1/16W
R0018	0700058	CF 22K OHM +-5% 1/16W
R0019	0700041	CF 1K OHM +-5% 1/16W
R0020	0700054	CF 10K OHM +-5% 1/16W
R0021	0700041	CF 1K OHM +-5% 1/16W
R0022	0700058	CF 22K OHM +-5% 1/16W
R0023	0700041	CF 1K OHM +-5% 1/16W
R0024	0700041	CF 1K OHM +-5% 1/16W
R0025	0700041	CF 1K OHM +-5% 1/16W
R0026	0700041	CF 1K OHM +-5% 1/16W
R0028	0700058	CF 22K OHM +-5% 1/16W
R0030	0700058	CF 22K OHM +-5% 1/16W
R0031	0700041	CF 1K OHM +-5% 1/16W
R0032	0700041	CF 1K OHM +-5% 1/16W
R0033	0700041	CF 1K OHM +-5% 1/16W
R0034	0700041	CF 1K OHM +-5% 1/16W
R0036	0700045	CF 2.2K OHM +-5% 1/16W
R0037	0700058	CF 22K OHM +-5% 1/16W
R0040	0700056	CF 15K OHM +-5% 1/16W
R0041	0700048	CF 3.9K OHM +-5% 1/16W
R0042	0700054	CF 10K OHM +-5% 1/16W
R0043	0700056	CF 15K OHM +-5% 1/16W
R0044	0700064	CF 56K OHM +-5% 1/16W
R0045	0700067	CF 100K OHM +-5% 1/16W
R0046	0700063	CF 47K OHM +-5% 1/16W
R0047	0700041	CF 1K OHM +-5% 1/16W
R0048	0700063	CF 47K OHM +-5% 1/16W
R0049	0700041	CF 1K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION
R0050	0700063	CF 47K OHM +-5% 1/16W
R0051	0700041	CF 1K OHM +-5% 1/16W
R0052	0700041	CF 1K OHM +-5% 1/16W
R0053	0700041	CF 1K OHM +-5% 1/16W
R0054	0700041	CF 1K OHM +-5% 1/16W
R0056	0700064	CF 56K OHM +-5% 1/16W
R0057	0700043	CF 1.5K OHM +-5% 1/16W
R0058	0700049	CF 4.7K OHM +-5% 1/16W
R0059	0700045	CF 2.2K OHM +-5% 1/16W
R0060	0700058	CF 22K OHM +-5% 1/16W
R0061	0700058	CF 22K OHM +-5% 1/16W
R0062	0700061	CF 33K OHM +-5% 1/16W
R0063	0700027	CF 100 OHM +-5% 1/16W
R0065	0700067	CF 100K OHM +-5% 1/16W
R0066	0700058	CF 22K OHM +-5% 1/16W
R0067	0700049	CF 4.7K OHM +-5% 1/16W
R0068	0700031	CF 180 OHM +-5% 1/16W
R0069	0700047	CF 3.3K OHM +-5% 1/16W
R0070	0700066	CF 82K OHM +-5% 1/16W
R0071	0700066	CF 82K OHM +-5% 1/16W
R0072	0700054	CF 10K OHM +-5% 1/16W
R0073	0700054	CF 10K OHM +-5% 1/16W
R0074	0700041	CF 1K OHM +-5% 1/16W
R0075	0700041	CF 1K OHM +-5% 1/16W
R0076	0700041	CF 1K OHM +-5% 1/16W
R0077	0700041	CF 1K OHM +-5% 1/16W
R0078	0700067	CF 100K OHM +-5% 1/16W
R0079	0700041	CF 1K OHM +-5% 1/16W
R0080	0700041	CF 1K OHM +-5% 1/16W
R0081	0700041	CF 1K OHM +-5% 1/16W
R0082	0700041	CF 1K OHM +-5% 1/16W
R0083	0700041	CF 1K OHM +-5% 1/16W
R0084	0700052	CF 6.8K OHM +-5% 1/16W
R0085	0700041	CF 1K OHM +-5% 1/16W
R0086	0700041	CF 1K OHM +-5% 1/16W
R0087	0700052	CF 6.8K OHM +-5% 1/16W
R0088	0700041	CF 1K OHM +-5% 1/16W
R0089	0700041	CF 1K OHM +-5% 1/16W
R0090	0700058	CF 22K OHM +-5% 1/16W
R0094	0700045	CF 2.2K OHM +-5% 1/16W
R0095	0700052	CF 6.8K OHM +-5% 1/16W
R0096	0700056	CF 15K OHM +-5% 1/16W
R0097	0700054	CF 10K OHM +-5% 1/16W
R0098	0700027	CF 100 OHM +-5% 1/16W
R0099	0700046	CF 2.7K OHM +-5% 1/16W
R0100	0700041	CF 1K OHM +-5% 1/16W
R0101	0700041	CF 1K OHM +-5% 1/16W
R0102	0700041	CF 1K OHM +-5% 1/16W
R0103	0700056	CF 15K OHM +-5% 1/16W
R0104	0700041	CF 1K OHM +-5% 1/16W
R0105	0700041	CF 1K OHM +-5% 1/16W
R0106	0700056	CF 15K OHM +-5% 1/16W
R0107	0700041	CF 1K OHM +-5% 1/16W
R0108	0700041	CF 1K OHM +-5% 1/16W
R0109	0700058	CF 22K OHM +-5% 1/16W
R0110	0700041	CF 1K OHM +-5% 1/16W
R0113	0700052	CF 6.8K OHM +-5% 1/16W
R0115	0700052	CF 6.8K OHM +-5% 1/16W
R0117	0700052	CF 6.8K OHM +-5% 1/16W
R0118	0114169	CF 2.2K OHM +-5% 1/4W
R0119	0700027	CF 100 OHM +-5% 1/16W
R0120	0114161	CF 1K OHM +-5% 1/4W
R0121	0700027	CF 100 OHM +-5% 1/16W
R0122	0114161	CF 1K OHM +-5% 1/4W
R0123	0700027	CF 100 OHM +-5% 1/16W
R0124	0700041	CF 1K OHM +-5% 1/16W
R0125	0700067	CF 100K OHM +-5% 1/16W
R0126	0700054	CF 10K OHM +-5% 1/16W
R0127	0700046	CF 2.7K OHM +-5% 1/16W
R0128	0700054	CF 10K OHM +-5% 1/16W
R0133	0700054	CF 10K OHM +-5% 1/16W
R0135	0700052	CF 6.8K OHM +-5% 1/16W
R0136	0700052	CF 6.8K OHM +-5% 1/16W
R0137	0113703	CF 12 OHM +-5% 1/2W
R0138	0700036	CF 470 OHM +-5% 1/16W
⚠R0139	0119687	FR 4.7 OHM +-5% 1/4W
R0140	0700041	CF 1K OHM +-5% 1/16W
R0141	0700041	CF 1K OHM +-5% 1/16W
R0142	0700041	CF 1K OHM +-5% 1/16W
R0143	0700063	CF 47K OHM +-5% 1/16W
R0144	0700041	CF 1K OHM +-5% 1/16W
R0145	0700051	CF 5.6K OHM +-5% 1/16W
⚠R0146	0150136	VR 5K OHM-B
R0147	0100127	CF 390K OHM +-5% 1/8W
R0148	0100119	CF 180K OHM +-5% 1/8W
R0149	0100121	CF 220K OHM +-5% 1/8W
R0150	0700041	CF 1K OHM +-5% 1/16W
R0151	0700058	CF 22K OHM +-5% 1/16W
R0152	0700062	CF 39K OHM +-5% 1/16W
R0154	0700054	CF 10K OHM +-5% 1/16W
R0155	0700054	CF 10K OHM +-5% 1/16W
R0156	0700041	CF 1K OHM +-5% 1/16W
R0163	0700041	CF 1K OHM +-5% 1/16W
R0165	0114161	CF 1K OHM +-5% 1/4W
R0166	0700058	CF 22K OHM +-5% 1/16W
R0167	0700051	CF 5.6K OHM +-5% 1/16W
R0168	0700057	CF 18K OHM +-5% 1/16W
R0169	0700054	CF 10K OHM +-5% 1/16W
R0170	0700054	CF 10K OHM +-5% 1/16W
R0171	0700054	CF 10K OHM +-5% 1/16W
R0172	0700061	CF 33K OHM +-5% 1/16W
R0173	0700041	CF 1K OHM +-5% 1/16W
R0174	0700041	CF 1K OHM +-5% 1/16W
R0177	0700058	CF 22K OHM +-5% 1/16W
R0184	0700041	CF 1K OHM +-5% 1/16W
R0185	0700037	CF 560 OHM +-5% 1/16W
R0186	0700042	CF 1.2K OHM +-5% 1/16W
R0187	0700041	CF 1K OHM +-5% 1/16W
R0188	0700041	CF 1K OHM +-5% 1/16W
R0189	0700041	CF 1K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R0190	0700041	CF 1K OHM +-5% 1/16W	R1336	0700063	CF 47K OHM +-5% 1/16W
R0191	0700041	CF 1K OHM +-5% 1/16W	R1337	0110225	MF 150 OHM +-5% 2W
R0192	0700058	CF 22K OHM +-5% 1/16W	R1338	0113692	CF 4.7 OHM +-5% 1/2W
R0194	0700058	CF 22K OHM +-5% 1/16W	R1339	0113692	CF 4.7 OHM +-5% 1/2W
R0195	0700058	CF 22K OHM +-5% 1/16W	R1341	0100077	CF 3.3K OHM +-5% 1/8W
R0199	0700058	CF 22K OHM +-5% 1/16W	R1351	0700063	CF 47K OHM +-5% 1/16W
R0200	0700058	CF 22K OHM +-5% 1/16W	R1352	0110225	MF 150 OHM +-5% 2W
R0204	0700041	CF 1K OHM +-5% 1/16W	R1353	0113696	CF 6.8 OHM +-5% 1/2W
R0205	0700041	CF 1K OHM +-5% 1/16W	R1354	0113696	CF 6.8 OHM +-5% 1/2W
R0206	0700041	CF 1K OHM +-5% 1/16W	R1356	0100077	CF 3.3K OHM +-5% 1/8W
R0207	0700041	CF 1K OHM +-5% 1/16W	R1358	0700063	CF 47K OHM +-5% 1/16W
R0208	0700055	CF 12K OHM +-5% 1/16W	R1359	0700056	CF 15K OHM +-5% 1/16W
R0209	0700058	CF 22K OHM +-5% 1/16W	R1361	0700063	CF 47K OHM +-5% 1/16W
R0210	0700051	CF 5.6K OHM +-5% 1/16W	R1362	0110225	MF 150 OHM +-5% 2W
R0211	0700052	CF 6.8K OHM +-5% 1/16W	R1363	0113692	CF 4.7 OHM +-5% 1/2W
R0212	0700067	CF 100K OHM +-5% 1/16W	R1364	0113692	CF 4.7 OHM +-5% 1/2W
R0213	0700041	CF 1K OHM +-5% 1/16W	R1366	0100077	CF 3.3K OHM +-5% 1/8W
R0214	0700057	CF 18K OHM +-5% 1/16W	R1368	0700063	CF 47K OHM +-5% 1/16W
R0215	0700041	CF 1K OHM +-5% 1/16W	R1369	0700058	CF 22K OHM +-5% 1/16W
R0216	0700043	CF 1.5K OHM +-5% 1/16W	R1370	0700032	CF 220 OHM +-5% 1/16W
R0217	0700058	CF 22K OHM +-5% 1/16W	R1371	0700032	CF 220 OHM +-5% 1/16W
R0218	0700027	CF 100 OHM +-5% 1/16W	R1372	0700032	CF 220 OHM +-5% 1/16W
R0219	0700041	CF 1K OHM +-5% 1/16W	R1373	0700032	CF 220 OHM +-5% 1/16W
R0220	0700058	CF 22K OHM +-5% 1/16W	R1374	0700032	CF 220 OHM +-5% 1/16W
R0221	0700058	CF 22K OHM +-5% 1/16W	R1375	0700032	CF 220 OHM +-5% 1/16W
R0222	0700058	CF 22K OHM +-5% 1/16W	R1376	0700032	CF 220 OHM +-5% 1/16W
R0224	0700051	CF 5.6K OHM +-5% 1/16W	R1377	0700032	CF 220 OHM +-5% 1/16W
R0225	0700059	CF 27K OHM +-5% 1/16W	R1378	0700032	CF 220 OHM +-5% 1/16W
R0226	0700067	CF 100K OHM +-5% 1/16W	R1379	0700032	CF 220 OHM +-5% 1/16W
R0229	0700046	CF 2.7K OHM +-5% 1/16W	R1390	0700044	CF 1.8K OHM +-5% 1/16W
R0230	0700041	CF 1K OHM +-5% 1/16W	R1401	0700045	CF 2.2K OHM +-5% 1/16W
R0231	0700041	CF 1K OHM +-5% 1/16W	R1402	0700041	CF 1K OHM +-5% 1/16W
R1101	0700054	CF 10K OHM +-5% 1/16W	R1403	0700041	CF 1K OHM +-5% 1/16W
R1102	0700054	CF 10K OHM +-5% 1/16W	R1404	0700037	CF 560 OHM +-5% 1/16W
R1103	0700045	CF 2.2K OHM +-5% 1/16W	R1415	0159922	VR 5K OHM-B
R1104	0700041	CF 1K OHM +-5% 1/16W	R2001	0700061	CF 33K OHM +-5% 1/16W
R1301	0700063	CF 47K OHM +-5% 1/16W	R2002	0700051	CF 5.6K OHM +-5% 1/16W
R1302	0110225	MF 150 OHM +-5% 2W	R2003	0700058	CF 22K OHM +-5% 1/16W
R1303	0113696	CF 6.8 OHM +-5% 1/2W	R2004	0700051	CF 5.6K OHM +-5% 1/16W
R1304	0113696	CF 6.8 OHM +-5% 1/2W	R2005	0700054	CF 10K OHM +-5% 1/16W
R1306	0100077	CF 3.3K OHM +-5% 1/8W	R2006	0114131	CF 100 OHM +-5% 1/4W
R1308	0700063	CF 47K OHM +-5% 1/16W	R2007	0700054	CF 10K OHM +-5% 1/16W
R1309	0700056	CF 15K OHM +-5% 1/16W	R2008	0700054	CF 10K OHM +-5% 1/16W
R1311	0700063	CF 47K OHM +-5% 1/16W	R2009	0700045	CF 2.2K OHM +-5% 1/16W
R1312	0110225	MF 150 OHM +-5% 2W	R2010	0700034	CF 330 OHM +-5% 1/16W
R1313	0113692	CF 4.7 OHM +-5% 1/2W	R2011	0700051	CF 5.6K OHM +-5% 1/16W
R1314	0113692	CF 4.7 OHM +-5% 1/2W	R2012	0700058	CF 22K OHM +-5% 1/16W
R1316	0100077	CF 3.3K OHM +-5% 1/8W	R2013	0700064	CF 56K OHM +-5% 1/16W
R1318	0700063	CF 47K OHM +-5% 1/16W	R2014	0700036	CF 470 OHM +-5% 1/16W
R1319	0700058	CF 22K OHM +-5% 1/16W	R2015	0700041	CF 1K OHM +-5% 1/16W
R1326	0700063	CF 47K OHM +-5% 1/16W	R2016	0700041	CF 1K OHM +-5% 1/16W
R1327	0110229	MF 220 OHM +-5% 2W	R2017	0700041	CF 1K OHM +-5% 1/16W
R1328	0113696	CF 6.8 OHM +-5% 1/2W	R2018	0700058	CF 22K OHM +-5% 1/16W
R1329	0113696	CF 6.8 OHM +-5% 1/2W	R2019	0700051	CF 5.6K OHM +-5% 1/16W
R1331	0100077	CF 3.3K OHM +-5% 1/8W	R2020	0150115	VR 20K OHM-B

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SYMBOL NO.	PART NO.	DESCRIPTION
R2021	0700058	CF 22K OHM +-5% 1/16W
R2022	0700051	CF 5.6K OHM +-5% 1/16W
R2023	0700058	CF 22K OHM +-5% 1/16W
R2024	0700064	CF 56K OHM +-5% 1/16W
R2025	0700041	CF 1K OHM +-5% 1/16W
R2026	0700041	CF 1K OHM +-5% 1/16W
R2027	0700045	CF 2.2K OHM +-5% 1/16W
R2028	0700034	CF 330 OHM +-5% 1/16W
R2029	0700041	CF 1K OHM +-5% 1/16W
R2030	0700058	CF 22K OHM +-5% 1/16W
R2031	0700041	CF 1K OHM +-5% 1/16W
R2032	0700045	CF 2.2K OHM +-5% 1/16W
R2033	0700041	CF 1K OHM +-5% 1/16W
R2034	0700043	CF 1.5K OHM +-5% 1/16W
R2035	0700048	CF 3.9K OHM +-5% 1/16W
R2036	0700045	CF 2.2K OHM +-5% 1/16W
R2037	0700048	CF 3.9K OHM +-5% 1/16W
R2101	0150136	VR 5K OHM-B
R2102	0150136	VR 5K OHM-B
R2103	0150136	VR 5K OHM-B
R2104	0150136	VR 5K OHM-B
R2105	0150136	VR 5K OHM-B
R2106	0150136	VR 5K OHM-B
R2107	0150136	VR 5K OHM-B
R2108	0150136	VR 5K OHM-B
R2109	0150136	VR 5K OHM-B
R2110	0150136	VR 5K OHM-B
R2111	0150136	VR 5K OHM-B
R2112	0150136	VR 5K OHM-B
R2113	0150136	VR 5K OHM-B
R2114	0150136	VR 5K OHM-B
R2115	0150136	VR 5K OHM-B
R2116	0150136	VR 5K OHM-B
R2117	0150136	VR 5K OHM-B
R2118	0150136	VR 5K OHM-B
R2119	0150136	VR 5K OHM-B
R2120	0150136	VR 5K OHM-B
R2121	0150136	VR 5K OHM-B
R2122	0150136	VR 5K OHM-B
R2123	0150136	VR 5K OHM-B
R2124	0150136	VR 5K OHM-B
R2125	0150136	VR 5K OHM-B
R2126	0150136	VR 5K OHM-B
R2127	0150136	VR 5K OHM-B
R2128	0150136	VR 5K OHM-B
R2129	0150136	VR 5K OHM-B
R2130	0150136	VR 5K OHM-B
R2131	0150136	VR 5K OHM-B
R2132	0150136	VR 5K OHM-B
R2133	0150136	VR 5K OHM-B
R2134	0150136	VR 5K OHM-B
R2135	0150136	VR 5K OHM-B
R2136	0150136	VR 5K OHM-B
R2137	0150136	VR 5K OHM-B
R2138	0150136	VR 5K OHM-B
R2139	0150136	VR 5K OHM-B
R2140	0150136	VR 5K OHM-B
R2141	0150136	VR 5K OHM-B
R2142	0150136	VR 5K OHM-B
R2151	0700052	CF 6.8K OHM +-5% 1/16W
R2152	0700044	CF 1.8K OHM +-5% 1/16W
R2154	0187092	CF 13K OHM +-5% 1/16W
R2155	0700049	CF 4.7K OHM +-5% 1/16W
R2156	0700047	CF 3.3K OHM +-5% 1/16W
R2157	0700052	CF 6.8K OHM +-5% 1/16W
R2158	0700054	CF 10K OHM +-5% 1/16W
R2162	0700054	CF 10K OHM +-5% 1/16W
R2163	0100121	CF 220K OHM +-5% 1/8W
R2164	0114161	CF 1K OHM +-5% 1/4W
R2165	0100087	CF 8.2K OHM +-5% 1/8W
R2166	0187072	CF 2K OHM +-5% 1/16W
R2167	0700049	CF 4.7K OHM +-5% 1/16W
R2168	0187068	CF 1.3K OHM +-5% 1/16W
R2169	0187080	CF 4.3K OHM +-5% 1/16W
R2170	0700055	CF 12K OHM +-5% 1/16W
R2171	0700047	CF 3.3K OHM +-5% 1/16W
R2172	0700047	CF 3.3K OHM +-5% 1/16W
R2173	0700049	CF 4.7K OHM +-5% 1/16W
R2174	0700045	CF 2.2K OHM +-5% 1/16W
R2175	0700042	CF 1.2K OHM +-5% 1/16W
R2182	0700051	CF 5.6K OHM +-5% 1/16W
R2183	0150134	VR 1K OHM-B
R2189	0700063	CF 47K OHM +-5% 1/16W
R2190	0700057	CF 18K OHM +-5% 1/16W
R2193	0150136	VR 5K OHM-B
R2194	0150136	VR 5K OHM-B
R2195	0150136	VR 5K OHM-B
R2196	0150136	VR 5K OHM-B
R2197	0700066	CF 82K OHM +-5% 1/16W
R2199	0187104	CF 43K OHM +-5% 1/16W
R2200	0700054	CF 10K OHM +-5% 1/16W
R2201	0187088	CF 9.1K OHM +-5% 1/16W
R2205	0700067	CF 100K OHM +-5% 1/16W
R2206	0187098	CF 24K OHM +-5% 1/16W
R2208	0700049	CF 4.7K OHM +-5% 1/16W
R2209	0700049	CF 4.7K OHM +-5% 1/16W
R2210	0700047	CF 3.3K OHM +-5% 1/16W
R2211	0700054	CF 10K OHM +-5% 1/16W
R2212	0700045	CF 2.2K OHM +-5% 1/16W
R2213	0700046	CF 2.7K OHM +-5% 1/16W
R2217	0700049	CF 4.7K OHM +-5% 1/16W
R2218	0700045	CF 2.2K OHM +-5% 1/16W
R2219	0700067	CF 100K OHM +-5% 1/16W
R2220	0114161	CF 1K OHM +-5% 1/4W
R2221	0700049	CF 4.7K OHM +-5% 1/16W
R2222	0700052	CF 6.8K OHM +-5% 1/16W
R2223	0700048	CF 3.9K OHM +-5% 1/16W
R2224	0700048	CF 3.9K OHM +-5% 1/16W
R2225	0187086	CF 7.5K OHM +-5% 1/16W
R2226	0700048	CF 3.9K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R2227	0700051	CF 5.6K OHM +-5% 1/16W	R2284	0700054	CF 10K OHM +-5% 1/16W
R2228	0700045	CF 2.2K OHM +-5% 1/16W	R2285	0700045	CF 2.2K OHM +-5% 1/16W
R2229	0700045	CF 2.2K OHM +-5% 1/16W	R2286	0700052	CF 6.8K OHM +-5% 1/16W
R2230	0700053	CF 8.2K OHM +-5% 1/16W	R2287	0700066	CF 82K OHM +-5% 1/16W
R2231	0700046	CF 2.7K OHM +-5% 1/16W	R2288	0700045	CF 2.2K OHM +-5% 1/16W
R2232	0700054	CF 10K OHM +-5% 1/16W	R2289	0700049	CF 4.7K OHM +-5% 1/16W
R2233	0700047	CF 3.3K OHM +-5% 1/16W	R2290	0700054	CF 10K OHM +-5% 1/16W
R2234	0700047	CF 3.3K OHM +-5% 1/16W	R2291	0700027	CF 100 OHM +-5% 1/16W
R2235	0700054	CF 10K OHM +-5% 1/16W	R2292	0700047	CF 3.3K OHM +-5% 1/16W
R2236	0700047	CF 3.3K OHM +-5% 1/16W	R2293	0700046	CF 2.7K OHM +-5% 1/16W
R2237	0700047	CF 3.3K OHM +-5% 1/16W	R2294	0700049	CF 4.7K OHM +-5% 1/16W
R2238	0700066	CF 82K OHM +-5% 1/16W	R2295	0700063	CF 47K OHM +-5% 1/16W
R2239	0700048	CF 3.9K OHM +-5% 1/16W	R2298	0700042	CF 1.2K OHM +-5% 1/16W
R2240	0700054	CF 10K OHM +-5% 1/16W	R2299	0700049	CF 4.7K OHM +-5% 1/16W
R2241	0700053	CF 8.2K OHM +-5% 1/16W	R2300	0700051	CF 5.6K OHM +-5% 1/16W
R2242	0700063	CF 47K OHM +-5% 1/16W	R2301	0700042	CF 1.2K OHM +-5% 1/16W
R2243	0700041	CF 1K OHM +-5% 1/16W	R2302	0700046	CF 2.7K OHM +-5% 1/16W
R2244	0700047	CF 3.3K OHM +-5% 1/16W	R2303	0700052	CF 6.8K OHM +-5% 1/16W
R2245	0700051	CF 5.6K OHM +-5% 1/16W	R2304	0700045	CF 2.2K OHM +-5% 1/16W
R2246	0700046	CF 2.7K OHM +-5% 1/16W	R2305	0700048	CF 3.9K OHM +-5% 1/16W
R2247	0700063	CF 47K OHM +-5% 1/16W	R2306	0700049	CF 4.7K OHM +-5% 1/16W
R2250	0700067	CF 100K OHM +-5% 1/16W	R2307	0700067	CF 100K OHM +-5% 1/16W
R2251	0700058	CF 22K OHM +-5% 1/16W	R2308	0700049	CF 4.7K OHM +-5% 1/16W
R2252	0700061	CF 33K OHM +-5% 1/16W	R2309	0700041	CF 1K OHM +-5% 1/16W
R2253	0700042	CF 1.2K OHM +-5% 1/16W	R2310	0700052	CF 6.8K OHM +-5% 1/16W
R2254	0700049	CF 4.7K OHM +-5% 1/16W	R2311	0700058	CF 22K OHM +-5% 1/16W
R2255	0700051	CF 5.6K OHM +-5% 1/16W	R2312	0700061	CF 33K OHM +-5% 1/16W
R2256	0700042	CF 1.2K OHM +-5% 1/16W	R2313	0700046	CF 2.7K OHM +-5% 1/16W
R2257	0700046	CF 2.7K OHM +-5% 1/16W	R2314	0700054	CF 10K OHM +-5% 1/16W
R2258	0700052	CF 6.8K OHM +-5% 1/16W	R2315	0700054	CF 10K OHM +-5% 1/16W
R2259	0700045	CF 2.2K OHM +-5% 1/16W	R2316	0700047	CF 3.3K OHM +-5% 1/16W
R2260	0700046	CF 2.7K OHM +-5% 1/16W	R2317	0700047	CF 3.3K OHM +-5% 1/16W
R2261	0700052	CF 6.8K OHM +-5% 1/16W	R2318	0700049	CF 4.7K OHM +-5% 1/16W
R2262	0700047	CF 3.3K OHM +-5% 1/16W	R2319	0700053	CF 8.2K OHM +-5% 1/16W
R2263	0700054	CF 10K OHM +-5% 1/16W	R2320	0700058	CF 22K OHM +-5% 1/16W
R2264	0700047	CF 3.3K OHM +-5% 1/16W	R2321	0700062	CF 39K OHM +-5% 1/16W
R2265	0700058	CF 22K OHM +-5% 1/16W	R2322	0700067	CF 100K OHM +-5% 1/16W
R2266	0700046	CF 2.7K OHM +-5% 1/16W	R2323	0700063	CF 47K OHM +-5% 1/16W
R2267	0700054	CF 10K OHM +-5% 1/16W	R2324	0700041	CF 1K OHM +-5% 1/16W
R2268	0700054	CF 10K OHM +-5% 1/16W	R2325	0700052	CF 6.8K OHM +-5% 1/16W
R2269	0700054	CF 10K OHM +-5% 1/16W	R2326	0700045	CF 2.2K OHM +-5% 1/16W
R2270	0700047	CF 3.3K OHM +-5% 1/16W	R2327	0700051	CF 5.6K OHM +-5% 1/16W
R2271	0700048	CF 3.9K OHM +-5% 1/16W	R2328	0700049	CF 4.7K OHM +-5% 1/16W
R2272	0700063	CF 47K OHM +-5% 1/16W	R2329	0700046	CF 2.7K OHM +-5% 1/16W
R2273	0700067	CF 100K OHM +-5% 1/16W	R2330	0700042	CF 1.2K OHM +-5% 1/16W
R2274	0700062	CF 39K OHM +-5% 1/16W	R2331	0700047	CF 3.3K OHM +-5% 1/16W
R2275	0700048	CF 3.9K OHM +-5% 1/16W	R2332	0700053	CF 8.2K OHM +-5% 1/16W
R2276	0700051	CF 5.6K OHM +-5% 1/16W	R2333	0700045	CF 2.2K OHM +-5% 1/16W
R2277	0700052	CF 6.8K OHM +-5% 1/16W	R2334	0700049	CF 4.7K OHM +-5% 1/16W
R2278	0700047	CF 3.3K OHM +-5% 1/16W	R2335	0700049	CF 4.7K OHM +-5% 1/16W
R2279	0700041	CF 1K OHM +-5% 1/16W	R2336	0700063	CF 47K OHM +-5% 1/16W
R2280	0700052	CF 6.8K OHM +-5% 1/16W	R2337	0187086	CF 7.5K OHM +-5% 1/16W
R2281	0700054	CF 10K OHM +-5% 1/16W	R2338	0700053	CF 8.2K OHM +-5% 1/16W
R2282	0700049	CF 4.7K OHM +-5% 1/16W	R2339	0700054	CF 10K OHM +-5% 1/16W
R2283	0700046	CF 2.7K OHM +-5% 1/16W	R2340	0700049	CF 4.7K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R2341	0700052	CF 6.8K OHM +-5% 1/16W	R2405	0700054	CF 10K OHM +-5% 1/16W
R2342	0700032	CF 220 OHM +-5% 1/16W	R2406	0700047	CF 3.3K OHM +-5% 1/16W
R2343	0700032	CF 220 OHM +-5% 1/16W	R2407	0700047	CF 3.3K OHM +-5% 1/16W
R2344	0700032	CF 220 OHM +-5% 1/16W	R2408	0700041	CF 1K OHM +-5% 1/16W
R2345	0700032	CF 220 OHM +-5% 1/16W	R2409	0700041	CF 1K OHM +-5% 1/16W
R2346	0700032	CF 220 OHM +-5% 1/16W	R2410	0700066	CF 82K OHM +-5% 1/16W
R2347	0700032	CF 220 OHM +-5% 1/16W	R2411	0700056	CF 15K OHM +-5% 1/16W
R2348	0700063	CF 47K OHM +-5% 1/16W	R2419	0700065	CF 68K OHM +-5% 1/16W
R2349	0700051	CF 5.6K OHM +-5% 1/16W	R2420	0700054	CF 10K OHM +-5% 1/16W
R2350	0700054	CF 10K OHM +-5% 1/16W	R2421	0700054	CF 10K OHM +-5% 1/16W
R2352	0700048	CF 3.9K OHM +-5% 1/16W	R2422	0187090	CF 11K OHM +-5% 1/16W
R2353	0700049	CF 4.7K OHM +-5% 1/16W	R2423	0700053	CF 8.2K OHM +-5% 1/16W
R2355	0700053	CF 8.2K OHM +-5% 1/16W	R2424	0187110	CF 75K OHM +-5% 1/16W
R2356	0700041	CF 1K OHM +-5% 1/16W	R2425	0700038	CF 680 OHM +-5% 1/16W
R2358	0700041	CF 1K OHM +-5% 1/16W	R2426	0700061	CF 33K OHM +-5% 1/16W
R2359	0700049	CF 4.7K OHM +-5% 1/16W	R2427	0700049	CF 4.7K OHM +-5% 1/16W
R2361	0700063	CF 47K OHM +-5% 1/16W	R2428	0700058	CF 22K OHM +-5% 1/16W
R2362	0700055	CF 12K OHM +-5% 1/16W	R2429	0114177	CF 4.7K OHM +-5% 1/4W
R2363	0700041	CF 1K OHM +-5% 1/16W	R2441	0100124	CF 300K OHM +-5% 1/8W
R2364	0700049	CF 4.7K OHM +-5% 1/16W	R2443	0700065	CF 68K OHM +-5% 1/16W
R2365	0700059	CF 27K OHM +-5% 1/16W	R2445	0700052	CF 6.8K OHM +-5% 1/16W
R2366	0700041	CF 1K OHM +-5% 1/16W	R2446	0700054	CF 10K OHM +-5% 1/16W
R2367	0700049	CF 4.7K OHM +-5% 1/16W	R2447	0700067	CF 100K OHM +-5% 1/16W
R2368	0700041	CF 1K OHM +-5% 1/16W	R2448	0700064	CF 56K OHM +-5% 1/16W
R2369	0700051	CF 5.6K OHM +-5% 1/16W	R2449	0700063	CF 47K OHM +-5% 1/16W
R2370	0700045	CF 2.2K OHM +-5% 1/16W	R2450	0700042	CF 1.2K OHM +-5% 1/16W
R2371	0700048	CF 3.9K OHM +-5% 1/16W	R2451	0100081	CF 4.7K OHM +-5% 1/8W
R2372	0150134	VR 1K OHM-B	R2454	0700063	CF 47K OHM +-5% 1/16W
R2373	0700047	CF 3.3K OHM +-5% 1/16W	R2455	0700059	CF 27K OHM +-5% 1/16W
R2374	0700066	CF 82K OHM +-5% 1/16W	R2456	0700063	CF 47K OHM +-5% 1/16W
R2375	0700047	CF 3.3K OHM +-5% 1/16W	R2466	0700052	CF 6.8K OHM +-5% 1/16W
R2376	0700063	CF 47K OHM +-5% 1/16W	R2470	0700067	CF 100K OHM +-5% 1/16W
R2377	0700063	CF 47K OHM +-5% 1/16W	R2471	0700054	CF 10K OHM +-5% 1/16W
R2378	0700065	CF 68K OHM +-5% 1/16W	R2473	0700052	CF 6.8K OHM +-5% 1/16W
R2379	0700041	CF 1K OHM +-5% 1/16W	R2474	0700051	CF 5.6K OHM +-5% 1/16W
R2380	0700049	CF 4.7K OHM +-5% 1/16W	R2479	0700066	CF 82K OHM +-5% 1/16W
R2381	0700041	CF 1K OHM +-5% 1/16W	R2482	0700062	CF 39K OHM +-5% 1/16W
R2383	0700041	CF 1K OHM +-5% 1/16W	R2483	0700039	CF 820 OHM +-5% 1/16W
R2384	0700049	CF 4.7K OHM +-5% 1/16W	R2501	0700043	CF 1.5K OHM +-5% 1/16W
R2388	0700041	CF 1K OHM +-5% 1/16W	R2502	0700044	CF 1.8K OHM +-5% 1/16W
R2389	0700041	CF 1K OHM +-5% 1/16W	R2503	0700043	CF 1.5K OHM +-5% 1/16W
R2390	0700052	CF 6.8K OHM +-5% 1/16W	R2504	0700051	CF 5.6K OHM +-5% 1/16W
R2391	0700062	CF 39K OHM +-5% 1/16W	R2505	0187106	CF 51K OHM +-5% 1/16W
R2392	0700041	CF 1K OHM +-5% 1/16W	R2506	0700054	CF 10K OHM +-5% 1/16W
R2393	0700042	CF 1.2K OHM +-5% 1/16W	R2510	0700041	CF 1K OHM +-5% 1/16W
R2394	0187082	CF 5.1K OHM +-5% 1/16W	R2517	0100075	CF 2.7K OHM +-5% 1/8W
R2396	0700041	CF 1K OHM +-5% 1/16W	R2518	0700067	CF 100K OHM +-5% 1/16W
R2397	0700052	CF 6.8K OHM +-5% 1/16W	R2519	0700058	CF 22K OHM +-5% 1/16W
R2398	0700054	CF 10K OHM +-5% 1/16W	R2520	0700048	CF 3.9K OHM +-5% 1/16W
R2399	0700043	CF 1.5K OHM +-5% 1/16W	R2521	0119514	FR 10 OHM +-5% 1/4W
R2400	0700049	CF 4.7K OHM +-5% 1/16W	R2522	0119514	FR 10 OHM +-5% 1/4W
R2401	0700041	CF 1K OHM +-5% 1/16W	R3001	0700027	CF 100 OHM +-5% 1/16W
R2402	0700041	CF 1K OHM +-5% 1/16W	R3020	0700034	CF 330 OHM +-5% 1/16W
R2403	0700066	CF 82K OHM +-5% 1/16W	R3022	0114049	CF 22 OHM +-5% 1/4W
R2404	0700056	CF 15K OHM +-5% 1/16W	R3033	0700041	CF 1K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R3035	0700067	CF 100K OHM +-5% 1/16W	R314	0700049	CF 4.7K OHM +-5% 1/16W
R3036	0700041	CF 1K OHM +-5% 1/16W	⚠R3140	0150137	VR 10K OHM-B
R3037	0700067	CF 100K OHM +-5% 1/16W	R3141	0700045	CF 2.2K OHM +-5% 1/16W
R3038	0700026	CF 82 OHM +-5% 1/16W	R3142	0700045	CF 2.2K OHM +-5% 1/16W
R3039	0700067	CF 100K OHM +-5% 1/16W	⚠R3143	0150137	VR 10K OHM-B
R304	0700067	CF 100K OHM +-5% 1/16W	R3144	0700045	CF 2.2K OHM +-5% 1/16W
R305	0700058	CF 22K OHM +-5% 1/16W	R3145	0700045	CF 2.2K OHM +-5% 1/16W
R306	0700055	CF 12K OHM +-5% 1/16W	⚠R3146	0150137	VR 10K OHM-B
R3063	0700027	CF 100 OHM +-5% 1/16W	R3147	0700047	CF 3.3K OHM +-5% 1/16W
R3065	0700039	CF 820 OHM +-5% 1/16W	R3148	0700047	CF 3.3K OHM +-5% 1/16W
R3066	0700041	CF 1K OHM +-5% 1/16W	R3149	0700027	CF 100 OHM +-5% 1/16W
R3068	0700041	CF 1K OHM +-5% 1/16W	R315	0700051	CF 5.6K OHM +-5% 1/16W
R3069	0700041	CF 1K OHM +-5% 1/16W	R3150	0700032	CF 220 OHM +-5% 1/16W
R307	0700058	CF 22K OHM +-5% 1/16W	R3151	0700027	CF 100 OHM +-5% 1/16W
R308	0700059	CF 27K OHM +-5% 1/16W	R3152	0700032	CF 220 OHM +-5% 1/16W
R3081	0700041	CF 1K OHM +-5% 1/16W	R3153	0700027	CF 100 OHM +-5% 1/16W
R3082	0700041	CF 1K OHM +-5% 1/16W	R3154	0700032	CF 220 OHM +-5% 1/16W
R3083	0700027	CF 100 OHM +-5% 1/16W	R3155	0700027	CF 100 OHM +-5% 1/16W
R3084	0700041	CF 1K OHM +-5% 1/16W	R3156	0700041	CF 1K OHM +-5% 1/16W
R3085	0700041	CF 1K OHM +-5% 1/16W	R3157	0700041	CF 1K OHM +-5% 1/16W
R3086	0700027	CF 100 OHM +-5% 1/16W	R3158	0700061	CF 33K OHM +-5% 1/16W
R3087	0187038	CF 75 OHM +-5% 1/16W	R316	0700047	CF 3.3K OHM +-5% 1/16W
R3088	0700067	CF 100K OHM +-5% 1/16W	R3160	0700061	CF 33K OHM +-5% 1/16W
R3089	0700067	CF 100K OHM +-5% 1/16W	R3166	0700054	CF 10K OHM +-5% 1/16W
R309	0700048	CF 3.9K OHM +-5% 1/16W	R3167	0114139	CF 220 OHM +-5% 1/4W
R3095	0700027	CF 100 OHM +-5% 1/16W	R3168	0700041	CF 1K OHM +-5% 1/16W
R3097	0700054	CF 10K OHM +-5% 1/16W	R3169	0700041	CF 1K OHM +-5% 1/16W
R3098	0700054	CF 10K OHM +-5% 1/16W	R317	0700039	CF 820 OHM +-5% 1/16W
R310	0700051	CF 5.6K OHM +-5% 1/16W	R3170	0700041	CF 1K OHM +-5% 1/16W
R3100	0700054	CF 10K OHM +-5% 1/16W	R3171	0700054	CF 10K OHM +-5% 1/16W
R3101	0700027	CF 100 OHM +-5% 1/16W	R3172	0700041	CF 1K OHM +-5% 1/16W
R3104	0700063	CF 47K OHM +-5% 1/16W	R3173	0700027	CF 100 OHM +-5% 1/16W
R3105	0700063	CF 47K OHM +-5% 1/16W	R3174	0700054	CF 10K OHM +-5% 1/16W
R3106	0700039	CF 820 OHM +-5% 1/16W	R3175	0700049	CF 4.7K OHM +-5% 1/16W
R3107	0700038	CF 680 OHM +-5% 1/16W	R3176	0150137	VR 10K OHM-B
R3108	0700031	CF 180 OHM +-5% 1/16W	R3179	0700043	CF 1.5K OHM +-5% 1/16W
R311	0700053	CF 8.2K OHM +-5% 1/16W	R318	0100117	CF 150K OHM +-5% 1/8W
R3117	0187038	CF 75 OHM +-5% 1/16W	R3180	0700038	CF 680 OHM +-5% 1/16W
R3118	0700067	CF 100K OHM +-5% 1/16W	R3181	0700054	CF 10K OHM +-5% 1/16W
R3119	0700067	CF 100K OHM +-5% 1/16W	R319	0700049	CF 4.7K OHM +-5% 1/16W
R312	0700055	CF 12K OHM +-5% 1/16W	R320	0100123	CF 270K OHM +-5% 1/8W
R3120	0187038	CF 75 OHM +-5% 1/16W	R321	0700054	CF 10K OHM +-5% 1/16W
R3121	0187038	CF 75 OHM +-5% 1/16W	R322	0700049	CF 4.7K OHM +-5% 1/16W
R3125	0700027	CF 100 OHM +-5% 1/16W	R323	0700058	CF 22K OHM +-5% 1/16W
R3126	0700034	CF 330 OHM +-5% 1/16W	R324	0700057	CF 18K OHM +-5% 1/16W
R3127	0700041	CF 1K OHM +-5% 1/16W	R325	0700041	CF 1K OHM +-5% 1/16W
R3129	0700027	CF 100 OHM +-5% 1/16W	R326	0700045	CF 2.2K OHM +-5% 1/16W
⚠R313	0150136	VR 5K OHM-B	R327	0700039	CF 820 OHM +-5% 1/16W
R3130	0700047	CF 3.3K OHM +-5% 1/16W	R328	0700043	CF 1.5K OHM +-5% 1/16W
R3131	0700054	CF 10K OHM +-5% 1/16W	R329	0700046	CF 2.7K OHM +-5% 1/16W
R3132	0700054	CF 10K OHM +-5% 1/16W	R3301	0700041	CF 1K OHM +-5% 1/16W
R3133	0700027	CF 100 OHM +-5% 1/16W	R3302	0700041	CF 1K OHM +-5% 1/16W
R3134	0700027	CF 100 OHM +-5% 1/16W	R3303	0700041	CF 1K OHM +-5% 1/16W
R3135	0700027	CF 100 OHM +-5% 1/16W	R3305	0700058	CF 22K OHM +-5% 1/16W
R3139	0700041	CF 1K OHM +-5% 1/16W	R3306	0700058	CF 22K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R3307	0700058	CF 22K OHM +-5% 1/16W	R354	0700067	CF 100K OHM +-5% 1/16W
R3308	0700058	CF 22K OHM +-5% 1/16W	R355	0700049	CF 4.7K OHM +-5% 1/16W
R3309	0700058	CF 22K OHM +-5% 1/16W	R356	0700048	CF 3.9K OHM +-5% 1/16W
R331	0700038	CF 680 OHM +-5% 1/16W	R358	0700041	CF 1K OHM +-5% 1/16W
R3310	0700041	CF 1K OHM +-5% 1/16W	R359	0700054	CF 10K OHM +-5% 1/16W
R3311	0700041	CF 1K OHM +-5% 1/16W	R361	0700043	CF 1.5K OHM +-5% 1/16W
R3312	0700041	CF 1K OHM +-5% 1/16W	R362	0700027	CF 100 OHM +-5% 1/16W
R3313	0700041	CF 1K OHM +-5% 1/16W	R363	0700027	CF 100 OHM +-5% 1/16W
R3314	0700041	CF 1K OHM +-5% 1/16W	R364	0100053	CF 330 OHM +-5% 1/8W
R332	0700034	CF 330 OHM +-5% 1/16W	R365	0700045	CF 2.2K OHM +-5% 1/16W
R3326	0700036	CF 470 OHM +-5% 1/16W	R366	0700041	CF 1K OHM +-5% 1/16W
R3327	0700036	CF 470 OHM +-5% 1/16W	R367	0100053	CF 330 OHM +-5% 1/8W
R3329	0700027	CF 100 OHM +-5% 1/16W	R368	0700025	CF 68 OHM +-5% 1/16W
R333	0700042	CF 1.2K OHM +-5% 1/16W	R370	0700027	CF 100 OHM +-5% 1/16W
R3330	0700037	CF 560 OHM +-5% 1/16W	R371	0700058	CF 22K OHM +-5% 1/16W
R3331	0700046	CF 2.7K OHM +-5% 1/16W	R372	0700058	CF 22K OHM +-5% 1/16W
R334	0700061	CF 33K OHM +-5% 1/16W	R373	0700028	CF 120 OHM +-5% 1/16W
R3342	0700058	CF 22K OHM +-5% 1/16W	R374	0700058	CF 22K OHM +-5% 1/16W
R3343	0700058	CF 22K OHM +-5% 1/16W	R375	0700058	CF 22K OHM +-5% 1/16W
R3344	0700042	CF 1.2K OHM +-5% 1/16W	R379	0700041	CF 1K OHM +-5% 1/16W
R3345	0700063	CF 47K OHM +-5% 1/16W	R381	0700054	CF 10K OHM +-5% 1/16W
R3346	0700062	CF 39K OHM +-5% 1/16W	R382	0700067	CF 100K OHM +-5% 1/16W
R3347	0700058	CF 22K OHM +-5% 1/16W	R384	0700028	CF 120 OHM +-5% 1/16W
R3348	0700061	CF 33K OHM +-5% 1/16W	R385	0700022	CF 39 OHM +-5% 1/16W
R3349	0700041	CF 1K OHM +-5% 1/16W	R386	0700027	CF 100 OHM +-5% 1/16W
R335	0700058	CF 22K OHM +-5% 1/16W	R387	0700037	CF 560 OHM +-5% 1/16W
R3350	0700061	CF 33K OHM +-5% 1/16W	R388	0100053	CF 330 OHM +-5% 1/8W
R3351	0700058	CF 22K OHM +-5% 1/16W	R389	0700025	CF 68 OHM +-5% 1/16W
R3352	0700041	CF 1K OHM +-5% 1/16W	R393	0700065	CF 68K OHM +-5% 1/16W
R3353	0700027	CF 100 OHM +-5% 1/16W	R396	0700041	CF 1K OHM +-5% 1/16W
R3354	0700027	CF 100 OHM +-5% 1/16W	R397	0700044	CF 1.8K OHM +-5% 1/16W
R336	0700027	CF 100 OHM +-5% 1/16W	R398	0700032	CF 220 OHM +-5% 1/16W
R337	0700044	CF 1.8K OHM +-5% 1/16W	R399	0700058	CF 22K OHM +-5% 1/16W
R338	0700063	CF 47K OHM +-5% 1/16W	R4010	0700041	CF 1K OHM +-5% 1/16W
R339	0100055	CF 390 OHM +-5% 1/8W	R4011	0700054	CF 10K OHM +-5% 1/16W
R340	0700041	CF 1K OHM +-5% 1/16W	R4012	0700062	CF 39K OHM +-5% 1/16W
R341	0700039	CF 820 OHM +-5% 1/16W	R4014	0700034	CF 330 OHM +-5% 1/16W
R342	0700061	CF 33K OHM +-5% 1/16W	R4015	0700052	CF 6.8K OHM +-5% 1/16W
R343	0700039	CF 820 OHM +-5% 1/16W	R4016	0700041	CF 1K OHM +-5% 1/16W
R344	0700041	CF 1K OHM +-5% 1/16W	R4017	0700041	CF 1K OHM +-5% 1/16W
R345	0700052	CF 6.8K OHM +-5% 1/16W	R4018	0700067	CF 100K OHM +-5% 1/16W
R346	0700054	CF 10K OHM +-5% 1/16W	R4019	0700051	CF 5.6K OHM +-5% 1/16W
R347	0700058	CF 22K OHM +-5% 1/16W	R4020	0700041	CF 1K OHM +-5% 1/16W
⚠R348	0150137	VR 10K OHM-B	R4021	0700041	CF 1K OHM +-5% 1/16W
R349	0700059	CF 27K OHM +-5% 1/16W	R4022	0700051	CF 5.6K OHM +-5% 1/16W
R350	0700059	CF 27K OHM +-5% 1/16W	R4023	0700054	CF 10K OHM +-5% 1/16W
R3501	0700058	CF 22K OHM +-5% 1/16W	R4024	0700062	CF 39K OHM +-5% 1/16W
R3502	0700058	CF 22K OHM +-5% 1/16W	R4026	0700034	CF 330 OHM +-5% 1/16W
R3503	0700042	CF 1.2K OHM +-5% 1/16W	R4027	0700052	CF 6.8K OHM +-5% 1/16W
R3504	0700054	CF 10K OHM +-5% 1/16W	R4028	0700041	CF 1K OHM +-5% 1/16W
R3505	0700041	CF 1K OHM +-5% 1/16W	R4029	0700041	CF 1K OHM +-5% 1/16W
R3506	0700023	CF 47 OHM +-5% 1/16W	R4030	0700067	CF 100K OHM +-5% 1/16W
R351	0700058	CF 22K OHM +-5% 1/16W	R4031	0700041	CF 1K OHM +-5% 1/16W
R352	0700058	CF 22K OHM +-5% 1/16W	R4032	0114143	CF 330 OHM +-5% 1/4W
R353	0700065	CF 68K OHM +-5% 1/16W	R4034	0700063	CF 47K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION
R4035	0700049	CF 4.7K OHM +-5% 1/16W
R4036	0700049	CF 4.7K OHM +-5% 1/16W
R4037	0700054	CF 10K OHM +-5% 1/16W
R4039	0700065	CF 68K OHM +-5% 1/16W
R4041	0700065	CF 68K OHM +-5% 1/16W
R4043	0700052	CF 6.8K OHM +-5% 1/16W
R4045	0700054	CF 10K OHM +-5% 1/16W
R4046	0700055	CF 12K OHM +-5% 1/16W
R4048	0700043	CF 1.5K OHM +-5% 1/16W
R4049	0700038	CF 680 OHM +-5% 1/16W
R4050	0700037	CF 560 OHM +-5% 1/16W
R4051	0100121	CF 220K OHM +-5% 1/8W
R4052	0100121	CF 220K OHM +-5% 1/8W
R4053	0700038	CF 680 OHM +-5% 1/16W
R4054	0700037	CF 560 OHM +-5% 1/16W
R4055	0700043	CF 1.5K OHM +-5% 1/16W
R4057	0700049	CF 4.7K OHM +-5% 1/16W
R4058	0700054	CF 10K OHM +-5% 1/16W
R4059	0700045	CF 2.2K OHM +-5% 1/16W
R4066	0700045	CF 2.2K OHM +-5% 1/16W
R4067	0700067	CF 100K OHM +-5% 1/16W
R4068	0700049	CF 4.7K OHM +-5% 1/16W
R4069	0700054	CF 10K OHM +-5% 1/16W
R4070	0700067	CF 100K OHM +-5% 1/16W
R4073	0100061	CF 680 OHM +-5% 1/8W
R4074	0700065	CF 68K OHM +-5% 1/16W
R4076	0700063	CF 47K OHM +-5% 1/16W
R4077	0700049	CF 4.7K OHM +-5% 1/16W
R4079	0114143	CF 330 OHM +-5% 1/4W
R4080	0700061	CF 33K OHM +-5% 1/16W
R4081	0700054	CF 10K OHM +-5% 1/16W
R4082	0700054	CF 10K OHM +-5% 1/16W
R4083	0700041	CF 1K OHM +-5% 1/16W
⚠R4084	01195051	FR 2.2 OHM +-5% 1/4W
⚠R4085	01195051	FR 2.2 OHM +-5% 1/4W
R4089	0700058	CF 22K OHM +-5% 1/16W
R4090	0700054	CF 10K OHM +-5% 1/16W
R4093	0100049	CF 220 OHM +-5% 1/8W
R4101	0700054	CF 10K OHM +-5% 1/16W
R4103	0700054	CF 10K OHM +-5% 1/16W
R4104	0700054	CF 10K OHM +-5% 1/16W
R4105	0700054	CF 10K OHM +-5% 1/16W
R4106	0700054	CF 10K OHM +-5% 1/16W
R4107	0700054	CF 10K OHM +-5% 1/16W
R4109	0114161	CF 1K OHM +-5% 1/4W
R4116	0700061	CF 33K OHM +-5% 1/16W
R4118	0700045	CF 2.2K OHM +-5% 1/16W
R4119	0700067	CF 100K OHM +-5% 1/16W
R4120	0700067	CF 100K OHM +-5% 1/16W
R4122	0700067	CF 100K OHM +-5% 1/16W
R4124	0700041	CF 1K OHM +-5% 1/16W
R4125	0700041	CF 1K OHM +-5% 1/16W
R4134	0700041	CF 1K OHM +-5% 1/16W
R4135	0700041	CF 1K OHM +-5% 1/16W
R4146	0114139	CF 220 OHM +-5% 1/4W
R4147	0700041	CF 1K OHM +-5% 1/16W
R4148	0700067	CF 100K OHM +-5% 1/16W
R4149	0700067	CF 100K OHM +-5% 1/16W
R4150	0700061	CF 33K OHM +-5% 1/16W
R4151	0700061	CF 33K OHM +-5% 1/16W
R4153	0700061	CF 33K OHM +-5% 1/16W
R4154	0700046	CF 2.7K OHM +-5% 1/16W
R4155	0700054	CF 10K OHM +-5% 1/16W
R4801	0147152	WW 27 OHM +-5% 3W
R5001	0700032	CF 220 OHM +-5% 1/16W
R5002	0700039	CF 820 OHM +-5% 1/16W
R5003	0700037	CF 560 OHM +-5% 1/16W
R5004	0700037	CF 560 OHM +-5% 1/16W
R5005	0700038	CF 680 OHM +-5% 1/16W
R5006	0700041	CF 1K OHM +-5% 1/16W
R5007	0700041	CF 1K OHM +-5% 1/16W
R5008	0700063	CF 47K OHM +-5% 1/16W
R5009	0700063	CF 47K OHM +-5% 1/16W
R5010	0700027	CF 100 OHM +-5% 1/16W
R5011	0700037	CF 560 OHM +-5% 1/16W
R5012	0700041	CF 1K OHM +-5% 1/16W
R5013	0150133	VR 500OHM-B
R5016	0700037	CF 560 OHM +-5% 1/16W
R5019	0700037	CF 560 OHM +-5% 1/16W
R502	0700043	CF 1.5K OHM +-5% 1/16W
R5020	0700032	CF 220 OHM +-5% 1/16W
R5021	0700038	CF 680 OHM +-5% 1/16W
R5022	0150134	VR 1K OHM-B
R5023	0700045	CF 2.2K OHM +-5% 1/16W
R5024	0700037	CF 560 OHM +-5% 1/16W
R5025	0700045	CF 2.2K OHM +-5% 1/16W
R5026	0150136	VR 5K OHM-B
R5027	0700039	CF 820 OHM +-5% 1/16W
R5028	0700041	CF 1K OHM +-5% 1/16W
R5029	0114137	CF 180 OHM +-5% 1/4W
R503	0700037	CF 560 OHM +-5% 1/16W
R504	0700036	CF 470 OHM +-5% 1/16W
R505	0700056	CF 15K OHM +-5% 1/16W
R506	0700057	CF 18K OHM +-5% 1/16W
R507	0700041	CF 1K OHM +-5% 1/16W
R508	0700053	CF 8.2K OHM +-5% 1/16W
R509	0700057	CF 18K OHM +-5% 1/16W
R510	0700045	CF 2.2K OHM +-5% 1/16W
R511	0700058	CF 22K OHM +-5% 1/16W
R512	0700058	CF 22K OHM +-5% 1/16W
R513	0700049	CF 4.7K OHM +-5% 1/16W
R514	0700049	CF 4.7K OHM +-5% 1/16W
R515	0700064	CF 56K OHM +-5% 1/16W
R516	0700057	CF 18K OHM +-5% 1/16W
R517	0100117	CF 150K OHM +-5% 1/8W
R518	0700067	CF 100K OHM +-5% 1/16W
R519	0100125	CF 330K OHM +-5% 1/8W
R520	0700047	CF 3.3K OHM +-5% 1/16W
R521	0700054	CF 10K OHM +-5% 1/16W
R522	0700055	CF 12K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION
R523	0700054	CF 10K OHM +-5% 1/16W
R526	0700047	CF 3.3K OHM +-5% 1/16W
R527	0700056	CF 15K OHM +-5% 1/16W
R528	0700049	CF 4.7K OHM +-5% 1/16W
R529	0700057	CF 18K OHM +-5% 1/16W
R530	0700054	CF 10K OHM +-5% 1/16W
R536	0700058	CF 22K OHM +-5% 1/16W
R537	0700058	CF 22K OHM +-5% 1/16W
R538	0700058	CF 22K OHM +-5% 1/16W
R539	0700043	CF 1.5K OHM +-5% 1/16W
R540	0700027	CF 100 OHM +-5% 1/16W
R542	0700058	CF 22K OHM +-5% 1/16W
R543	0700058	CF 22K OHM +-5% 1/16W
R544	0700054	CF 10K OHM +-5% 1/16W
R545	0700058	CF 22K OHM +-5% 1/16W
R548	0100133	CF 680K OHM +-5% 1/8W
R549	0700065	CF 68K OHM +-5% 1/16W
R550	0700065	CF 68K OHM +-5% 1/16W
R551	0700064	CF 56K OHM +-5% 1/16W
R552	0700054	CF 10K OHM +-5% 1/16W
R553	0700055	CF 12K OHM +-5% 1/16W
R601	0700041	CF 1K OHM +-5% 1/16W
R602	0700046	CF 2.7K OHM +-5% 1/16W
R603	0100121	CF 220K OHM +-5% 1/8W
R604	0700046	CF 2.7K OHM +-5% 1/16W
R605	0700048	CF 3.9K OHM +-5% 1/16W
R606	0700051	CF 5.6K OHM +-5% 1/16W
R607	0700059	CF 27K OHM +-5% 1/16W
R608	0100121	CF 220K OHM +-5% 1/8W
R609	0700061	CF 33K OHM +-5% 1/16W
R610	0700054	CF 10K OHM +-5% 1/16W
R611	0700057	CF 18K OHM +-5% 1/16W
R612	0700045	CF 2.2K OHM +-5% 1/16W
R613	0700027	CF 100 OHM +-5% 1/16W
R614	0700027	CF 100 OHM +-5% 1/16W
R651	0113725	CF 100 OHM +-5% 1/2W
R652	0113725	CF 100 OHM +-5% 1/2W
R653	0113725	CF 100 OHM +-5% 1/2W
R654	0700027	CF 100 OHM +-5% 1/16W
R656	0100053	CF 330 OHM +-5% 1/8W
R658	0700041	CF 1K OHM +-5% 1/16W
R659	0700041	CF 1K OHM +-5% 1/16W
R660	0700065	CF 68K OHM +-5% 1/16W
R661	0700054	CF 10K OHM +-5% 1/16W
⚠R662	0150138	VR 20K OHM-B
R663	0700062	CF 39K OHM +-5% 1/16W
R664	0187054	CF 360 OHM +-5% 1/16W
R665	0119722	MF 1 OHM +-5% 1W
R666	0119722	MF 1 OHM +-5% 1W
R667	0700051	CF 5.6K OHM +-5% 1/16W
R668	0187072	CF 2K OHM +-5% 1/16W
R669	0700062	CF 39K OHM +-5% 1/16W
R670	0700065	CF 68K OHM +-5% 1/16W
R671	0113766	CF 4.7K OHM +-5% 1/2W
R672	0110129	MF 220 OHM +-5% 1W
R673	0700065	CF 68K OHM +-5% 1/16W
R674	0114135	CF 150 OHM +-5% 1/4W
R7001	0700039	CF 820 OHM +-5% 1/16W
R7002	0100115	CF 120K OHM +-5% 1/8W
R7003	0700049	CF 4.7K OHM +-5% 1/16W
R7004	0700052	CF 6.8K OHM +-5% 1/16W
R7005	0700049	CF 4.7K OHM +-5% 1/16W
R7006	0700049	CF 4.7K OHM +-5% 1/16W
R7007	0700046	CF 2.7K OHM +-5% 1/16W
R7008	0700046	CF 2.7K OHM +-5% 1/16W
R7009	0700047	CF 3.3K OHM +-5% 1/16W
R7010	0700024	CF 56 OHM +-5% 1/16W
R7011	0700033	CF 270 OHM +-5% 1/16W
R7012	0114137	CF 180 OHM +-5% 1/4W
R7014	0114147	CF 470 OHM +-5% 1/4W
R7019	0700037	CF 560 OHM +-5% 1/16W
R7020	0110105	MF 22 OHM +-5% 1W
R7021	0100027	CF 27 OHM +-5% 1/8W
R707	0700023	CF 47 OHM +-5% 1/16W
⚠R708	0110367	MF 8.2K OHM +-5% 3W
R709	0113770	CF 6.8K OHM +-5% 1/2W
⚠R710	0110369	MF 10K OHM +-5% 3W
R711	0119688	MF 0.22 OHM +-5% 1W
R712	0100039	CF 82 OHM +-5% 1/8W
R719	0113789	CF 39K OHM +-5% 1/2W
R720	0700054	CF 10K OHM +-5% 1/16W
R721	0113793	CF 56K OHM +-5% 1/2W
R722	0100091	CF 12K OHM +-5% 1/8W
R723	0700044	CF 1.8K OHM +-5% 1/16W
R724	0700052	CF 6.8K OHM +-5% 1/16W
R726	0700048	CF 3.9K OHM +-5% 1/16W
R727	0700046	CF 2.7K OHM +-5% 1/16W
R728	0187086	CF 7.5K OHM +-5% 1/16W
R729	0113727	CF 120 OHM +-5% 1/2W
R732	0110129	MF 220 OHM +-5% 1W
⚠R733	01195121	FR 1 OHM +-5% 1/4W
⚠R734	0119514	FR 10 OHM +-5% 1/4W
R739	0110145	MF 1K OHM +-5% 1W
⚠R742	0700063	CF 47K OHM +-5% 1/16W
R744	0100127	CF 390K OHM +-5% 1/8W
R750	0100075	CF 2.7K OHM +-5% 1/8W
R7501	0700054	CF 10K OHM +-5% 1/16W
R7502	0700054	CF 10K OHM +-5% 1/16W
R7503	0700054	CF 10K OHM +-5% 1/16W
R7504	0100121	CF 220K OHM +-5% 1/8W
R7505	0700057	CF 18K OHM +-5% 1/16W
R7506	0700055	CF 12K OHM +-5% 1/16W
R7507	0700044	CF 1.8K OHM +-5% 1/16W
R7508	0700056	CF 15K OHM +-5% 1/16W
R7509	0100121	CF 220K OHM +-5% 1/8W
R751	0113719	CF 56 OHM +-5% 1/2W
R7510	0700057	CF 18K OHM +-5% 1/16W
R7511	0700052	CF 6.8K OHM +-5% 1/16W
R7512	0700045	CF 2.2K OHM +-5% 1/16W
R753	0110359	MF 3.9K OHM +-5% 3W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R754	0113766	CF 4.7K OHM +-5% 1/2W	R811R	0100065	CF 1K OHM +-5% 1/8W
R755	0110359	MF 3.9K OHM +-5% 3W	R812B	0100040	CF 91 OHM +-5% 1/8W
R759	0700045	CF 2.2K OHM +-5% 1/16W	R812G	0100033	CF 47 OHM +-5% 1/8W
R760	0700051	CF 5.6K OHM +-5% 1/16W	R812R	0100033	CF 47 OHM +-5% 1/8W
R761	0700057	CF 18K OHM +-5% 1/16W	⚠R813G	01513341	VR 200 OHM-B
R762	0700056	CF 15K OHM +-5% 1/16W	⚠R813R	01513341	VR 200 OHM-B
⚠R763	0150137	VR 10K OHM-B	R814R	0100041	CF 100 OHM +-5% 1/8W
R764	0700038	CF 680 OHM +-5% 1/16W	R815B	0100059	CF 560 OHM +-5% 1/8W
R765	0700057	CF 18K OHM +-5% 1/16W	R815G	0100059	CF 560 OHM +-5% 1/8W
R766	0700039	CF 820 OHM +-5% 1/16W	R815R	0100059	CF 560 OHM +-5% 1/8W
R767	0700054	CF 10K OHM +-5% 1/16W	R816B	0114201	CF 10K OHM +-5% 1/4W
R768	0114149	CF 560 OHM +-5% 1/4W	R816G	0114201	CF 10K OHM +-5% 1/4W
R769	0700054	CF 10K OHM +-5% 1/16W	R816R	0114201	CF 10K OHM +-5% 1/4W
R770	0100117	CF 150K OHM +-5% 1/8W	R817B	0100041	CF 100 OHM +-5% 1/8W
R771	0700045	CF 2.2K OHM +-5% 1/16W	R817G	0100041	CF 100 OHM +-5% 1/8W
R772	0100049	CF 220 OHM +-5% 1/8W	R817R	0100053	CF 330 OHM +-5% 1/8W
R773	0700048	CF 3.9K OHM +-5% 1/16W	⚠R901	0139015	CC 1M OHM +-20% 1/2W
R779	0100065	CF 1K OHM +-5% 1/8W	⚠R902	0144151	WW 33 OHM +-5% 2W
R780	0100041	CF 100 OHM +-5% 1/8W	⚠R904	0147804	WW 0.75 OHM 16W
R781	0110279	MF 27K OHM +-5% 2W	R906	0114049	CF 22 OHM +-5% 1/4W
R782	0110279	MF 27K OHM +-5% 2W	R907	0114161	CF 1K OHM +-5% 1/4W
R783	0110279	MF 27K OHM +-5% 2W	R908	0145042	MF 22K OHM +-5% 5W
R784	0110279	MF 27K OHM +-5% 2W	⚠R909	0147658	WW 100 OHM +-5% 7W
R785	0110279	MF 27K OHM +-5% 2W	R910	0110377	MF 22K OHM +-5% 3W
R786	0114213	CF 33K OHM +-5% 1/4W	R911	0113795	CF 68K OHM +-5% 1/2W
R787	0700052	CF 6.8K OHM +-5% 1/16W	⚠R912	0148012	WW 0.10 OHM +-10% 2W
R790	0700059	CF 27K OHM +-5% 1/16W	R913	0700038	CF 680 OHM +-5% 1/16W
R791	0110101	MF 15 OHM +-5% 1W	R915	0100025	CF 22 OHM +-5% 1/8W
R792	0700052	CF 6.8K OHM +-5% 1/16W	R917	0700033	CF 270 OHM +-5% 1/16W
⚠R792B	0113764	CF 3.9K OHM +-5% 1/2W	R918	0187064	CF 910 OHM +-5% 1/16W
⚠R792G	0113764	CF 3.9K OHM +-5% 1/2W	R919	0700061	CF 33K OHM +-5% 1/16W
⚠R792R	0113764	CF 3.9K OHM +-5% 1/2W	R920	0700058	CF 22K OHM +-5% 1/16W
R801B	0110371	MF 12K OHM +-5% 3W	R921	0700041	CF 1K OHM +-5% 1/16W
R801G	0110371	MF 12K OHM +-5% 3W	R922	0700059	CF 27K OHM +-5% 1/16W
R801R	0110371	MF 12K OHM +-5% 3W	⚠R926	0147552	WW 33 OHM +-5% 5W
R802B	0110369	MF 10K OHM +-5% 3W	R927	0110273	MF 15K OHM +-5% 2W
R802G	0110369	MF 10K OHM +-5% 3W	R928	0700037	CF 560 OHM +-5% 1/16W
R802R	0110369	MF 10K OHM +-5% 3W	R929	0700045	CF 2.2K OHM +-5% 1/16W
R803B	0113744	CF 560 OHM +-5% 1/2W	R930	0700058	CF 22K OHM +-5% 1/16W
R803G	0113744	CF 560 OHM +-5% 1/2W	R931	0700056	CF 15K OHM +-5% 1/16W
R803R	0113744	CF 560 OHM +-5% 1/2W	R932	0700027	CF 100 OHM +-5% 1/16W
⚠R804B	0151635	VR 1M OHM-B	R935	0700061	CF 33K OHM +-5% 1/16W
⚠R804G	0151635	VR 1M OHM-B	R937	0700014	CF 10 OHM +-5% 1/16W
⚠R804R	0151635	VR 1M OHM-B	R938	0119693	MF 0.39 OHM +-5% 1W
R805B	0179534	MG 470K OHM +-5% 1/2W	R939	0700054	CF 10K OHM +-5% 1/16W
R805G	0179534	MG 470K OHM +-5% 1/2W	R940	0148015	WW 18 OHM +-10% 2W
R805R	0179534	MG 470K OHM +-5% 1/2W	R941	0700047	CF 3.3K OHM +-5% 1/16W
R806B	0179534	MG 470K OHM +-5% 1/2W	R942	0119688	MF 0.22 OHM +-5% 1W
R806G	0179534	MG 470K OHM +-5% 1/2W	R943	0700054	CF 10K OHM +-5% 1/16W
R806R	0179534	MG 470K OHM +-5% 1/2W	R944	0700044	CF 1.8K OHM +-5% 1/16W
R810B	0100049	CF 220 OHM +-5% 1/8W	R945	0700063	CF 47K OHM +-5% 1/16W
R810G	0100049	CF 220 OHM +-5% 1/8W	R952	0700058	CF 22K OHM +-5% 1/16W
R810R	0100049	CF 220 OHM +-5% 1/8W	R953	0119688	MF 0.22 OHM +-5% 1W
R811B	0100065	CF 1K OHM +-5% 1/8W	R954	0119688	MF 0.22 OHM +-5% 1W
R811G	0100065	CF 1K OHM +-5% 1/8W	R955	0700047	CF 3.3K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION
R956	0700054	CF 10K OHM +-5% 1/16W
⚠R957	0700043	CF 1.5K OHM +-5% 1/16W
R958	0700044	CF 1.8K OHM +-5% 1/16W
R959	0700054	CF 10K OHM +-5% 1/16W
R960	0110253	MF 2.2K OHM +-5% 2W
R961	0113797	CF 82K OHM +-5% 1/2W
R965	0700042	CF 1.2K OHM +-5% 1/16W
R967	0700046	CF 2.7K OHM +-5% 1/16W
R968	0700047	CF 3.3K OHM +-5% 1/16W
R971	0700043	CF 1.5K OHM +-5% 1/16W
R972	0147734	WW 10 OHM +-5% 10W
R973	0119514	FR 10 OHM +-5% 1/4W
R974	0700038	CF 680 OHM +-5% 1/16W
R975	0110101	MF 15 OHM +-5% 1W
R976	0700045	CF 2.2K OHM +-5% 1/16W
R977	0110101	MF 15 OHM +-5% 1W
⚠R978	0700041	CF 1K OHM +-5% 1/16W
R981	0100067	CF 1.2K OHM +-5% 1/8W
R982	0100067	CF 1.2K OHM +-5% 1/8W
R983	0110177	MF 22K OHM +-5% 1W
		ICs
IC0001	2001452	IC MN1872012AHHF1 (MICON)
IC0002	2381111	IC M6M80021L
IC0003	2380391	IC UPD6326C
IC0004	2380391	IC UPD6326C
IC1301	2003191	IC STK4274 (LINEAR)
IC1326	2003191	IC STK4274 (LINEAR)
IC1351	2003191	IC STK4274 (LINEAR)
IC2001	2361411	IC HD14520BP
IC2101	2383191	IC LA7990
IC2102	2914051	IC NJM4560D
IC2103	2914051	IC NJM4560D
IC2104	2914051	IC NJM4560D
IC2105	2914051	IC NJM4560D
IC3001	2003811	IC M52472P (LINEAR)
IC3005	2383342	IC LVA522SA-2 (LINEAR)
IC3007	2917611	IC LA7016
IC301	2381832	IC HA11559NT
IC3301	2383342	IC LVA522SA-2 (LINEAR)
IC3302	2380391	IC UPD6326C
IC4001	2003424	IC UPC7812AHF (LINEAR)
IC4002	2916321	IC LA4280
IC4004	2366392	IC AN5836
IC4005	2362605	IC BA4558
IC501	2916634	IC HA11511CNT-01
IC502	2003501	IC LA7697(DS24) (LINEAR)
IC503	23687211	IC AN5352
IC504	2910815	IC HD74HC00P
IC505	2382135	IC HA178M09
IC601	2003541	IC LA7838 (LINEAR)
IC602	2003427	IC UP7824AHF (LINEAR)
⚠IC901	2380131	IC UPC1094C
⚠IC902	2381344	IC SE130N
⚠IC903	2000465	IC PS2501-1 (KD/LD) (PHOTO COUPLER)
⚠IC904	2000465	IC PS2501-1 (KD/LD) (PHOTO COUPLER)
IC909	2000641	IC SI-3240C (LINEAR)
IC910	2000632	IC SI-3120CA
IC911	2003413	IC UP7912HF (LINEAR)
IC913	2003416	IC UP7924HF (LINEAR)
		TRANSISTORS
Q0001	2320644	TR 2SC1213D SI 80MHZ 400MW
Q0003	2312941M	TR 2SC3413BC/1740S-QRTA
Q0004	2312941M	TR 2SC3413BC/1740S-QRTA
Q0005	2327753	TR 2SA1390 (C)/(D)
Q0006	2312941M	TR 2SC3413BC/1740S-QRTA
Q0007	2312941M	TR 2SC3413BC/1740S-QRTA
Q0008	2312941M	TR 2SC3413BC/1740S-QRTA
Q0009	2323521	TR 2SD789 B/C/D/E
Q0010	2327783	TR 2SC3553 C/D
Q0011	2327783	TR 2SC3553 C/D
Q0012	2312941M	TR 2SC3413BC/1740S-QRTA
Q0013	2312941M	TR 2SC3413BC/1740S-QRTA
Q0016	2326216	TR 2SC3116 S/T
Q0017	2327753	TR 2SA1390 (C)/(D)
Q0018	2327753	TR 2SA1390 (C)/(D)
Q0019	2312941M	TR 2SC3413BC/1740S-QRTA
Q0020	2312941M	TR 2SC3413BC/1740S-QRTA
Q0021	2312171	TR 2SC3852
Q0022	2327753	TR 2SA1390 (C)/(D)
Q0023	2312941M	TR 2SC3413BC/1740S-QRTA
Q0024	2312941M	TR 2SC3413BC/1740S-QRTA
Q1101	2312941M	TR 2SC3413BC/1740S-QRTA
Q1401	2312941M	TR 2SC3413BC/1740S-QRTA
Q2001	2312941M	TR 2SC3413BC/1740S-QRTA
Q2002	2327753	TR 2SA1390 (C)/(D)
Q2003	2312941M	TR 2SC3413BC/1740S-QRTA
Q2004	2312941M	TR 2SC3413BC/1740S-QRTA
Q2005	2312941M	TR 2SC3413BC/1740S-QRTA
Q2006	2312941M	TR 2SC3413BC/1740S-QRTA
Q2007	2312941M	TR 2SC3413BC/1740S-QRTA
Q2008	2312941M	TR 2SC3413BC/1740S-QRTA
Q2009	2327753	TR 2SA1390 (C)/(D)
Q2010	2312941M	TR 2SC3413BC/1740S-QRTA
Q2011	2312941M	TR 2SC3413BC/1740S-QRTA
Q2115	2320595	TR 2SC458(D) SI 230MHZ 200MW
Q2116	2320595	TR 2SC458(D) SI 230MHZ 200MW
Q2122	2320595	TR 2SC458(D) SI 230MHZ 200MW
Q2123	2320681	TR 2SA673A B/C SI 80MHZ 400MW
Q2124	2320681	TR 2SA673A B/C SI 80MHZ 400MW
Q2125	2320681	TR 2SA673A B/C SI 80MHZ 400MW
Q2126	2320595	TR 2SC458(D) SI 230MHZ 200MW
Q2130	2320595	TR 2SC458(D) SI 230MHZ 200MW
Q2131	2320595	TR 2SC458(D) SI 230MHZ 200MW
Q2133	2320595	TR 2SC458(D) SI 230MHZ 200MW
Q2141	2320663	TR 2SC1213AC SI 80MHZ 400MW
Q2142	2320595	TR 2SC458(D) SI 230MHZ 200MW

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SYMBOL NO.	PART NO.	DESCRIPTION
Q3007	2326021	TR 2SC1741S
Q3018	2312941M	TR 2SC3413BC/1740S-QRTA
Q302	2312941M	TR 2SC3413BC/1740S-QRTA
Q3023	2327753	TR 2SA1390 (C)/(D)
Q3024	2312941M	TR 2SC3413BC/1740S-QRTA
Q3025	2312941M	TR 2SC3413BC/1740S-QRTA
Q3026	2312941M	TR 2SC3413BC/1740S-QRTA
Q3027	2312941M	TR 2SC3413BC/1740S-QRTA
Q303	2312941M	TR 2SC3413BC/1740S-QRTA
Q304	2312941M	TR 2SC3413BC/1740S-QRTA
Q305	2327753	TR 2SA1390 (C)/(D)
Q306	2327753	TR 2SA1390 (C)/(D)
Q307	2327753	TR 2SA1390 (C)/(D)
Q308	2312941M	TR 2SC3413BC/1740S-QRTA
Q309	2312941M	TR 2SC3413BC/1740S-QRTA
Q310	2312941M	TR 2SC3413BC/1740S-QRTA
Q311	2326021	TR 2SC1741S
Q312	2325702	TR 2SA854S Q/R
Q313	2312941M	TR 2SC3413BC/1740S-QRTA
Q314	2327753	TR 2SA1390 (C)/(D)
Q315	2312941M	TR 2SC3413BC/1740S-QRTA
Q317	2312941M	TR 2SC3413BC/1740S-QRTA
Q318	2327753	TR 2SA1390 (C)/(D)
Q323	2327753	TR 2SA1390 (C)/(D)
Q324	2327753	TR 2SA1390 (C)/(D)
Q3304	2312941M	TR 2SC3413BC/1740S-QRTA
Q3305	2312941M	TR 2SC3413BC/1740S-QRTA
Q3306	2312941M	TR 2SC3413BC/1740S-QRTA
Q3307	2312941M	TR 2SC3413BC/1740S-QRTA
Q3501	2312941M	TR 2SC3413BC/1740S-QRTA
Q4003	2312941M	TR 2SC3413BC/1740S-QRTA
Q4004	2327753	TR 2SA1390 (C)/(D)
Q4005	2312941M	TR 2SC3413BC/1740S-QRTA
Q4006	2327753	TR 2SA1390 (C)/(D)
Q4007	2312941M	TR 2SC3413BC/1740S-QRTA
Q4008	2312941M	TR 2SC3413BC/1740S-QRTA
Q4010	2312941M	TR 2SC3413BC/1740S-QRTA
Q4011	2312941M	TR 2SC3413BC/1740S-QRTA
Q4013	2312941M	TR 2SC3413BC/1740S-QRTA
Q4014	2312941M	TR 2SC3413BC/1740S-QRTA
Q4017	2312941M	TR 2SC3413BC/1740S-QRTA
Q4018	2327783	TR 2SC3553 C/D
Q4019	2327753	TR 2SA1390 (C)/(D)
Q4021	2312941M	TR 2SC3413BC/1740S-QRTA
Q4022	2312941M	TR 2SC3413BC/1740S-QRTA
Q4023	2327783	TR 2SC3553 C/D
Q4030	2312941M	TR 2SC3413BC/1740S-QRTA
Q4031	2312941M	TR 2SC3413BC/1740S-QRTA
Q5001	2312941M	TR 2SC3413BC/1740S-QRTA
Q5002	2312941M	TR 2SC3413BC/1740S-QRTA
Q5003	2312941M	TR 2SC3413BC/1740S-QRTA
Q5005	2312941M	TR 2SC3413BC/1740S-QRTA
Q5006	2312941M	TR 2SC3413BC/1740S-QRTA
Q5007	2312941M	TR 2SC3413BC/1740S-QRTA
Q5008	2312941M	TR 2SC3413BC/1740S-QRTA
Q501	2312941M	TR 2SC3413BC/1740S-QRTA
Q502	2312941M	TR 2SC3413BC/1740S-QRTA
Q503	2312941M	TR 2SC3413BC/1740S-QRTA
Q504	2312941M	TR 2SC3413BC/1740S-QRTA
Q505	2312941M	TR 2SC3413BC/1740S-QRTA
Q507	2312941M	TR 2SC3413BC/1740S-QRTA
Q508	2312941M	TR 2SC3413BC/1740S-QRTA
Q509	2312941M	TR 2SC3413BC/1740S-QRTA
Q601	2327753	TR 2SA1390 (C)/(D)
Q602	2312941M	TR 2SC3413BC/1740S-QRTA
Q603	2312941M	TR 2SC3413BC/1740S-QRTA
Q7001	2312171	TR 2SC3852
⚠Q701	2326216	TR 2SC3116 S/T
Q707	2312941M	TR 2SC3413BC/1740S-QRTA
Q708	2327753	TR 2SA1390 (C)/(D)
Q710	2323123	TR 2SD1133 (D)
Q711	2327753	TR 2SA1390 (C)/(D)
Q713	2312941M	TR 2SC3413BC/1740S-QRTA
Q714	2312941M	TR 2SC3413BC/1740S-QRTA
Q7501	2312941M	TR 2SC3413BC/1740S-QRTA
Q7502	2312941M	TR 2SC3413BC/1740S-QRTA
Q7503	2312941M	TR 2SC3413BC/1740S-QRTA
Q7504	2312941M	TR 2SC3413BC/1740S-QRTA
Q7505	2326021	TR 2SC1741S
⚠Q777	2315273	TRANSISTOR 2SC4589-04
⚠Q780	2314991	TRANSISTOR 2SC4630
Q801B	2312651	TR 2SC3503 C/D/E/F
Q801G	2312651	TR 2SC3503 C/D/E/F
Q801R	2312651	TR 2SC3503 C/D/E/F
Q802B	2312941M	TR 2SC3413BC/1740S-QRTA
Q802G	2312941M	TR 2SC3413BC/1740S-QRTA
Q802R	2312941M	TR 2SC3413BC/1740S-QRTA
Q803B	2327753	TR 2SA1390 (C)/(D)
Q803G	2327753	TR 2SA1390 (C)/(D)
Q803R	2327753	TR 2SA1390 (C)/(D)
⚠Q902	2390623	TRANSISTOR 2SK1181(LF714A)
⚠Q903	2323782	TR 03P2M
Q904	2321112	TR 2SA778A
Q905	2327753	TR 2SA1390 (C)/(D)
⚠Q906	2327753	TR 2SA1390 (C)/(D)
⚠Q907	2312941M	TR 2SC3413BC/1740S-QRTA
Q908	2327753	TR 2SA1390 (C)/(D)
Q909	2312941M	TR 2SC3413BC/1740S-QRTA
⚠Q910	2323782	TR 03P2M

DIODES

D0001	23383211	DI 1SS270
D0003	23383211	DI 1SS270
D0007	23383211	DI 1SS270
D0008	23383211	DI 1SS270
D0009	23383211	DI 1SS270
D0018	23383211	DI 1SS270
D0026	23383211	DI 1SS270
D0032	23383211	DI 1SS270

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SYMBOL NO.	PART NO.	DESCRIPTION
D0033	23383211	DI 1SS270
D0034	23383211	DI 1SS270
D0035	23383211	DI 1SS270
D0036	23383211	DI 1SS270
D0037	23383211	DI 1SS270
D0038	23383211	DI 1SS270
D0039	23383211	DI 1SS270
D0040	23383211	DI 1SS270
D0041	23383211	DI 1SS270
D1301	23394911	DI AM01Z
D1401	2339691	LED SLH-56VC77F
D2001	23383211	DI 1SS270
D2002	23383211	DI 1SS270
D2003	23383211	DI 1SS270
D2004	23383211	DI 1SS270
D2005	23383211	DI 1SS270
D2006	23383211	DI 1SS270
D2007	23383211	DI 1SS270
D2008	23383211	DI 1SS270
D2009	23383211	DI 1SS270
D2010	23383211	DI 1SS270
D2011	23383211	DI 1SS270
D2012	23383211	DI 1SS270
D2013	23383211	DI 1SS270
D2014	23383211	DI 1SS270
D2101	23383211	DI 1SS270
D2102	23383211	DI 1SS270
D2103	23383211	DI 1SS270
D2104	23383211	DI 1SS270
D2105	23383211	DI 1SS270
D2107	23383211	DI 1SS270
D2108	23383211	DI 1SS270
D2109	23383211	DI 1SS270
D2111	23383211	DI 1SS270
D3001	23383211	DI 1SS270
D3002	23383211	DI 1SS270
D3003	23383211	DI 1SS270
D3004	23383211	DI 1SS270
D3005	23383211	DI 1SS270
D3006	23383211	DI 1SS270
D301	23383211	DI 1SS270
D3012	23383211	DI 1SS270
D3013	23383211	DI 1SS270
D302	23383211	DI 1SS270
D303	23383211	DI 1SS270
D304	23383211	DI 1SS270
D305	23383211	DI 1SS270
D306	23383211	DI 1SS270
D307	23383211	DI 1SS270
D308	23383211	DI 1SS270
D309	23383211	DI 1SS270
D310	23383211	DI 1SS270
D311	23383211	DI 1SS270
D312	23383211	DI 1SS270
D313	23383211	DI 1SS270
D316	23383211	DI 1SS270
D317	23383211	DI 1SS270
D3301	23383211	DI 1SS270
D3501	23383211	DI 1SS270
D4002	23383211	DI 1SS270
D4004	23383211	DI 1SS270
D4009	23383211	DI 1SS270
D4010	23383211	DI 1SS270
D4011	23383211	DI 1SS270
D4013	23383211	DI 1SS270
D4014	23383211	DI 1SS270
D4015	2330564	DI V11N SI
D4016	2330564	DI V11N SI
D501	23383211	DI 1SS270
D502	23383211	DI 1SS270
D503	23383211	DI 1SS270
D507	23383211	DI 1SS270
D508	23383211	DI 1SS270
D651	2338902	DI DFM1SA4
D652	2338902	DI DFM1SA4
D653	23394911	DI AM01Z
D654	23394911	DI AM01Z
D655	23383211	DI 1SS270
D657	23383211	DI 1SS270
D658	23394911	DI AM01Z
D659	23383211	DI 1SS270
D660	23394911	DI AM01Z
D7001	23383211	DI 1SS270
D7002	23383211	DI 1SS270
D7003	23383211	DI 1SS270
D7004	23383211	DI 1SS270
⚠D701	2330564	DI V11N SI
⚠D702	2338902	DI DFM1SA4
⚠D703	2330564	DI V11N SI
D705	2338902	DI DFM1SA4
⚠D706	2348511	DIODE RS3FS
D707	2339531	DI RG4A
D709	23383211	DI 1SS270
D710	2334581	DI ES1A SI
⚠D711	2330564	DI V11N SI
D728	23383211	DI 1SS270
D7501	23383211	DI 1SS270
D781	23383211	DI 1SS270
D801B	23383211	DI 1SS270
D801G	23383211	DI 1SS270
D801R	23383211	DI 1SS270
⚠D901	2342061	DI D3SB(A)60
D901S	23394911	DI AM01Z
D902	23394911	DI AM01Z
D903	23394911	DI AM01Z
D906	2398611	DI 1SS254
D907	2338532	DI EG-01A
D908	23394811	DI AS01Z
⚠D909	2338944	DI FML-G12S(F)
⚠D910	2338932	DI FMG-G36S

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SYMBOL NO.	PART NO.	DESCRIPTION
D911	23383211	DI 1SS270
⚠D925	2338944	DI FML-G12S(F)
⚠D926	2338944	DI FML-G12S(F)
⚠D927	2338944	DI FML-G12S(F)
⚠D928	2338944	DI FML-G12S(F)
D929	23383211	DI 1SS270
D930	23383211	DI 1SS270
D931	23394911	DI AM01Z
D932	23394911	DI AM01Z
D937	23394911	DI AM01Z
D938	23394911	DI AM01Z
D939	23383211	DI 1SS270
ZD0001	2331785	DIODE-ZENER HZ4(B2)
ZD0002	2331849	ZD HZ-12(C3)
ZD0003	2331845	ZD HZ12 (B2)
ZD0004	2331804	ZD HZ6 (B1)
ZD0005	2331804	ZD HZ6 (B1)
ZD0006	2331833	ZD HZ11(A)3 SI
ZD0007	2339242	ZD HZS33-2L
ZD0014	2331819	ZD HZ7(C)3 SI
ZD0015	2331799	ZD HZ5(C)3 SI
ZD0018	2331799	ZD HZ5(C)3 SI
ZD0019	2331804	ZD HZ6 (B1)
ZD0020	2339825	ZD HZS4B2
ZD0021	2339839	ZD HZS5C3
ZD1301	2334324	ZD RD36EB3
ZD1302	2334324	ZD RD36EB3
ZD1311	2334324	ZD RD36EB3
ZD1312	2334324	ZD RD36EB3
ZD1326	2334324	ZD RD36EB3
ZD1327	2334324	ZD RD36EB3
ZD1336	2334324	ZD RD36EB3
ZD1337	2334324	ZD RD36EB3
ZD1351	2334324	ZD RD36EB3
ZD1352	2334324	ZD RD36EB3
ZD1361	2334324	ZD RD36EB3
ZD1362	2334324	ZD RD36EB3
ZD1401	2339839	ZD HZS5C3
ZD2101	2334285	DIODE-ZENER RD24EB4
ZD2102	2334285	DIODE-ZENER RD24EB4
ZD2103	2334285	DIODE-ZENER RD24EB4
ZD2104	2334285	DIODE-ZENER RD24EB4
ZD2105	2334285	DIODE-ZENER RD24EB4
ZD2106	2334285	DIODE-ZENER RD24EB4
ZD2107	2334285	DIODE-ZENER RD24EB4
ZD2108	2334285	DIODE-ZENER RD24EB4
ZD2109	2334285	DIODE-ZENER RD24EB4
ZD2110	2334285	DIODE-ZENER RD24EB4
ZD3001	2339868M	ZD HZS9C2TA
ZD3002	2339868M	ZD HZS9C2TA
ZD3003	2339868M	ZD HZS9C2TA
ZD301	2331781	ZD HZ4 (A1)
ZD302	2339868M	ZD HZS9C2TA
ZD303	2339868M	ZD HZS9C2TA
ZD304	2339868M	ZD HZS9C2TA
ZD305	2339868M	ZD HZS9C2TA
ZD306	2339868M	ZD HZS9C2TA
ZD307	2339868M	ZD HZS9C2TA
ZD308	2339211	ZD HZS24-1L
ZD309	2339868M	ZD HZS9C2TA
ZD312	2339831M	DIODE-ZENER HZS5A1-M
ZD313	2331849	ZD HZ-12(C3)
ZD314	2339231	ZD HZS30-1L
ZD315	2331849	ZD HZ-12(C3)
ZD3301	2331849	ZD HZ-12(C3)
ZD3302	2331799	ZD HZ5(C)3 SI
ZD3303	2331799	ZD HZ5(C)3 SI
ZD3304	2331799	ZD HZ5(C)3 SI
ZD3305	2331799	ZD HZ5(C)3 SI
ZD3306	2331799	ZD HZ5(C)3 SI
ZD4004	2331849	ZD HZ-12(C3)
ZD4006	2331849	ZD HZ-12(C3)
ZD4007	2331849	ZD HZ-12(C3)
ZD4010	2331831	ZD HZ-11 (A1)
ZD4012	2331833	ZD HZ11(A)3 SI
ZD501	2331828M	ZD HZ-9C2 TA
ZD502	2331828M	ZD HZ-9C2 TA
ZD503	2331828M	ZD HZ-9C2 TA
ZD601	2331828M	ZD HZ-9C2 TA
ZD602	2334323M	DIODE-ZENER RD36EB2
ZD603	2331828M	ZD HZ-9C2 TA
ZD651	2331807	ZD HZ-6 (C1)
ZD652	2331154	ZD HZ12 (A1-3/B1-3/C1-3)
ZD653	2334305	ZD RD30E (B4)
ZD7001	2331828M	ZD HZ-9C2 TA
ZD7002	2339846M	ZD HZS6B3TA
ZD7003	2339825	ZD HZS4B2
ZD7004	2331849	ZD HZ-12(C3)
ZD7005	2331828M	ZD HZ-9C2 TA
ZD709	2339801	ZD HZS2B1
⚠ZD710	2335461	ZD HZ24 (2L)
ZD712	2334334	ZD RD39EB3
ZD801B	2331827	ZD HZ-9 (C1)
ZD801G	2331827	ZD HZ-9 (C1)
ZD801R	2331827	ZD HZ-9 (C1)
ZD901	2339031	ZD HZS6C1L
ZD903	2343111	DIODE-ZENER HZ16-1L
ZD904	2343111	DIODE-ZENER HZ16-1L
ZD906	2339031	ZD HZS6C1L
ZD913	2339211	ZD HZS24-1L
ZD916	2339231	ZD HZS30-1L

TRANSFORMERS

⚠T701	2260291	HOLIZONTAL DRIVE TRANSFORMER
⚠T702	2436492	FLYBACK TRANSFORMER
⚠T703	2272762	SPC TRANSFORMER
⚠T901	2213993	POWER TRANSFORMER
⚠T902	2215592	SWITCHING TRANSFORMER
⚠T903	2215861	POWER TRANSFORMER

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SYMBOL NO.	PART NO.	DESCRIPTION
		FUSES
⚠F901	2721053	UL FUSE 5A
⚠F903	2721052	UL FUSE 4A
⚠F904	2721052	UL FUSE 4A
⚠F905	2721051	UL FUSE 1.6A
		COMPOUND CONPONENTS
CP0001	2791754	DSS306-55B101M
CP0002	2791754	DSS306-55B101M
CP0003	2791754	DSS306-55B101M
CP0004	2791754	DSS306-55B101M
CP1401	2574761	REMOTE CONTROL RECEIVER SPS-409-1G
⚠CP702	0150666	FOCUS PACK MHF174-00H
⚠CP901	2793312	CAPRISTOR
⚠CP903	2793312	CAPRISTOR
MF0001	2163972	CERAMIC FILTER 6MHZ
MF301	2163971	CERAMIC FILTER
MF7001	2786683	CERAMIC OSCILLATOR
M302	2375251	CHIP BOARD HC3031 PIP
M4001	2378211	MODULE MC-7001(B)
		COILS
L0001	2120482	FILTER COIL 100 MICRO H +-10%
L0002	2120482	FILTER COIL 100 MICRO H +-10%
L0003	2120482	FILTER COIL 100 MICRO H +-10%
L0004	2120482	FILTER COIL 100 MICRO H +-10%
L2101	2120484	FILTER COIL
L2102	2120484	FILTER COIL
L2103	2120484	FILTER COIL
L2104	2120484	FILTER COIL
L3002	2120482	FILTER COIL 100 MICRO H +-10%
L3004	2122951	LA AXIAL COIL 39 MICRO H +-10%
L3005	2120482	FILTER COIL 100 MICRO H +-10%
L3006	2120482	FILTER COIL 100 MICRO H +-10%
L3007	2120482	FILTER COIL 100 MICRO H +-10%
L3008	2120482	FILTER COIL 100 MICRO H +-10%
L301	2120482	FILTER COIL 100 MICRO H +-10%
L3011	2120482	FILTER COIL 100 MICRO H +-10%
L3012	2120482	FILTER COIL 100 MICRO H +-10%
L302	2120482	FILTER COIL 100 MICRO H +-10%
L304	2122956	LA AXIAL COIL 100 MICRO H +-10%
L3302	2120482	FILTER COIL 100 MICRO H +-10%
L3303	2120482	FILTER COIL 100 MICRO H +-10%
L3304	2120482	FILTER COIL 100 MICRO H +-10%
L3305	2120482	FILTER COIL 100 MICRO H +-10%
L3501	2166121	TRAP COIL 3.58MHZ
L5001	2141148	1H DL COIL
L5002	2122939	LA AXIAL COIL 5.6 MICRO H
L501	2122951	LA AXIAL COIL 39 MICRO H +-10%
L651	2120482	FILTER COIL 100 MICRO H +-10%
L701	2121181	FILTER COIL
L703	2124181	CHOKE COIL
L706	2124511	LINEARITY COIL
L707	2122095	FILTER COIL 27 MICRO H
L708	2120482	FILTER COIL 100 MICRO H +-10%
L709	2122094	FIXED COIL
L711	2123469M	FERRITE BEADS CORE READ 2.3
L802B	2122255	LA AXIAL COIL 150 MICRO H
L802G	2122255	LA AXIAL COIL 150 MICRO H
L802R	2122255	LA AXIAL COIL 150 MICRO H
⚠L901	2229052	LINE FILTER 3.5A
⚠L902	2229052	LINE FILTER 3.5A
⚠L903	2274556	FILTER COIL
⚠L904	2229052	LINE FILTER 3.5A
⚠L905	2229052	LINE FILTER 3.5A
L906	2123469M	FERRITE BEADS CORE READ 2.3
L907	2122653	FERRITE BEADS CORE
L908	2123469M	FERRITE BEADS CORE READ 2.3
L909	2122653	FERRITE BEADS CORE
L910	2122653	FERRITE BEADS CORE
L911	2123469M	FERRITE BEADS CORE READ 2.3
L915	2123469M	FERRITE BEADS CORE READ 2.3
L916	2122653	FERRITE BEADS CORE
L918	2122653	FERRITE BEADS CORE
L919	2122653	FERRITE BEADS CORE
L920	2121676	FIXED COIL
L922	2161152	FILTER COIL
L929	2121674	LINE FILTER COIL
L952	2161152	FILTER COIL
L953	2161152	FILTER COIL
L954	2161152	FILTER COIL
L955	2161152	FILTER COIL
L969	2123469M	FERRITE BEADS CORE READ 2.3
L970	2123469M	FERRITE BEADS CORE READ 2.3
L971	2123469M	FERRITE BEADS CORE READ 2.3
L972	2123469M	FERRITE BEADS CORE READ 2.3
L973	2123469M	FERRITE BEADS CORE READ 2.3
L974	2123469M	FERRITE BEADS CORE READ 2.3
L975	2123469M	FERRITE BEADS CORE READ 2.3
L981	2122956	LA AXIAL COIL 100 MICRO H +-10%
L982	2122956	LA AXIAL COIL 100 MICRO H +-10%
L983	2123469M	FERRITE BEADS CORE READ 2.3
L984	2161152	FILTER COIL
		SWITCH
S1401	2631863	PUSH SWITCH
S2001	2621031	SLIDE SWITCH
S301	2621051	SLIDE SWITCH
S4801	2622441	SLIDE SWITCH
		MISCELLANEOUS
1	3189482	SCREEN ASS'Y (HHEA MD)
2	3209674	CONTROL PANEL ASS'Y

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SYMBOL NO.	PART NO.	DESCRIPTION
3	4288068	MIRROR (HHEA MD)
4	3700971	LEAD CLAMP
5	4618171	RUBBER SPACER A
6	4305083	LENS-CRT UNIT METAL SUPPORT
7	4305082	LENS-CRT UNIT METAL SUPPORT R
8	4524911	HEXAGON FLANGEHEAD 4X12
9	3785043	PUSH LOCK A
10	4137976	4X20 TAPPING SCREW WITH WASHER
11	4159427	3X10 TAPPING SCREW WITH WASHER
12	3727972	HOLDER-AC LINE CORD
13	4518772	3X12 TNE
14	4331941	MIRROR HOLDER U
15	3811195	POWER KNOB
16	3332453	SPRING FOR KNOB
17	4263311	MIRROR HOLDING B
18	3821103	DOOR ASS'Y
19	4335872	MIRROR HOLDER LO (HHEA MD)
20	3716742	PLASTIC HOLDER
21	3746482	WIRE CLAMP
22	3209495	TERMINAL BOARD ASS'Y
23	4336491	CASTER METAL
24	3123072	CABINET ASS'Y (HHEA MD) [for 46EX2B]
24	3123073	CABINET ASS'Y (HHEA MD) [for 46EX2K]
	3742021	LEAD HOLDER(CABINET)
25	4137975	4X16 ZA R SCREW
26	4159755	WASHER 16
27	4519503	3X12 TAPPING SCREW
28	4520232	4X16 DT SCREW
29	3447251	UNIT METAL COVER (A)
30	3447252	UNIT METAL COVER (B)
31	3850473	SCREEN FRAME (H)
32	3850474	SCREEN FRAME (V)
⚠33	4866865	LENS CRT BLOCK ASS'Y R (HHEA MD)
⚠34	4866866	LENS CRT BLOCK ASS'Y G (HHEA MD)
⚠35	4866867	LENS CRT BLOCK ASS'Y B (HHEA MD)
	8781440	3X10 TAPPING SCREW
	4520883	M3X12 SCREW WITH WASHER
	2720221	FUSE HOLDER
	3763752	SK BINDER
	3780091	PWB SPACER 81X
	2720221	FUSE HOLDER
	4520885	M3X16 SCREW
	4520881	M3X8 SCREW WITH WASHER
	2784342	CONDENSER COVER
	4518772	3X12 TNE
	4770601	3 FLANGE NUT
	3731081	PURSE LOCK 10
	3737101	PURSE LOCK 15
	2940781	FERRITE CLUMP
	4159425	3X16 TAPPING SCREW
	3746482	WIRE CLAMP
	4526322	M8X10 SCREW
	4524913	HEXAGON FLANGEHEAD 4X12 R
	3752105	DUST COVER
	3700732	LENS DELTA 12P W/O C (HHEA MD)
	3332021	EARTH SPRING
	4159411	3X8 KNURL TAPPING SCREW
	8815124	WASHER,LOCK 3MM
	3763751	SK BINDER
	8821114	NUT 3
BP5001	2165811	B.P.FILTER SBP4370
DL5001	2794201	DELAY LINE
DL5002	2791101	DELAY LINE
E	2771894	FERRITE BEADS CORE 006
EB	2771892	FERRITE BEADS CORE 004
EC	2771893	FERRITE BEADS CORE
ECB	2661753	PIN PLUG WITH BASE
ECG	2661753	PIN PLUG WITH BASE
ECR	2661753	PIN PLUG WITH BASE
ED	2661753	PIN PLUG WITH BASE
ED	2771893	FERRITE BEADS CORE
EDA	2661751	PLUG PIN WITH BASE
EDS	2902263	4P SUB MINI PLUG PIN
EFUS	2687791	F-US ADAPTOR
EJ1G	2663821	2P PLUG PIN
EMB	2665272	4P PLUG PIN WITH BASE
EMG	2665272	4P PLUG PIN WITH BASE
EMR	2665272	4P PLUG PIN WITH BASE
ESL	2661944	CONNECTOR
ETS	2663821	2P PLUG PIN
E1	2983082	OP PIN JACK WITH S TERMINAL
⚠E101	2442842	DEFLECTION YOKE (HHEA MD)
E2	2983401	6P PIN JACK WITH SWITCH
E202	2982471	300-75 VHF ADAPTER
E301	2573755	REMOTE CONTROL TRANSMITTER CLU-660GR (HHEA MD)
E302	2573621	REMOTE CONTROL TRANSMITTER CLU-609 (HHEA MD)
E4	2983387	5P PIN JACK
E4801	2983011	4P PUSH TERMINAL
⚠E801B	2953344	CPT SOCKET
⚠E801G	2953344	CPT SOCKET
⚠E801R	2953344	CPT SOCKET
E802	2661756	1P PLUG PIN WITH BASE
⚠E9001	2972522	POWER SUPPLY CORD
⚠E9002	3772201	AC CORD HOLDER
⚠E9003	3739671	CORD HOLDER
⚠FE0001	2429341	FRONTEND V8-A58FT
JUSP	2994842	PLUG WITH WIRE
PDA	2661941	L TYPE PLUG WITH BASE2P
PPD	2663134	PLUG PIN WITH BASE (5P)
PP31	2661751	PLUG PIN WITH BASE
⚠RL901	2640574	RELAY
SG801B	2340039	SPARK GAP
SG801G	2340039	SPARK GAP
SG801R	2340039	SPARK GAP
SG802B	2340039	SPARK GAP
SG802G	2340039	SPARK GAP

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SG802R	2340039	SPARK GAP			
⚠SP401	2412921	SPEAKER 160MM			
⚠SP402	2412921	SPEAKER 160MM			
TH2101	2340552	THERMISTOR			
W811B	2692461	FOCUS LEAD WIRE (HHEA MD)			
W811G	2692461	FOCUS LEAD WIRE (HHEA MD)			
W811R	2692461	FOCUS LEAD WIRE (HHEA MD)			
X501	2791501	CRYSTAL HC-49/U			

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