

TX-W32R4 Service Manual

Specifications

Parts List

Safety

Block
Diagrams

Service
Information

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Exploded
View

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Service Support

Service and repair of this product is supported by Panasonic's LUCI interface.

This interface provides a link between the TV and a standard PC to allow a number of diagnostic and control functions to be performed.

For more details contact your local Panasonic company.



BACK

EXIT

Service Manual



Colour Television TX-W32R4

EURO-4 Chassis

SPECIFICATIONS

| | |
|------------------------------------|--|
| Power Source: | 220-240V a.c., 50Hz |
| Power Consumption: | 110W |
| Aerial Impedance: | 75Ω unbalanced, Coaxial Type |
| Stand-by Power Consumption: | 1,8W |
| Receiving System: | PAL I, PAL 525/60 M.NTSC NTSC (AV only) |
| Receiving Channels: | UHF E21-E69 |
| Intermediate Frequency: | Video 39,5MHz Audio 33,5MHz, 32,95MHz Colour 35,07MHz |
| Video/Audio Terminals: | |
| AV1 IN | Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin) |
| AV1 OUT | Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ |
| AV2 IN | Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ S-Video IN (21 pin) Y: 1V p-p 75Ω C: 0,3V p-p 75Ω |
| AV2 OUT | Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ Selectable Output (21 pin) |

| | | |
|--------|--|--|
| AV3 IN | S-Video IN (4-pin) Audio (RCAX2) Video (RCAX1) | Y: 1V p-p 75Ω C: 0,3V p-p 75Ω 500mV rms 10kΩ 1V p-p 75Ω |
|--------|--|--|

| | |
|----------------------|-------------------|
| High Voltage: | 30,5kV ±1kV |
| Picture Tube: | W76LFC185X06 76cm |

| | |
|----------------------|---------------------------------------|
| Audio Output: | 2 x 20W (Music Power) 8Ω Impedance |
|----------------------|---------------------------------------|

| | |
|--------------------|------------------------|
| Headphones: | 8Ω Impedance 3,5 mm |
|--------------------|------------------------|

| | |
|-------------------------------|---|
| Accessories supplied : | Remote Control 2 x R6 (UM3) Batteries T.V. Stand (VS-WR4) |
|-------------------------------|---|

| | |
|--------------------|-------|
| Dimensions: | |
| Height: | 555mm |
| Width: | 862mm |
| Depth: | 553mm |

| | |
|--------------------|------|
| Net weight: | 50kg |
|--------------------|------|

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the EURO-4 Technical Guide.

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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts that have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 31,5kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

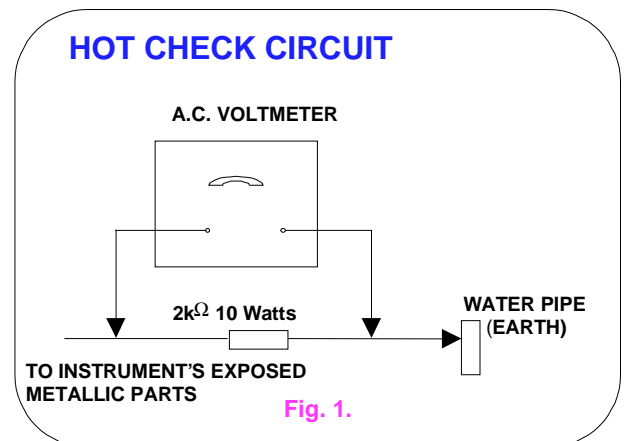
LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2k Ω 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.

4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.



X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 31,5kV without causing X-Radiation.

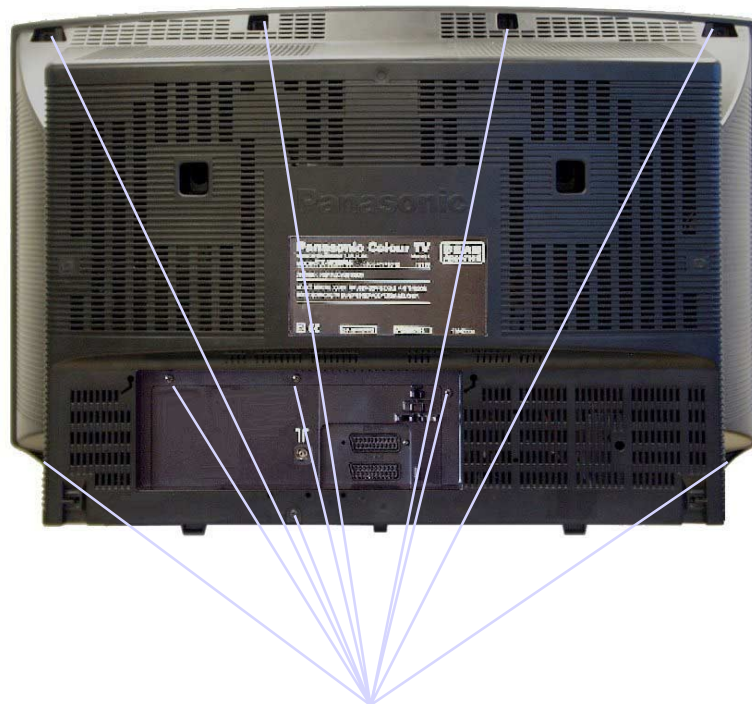
NOTE: It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate :- 30,5kV \pm 1kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

How to remove the rear cover

1. Remove the 10 screws as shown in **Fig.2.**



SCREWS
Fig.2.

LOCATION OF CONTROLS

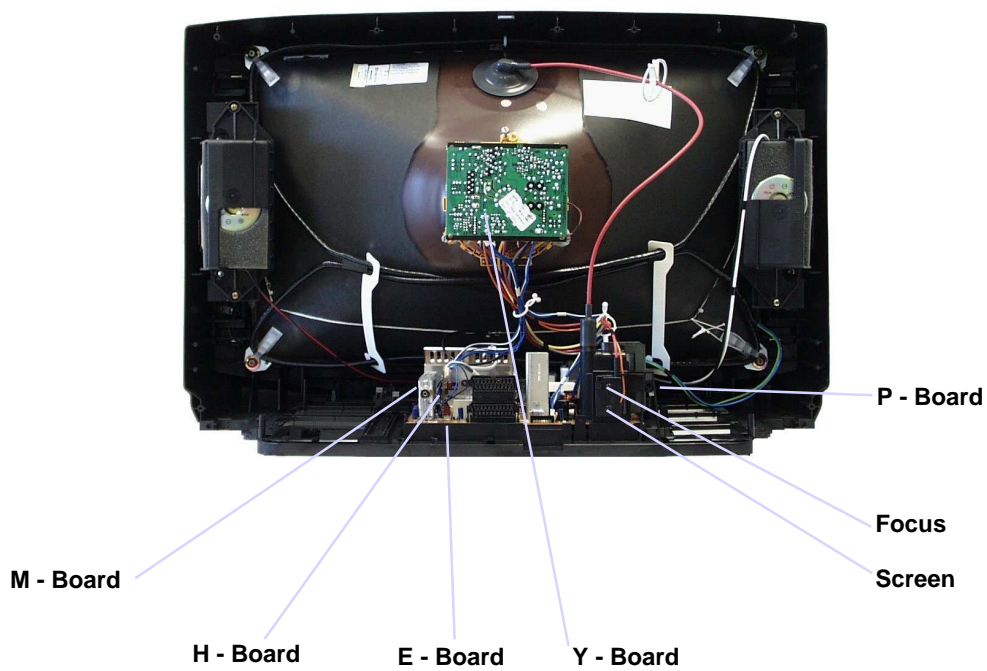
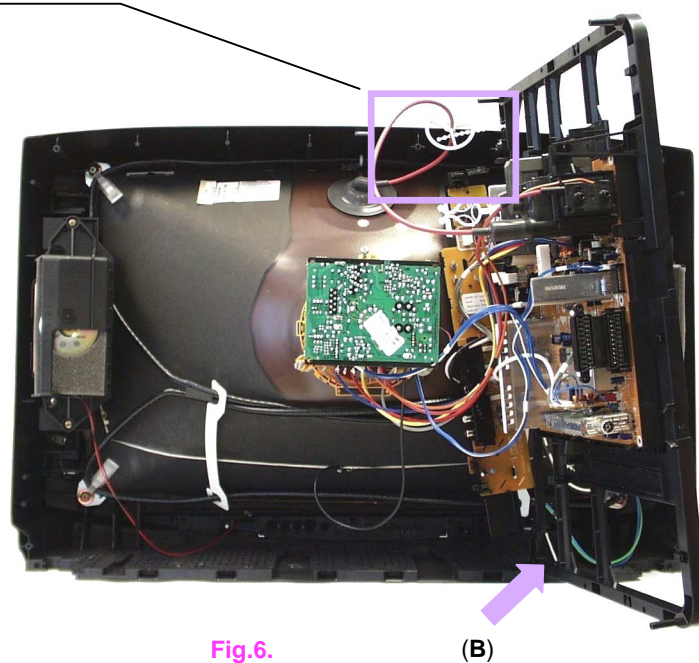
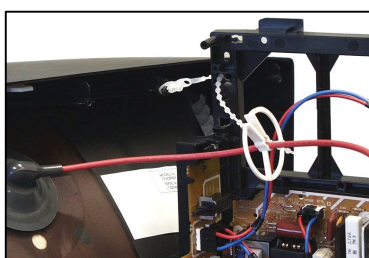
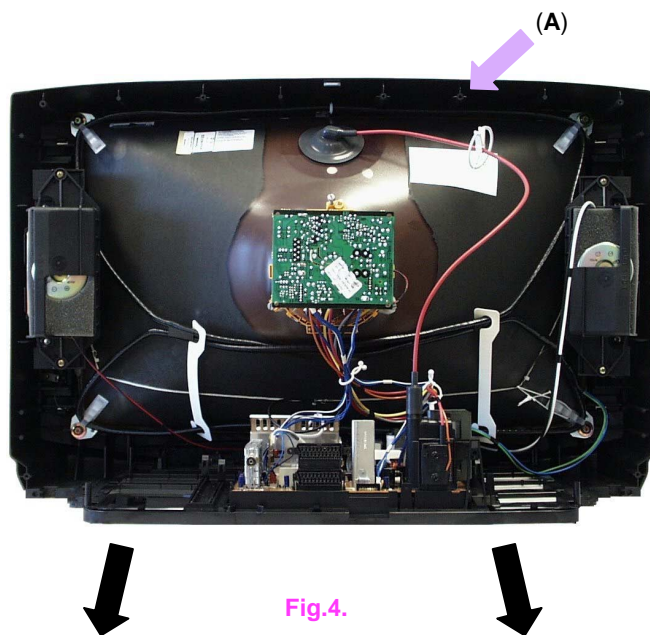


Fig.3.

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION


1. Remove the bead clumper from the mains lead and screw, using back cover screw, into top right-hand cabinet rib (A), shown in Fig.4.
2. Hold and lift the rear of the E-PCB chassis and gently pull the chassis toward you, as shown in Fig.4.
3. Release the respective wiring clips and rotate the chassis vertically through 90°, anti-clockwise.
4. Locate the base of the chassis frame into the hole (B), shown in Fig.6.
5. Clip the chassis frame onto the bead clumper, as shown in Fig.5.
6. After servicing replace the bead clumper and ensure all wiring is returned to its original position before returning the receiver to the customer.



ADJUSTMENT PROCEDURE

| Item / Preparation | Adjustments |
|---|--|
| +B SET-UP 1. Receive a Greyscale signal. 2. Set the controls :- Brightness Minimum Contrast Minimum Volume Minimum | 1. Set the +B voltage up as follows:- Adjust R811 so that B2 shows 148V±1V. 2. Confirm the following voltages. B9 5 ± 0,25V B10 5 ± 0,25V B5 12 ± 0,5V B11 33 ± 1,5V B4 16 ± 1V B7 8 ± 0,5V B12 26 ± 1V B8 5,5 ± 0,5V B3 41 ± 1,5V B13 15 ± 1V B1 200 ± 10V B14 -15 ± 1V |
| CUT OFF / Ug2 Test 1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cut off mode. | To adjust Cutoff connect an oscilloscope to the Blue cathode, adjust "cutoff" value using the "Yellow" and "Blue" buttons until the black level is 160V±5V press "STR" to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K." |

FACTORY SETTINGS

To return customer settings to factory settings and clear owner ID of all information input by the customer, enter Self-Check mode. Press the down (-V) button on the customer controls at the front of the TV set, at the same time pressing the **STATUS** button  on the remote control. To exit Self Check, switch off the TV set at the power button.

NOTE: Self Check should only be used when refurbishing the TV set and not during normal repair work.

| | | | |
|----------|------|-----|------------------|
| VDP | O.K. | PCB | O.K. |
| TUN | O.K. | Cab | O.K. |
| E2 | O.K. | Sum | Factory use only |
| MSP | O.K. | | |
| DPL | -- | | |
| OPTION 1 | 00 | | |
| OPTION 2 | 21 | | |
| OPTION 3 | 02 | | |
| OPTION 4 | 00 | | |
| OPTION 5 | B1 | | |
| OPTION 6 | A9 | | |

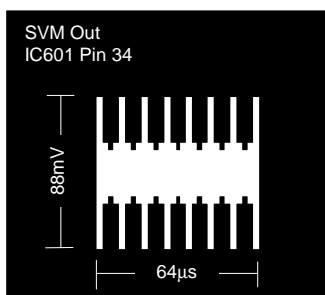
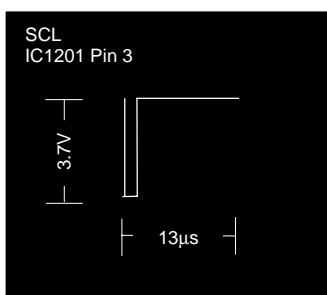
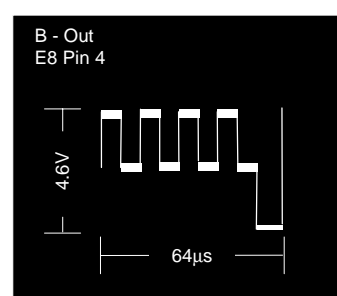
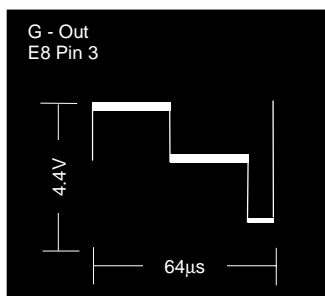
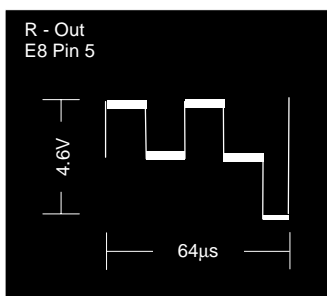
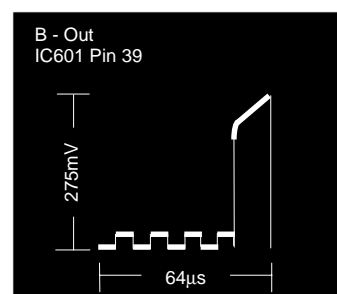
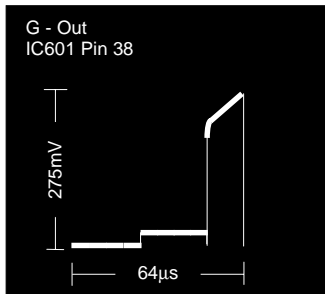
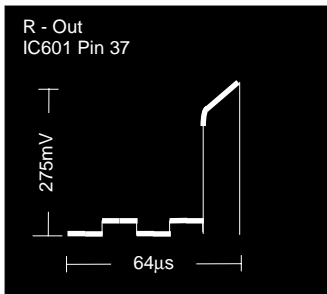
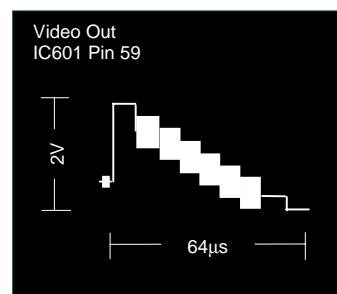
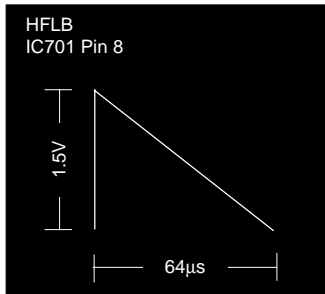
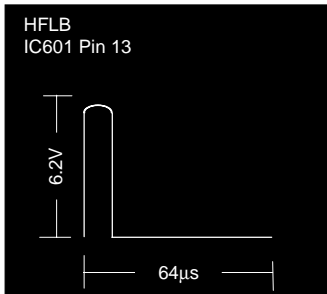
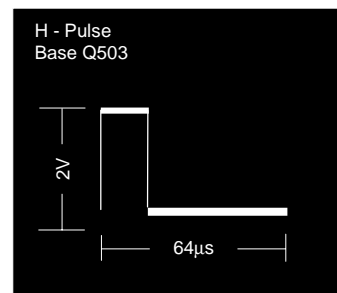
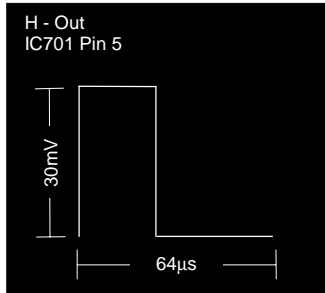
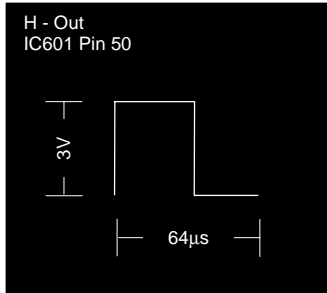
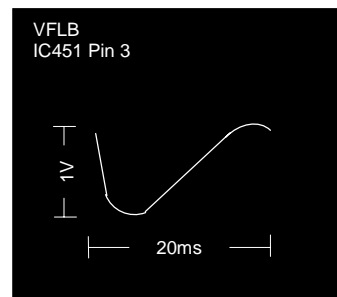
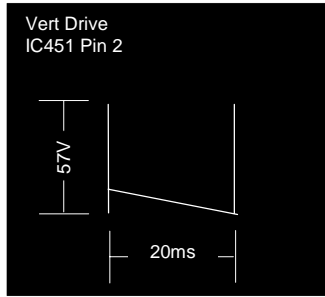
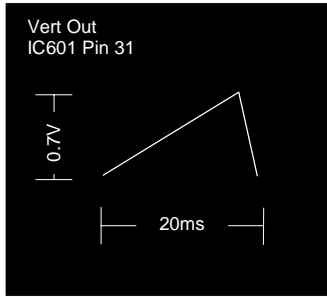
Self Check is also used to automatically check the bus lines and hexadecimal code of the TV set. If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.". For more in-depth TV diagnostics use the **LUCI** interface as listed below.

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

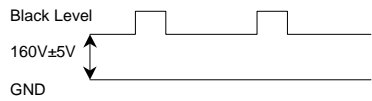
- LUCI** interface kit (Linked Utility Computer Interface)
 Part number: TZS6EZ002
 This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.
- VICI** (Visual Interactive Computer Information)
 These C.D.'s contain multimedia documentation providing quick access to service information.
 Part No. TZS7EZ006 & TZS7EZ005
 - Service Manuals
 - Instruction Books
 - Technical Information
- TASMIN** (Technically Advanced System for Multimedia Interactive Notes)
 As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

WAVEFORM PATTERN TABLE

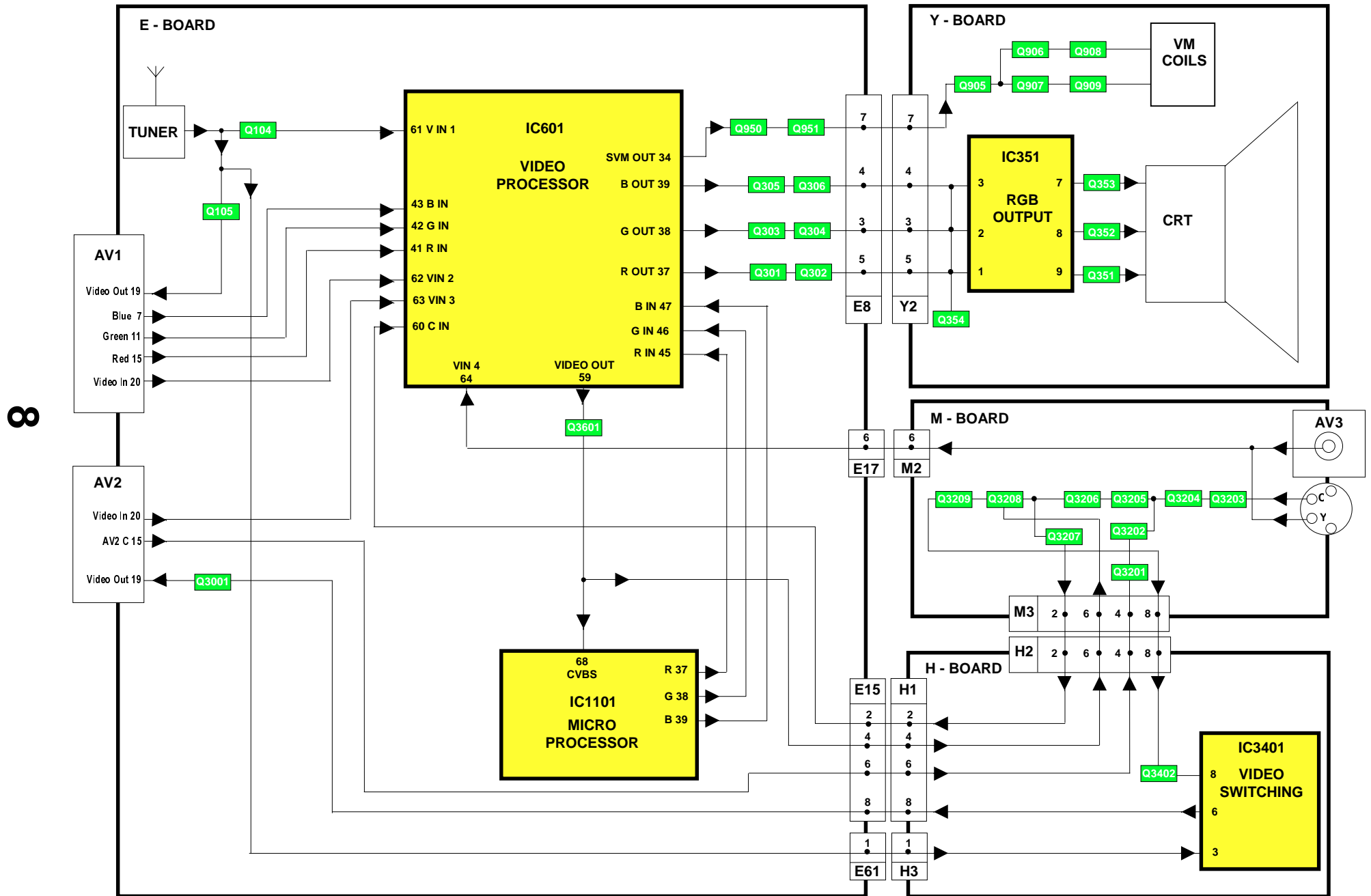


ALIGNMENT SETTINGS

(The figures below are nominal and used for representative purposes only.)

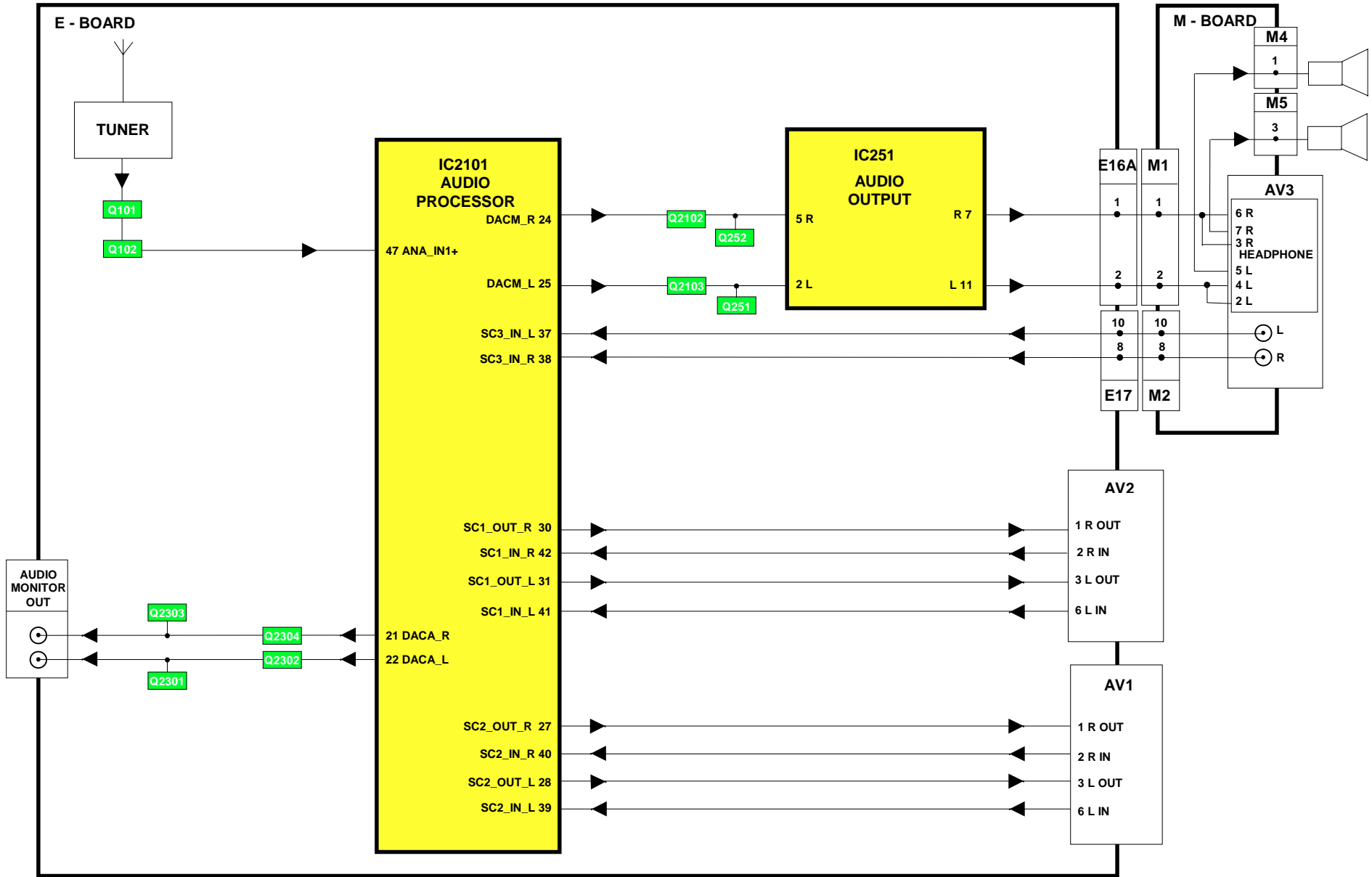
| Alignment Function | | Settings / Special features |
|-----------------------|---|--|
| Horizontal Position | H-Pos 061 | Optimum setting. |
| Vertical Position | V-Pos 005 | Optimum setting. |
| Horizontal Amplitude | H-Amp 055 | Optimum setting. |
| Vert. Amplitude | V-Amp 054 | Optimum setting. |
| EW-amplitude | EW-Amp1 -128 | Optimum setting. |
| EW-amplitude | EW-Amp2 006 | Optimum setting. |
| Trapezium-comp | Trapez-1 047 | Optimum setting. |
| Trapezium-comp | Trapez-2 -128 | Optimum setting. |
| Vertical Linearity | V-Lin 006 | Optimum setting. |
| Vertical Symmetry | V-Sym 002 | Optimum setting. |
| DVCO | DVCO -005 | Receive a PAL Colour Bar Pattern. For DVCO alignment press " Blue " button, wait until the colours are changing slowly and press " STR ". |
| Cut-off DC | Cut-off 0171 | <p>To adjust Cutoff connect an oscilloscope to the blue cathode, adjust "cutoff" value using the "Yellow" and "Blue" buttons until the black level is $160V \pm 5V$ press "STR" to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."</p>  |
| Ug2 Test | Ug2 055 O.K. | |
| Highlight Lowlight | High 0902 0777 0864 Low 0117 0132 0112 | Optimum setting. |
| Sub-Brightness | Sub-Brightness 255 | Optimum setting. |

VIDEO BLOCK DIAGRAM

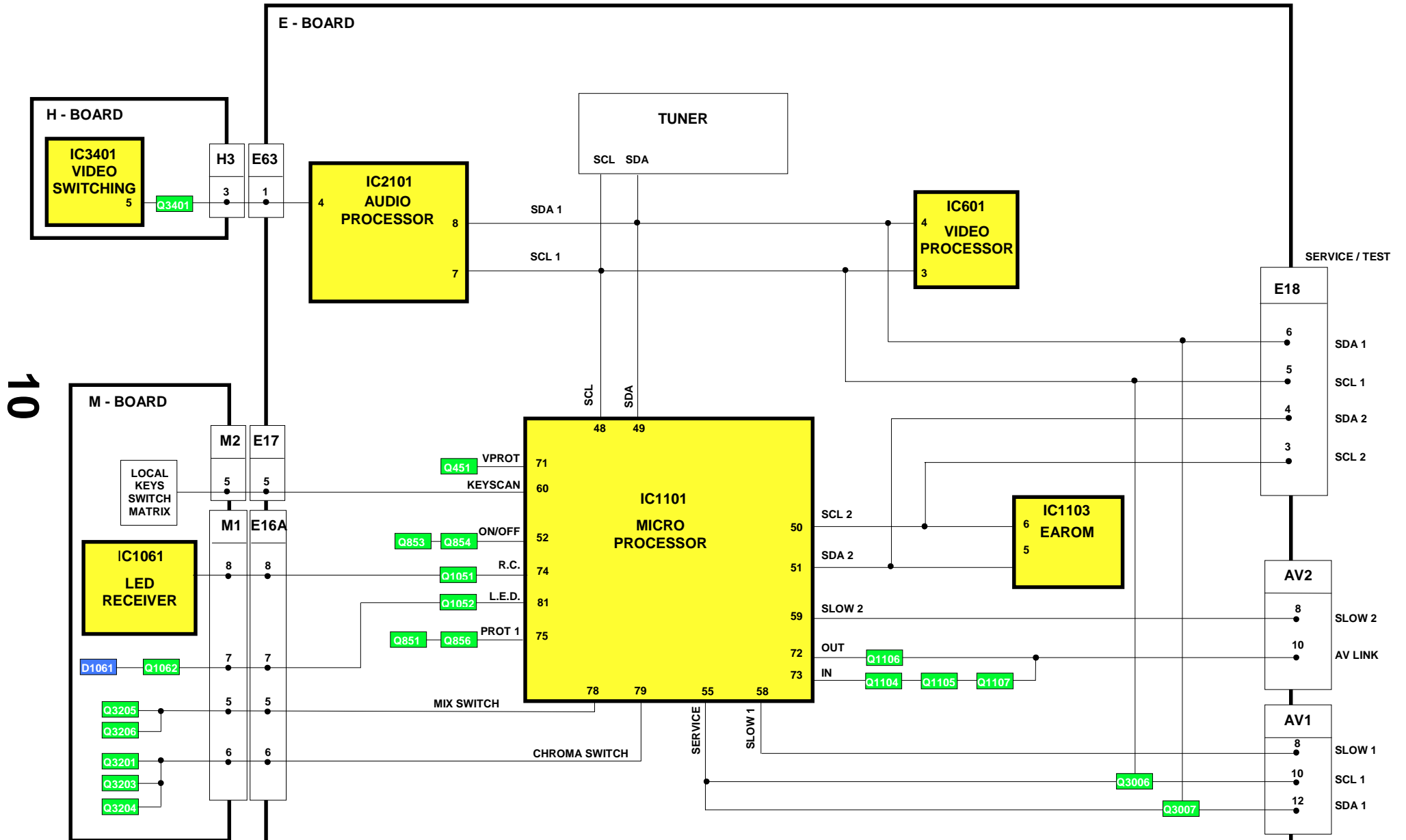


AUDIO BLOCK DIAGRAM

6



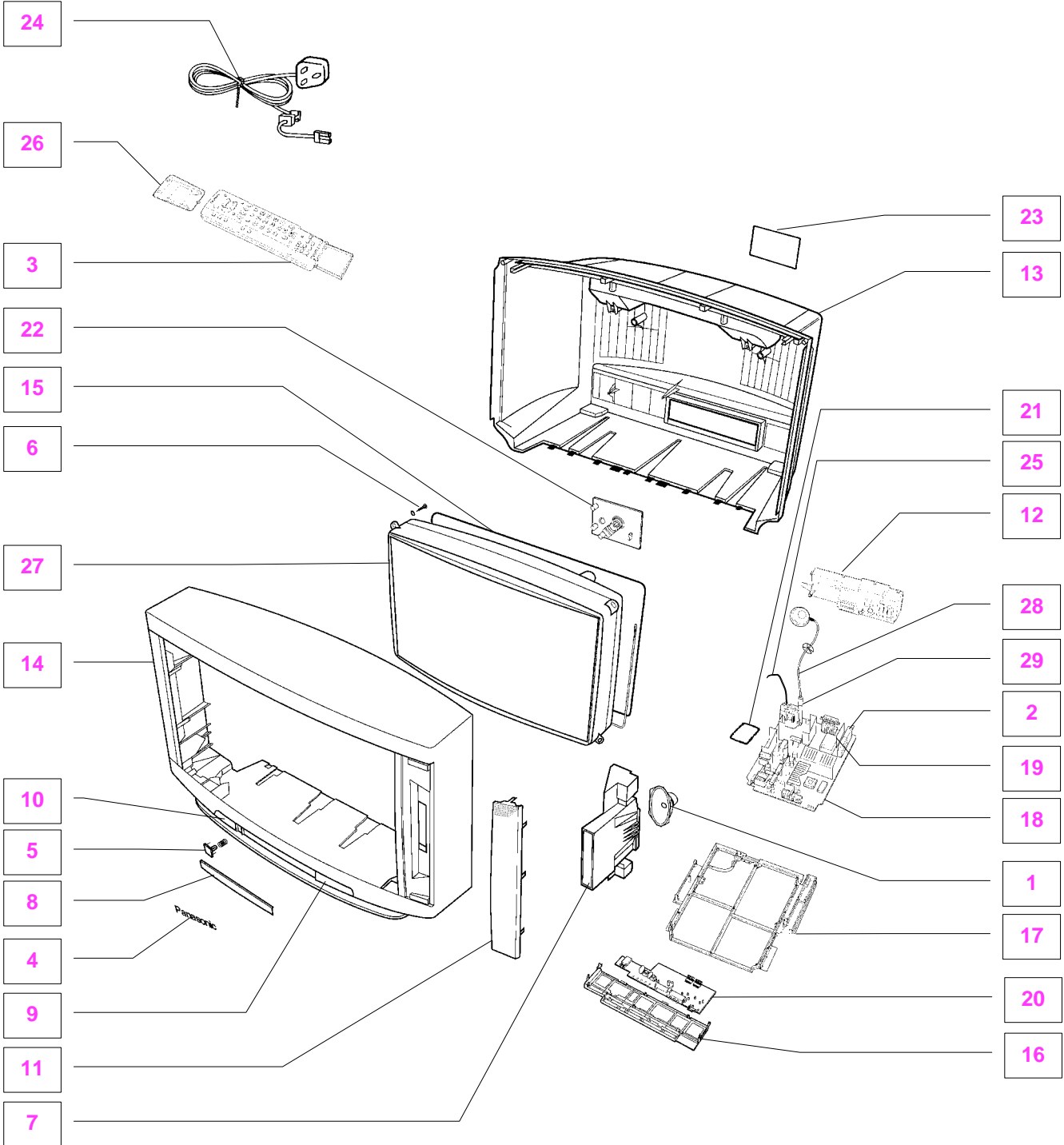
CONTROL BLOCK DIAGRAM



10


PARTS LOCATION

















NOTE:
The numbers on the exploded view below refer to the mechanical section of the Replacement Parts List.




REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by  mark have special characteristics important for safety.
 * When replacing any of these components, use only manufacturers specified parts.
 In case of ordering these spare parts, please always add the complete Model-Type number to your order.

| Cct Ref | Parts Number | Description |
|---------------------------------|--------------|--|
| MECHANICAL PARTS | | |
| 1 | EAGG1218J2 | SPEAKER |
| 2 | ENG27506G | TUNER  |
| 3 | EUR511210 | REMOTE CONTROL |
| 4 | TBM8E1728 | PANASONIC BADGE |
| 5 | TBX8E049 | POWER BUTTON |
| 6 | THT1062 | CRT FIXING SCREW |
| 7 | TKK8E026 | SPEAKER REFLECTOR |
| 8 | TKP8E1141 | DOOR LID |
| 9 | TKP8E1142 | RIGHT PANEL |
| 10 | TKP8E1143 | LEFT PANEL |
| 11 | TKP8E1148 | SPEAKER NET |
| 12 | TKP8E1254 | AV PANEL |
| 13 | TKU8E00290 | BACK COVER  |
| 14 | TKY8E110 | CABINET  |
| 15 | TLK8E05123 | DEGAUSS COIL  |
| 16 | TMW8E023 | CONTROL BRACKET |
| 17 | TMX8E031 | CHASSIS FRAME |
| 18 | TNP8EE009CA | E P.C.B.  |
| 19 | TNP8EH002AB | H P.C.B.  |
| 20 | TNP8EM017AA | M P.C.B.  |
| 21 | TNP8EP015AA | P P.C.B.  |
| 22 | TNP8EY012AJ | Y P.C.B.  |
| 23 | TQF8E2762 | MODEL LABEL  |
| 24 | TSX8E0025 | POWER CORD  |
| 25 | TXFJTF01BMTG | FOCUS LEAD ASSY |
| 26 | UR51EC904A | BATTERY COVER (REMOTE) |
| 27 | W76LFC185X06 | C.R.T.  |
| 28 | ZTBZAD550A | ANODE CABLE |
| 29 | ZTFM05002A | F.B.T.  |
| MISCELLANEOUS COMPONENTS | | |
| | 31221212478 | FIX CLIP |
| | 832AG11D-ESL | IC SOCKET |
| | F9-4-220 | RELAY |
| | PLCC-84-T | 84 PIN IC SOCKET |
| | TBM8E1532-2 | PRESET PANEL |
| | TBM8E1886 | REAR AV LABEL |
| | TEK6940 | LID CATCH |
| | TLK8E05124 | GEOMAGNETIC COIL  |
| | TMW8E017 | LED HOLDER |
| | TPC8E4729 | OUTER CARTON |
| | TPD8E621 | TOP CUSHION |
| | TPD8E622 | BOTTOM CUSHION |
| | UM-3DJ-2P | BATTERY PACK |
| | VS-WR4 | TV STAND |
| RL801 | TSE1885-1 | RELAY |
| R802 | 232266296706 | THERMISTOR  |
| S351 | 0330550049 | C.R.T. SOCKET |
| INSTRUCTION BOOKS | | |
| | TQB8E2583-3 | ENGLISH  |

| Cct Ref | Parts Number | Description |
|---------------|--------------|--|
| I.C.s | | |
| IC251 | LA4282 | AUDIO OUTPUT |
| IC351 | TDA6103Q-N3 | R.G.B. OUTPUT |
| IC451 | LA7845N | VERTICAL OUTPUT |
| IC601 | VDP3120BPPB1 | VIDEO PROCESSOR |
| IC701 | TEA2031A | E/W CORRECTION |
| IC801 | STRF6654LF51 | POWER SUPPLY |
| IC850 | SE140N | ERROR AMPLIFIER |
| IC851 | L78M12MRB | 12V REGULATOR |
| IC853 | AN78L08TA | 8V REGULATOR |
| IC1061 | RPM-637CBRS1 | LED RECEIVER |
| IC1101 | SDA5450C48UK | MICRO PROCESSOR |
| IC1102 | 27C2001-L01 | EPROM * |
| IC1103 | X24CGL0204SA | EAROM * |
| IC1104 | MN1381-R(TA) | RESET |
| IC1105 | MN1381-T(TA) | RESET |
| IC1900 | LA6515 | EARTH CORRECTION |
| IC2101 | MSP3410DPOB4 | AUDIO PROCESSOR |
| IC3401 | TEA2114 | VIDEO SWITCHING |
| FUSES | | |
| F801 | 19181-3.15 | FUSE  |
| F8011 | EYF52BC | FUSE HOLDER |
| F8012 | EYF52BC | FUSE HOLDER |
| DIODES | | |
| D251 | MA2180BLFS | DIODE |
| D253 | MA700TA5 | DIODE |
| D254 | MA700TA5 | DIODE |
| D354 | 1SR124-4AT82 | DIODE |
| D355 | 1SR124-4AT82 | DIODE |
| D356 | 1SR124-4AT82 | DIODE |
| D357 | MA165TA5 | DIODE |
| D358 | MA165TA5 | DIODE |
| D359 | MA165TA5 | DIODE |
| D360 | MTZJT-7715A | DIODE |
| D361 | MA165TA5 | DIODE |
| D362 | MA165TA5 | DIODE |
| D363 | MA165TA5 | DIODE |
| D364 | MA165TA5 | DIODE |
| D453 | MA165TA5 | DIODE |
| D454 | ERA15-02V3 | DIODE |
| D456 | MTZJT-775.6C | DIODE |
| D457 | MA165TA5 | DIODE |
| D501 | MA165TA5 | DIODE |
| D502 | 1SR124-4AT82 | DIODE |
| D511 | MA4047 | DIODE |
| D552 | RU3LFA1 | DIODE |
| D553 | 1SR124-4AT82 | DIODE |
| D554 | 1SR124-4AT82 | DIODE |
| D556 | MA165TA5 | DIODE |
| D557 | EU02 | DIODE |
| D558 | 1SR124-4AT82 | DIODE |
| D580 | ERD07-15L7 | DIODE |

| Cct Ref | Parts Number | Description |
|--------------------|--------------|---------------|
| D601 | DAN217T146 | DIODE |
| D603 | DAN217T146 | DIODE |
| D605 | DAN212KT146 | DIODE |
| D606 | MA165TA5 | DIODE |
| D607 | MA4051 | DIODE |
| D609 | 1SR124-4AT82 | DIODE |
| D615 | STZ6.2NT146 | DIODE |
| D616 | STZ6.2NT146 | DIODE |
| D701 | MA165TA5 | DIODE |
| D702 | MTZJT-775.1C | DIODE |
| D704 | MA29TA5 | DIODE |
| D705 | MTZJT-775.6C | DIODE |
| D801 | RBV-608LF-B | DIODE |
| D803 | 1SR124-4AT82 | DIODE |
| D804 | 1SR124-4AT82 | DIODE |
| D805 | TLP621GR-LF2 | PHOTO COUPLER |
| D806 | 1SR124-4AT82 | DIODE |
| D850 | RU4BLF-L1 | DIODE |
| D851 | MTZJT776.2B | DIODE |
| D852 | MA165TA5 | DIODE |
| D853 | MA2180BLFS | DIODE |
| D854 | TVSRU2AMLFA5 | DIODE |
| D855 | FML22SLF610 | DIODE |
| D856 | RU4AMLF-M1 | DIODE |
| D857 | MTZJT-775.1C | DIODE |
| D858 | MA165TA5 | DIODE |
| D859 | MA165TA5 | DIODE |
| D861 | MA165TA5 | DIODE |
| D862 | MTZJT-7736A | DIODE |
| D863 | MA165TA5 | DIODE |
| D865 | MA165TA5 | DIODE |
| D866 | MA165TA5 | DIODE |
| D867 | EK06-V0 | DIODE |
| D868 | 1N4150T-77 | DIODE |
| D869 | 1N4150T-77 | DIODE |
| D870 | MA165TA5 | DIODE |
| D871 | 1N4150T-77 | DIODE |
| D873 | MTZJT-775.6C | DIODE |
| D874 | 1SR124-4AT82 | DIODE |
| D875 | BZX79A75A26A | DIODE |
| D901 | MA165TA5 | DIODE |
| D902 | MA165TA5 | DIODE |
| D904 | MA165TA5 | DIODE |
| D905 | MA165TA5 | DIODE |
| D906 | RLS72TE-11 | DIODE |
| D1061 | LN81RPHL | DIODE |
| D1101 | MA165TA5 | DIODE |
| D1102 | MA165TA5 | DIODE |
| D1104 | MA165TA5 | DIODE |
| D1105 | MA165TA5 | DIODE |
| D2101 | MA723TA5 | DIODE |
| D2102 | MA723TA5 | DIODE |
| D2103 | MA723TA5 | DIODE |
| D2104 | MA723TA5 | DIODE |
| D2105 | MTZJT-778.2C | DIODE |
| D3201 | MTZJT-778.2C | DIODE |
| D3202 | MTZJT-778.2C | DIODE |
| TRANSISTORS | | |
| Q101 | BC847B | TRANSISTOR |
| Q102 | BC847B | TRANSISTOR |
| Q104 | BC847B | TRANSISTOR |
| Q105 | BC847B | TRANSISTOR |
| Q251 | 2SD1328STX | TRANSISTOR |
| Q252 | 2SD1328STX | TRANSISTOR |
| Q253 | BC847B | TRANSISTOR |
| Q254 | BC847B | TRANSISTOR |

| Cct Ref | Parts Number | Description |
|---------------------|--------------|-------------|
| Q301 | BC847B | TRANSISTOR |
| Q302 | FMY4T148 | TRANSISTOR |
| Q303 | BC847B | TRANSISTOR |
| Q304 | FMY4T148 | TRANSISTOR |
| Q305 | BC847B | TRANSISTOR |
| Q306 | FMY4T148 | TRANSISTOR |
| Q351 | 2SA1767 | TRANSISTOR |
| Q352 | 2SA1767 | TRANSISTOR |
| Q353 | 2SA1767 | TRANSISTOR |
| Q354 | BC857B | TRANSISTOR |
| Q451 | BC857B | TRANSISTOR |
| Q503 | 2SD2398-M2 | TRANSISTOR |
| Q551 | 2SD1577LB | TRANSISTOR |
| Q552 | 2SC1473-RN | TRANSISTOR |
| Q701 | BC857B | TRANSISTOR |
| Q850 | 2SD1273PLB | TRANSISTOR |
| Q851 | BC857B | TRANSISTOR |
| Q852 | 2SC1383-S | TRANSISTOR |
| Q853 | BC847B | TRANSISTOR |
| Q854 | BC847B | TRANSISTOR |
| Q855 | BC847B | TRANSISTOR |
| Q856 | BC847B | TRANSISTOR |
| Q857 | 2SA1018QTA | TRANSISTOR |
| Q905 | BC847B | TRANSISTOR |
| Q906 | BC847B | TRANSISTOR |
| Q907 | BC857B | TRANSISTOR |
| Q908 | 2SA1535ARLB | TRANSISTOR |
| Q909 | 2SC3944ARLB | TRANSISTOR |
| Q950 | BC847B | TRANSISTOR |
| Q951 | FMY4T148 | TRANSISTOR |
| Q1051 | BC847B | TRANSISTOR |
| Q1062 | BC847B | TRANSISTOR |
| Q1101 | BC847B | TRANSISTOR |
| Q1104 | BC847B | TRANSISTOR |
| Q1105 | BC847B | TRANSISTOR |
| Q1106 | BC847B | TRANSISTOR |
| Q1107 | BC847B | TRANSISTOR |
| Q1108 | BC847B | TRANSISTOR |
| Q2101 | BC857B | TRANSISTOR |
| Q2102 | BC857B | TRANSISTOR |
| Q2103 | BC857B | TRANSISTOR |
| Q2302 | BC857B | TRANSISTOR |
| Q2304 | BC857B | TRANSISTOR |
| Q3001 | BC847B | TRANSISTOR |
| Q3006 | BC847B | TRANSISTOR |
| Q3007 | BC847B | TRANSISTOR |
| Q3201 | BC847B | TRANSISTOR |
| Q3202 | BC847B | TRANSISTOR |
| Q3203 | BC857B | TRANSISTOR |
| Q3204 | BC857B | TRANSISTOR |
| Q3205 | BC847B | TRANSISTOR |
| Q3206 | BC847B | TRANSISTOR |
| Q3207 | BC847B | TRANSISTOR |
| Q3208 | BC847B | TRANSISTOR |
| Q3209 | BC847B | TRANSISTOR |
| Q3401 | BC847B | TRANSISTOR |
| Q3402 | BC847B | TRANSISTOR |
| Q3601 | BC847B | TRANSISTOR |
| TRANSFORMERS | | |
| T501 | ETH19Y173AY | TRANSFORMER |
| T801 | ETS42AE226AD | TRANSFORMER |
| T802 | ETP35KAN619U | TRANSFORMER |
| COILS | | |
| L104 | EXCELSA35T | COIL |
| L106 | TLTACT100K | COIL |
| L107 | TLTACT6R8K | COIL |

| Cct Ref | Parts Number | Description |
|------------------|--------------|----------------------|
| L301 | TLTACT4R7K | COIL |
| L302 | TLTACT4R7K | COIL |
| L451 | EXCELSA35T | COIL |
| L501 | EXCELSA35T | COIL |
| L580 | ELC08D682E | COIL |
| L581 | ELH5L6117 | COIL |
| L582 | ELC18B102E | COIL |
| L583 | ELC18B101L | COIL |
| L601 | TLTACT4R7K | COIL |
| L602 | TLTACT4R7K | COIL |
| L603 | TLTACT4R7K | COIL |
| L604 | TLTACT4R7K | COIL |
| L606 | TLTACT4R7K | COIL |
| L607 | ELJFC2R2KF | COIL |
| L701 | ELC10D682E | COIL |
| L850 | EXCELSA35T | COIL |
| L851 | EXCELSA35T | COIL |
| L852 | ELEIE470KA | COIL |
| L855 | EXCELSA35T | COIL |
| L856 | EXCELSA39V | COIL |
| L901 | EXCELSA24T | COIL |
| L902 | EXCELSA24T | COIL |
| L1061 | TLT331K991R | COIL |
| L1103 | TLTACT100K | COIL |
| L1104 | EXCELSA35T | COIL |
| L1105 | ELJFC2R2KF | COIL |
| L1900 | EXCELD25V | COIL |
| L2101 | TLTACT100K | COIL |
| L2103 | EXCELSA35T | COIL |
| L2104 | TLTACT4R7K | COIL |
| L3001 | ELEMV1R5MA | COIL |
| L3002 | ELEMV1R5MA | COIL |
| L3003 | ELEMV1R5MA | COIL |
| L3004 | ELEMV1R5MA | COIL |
| L3005 | ELEBR2R2KA | COIL |
| L3006 | ELEBR2R2KA | COIL |
| L3007 | TLTACT2R2K | COIL |
| L3201 | ELEBR6R8KA | COIL |
| L3202 | ELEBR6R8KA | COIL |
| L3203 | TLT390K991R | COIL |
| L3204 | TLT331K991R | COIL |
| L3401 | ELESN2R2KA | COIL |
| L3402 | ELESN2R2KA | COIL |
| FILTERS | | |
| L802 | ELF18N012A | LINE FILTER |
| L804 | ELF18N012A | LINE FILTER |
| CRYSTALS | | |
| X601 | 4730007267 | CRYSTAL |
| X1101 | TSSA121 | CRYSTAL |
| X2101 | 4730007158 | CRYSTAL |
| RESISTORS | | |
| | ERC12GK825 | SOLID 0.5W 10% 8M2 Ω |
| C101 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA26 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA27 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA28 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA3 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA36 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA37 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA39 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA25 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA45 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA15 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA44 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA22 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |

| Cct Ref | Parts Number | Description |
|---------|--------------|------------------------|
| JA2 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA47 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA16 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA55 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA14 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA13 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA12 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA11 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA10 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA17 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE12 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSM7 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSM14 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE42 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE4 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE35 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE33 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE3 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE26 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA52 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE18 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA48 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE10 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA9 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA60 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA58 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA57 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA38 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA54 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA1 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA49 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE22 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA40 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA31 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA1 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA8 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA21 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA5 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA23 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA51 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA30 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA2 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA32 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA33 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA34 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA35 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA50 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA43 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA46 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA29 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA56 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA53 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA59 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA61 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| R101 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| R102 | ERJ6GEYJ103 | S.M.CARB 0.1W 5% 10K Ω |
| R103 | ERJ6GEYJ222 | S.M.CARB 0.1W 5% 2K2 Ω |
| R104 | ERJ6GEYJ332 | S.M.CARB 0.1W 5% 3K3 Ω |
| R105 | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100 Ω |
| R106 | ERJ6GEYJ681 | S.M.CARB 0.1W 5% 680 Ω |
| R107 | ERJ6GEYJ102 | S.M.CARB 0.1W 5% 1K Ω |
| R111 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| R112 | ERJ6GEYJ101 | S.M.CARB 0.1W 5% 100 Ω |
| R113 | ERJ6GEYJ223 | S.M.CARB 0.1W 5% 22K Ω |
| R114 | ERJ6GEYJ331 | S.M.CARB 0.1W 5% 330 Ω |
| R115 | ERJ6GEYJ331 | S.M.CARB 0.1W 5% 330 Ω |

| Cct Ref | Parts Number | Description | | | | |
|---------|--------------|-------------|-------|-----|--------|---|
| R116 | ERJ6GEYJ562 | S.M.CARB | 0.1W | 5% | 5K6 Ω | |
| R117 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R118 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R121 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R251 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R252 | ERJ6GEYJ272 | S.M.CARB | 0.1W | 5% | 2K7 Ω | |
| R253 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R254 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R255 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R256 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R257 | ERJ6GEYJ151 | S.M.CARB | 0.1W | 5% | 150 Ω | |
| R258 | ERJ6GEYJ272 | S.M.CARB | 0.1W | 5% | 2K7 Ω | |
| R259 | ERJ6GEYJ151 | S.M.CARB | 0.1W | 5% | 150 Ω | |
| R260 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R261 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R262 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R263 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | |
| R264 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R265 | ERD25TJ2R2 | CARBON | 0.25W | 5% | 2R2 Ω | |
| R266 | ERD25TJ2R2 | CARBON | 0.25W | 5% | 2R2 Ω | |
| R267 | ERF7ZK4R7 | WOUND | 7W | 10% | 4R7 Ω | △ |
| R268 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R269 | ERQ14AJ101 | METAL | 0.25W | 5% | 100 Ω | △ |
| R271 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R272 | ERF7ZK4R7 | WOUND | 7W | 10% | 4R7 Ω | △ |
| R301 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R302 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R303 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R304 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω | |
| R305 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R306 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R307 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R308 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω | |
| R309 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R310 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R311 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R312 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω | |
| R351 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | 3K Ω | |
| R352 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | 3K Ω | |
| R353 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | 3K Ω | |
| R354 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R355 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R356 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R357 | ERDS1TJ114 | CARBON | 0.5W | 5% | 110K Ω | |
| R358 | ERDS1TJ114 | CARBON | 0.5W | 5% | 110K Ω | |
| R359 | ERDS1TJ114 | CARBON | 0.5W | 5% | 110K Ω | |
| R363 | ERD25TJ103 | CARBON | 0.25W | 5% | 10K Ω | |
| R364 | ERD25TJ103 | CARBON | 0.25W | 5% | 10K Ω | |
| R365 | ERD25TJ103 | CARBON | 0.25W | 5% | 10K Ω | |
| R366 | ERDS1TJ152 | CARBON | 0.5W | 5% | 1K5 Ω | |
| R367 | ERDS1TJ152 | CARBON | 0.5W | 5% | 1K5 Ω | |
| R368 | ERDS1TJ152 | CARBON | 0.5W | 5% | 1K5 Ω | |
| R369 | ERD25TJ472 | CARBON | 0.25W | 5% | 4K7 Ω | |
| R370 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R372 | ERQ12AJ121 | FUSIBLE | 0.5W | 5% | 120 Ω | △ |
| R373 | ERJ6GEYJ220 | S.M.CARB | 0.1W | 5% | 22 Ω | |
| R374 | ERD25TJ274 | CARBON | 0.25W | 5% | 270K Ω | |
| R375 | ERJ6GEYJ684 | S.M.CARB | 0.1W | 5% | 680K Ω | |
| R376 | ERJ6GEYJ183 | S.M.CARB | 0.1W | 5% | 18K Ω | |
| R377 | ERQ12HKR22 | FUSIBLE | 0.5W | 5% | R22 Ω | △ |
| R378 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R379 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R380 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R381 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | |
| R451 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R452 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |

| Cct Ref | Parts Number | Description | | | | |
|---------|--------------|-------------|-------|-----|--------|---|
| R453 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R454 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | |
| R455 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R456 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | |
| R457 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R458 | ERD25TJ1R5 | CARBON | 0.25W | 5% | 1R5 Ω | |
| R459 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R460 | ERDS1TJ331 | CARBON | 0.5W | 5% | 330 Ω | |
| R461 | ERW2PK1R2 | WOUND | 2W | 10% | 1R2 Ω | △ |
| R463 | ERD25TJ222 | CARBON | 0.25W | 5% | 2K2 Ω | |
| R464 | ERJ6GEYJ182 | S.M.CARB | 0.1W | 5% | 1K8 Ω | |
| R465 | ERJ6GEYJ681 | S.M.CARB | 0.1W | 5% | 680 Ω | |
| R502 | ERJ6GEYJ511 | S.M.CARB | 0.1W | 5% | 510 Ω | |
| R506 | ERD25TJ560 | CARBON | 0.25W | 5% | 56 Ω | |
| R507 | ERG2FJ470H | METAL | 2W | 5% | 47 Ω | △ |
| R509 | ERDS1TJ152 | CARBON | 0.5W | 5% | 1K5 Ω | |
| R510 | ERDS1FJ152 | CARBON | 0.5W | 5% | 1K5 Ω | △ |
| R555 | ERQ12HKR33 | METAL | 0.5W | 5% | R33 Ω | △ |
| R558 | ERDS1TJ124 | CARBON | 0.5W | 5% | 120K Ω | |
| R559 | ERQ12HKR33 | METAL | 0.5W | 5% | R33 Ω | △ |
| R560 | ERJ6GEYJ274 | S.M.CARB | 0.1W | 5% | 270K Ω | |
| R561 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω | |
| R563 | ERJ6GEYJ684 | S.M.CARB | 0.1W | 5% | 680K Ω | |
| R564 | ERJ6GEYJ623 | S.M.CARB | 0.1W | 5% | 62K Ω | |
| R566 | ERJ6GEYJ563 | S.M.CARB | 0.1W | 5% | 56K Ω | |
| R567 | ERF7ZK1R0 | WOUND | 7W | 10% | 1 Ω | △ |
| R580 | ERG1SJ101 | METAL | 1W | 5% | 100 Ω | |
| R581 | ERG1SJ152 | METAL | 1W | 5% | 1K5 Ω | |
| R582 | ERG3FJ102H | METAL | 3W | 5% | 1K Ω | △ |
| R601 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R602 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω | |
| R603 | ERJ8GEYJ103 | S.M.CARB | .125W | 5% | 10K Ω | |
| R604 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R605 | ERD25TJ331 | CARBON | 0.25W | 5% | 330 Ω | |
| R606 | ERD25TJ331 | CARBON | 0.25W | 5% | 330 Ω | |
| R607 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω | |
| R608 | ERJ6GEYJ271 | S.M.CARB | 0.1W | 5% | 270 Ω | |
| R609 | ERJ6GEYJ122 | S.M.CARB | 0.1W | 5% | 1K2 Ω | |
| R610 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R611 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R612 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R613 | ERJ6GEYJ152 | S.M.CARB | 0.1W | 5% | 1K5 Ω | |
| R622 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R636 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R645 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R647 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R648 | ERJ6GEYJ152 | S.M.CARB | 0.1W | 5% | 1K5 Ω | |
| R650 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R651 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R652 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R654 | ERJ6GEYJ622 | S.M.CARB | 0.1W | 5% | 6K2 Ω | |
| R655 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R658 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω | |
| R659 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R660 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R701 | ERQ12AJ101 | FUSIBLE | 0.5W | 5% | 100 Ω | △ |
| R702 | ERQ12HJ330 | FUSIBLE | 0.5W | 5% | 33 Ω | △ |
| R703 | ERG2FJ821 | METAL | 2W | 5% | 820 Ω | △ |
| R704 | ERJ6GEYJ563 | S.M.CARB | 0.1W | 5% | 56K Ω | |
| R705 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | |
| R706 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R707 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R708 | ERJ6GEYJ393 | S.M.CARB | 0.1W | 5% | 39K Ω | |
| R709 | ERJ6GEYJ393 | S.M.CARB | 0.1W | 5% | 39K Ω | |
| R710 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω | |
| R711 | ERG1SJ101 | METAL | 1W | 5% | 100 Ω | |

| Cct Ref | Parts Number | Description | | | | |
|---------|--------------|-------------|-------|-----|--------|---|
| R712 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R801 | ERC12ZGK335D | SOLID | 0.5W | 10% | 3M3 Ω | |
| R803 | ERC12ZGK335D | SOLID | 0.5W | 10% | 3M3 Ω | |
| R805 | ERD25TJ473 | CARBON | 0.25W | 5% | 47K Ω | |
| R806 | ERD25TJ100 | CARBON | 0.25W | 5% | 10 Ω | |
| R807 | ERD25TJ332 | CARBON | 0.25W | 5% | 3K3 Ω | |
| R809 | ERD25TJ681 | CARBON | 0.25W | 5% | 680 Ω | |
| R810 | ERW2PKR27 | WOUND | 2W | 10% | R27 Ω | △ |
| R811 | ERW2PKR27 | WOUND | 2W | 10% | R27 Ω | △ |
| R812 | ERD75TAJ825 | CARBON | 0.75W | 5% | 8M2 Ω | △ |
| R813 | ERF7ZK2R7 | WOUND | 7W | 20% | 2R7 Ω | △ |
| R814 | ERD25TJ473 | CARBON | 0.25W | 5% | 47K Ω | |
| R815 | ERD25TJ222 | CARBON | 0.25W | 5% | 2K2 Ω | |
| R850 | ERD25TJ122 | CARBON | 0.25W | 5% | 1K2 Ω | |
| R852 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R853 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R854 | ERG2FJ223 | METAL | 2W | 5% | 22K Ω | △ |
| R855 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | |
| R857 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | |
| R858 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | |
| R859 | ERJ6GEYJ753 | S.M.CARB | 0.1W | 5% | 75K Ω | |
| R860 | ERQ1CJP2R2 | FUSIBLE | 1W | 10% | 2R2 Ω | △ |
| R861 | ERD25TJ221 | CARBON | 0.25W | 5% | 220 Ω | |
| R862 | ERD25TJ272 | CARBON | 0.25W | 5% | 2K7 Ω | |
| R863 | ERDS1TJ560 | CARBON | 0.5W | 5% | 56 Ω | |
| R864 | ERDS1TJ680 | CARBON | 0.5W | 5% | 68 Ω | |
| R865 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R867 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R868 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R869 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R870 | ERJ6GEYJ272 | S.M.CARB | 0.1W | 5% | 2K7 Ω | |
| R871 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω | |
| R872 | ERG1SJ183 | METAL | 1W | 5% | 18K Ω | |
| R873 | ERG1SJ223 | METAL | 1W | 5% | 22K Ω | |
| R874 | ERD25TJ104 | CARBON | 0.25W | 5% | 100K Ω | |
| R876 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R877 | ERW2PKR47 | WOUND | 2W | 10% | R47 Ω | △ |
| R878 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | |
| R913 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | |
| R914 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 Ω | |
| R915 | ERJ6GEYJ152 | S.M.CARB | 0.1W | 5% | 1K5 Ω | |
| R916 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R919 | ERQ14AJW390 | FUSIBLE | 0.25W | 5% | 39 Ω | △ |
| R920 | ERQ14AJW390 | FUSIBLE | 0.25W | 5% | 39 Ω | △ |
| R921 | ERD25TJ471 | CARBON | 0.25W | 5% | 470 Ω | |
| R922 | ERD25TJ393 | CARBON | 0.25W | 5% | 39K Ω | |
| R923 | ERD25TJ393 | CARBON | 0.25W | 5% | 39K Ω | |
| R924 | ERDS1FJ390 | CARBON | 0.5W | 5% | 39 Ω | △ |
| R925 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R926 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R927 | ERD25TJ471 | CARBON | 0.25W | 5% | 470 Ω | |
| R928 | ERD25TJ5R6 | CARBON | 0.25W | 5% | 5R6 Ω | |
| R929 | ERDS1FJ471 | CARBON | 0.5W | 5% | 470 Ω | △ |
| R930 | ERD25TJ5R6 | CARBON | 0.25W | 5% | 5R6 Ω | |
| R931 | ERDS1FJ390 | CARBON | 0.5W | 5% | 39 Ω | △ |
| R935 | ERQ14AJW3R9 | FUSIBLE | 0.25W | 5% | 3R9 Ω | △ |
| R936 | ERQ1CJP331 | FUSIBLE | 1W | 5% | 330 Ω | △ |
| R951 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R952 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R953 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R954 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R1051 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R1062 | ERJ6GEYJ271 | S.M.CARB | 0.1W | 5% | 270 Ω | |
| R1063 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1101 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1102 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |

| Cct Ref | Parts Number | Description | | | | |
|---------|--------------|-------------|------|----|--------|--|
| R1103 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω | |
| R1104 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω | |
| R1105 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1106 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | |
| R1107 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | |
| R1108 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R1109 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1110 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1111 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | |
| R1112 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | |
| R1113 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1114 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1115 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1116 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1117 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1118 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1119 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1120 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1121 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1123 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1125 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1126 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1127 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1128 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω | |
| R1129 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω | |
| R1130 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1131 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1132 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1133 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω | |
| R1136 | ERJ6GEYJ823 | S.M.CARB | 0.1W | 5% | 82K Ω | |
| R1137 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1138 | ERJ6GEYJ474 | S.M.CARB | 0.1W | 5% | 470K Ω | |
| R1139 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1140 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1141 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1145 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1146 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1147 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1148 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1149 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R1151 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1152 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1156 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1157 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1158 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1159 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1160 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R1161 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1163 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1164 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1165 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1167 | ERJ6GEYJ100 | S.M.CARB | 0.1W | 5% | 10 Ω | |
| R1168 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | |
| R1169 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1170 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω | |
| R1171 | ERJ6GEYJ224 | S.M.CARB | 0.1W | 5% | 220K Ω | |
| R1172 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R1173 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | |
| R1174 | ERJ6GEYJ221 | S.M.CARB | 0.1W | 5% | 220 Ω | |
| R1175 | ERJ6GEYJ225 | S.M.CARB | 0.1W | 5% | 2M2 Ω | |
| R1177 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1178 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1251 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R1252 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R1253 | ERJ6GEYJ332 | S.M.CARB | 0.1W | 5% | 3K3 Ω | |
| R1254 | ERJ6GEYJ512 | S.M.CARB | 0.1W | 5% | 5K1 Ω | |

| Cct Ref | Parts Number | Description | | | | |
|---------|--------------|-------------|------|----|--------|---|
| R1255 | ERJ6GEYJ912 | S.M.CARB | 0.1W | 5% | 9K1 Ω | |
| R1900 | ERQ12HJ150 | FUSIBLE | 0.1W | 5% | 15 Ω | △ |
| R1901 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω | |
| R1902 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1903 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1904 | ERDS1TJ6R8 | CARBON | 0.5W | 5% | 6R8 Ω | |
| R1905 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | |
| R1906 | ERJ6GEYJ513 | S.M.CARB | 0.1W | 5% | 51K Ω | |
| R1907 | ERJ6GEYJ753 | S.M.CARB | 0.1W | 5% | 75K Ω | |
| R1908 | ERJ6GEYJ753 | S.M.CARB | 0.1W | 5% | 75K Ω | |
| R1909 | ERDS1TJ6R8 | CARBON | 0.5W | 5% | 6R8 Ω | |
| R2101 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R2102 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R2103 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R2104 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R2105 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R2106 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R2107 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R2108 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R2109 | ERJ6GEYJ183 | S.M.CARB | 0.1W | 5% | 18K Ω | |
| R2110 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R2111 | ERJ6GEYJ221 | S.M.CARB | 0.1W | 5% | 220 Ω | |
| R2112 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R2113 | ERJ6GEYJ562 | S.M.CARB | 0.1W | 5% | 5K6 Ω | |
| R2114 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R2115 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R2116 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R2117 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R2118 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R2119 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R2120 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R2305 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R2311 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R3001 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3002 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R3003 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3004 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω | |
| R3005 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3006 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R3007 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3008 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω | |
| R3009 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R3010 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R3011 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R3012 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R3013 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3014 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R3015 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3016 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω | |
| R3017 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3018 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R3019 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3020 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω | |
| R3021 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R3022 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R3023 | ERJ6GEYJ123 | S.M.CARB | 0.1W | 5% | 12K Ω | |
| R3024 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R3025 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R3026 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R3044 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R3046 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3047 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3048 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R3049 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3050 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R3057 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |

| Cct Ref | Parts Number | Description | | | | |
|-------------------|--------------|-------------|------|----|--------|---|
| R3202 | ERDS1TJ151 | CARBON | 0.5W | 5% | 150 Ω | |
| R3203 | ERDS1TJ151 | CARBON | 0.5W | 5% | 150 Ω | |
| R3204 | ERG2FJ221 | METAL | 2W | 5% | 220 Ω | △ |
| R3205 | ERG2FJ221 | METAL | 2W | 5% | 220 Ω | △ |
| R3207 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3208 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω | |
| R3209 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3210 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω | |
| R3211 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R3212 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R3213 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R3214 | ERJ6GEYJ683 | S.M.CARB | 0.1W | 5% | 68K Ω | |
| R3215 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | 3K Ω | |
| R3216 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R3217 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R3218 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R3219 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R3220 | ERJ6GEYJ683 | S.M.CARB | 0.1W | 5% | 68K Ω | |
| R3221 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | 3K Ω | |
| R3222 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R3223 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R3224 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R3225 | ERJ6GEYJ683 | S.M.CARB | 0.1W | 5% | 68K Ω | |
| R3226 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | 3K Ω | |
| R3227 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R3228 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω | |
| R3229 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R3230 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | 3K Ω | |
| R3231 | ERJ6GEYJ122 | S.M.CARB | 0.1W | 5% | 1K2 Ω | |
| R3232 | ERJ6GEYJ242 | S.M.CARB | 0.1W | 5% | 2K4 Ω | |
| R3233 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R3234 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R3402 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R3403 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3404 | ERJ6GEYJ242 | S.M.CARB | 0.1W | 5% | 2K4 Ω | |
| R3405 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | |
| R3406 | ERJ6GEYJ301 | S.M.CARB | 0.1W | 5% | 300 Ω | |
| R3407 | ERJ6GEYJ123 | S.M.CARB | 0.1W | 5% | 12K Ω | |
| R3408 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R3409 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R3601 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3602 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3603 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3604 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3605 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3606 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R3607 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R3608 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | |
| R3609 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R3610 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R3613 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R3614 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| CAPACITORS | | | | | | |
| C102 | ECJ2VF1H103Z | ELECT | 350V | | 10nF | |
| C103 | ECJ2VF1H104Z | ELECT | 350V | | 100nF | |
| C106 | ECUV1H560JCX | S.M. CAP | 50V | | 56pF | |
| C107 | ECJ2VF1H104Z | ELECT | 350V | | 100nF | |
| C108 | ECA1CM100GB | ELECT | 16V | | 10μF | |
| C109 | ECUV1H102JCX | S.M. CAP | 50V | | 1nF | |
| C110 | ECJ2VF1H103Z | ELECT | 350V | | 10nF | |
| C111 | ECA1HMR33GB | ELECT | 50V | | 10nF | |
| C117 | ECJ2VF1H103Z | ELECT | 350V | | 10nF | |
| C118 | ECJ2VF1H104Z | ELECT | 350V | | 100nF | |
| C119 | ECA1CM221GB | ELECT | 16V | | 220μF | |
| C120 | ECA1CM221GB | ELECT | 16V | | 220μF | |
| C121 | ECUV1H561KBX | S.M. CAP | 50V | | 560pF | |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|-------|---|
| C124 | ECUV1H220JCX | S.M. CAP | 50V | 22pF | |
| C125 | ECUV1H100DCX | S.M. CAP | 50V | 10pF | |
| C251 | ECA1HM220GB | ELECT | 50V | 22µF | |
| C252 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C253 | ECA1HM4R7GB | ELECT | 50V | 4.7µF | |
| C254 | ECQM1H474J | FILM | 50V | 470nF | |
| C255 | ECA1EM101GB | ELECT | 25V | 100µF | |
| C256 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C257 | ECA1HM4R7GB | ELECT | 50V | 4.7µF | |
| C258 | ECA1HM220GB | ELECT | 50V | 22µF | |
| C259 | ECQM1H474J | FILM | 50V | 470nF | |
| C260 | ECA1VM102GB | ELECT | 35V | 1nF | |
| C261 | ECA1VM102GB | ELECT | 35V | 1nF | |
| C262 | ECQM1H224J | FILM | 50V | 220nF | |
| C263 | ECA1HM010GB | ELECT | 50V | 1µF | |
| C264 | ECA1HHG222E | ELECT | 50V | 1µF | |
| C265 | ECQM1H224J | FILM | 50V | 220nF | |
| C266 | ECA1HM010GB | ELECT | 50V | 1µF | |
| C267 | ECJ2VB1H104K | ELECT | 350V | 100nF | |
| C268 | ECJ2VB1H104K | ELECT | 350V | 100nF | |
| C270 | ECJ2VB1H104K | ELECT | 350V | 100nF | |
| C301 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C302 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C303 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C304 | ECA1CM100GB | ELECT | 16V | 10µF | |
| C351 | ECUV1H090DCN | S.M. CAP | 50V | 90pF | |
| C352 | ECUV1H090DCN | S.M. CAP | 50V | 90pF | |
| C353 | ECUV1H090DCN | S.M. CAP | 50V | 90pF | |
| C354 | ECQM2104KZ | FILM | 250V | 100nF | |
| C355 | ECUV1H471JCX | S.M. CAP | 50V | 470pF | |
| C356 | ECUV1H471JCX | S.M. CAP | 50V | 470pF | |
| C357 | ECUV1H471JCX | S.M. CAP | 50V | 470pF | |
| C358 | ECQM1H224J | FILM | 50V | 220nF | |
| C360 | ECKC3D152J | CERAMIC | 2KV | 1.5nF | △ |
| C361 | ECA1HMR47GB | ELECT | 50V | 1.5nF | |
| C363 | ECA1VM471GB | ELECT | 35V | 470µF | |
| C364 | ECJ2VF1H103Z | ELECT | 350V | 10nF | |
| C366 | ECA1CM100GB | ELECT | 16V | 10µF | |
| C451 | ECUV1H102JX | S.M. CAP | 50V | 1nF | |
| C453 | ECUV1H152KBX | S.M. CAP | 50V | 1.5pF | |
| C454 | ECUV1H223KBM | S.M. CAP | 50V | 22nF | |
| C455 | ECA1HM100GB | ELECT | 50V | 10µF | |
| C456 | ECA1HHG221B | ELECT | 50V | 220µF | |
| C458 | ECQB1222JF3 | FILM | 100V | 2.2nF | |
| C459 | 222236516154 | FILM | 160V | 150nF | |
| C461 | ECCR2H270J | CERAMIC | 500V | 27pF | |
| C508 | ECQV1H105JZ | FILM | 50V | 1µF | |
| C509 | ECA1VM470B | ELECT | 35V | 47µF | |
| C510 | ECUV1H104KBX | S.M. CAP | 50V | 100nF | |
| C511 | ECQM2683JZ | FILM | 250V | 68nF | |
| C551 | 222237544182 | FILM | 440V | 1.8nF | |
| C552 | ECWH15H102JN | FILM | 1500V | 1nF | |
| C556 | ECQF6303JZ | FILM | 630V | 1nF | |
| C557 | ECKC2H471J | CERAMIC | 500V | 470pF | △ |
| C558 | ECA1HHG471E | ELECT | 50V | 470µF | |
| C561 | ECA1EHG102B | ELECT | 25V | 470µF | |
| C562 | ECKC2H101J | CERAMIC | 500V | 100pF | △ |
| C563 | ECA2EHG220B | ELECT | 250V | 20µF | |
| C564 | ECEA2AU2R2 | ELECT | 100V | 2.2µF | |
| C565 | ECQP1H273J | FILM | 100V | 2.2µF | |
| C566 | ECKC2H471J | CERAMIC | 500V | 470pF | △ |
| C567 | ECA1EHG102B | ELECT | 25V | 470pF | |
| C568 | ECKC2H471J | CERAMIC | 500V | 470pF | △ |
| C569 | ECKC2H102J | CERAMIC | 500V | 1nF | △ |
| C580 | ECA2VM010B | ELECT | 63V | 1µF | |
| C581 | ECWF2H125J | FILM | 500V | 1.2µF | △ |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|-------|---|
| C582 | ECWF2H684J | FILM | 500V | 680nF | △ |
| C583 | ECWH15H822JN | FILM | 1500V | 8.2nF | |
| C584 | TAC4R6T682JC | CERAMIC | 400V | 6.8µF | |
| C601 | ECUV1H104KBX | S.M. CAP | 50V | 100nF | |
| C602 | ECA1HM101GB | ELECT | 50V | 100µF | |
| C603 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C604 | ECJ2VF1H223Z | ELECT | 350V | 22nF | |
| C605 | ECA1HM101GB | ELECT | 50V | 100µF | |
| C606 | ECA1HM3R3GB | ELECT | 50V | 3.3µF | |
| C607 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C608 | ECUV1H153KBX | S.M. CAP | 50V | 15nF | |
| C609 | ECUV1H153KBX | S.M. CAP | 50V | 15nF | |
| C610 | ECUV1H153KBX | S.M. CAP | 50V | 15nF | |
| C611 | ECUV1H153KBX | S.M. CAP | 50V | 15nF | |
| C612 | ECUV1H153KBX | S.M. CAP | 50V | 15nF | |
| C613 | ECUV1H153KBX | S.M. CAP | 50V | 15nF | |
| C614 | ECUV1H050CCX | S.M. CAP | 50V | 50pF | |
| C615 | ECUV1H050CCX | S.M. CAP | 50V | 50pF | |
| C616 | ECA1HM101GB | ELECT | 50V | 100µF | |
| C617 | ECUV1H223KBX | S.M. CAP | 50V | 22nF | |
| C618 | ECA1CM221GB | ELECT | 16V | 220µF | |
| C619 | ECJ2VB1H473K | ELECT | 350V | 47nF | |
| C620 | ECA1HM101GB | ELECT | 50V | 100µF | |
| C621 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C622 | ECUV1H683KBX | S.M. CAP | 50V | 68nF | |
| C623 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C624 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C625 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C626 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C627 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C628 | ECA1CM100GB | ELECT | 16V | 10µF | |
| C629 | ECUV1H104KBX | S.M. CAP | 50V | 100nF | |
| C630 | ECUV1H100DCX | S.M. CAP | 50V | 10pF | |
| C631 | ECUV1H683ZFX | S.M. CAP | 50V | 68nF | |
| C632 | ECUV1H270JCX | S.M. CAP | 50V | 27pF | |
| C633 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C634 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C635 | ECUV1H180JCX | S.M. CAP | 50V | 18pF | |
| C636 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C637 | ECUV1H101JCX | S.M. CAP | 50V | 100pF | |
| C638 | ECUV1H471JCX | S.M. CAP | 50V | 470pF | |
| C639 | ECUV1H332KBM | S.M. CAP | 50V | 3.3nF | |
| C701 | ECA1HHG101B | ELECT | 50V | 100µF | |
| C702 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C703 | ECEA1HGE100 | ELECT | 50V | 10µF | |
| C704 | ECQB1H223K | FILM | 50V | 22nF | |
| C705 | ECQB1H152K | FILM | 50V | 1.5nF | |
| C801 | 222233510224 | FILM | 50V | 220nF | |
| C804 | ECQE2A474MWB | FILM | 100V | 470nF | |
| C806 | ECKWNA101MBC | CERAMIC | 400V | 100µF | |
| C807 | ECKC2H472J | CERAMIC | 500V | 4.7nF | △ |
| C808 | ECKC2H472J | CERAMIC | 500V | 4.7nF | △ |
| C809 | ECKC2H472J | CERAMIC | 500V | 4.7nF | △ |
| C810 | ECKC2H472J | CERAMIC | 500V | 4.7nF | △ |
| C811 | ECOS2GA221CA | ELECT | 400V | 220µF | |
| C814 | ECKC3D102J | CERAMIC | 2KV | 1nF | △ |
| C815 | ECKC1H471J | CERAMIC | 50V | 470pF | |
| C816 | EUFC1E820B | CERAMIC | 25V | 82pF | |
| C817 | ECQE6104K | FILM | 600V | 100nF | △ |
| C818 | ECKWNA332MEC | CERAMIC | 250V | 3.3nF | |
| C819 | ECQB1H182K | FILM | 50V | 1.8nF | |
| C850 | ECKC3D471JB | CERAMIC | 2KV | 470pF | △ |
| C851 | ECA2CM221E | ELECT | 160V | 220µF | |
| C852 | ECA2CHG101E | ELECT | 160V | 100µF | |
| C853 | ECKC2H471J | CERAMIC | 500V | 470pF | △ |
| C854 | ECA1EM102GB | ELECT | 25V | 100µF | |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|-------|---|
| C855 | ECKC2H471J | CERAMIC | 500V | 470pF | △ |
| C856 | ECA1AHG222B | ELECT | 10V | 470pF | |
| C857 | ECKC2H471J | CERAMIC | 500V | 470pF | △ |
| C858 | ECEA1HGE102 | ELECT | 50V | 470pF | |
| C859 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C860 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C862 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C863 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C866 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C867 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C868 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C869 | ECA1EM101GB | ELECT | 25V | 100μF | |
| C870 | ECA1EM471GB | ELECT | 25V | 470μF | |
| C871 | ECA1CM102B | ELECT | 16V | 470μF | |
| C872 | ECA1CM471GB | ELECT | 16V | 470μF | |
| C873 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C875 | ECA2CM4R7B | ELECT | 160V | 10μF | |
| C876 | ECA1AHG471E | ELECT | 10V | 470pF | |
| C902 | ECA1VM101GB | ELECT | 35V | 100μF | |
| C903 | ECUV1H472KBX | S.M. CAP | 50V | 4.7nF | |
| C904 | ECUV1H472KBX | S.M. CAP | 50V | 4.7nF | |
| C906 | ECUV1H471KBX | S.M. CAP | 50V | 470pF | |
| C908 | ECUV1H151JCX | S.M. CAP | 50V | 150pF | |
| C909 | ECKC2H472J | CERAMIC | 500V | 4.7nF | △ |
| C910 | ECKC2H472J | CERAMIC | 500V | 4.7nF | △ |
| C911 | ECUV1H151JCX | S.M. CAP | 50V | 150pF | |
| C912 | ECEA2CU100 | ELECT | 160V | 10μF | |
| C913 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C914 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C916 | ECEA2CGE100 | ELECT | 160V | 10μF | |
| C950 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1061 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1062 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C1063 | ECUV1H331JCX | S.M. CAP | 50V | 330pF | |
| C1101 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C1102 | ECA0JM101G | ELECT | 6.3V | 100μF | |
| C1103 | ECUV1H220JCX | S.M. CAP | 50V | 22pF | |
| C1104 | ECUV1H220JCX | S.M. CAP | 50V | 22pF | |
| C1105 | ECUV1H101JCX | S.M. CAP | 50V | 100pF | |
| C1106 | ECKC2H681J | CERAMIC | 500V | 680pF | △ |
| C1108 | ECJ2VB1H333K | ELECT | 350V | 33nF | |
| C1111 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C1112 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1115 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C1116 | ECUV1H472KBX | S.M. CAP | 50V | 4.7nF | |
| C1117 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C1118 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1119 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C1120 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C1121 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C1123 | ECUV1H101JCX | S.M. CAP | 50V | 100pF | |
| C1124 | ECUV1H391JCX | S.M. CAP | 50V | 390pF | |
| C1125 | ECUV1H391JCX | S.M. CAP | 50V | 390pF | |
| C1126 | ECUV1H391JCX | S.M. CAP | 50V | 390pF | |
| C1127 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C1128 | ECUV1H223KBX | S.M. CAP | 50V | 22nF | |
| C1129 | ECUV1H270JCX | S.M. CAP | 50V | 27pF | |
| C1900 | ECQB1H153K | FILM | 50V | 15nF | |
| C1901 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1903 | ECA1EM470GB | ELECT | 25V | 47μF | |
| C1904 | ECQB1H104J | FILM | 50V | 100nF | |
| C1905 | ECQB1H104J | FILM | 50V | 100nF | |
| C1909 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C2101 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2102 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2103 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|-------|--|
| C2104 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2105 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2106 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2107 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2108 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2109 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2110 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2111 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C2112 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C2113 | ECA1HM3R3GB | ELECT | 50V | 3.3μF | |
| C2114 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C2115 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C2116 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C2117 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C2118 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C2119 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C2120 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C2121 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C2122 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C2123 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C2124 | ECUV1H070DTX | S.M. CAP | 50V | 70pF | |
| C2125 | ECUV1H470JCX | S.M. CAP | 50V | 47pF | |
| C2126 | ECUV1H070DTX | S.M. CAP | 50V | 70pF | |
| C2127 | ECUV1H010CCX | S.M. CAP | 50V | 1pF | |
| C2128 | ECUV1H010CCX | S.M. CAP | 50V | 1pF | |
| C2129 | ECA1CM102B | ELECT | 16V | 1pF | |
| C2130 | ECA1CM331B | ELECT | 16V | 330μF | |
| C2131 | ECJ2VF1H103Z | ELECT | 350V | 10nF | |
| C2132 | ECJ2VF1H103Z | ELECT | 350V | 10nF | |
| C2134 | ECJ2VF1H103Z | ELECT | 350V | 10nF | |
| C2135 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C2136 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C2137 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C2138 | ECUV1H471KBX | S.M. CAP | 50V | 470pF | |
| C2139 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C2140 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C2141 | ECUV1H152JCX | S.M. CAP | 50V | 1.5pF | |
| C3001 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3002 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3003 | ECA1CM470GB | ELECT | 16V | 47μF | |
| C3005 | ECUV1H561JCX | S.M. CAP | 50V | 560pF | |
| C3006 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C3007 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3008 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3009 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3010 | ECA1CM470GB | ELECT | 16V | 47μF | |
| C3012 | ECUV1H561JCX | S.M. CAP | 50V | 560pF | |
| C3013 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C3014 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3015 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3016 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3017 | ECA1CM470GB | ELECT | 16V | 47μF | |
| C3019 | ECUV1H561JCX | S.M. CAP | 50V | 560pF | |
| C3020 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C3021 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3022 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3023 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3024 | ECA1CM470GB | ELECT | 16V | 47μF | |
| C3026 | ECUV1H561JCX | S.M. CAP | 50V | 560pF | |
| C3027 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C3028 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3029 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C3032 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C3033 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C3034 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C3035 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |

| Cct Ref | Parts Number | Description | | |
|----------------------------|--------------|----------------------|------|-------|
| C3101 | ECUV1H104KBX | S.M. CAP | 50V | 100nF |
| C3102 | ECUV1E104KBX | S.M. CAP | 25V | 100nF |
| C3111 | ECUV1H391JCX | S.M. CAP | 50V | 390pF |
| C3112 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3201 | ECUV1H103KBX | S.M. CAP | 50V | 10nF |
| C3202 | ECUV1H103KBX | S.M. CAP | 50V | 10nF |
| C3203 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3204 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3205 | ECA1HM470GB | ELECT | 50V | 47µF |
| C3206 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3207 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3208 | ECA1HM470GB | ELECT | 50V | 47µF |
| C3209 | ECUV1H103KBX | S.M. CAP | 50V | 10nF |
| C3210 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C3211 | ECUV1H103KBX | S.M. CAP | 50V | 10nF |
| C3212 | ECUV1H103KBX | S.M. CAP | 50V | 10nF |
| C3213 | ECUV1H103KBX | S.M. CAP | 50V | 10nF |
| C3214 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C3215 | ECUV1H103KBX | S.M. CAP | 50V | 10nF |
| C3216 | ECA1CM330GB | ELECT | 16V | 33pF |
| C3217 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C3221 | ECA1HM4R7GB | ELECT | 50V | 4.7µF |
| C3401 | ECQM1H224J | FILM | 50V | 220nF |
| C3402 | ECUV1H101JCX | S.M. CAP | 50V | 100pF |
| C3403 | ECA1HM101GB | ELECT | 50V | 100µF |
| C3404 | ECQM1H224J | FILM | 50V | 220nF |
| C3405 | ECUV1H180JCX | S.M. CAP | 50V | 18pF |
| C3406 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3407 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3408 | ECA1HM101GB | ELECT | 50V | 100µF |
| C3601 | ECA1HM101GB | ELECT | 50V | 100µF |
| JSE28 | ECUV1H104KBX | S.M. CAP | 50V | 100nF |
| TERMINALS AND LINKS | | | | |
| JK2301 | JPJ841101320 | RCA / HEADPHONE JACK | | |
| JK3201 | TJB16656 | A.V. TERMINAL | | |
| SWITCHES | | | | |
| S802 | ESB92S11B | SWITCH | | |
| S1251 | EVQ23405R | SWITCH | | |
| S1252 | EVQ23405R | SWITCH | | |
| S1253 | EVQ23405R | SWITCH | | |
| S1254 | EVQ23405R | SWITCH | | |
| S1255 | EVQ23405R | SWITCH | | |


| Cct Ref | Parts Number | Description |
|---------|--------------|-------------|
|---------|--------------|-------------|

SCHEMATIC DIAGRAMS FOR MODEL

TX-W32R4

(EURO-4 CHASSIS)

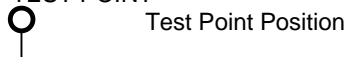
IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

NOTE

1. RESISTOR
All resistors are carbon ¼W resistor, unless marked otherwise.
Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)
2. CAPACITORS
All capacitors are ceramic 50V unless marked otherwise.
Unit of capacitance is μ F unless otherwise stated.
3. COIL
Unit of inductance is μ H, unless otherwise stated.

4. TEST POINT



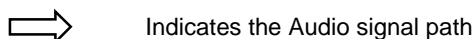
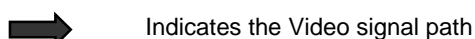
5. EARTH SYMBOL



6. VOLTAGE MEASUREMENT

Voltage is measured by a d.c. voltmeter.
Measurement conditions are as follows:
Power source a.c. 220V-240V, 50Hz
Receiving Signal Colour Bar signal (RF)
All customer controls Maximum position

- 7.



These schematic diagrams are the latest at time of printing and are subject to change without notice.

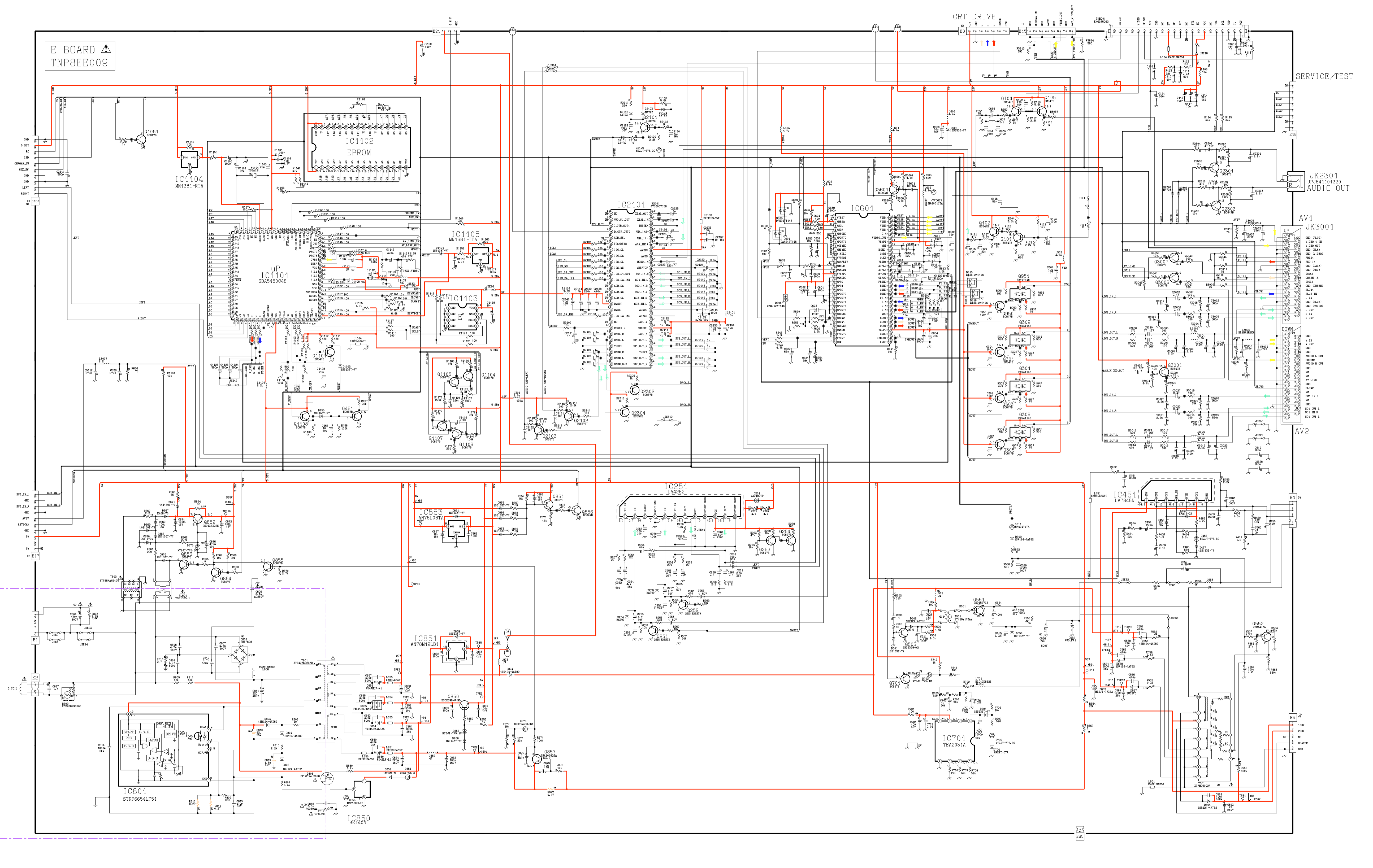
REMARKS

- a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

NOTE

1. The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.

E BOARD
TNP8EE009



SERVICE / TEST

JK2301
SP384101320
AUDIO OUT

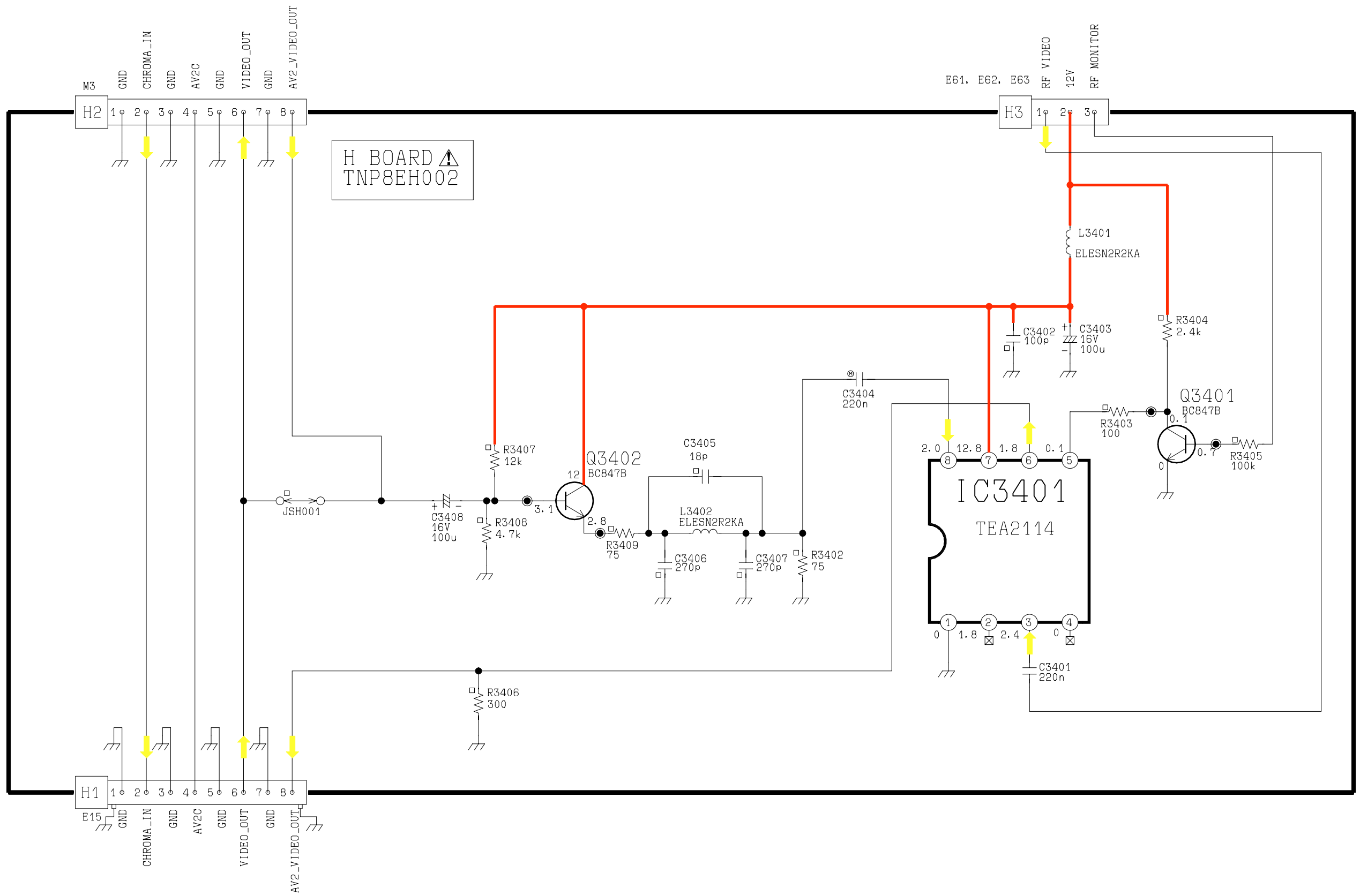
AV1
JK3001

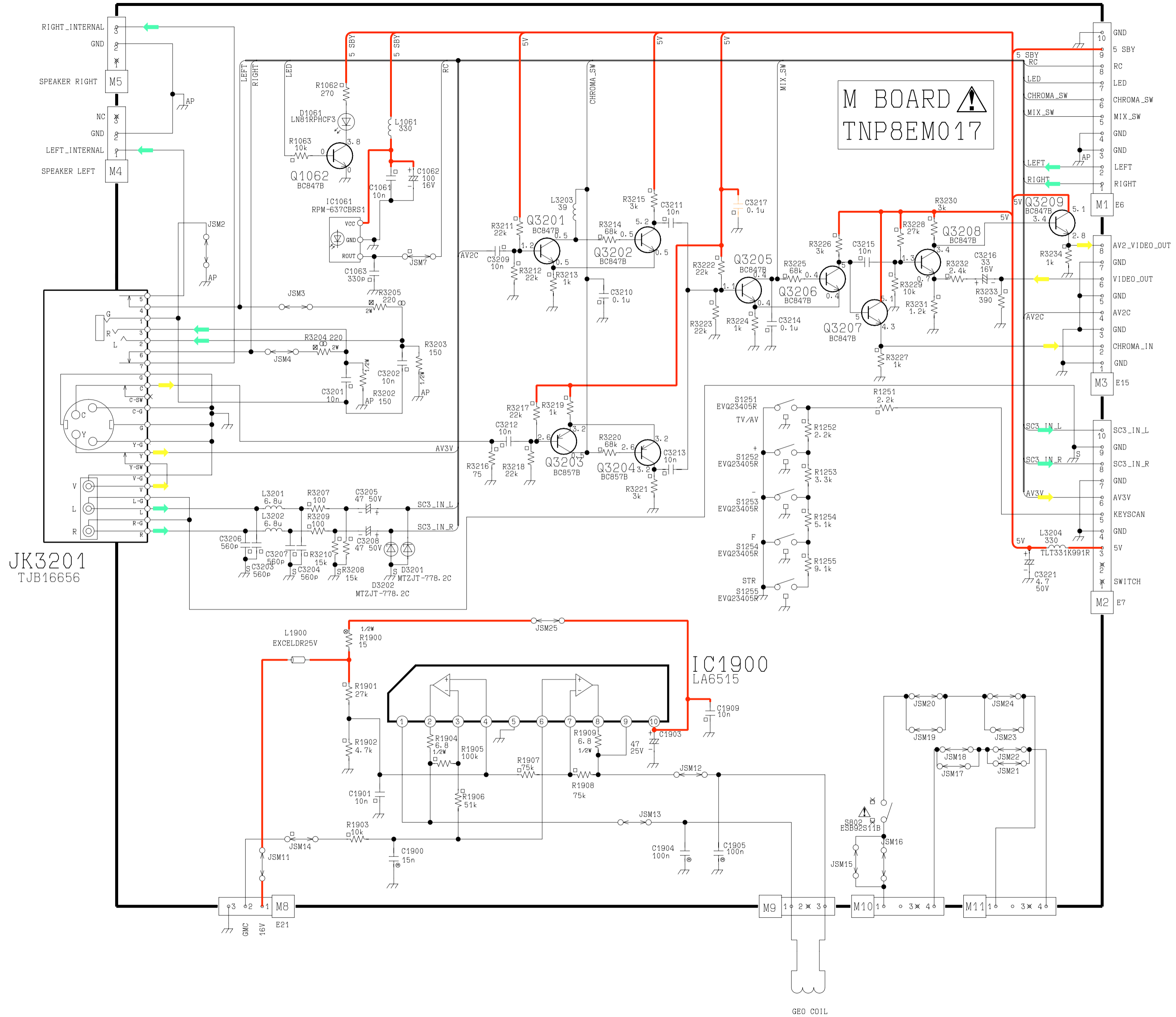
AV2


CRT DRIVE

E4 2V

E3 5V
150V
HEATER



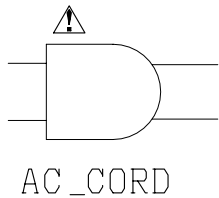


M BOARD 
TNP8EM017

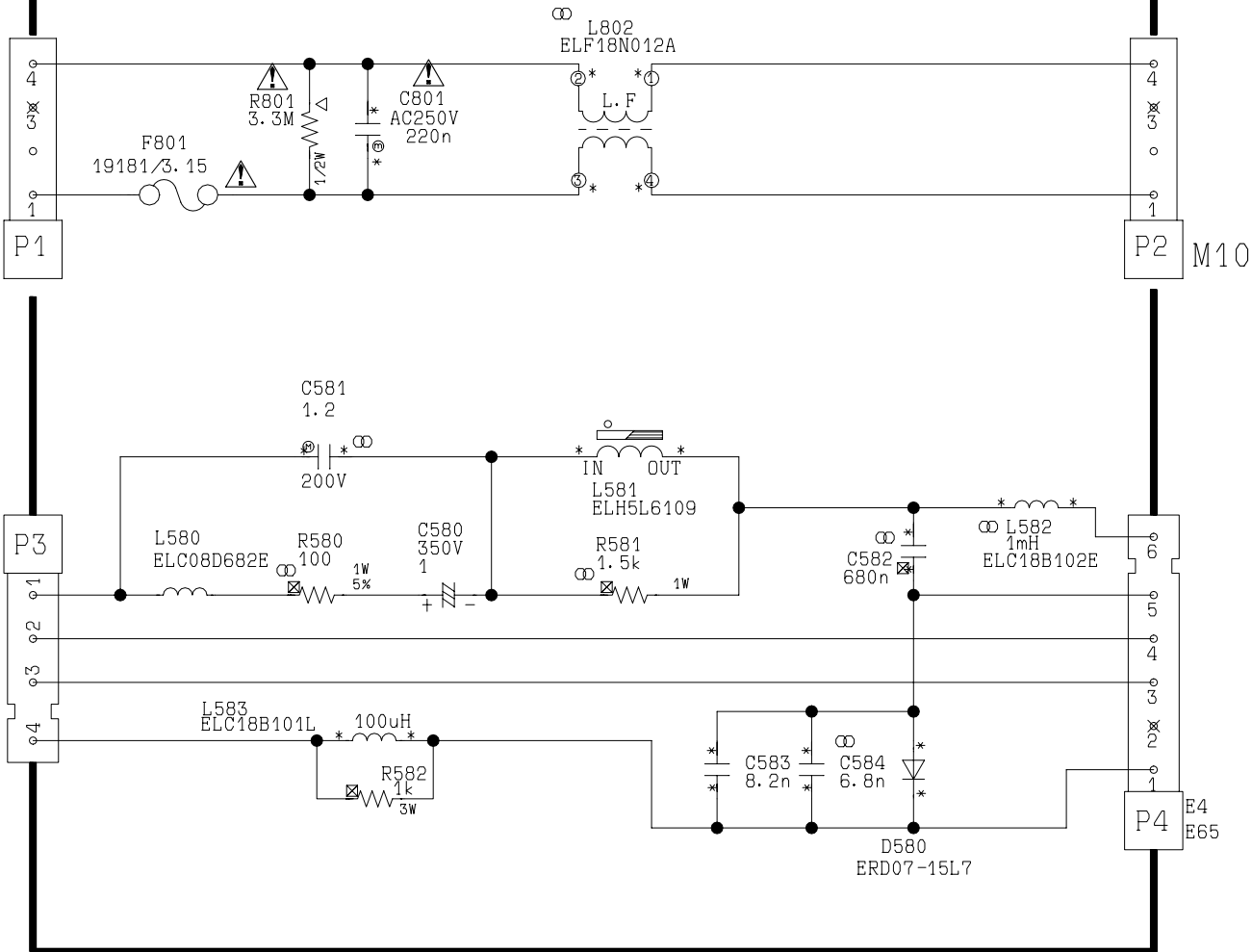
JK3201
TJB16656

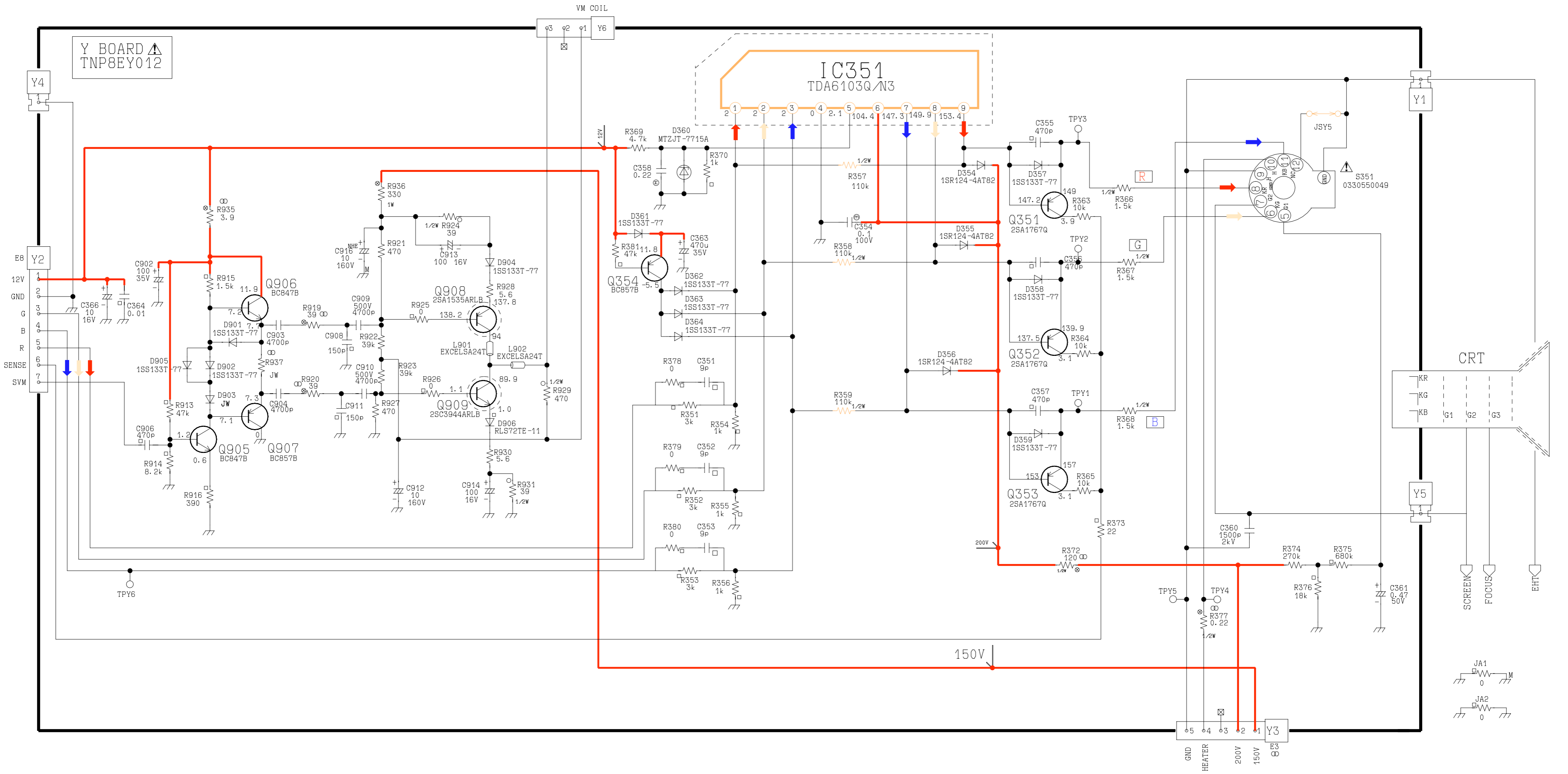
IC1900
LA6515

GEO COIL



P BOARD ⚠
TNP8EP015





Y BOARD
TNP8EY012

IC351
TDA6103Q/N3

CRT

KR
KG
KB
G1
G2
G3

Y2

12V
GND
G
B
R
SENSE
SVM

VM COIL

Y6

Y1

Y3

GND
HEATER
200V
150V
E3

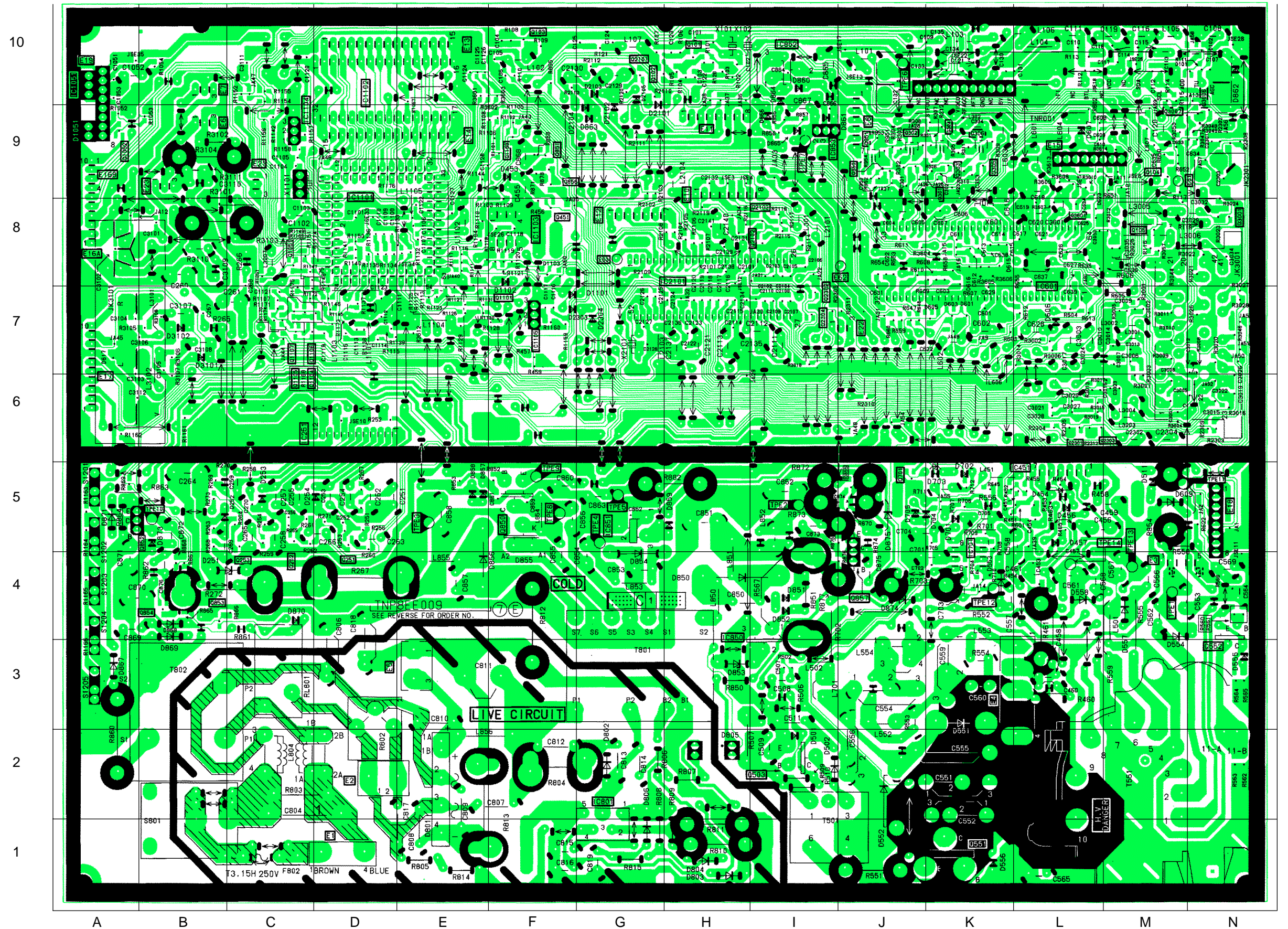
JA1
JA2

SCREEN
FOCUS
EHT

CONDUCTOR VIEWS

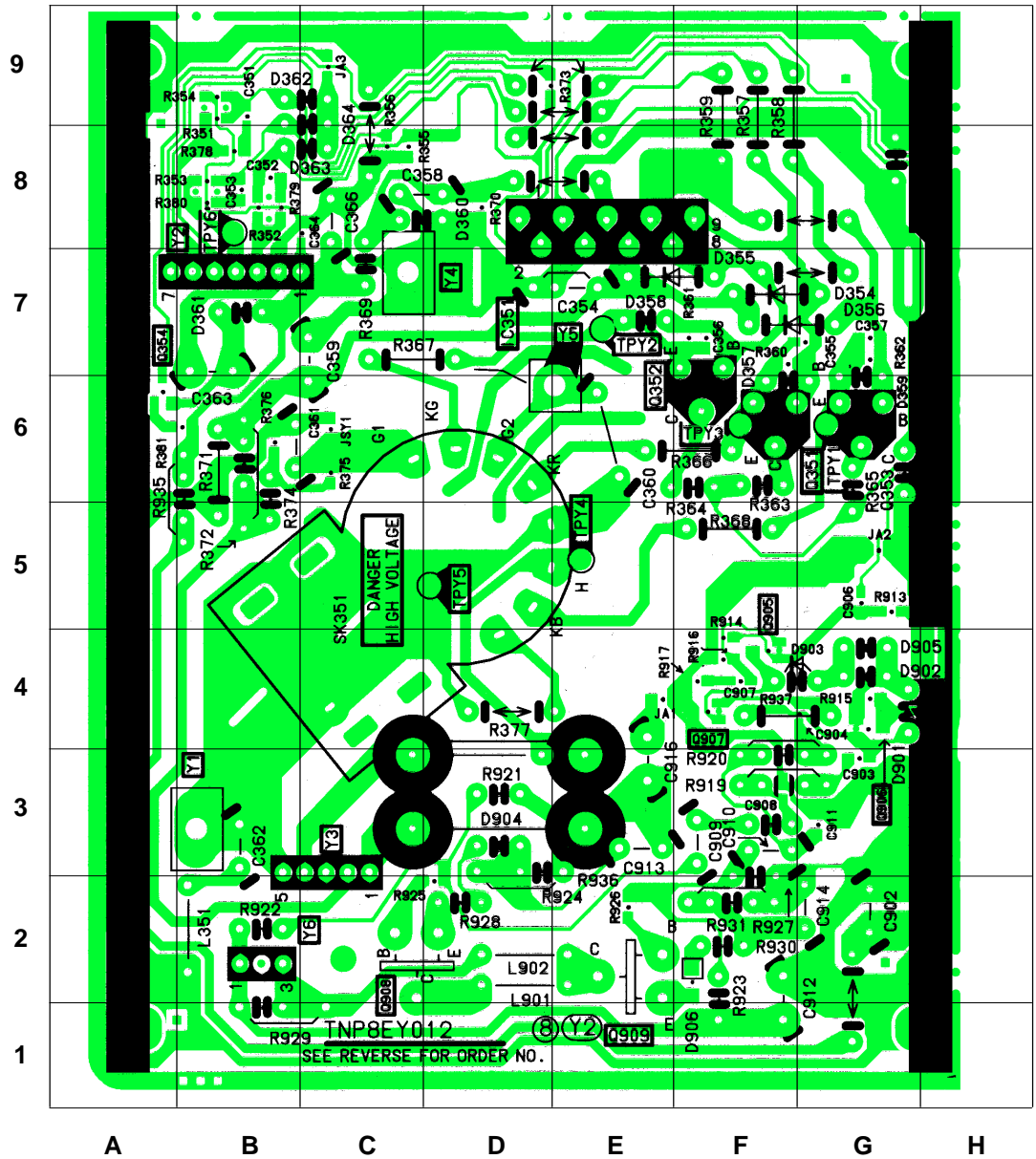
E-BOARD TNP8EE009

| TRAN'S | DIODES | D558 L4 |
|-----------|-----------|-------------|
| Q3601 L8 | D3103 B7 | D557 M4 |
| Q3007 M9 | D3101 B7 | D556 K1 |
| Q3001 N8 | D3102 B7 | D555 N3 |
| Q3006 N10 | D2161 G9 | D554 M4 |
| Q2304 I7 | D2105 G10 | D553 K4 |
| Q2303 M6 | D2104 F9 | D552 J2 |
| Q2301 I7 | D2103 G10 | D551 K3 |
| Q2103 I8 | D2102 G9 | D511 M5 |
| Q2102 H8 | D1103 F8 | D502 I2 |
| Q2101 G10 | D1102 F7 | D501 I2 |
| Q1108 F9 | D1101 G7 | D457 L5 |
| Q1107 C7 | D1051 A9 | D456 L5 |
| Q1106 C7 | D875 J5 | D454 L5 |
| Q1105 C7 | D874 J4 | D453 F9 |
| Q1104 C7 | D873 B5 | D254 C5 |
| Q1101 F7 | D871 A5 | D253 C5 |
| Q1052 A9 | D870 871 | D252 B5 |
| Q1051 C8 | D869 B4 | D251 B4 |
| Q951 J9 | D868 B4 | IC'S |
| Q950 J9 | D867 A3 | IC2101 H8 |
| Q857 J4 | D866 I9 | IC1105 F7 |
| Q856 F9 | D865 I9 | IC1104 C9 |
| Q855 J5 | D864 I10 | IC1103 F8 |
| Q854 B4 | D863 G9 | IC1102 D10 |
| Q853 B4 | D862 N10 | IC1101 D8 |
| Q852 B5 | D861 J9 | IC1051 A10 |
| Q850 F5 | D860 I10 | IC852 I10 |
| Q701 J5 | D859 H5 | IC851 G5 |
| Q552 N3 | D858 E5 | IC850 H4 |
| Q551 K1 | D857 E5 | IC801 G2 |
| Q503 I2 | D855 F4 | IC701 K5 |
| Q451 F8 | D854 G4 | IC601 L7 |
| Q394 K9 | D853 H3 | IC451 L5 |
| Q305 K9 | D852 I4 | IC251 D6 |
| Q303 K9 | D851 I4 | TP'S |
| Q302 J9 | D850 H4 | TPE14 M5 |
| Q301 K9 | D806 G2 | TPE13 M4 |
| Q253 C4 | D805 H2 | TPE12 K4 |
| Q252 C4 | D804 H1 | TPE11 N5 |
| Q252 C4 | D803 H1 | TPE10 B5 |
| Q251 D4 | D802 G2 | TPE9 E5 |
| Q105 M8 | D801 E1 | TPE8 F5 |
| Q104 M9 | D705 J5 | TPE7 I9 |
| Q103 F10 | D704 K5 | TPE6 J10 |
| Q102 G10 | D703 K5 | TPE5 G5 |
| Q101 H10 | D702 K5 | TPE4 G5 |
| | D701 K5 | TPE3 E5 |
| | D609 M5 | TPE2 I5 |
| | D607 L9 | TPE1 M4 |



Y - BOARD TNP8EY012

| TRANSISTORS | |
|-------------|----|
| Q909 | E1 |
| Q908 | C2 |
| Q907 | F4 |
| Q906 | G3 |
| Q905 | F5 |
| Q354 | A7 |
| Q353 | G6 |
| Q352 | F6 |
| Q351 | F6 |
| DIODES | |
| D906 | F1 |
| D905 | G4 |
| D904 | D3 |
| D902 | G4 |
| D901 | G3 |
| D364 | C9 |
| D363 | C8 |
| D362 | B9 |
| D361 | B7 |
| D360 | D8 |
| D359 | G6 |
| D358 | E7 |
| D357 | F7 |
| D356 | G7 |
| D355 | F7 |
| D354 | G7 |
| TEST POINTS | |
| TPY6 | B8 |
| TPY5 | D5 |
| TPY4 | E5 |
| TPY3 | F6 |
| TPY2 | E7 |
| TPY1 | G6 |
| IC'S | |
| IC351 | E8 |



M - BOARD TNP8EM017

| TRANSISTORS | |
|-------------|-----|
| Q3201 | B10 |
| Q3202 | B9 |
| Q3203 | B9 |
| Q3204 | B9 |
| Q3205 | C1 |
| Q3206 | D2 |
| Q3207 | C2 |
| Q3208 | C3 |
| Q3209 | C3 |
| Q1900 | D10 |
| Q1061 | B10 |
| Q1062 | A10 |
| DIODES | |
| D3201 | C10 |
| D3202 | C10 |
| D3203 | B11 |
| D1900 | D8 |
| D1061 | A11 |
| IC'S | |
| IC1900 | D9 |
| IC1901 | D8 |
| IC1061 | A10 |

