

JVC

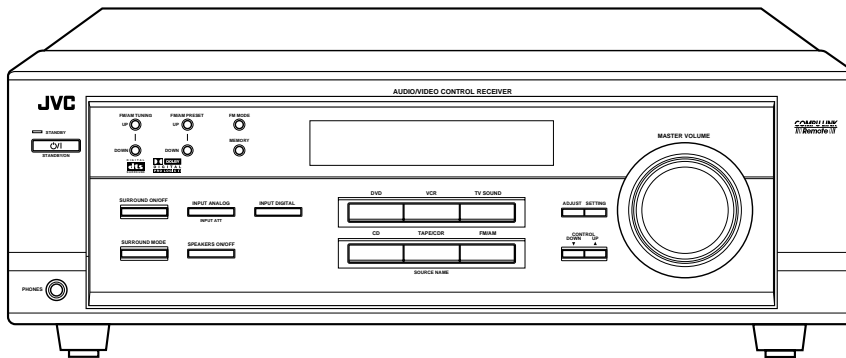
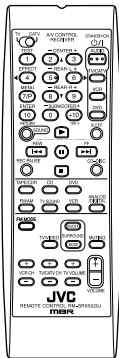
SERVICE MANUAL

AUDIO/VIDEO CONTROL RECEIVER

RX-5020VBK RX-5022VSL

Area suffix

J ----- U.S.A.
C ----- Canada



COMPU LINK
/// Remote ///

DIGITAL
dts
SURROUND

DOLBY
DIGITAL
PRO LOGIC II

As for RX-5022VSL the body is silver color

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Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (\triangle) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

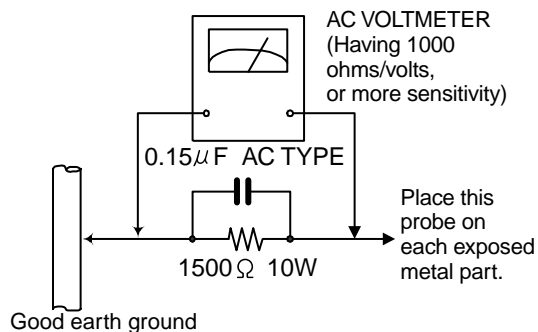
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).

- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

CAUTION

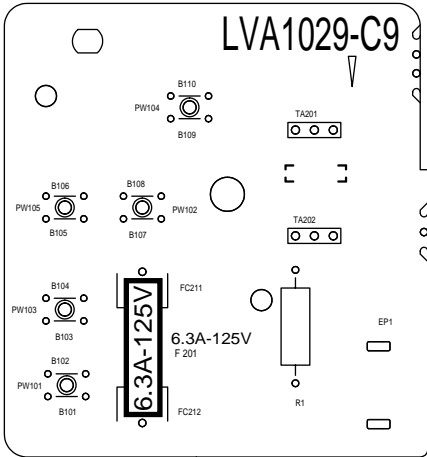
Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (\blacksquare), diode (\blacksquare) and ICP (\bullet) or identified by the " \triangle " mark nearby are critical for safety.

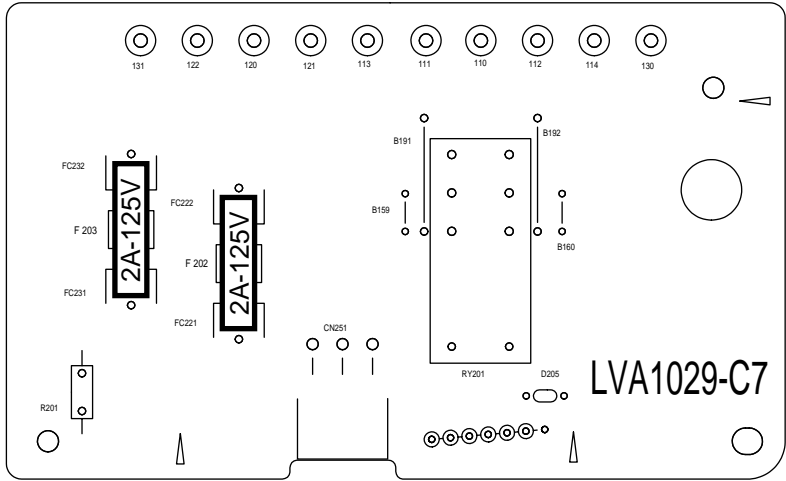
(This regulation does not correspond to J and C version.)

Importance administering point on the safety

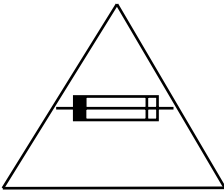
Primary part



Secondary parts



For USA and Canada / pour États - Unis d' Amérique et Canada



Caution: For continued protection against risk of fire, replace only with same type 6.3A/125V for F201, 2A/125V for F202 and F203. This symbol specifies type of fast operating fuse.

Précaution: Pour éviter risques de feux, remplacez le fusible de sûreté de F201 comme le même type que 6.3A/125V, et 2A/125V pour F202 et F203. Ce sont des fusibles sûretés qui fonctionnent rapide.

Disassembly method

■ Removing the top cover (See Fig.1)

1. Remove the four screws A attaching the top cover on both sides of the body.
2. Remove the three screws B on the back of the body.
3. Remove the top cover from behind in the direction of the arrow while pulling both sides outward.

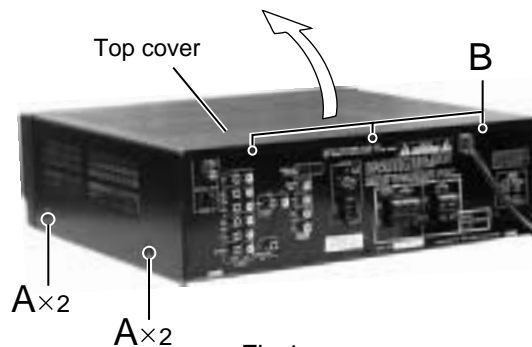


Fig.1

■ Removing the front panel assembly (See Fig.2 and 3)

- Prior to performing the following procedure, remove the top cover.
1. Disconnect the card wire from connector CN402 on the audio board and CN201 on the power supply board in the front panel assembly.
 2. Cut off the tie band fixing the harness.
 3. Remove the three screws C attaching the front panel assembly.
 4. Remove the four screws D attaching the front panel assembly on the bottom of the body. Detach the front panel assembly toward the front.

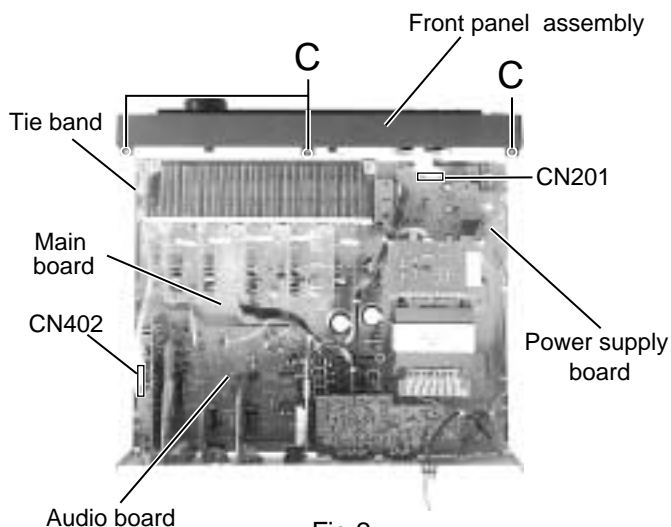


Fig.2

■ Removing the rear panel (See Fig.4)

- Prior to performing the following procedure, remove the top cover.
1. Remove the power cord stopper from the rear panel by moving it in the direction of the arrow.
 2. Remove the seventeen screws E attaching the audio input board, DVD board, video board and tuner board to the rear panel on the back of the body.
 3. Remove the four screws F attaching the rear panel on the back of the body.

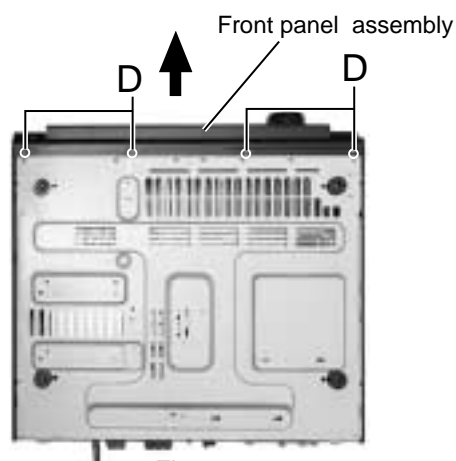


Fig.3

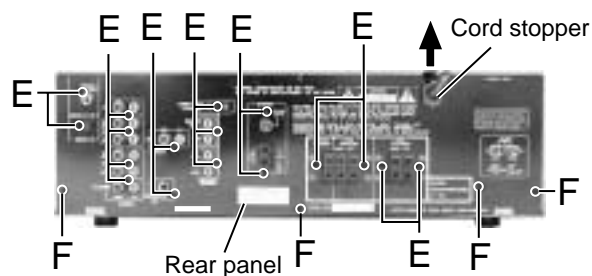


Fig.4

■ Removing the digital signal board / audio input board / DVD board / video board and tuner board on the audio board
(See Fig.5 to 8)

• Prior to performing the following procedure, remove the top cover and the rear panel.

1. Cut off the tie band fixing the harness.
2. Disconnect the digital signal board from connector CN481 on the audio board.
3. Disconnect the audio input board, DVD board and the video board from connector CN421, CN431 and CN441 on the audio board.
4. Disconnect the tuner board from connector CN411 on the audio board.

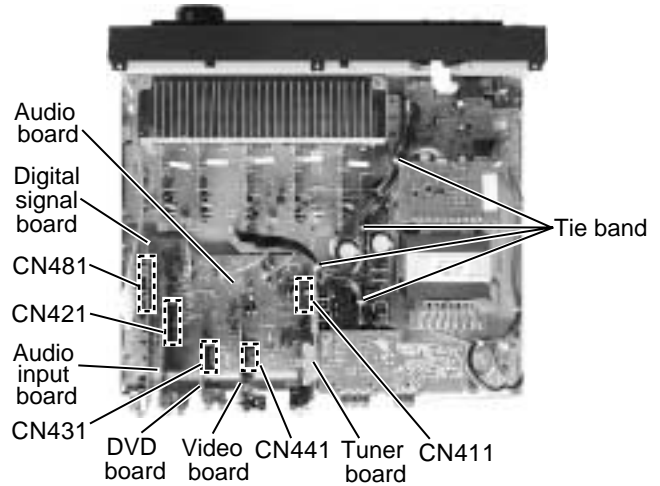


Fig.5

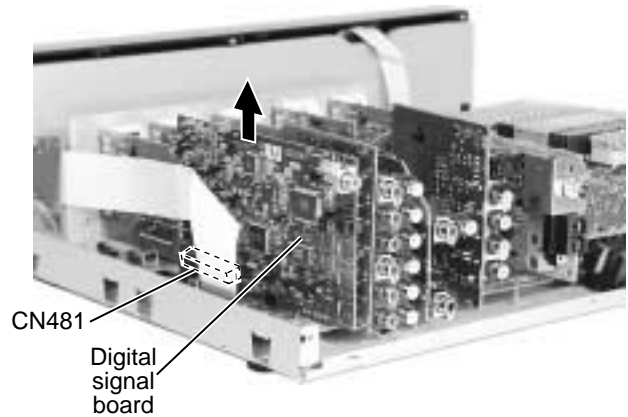


Fig.6

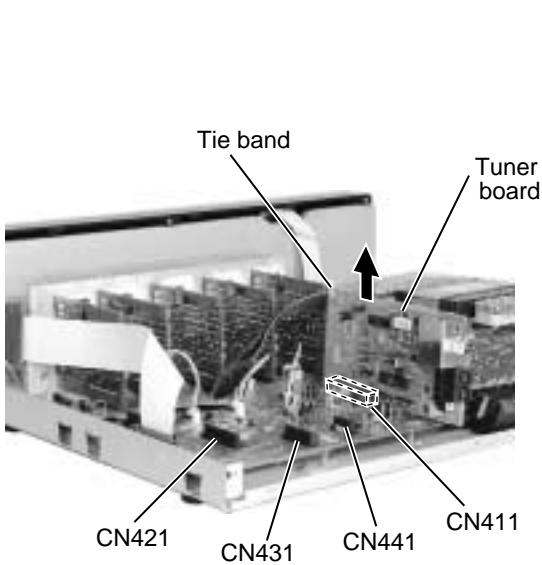


Fig.8

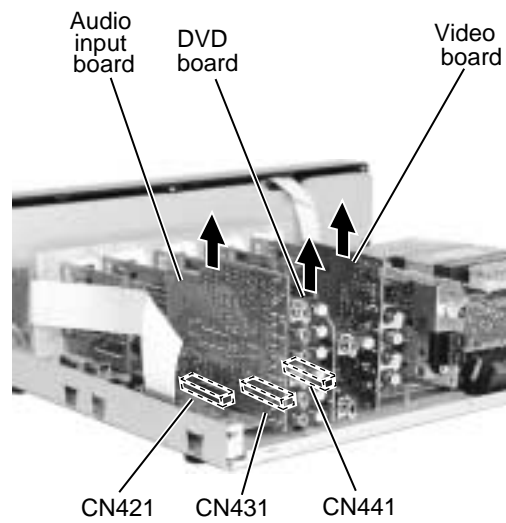


Fig.7

■ Removing the audio board (See Fig.9)

- Prior to performing the following procedure, remove the top cover and the rear panel.
1. Disconnect the card wire from connector CN402 on the audio board.
 2. Disconnect the relay board from the audio board and the power supply board. (CN291,CN491)
 3. Disconnect the harness from connector CN473, CN471, and CN472.
 4. Remove the three screws G attaching the audio board assembly.
 5. Remove the screw H attaching the audio board and main board.

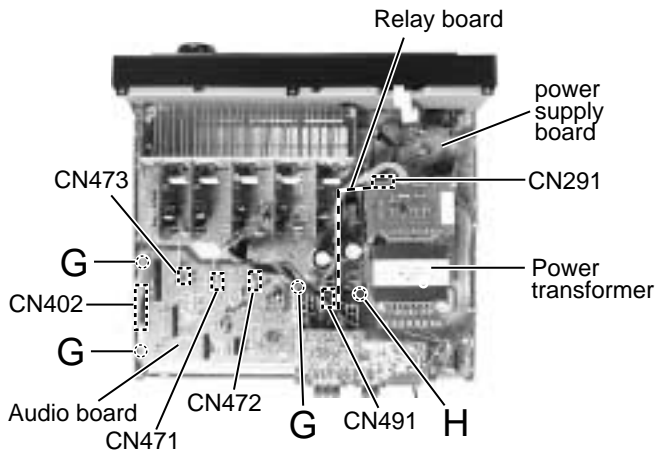


Fig.9

■ Removing the main board (See Fig.10)

- Prior to performing the following procedure, remove the top cover, the rear panel and audio board.
1. Disconnect the harness from connector CN241 and CN203 on the power supply board respectively.
 2. Disconnect the harness from connector CN251 on the power transformer board .
 3. Remove the four screws I and the two screws J attaching the main board.

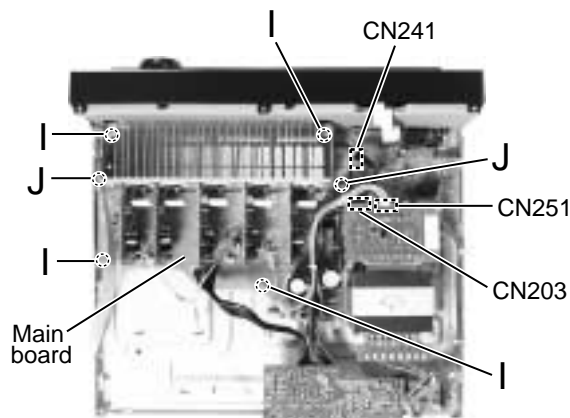


Fig.10

■ Removing the Heat sink (See Fig.11 and 12)

1. Remove the ten screws K and four screws L attaching the heat sink.
2. Remove the two screws M attaching the heat sink from the rear side of main board.

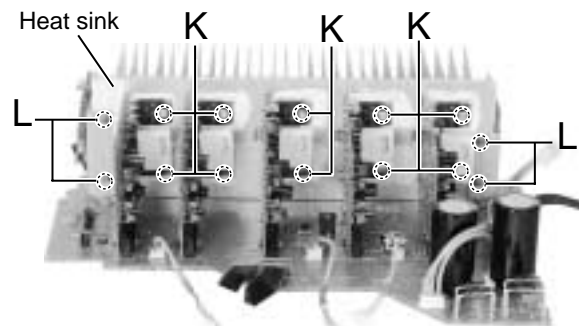


Fig.11

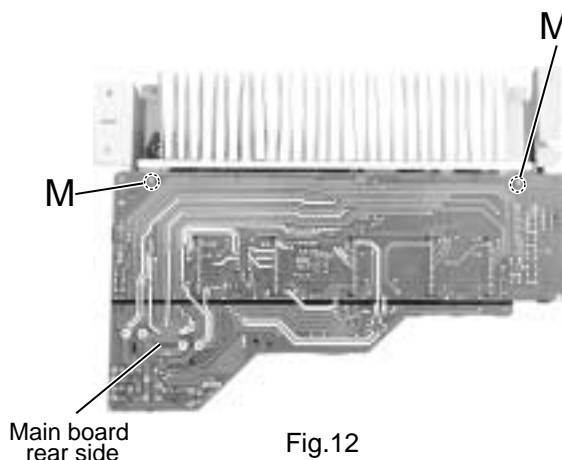


Fig.12

**■ Removing the power transformer
(See Fig.13)**

- Prior to performing the following procedures, remove the top cover.

1. Cut off the tie band fixing the harness.
2. Unsolder the two harnesses connected to the power transformer.
3. Unsolder the harness connected to the FW201 on the power transformer board.
4. Remove the four screws N attaching the power transformer.

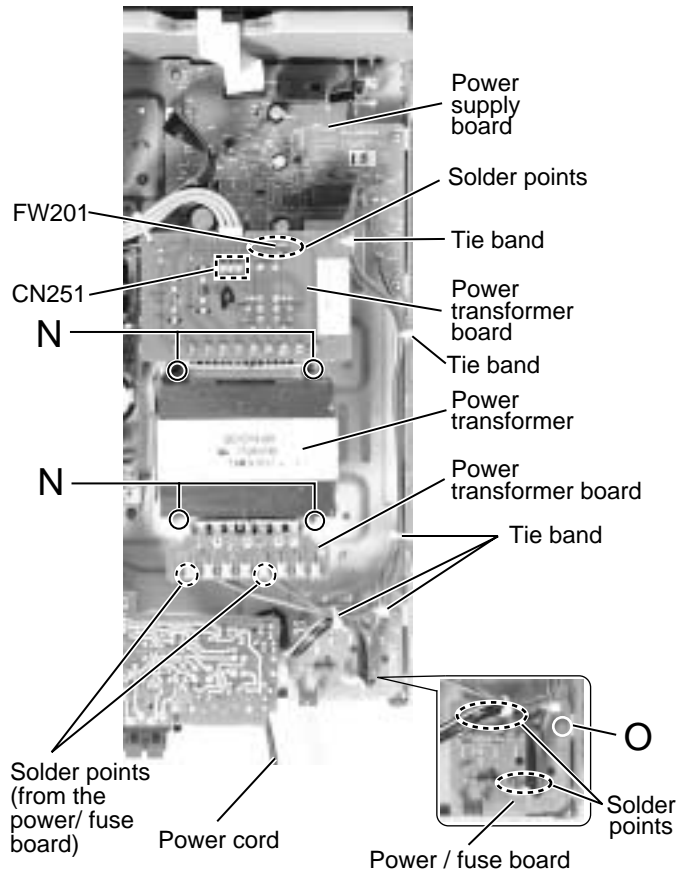


Fig.13

**■ Removing the the power / fuse board
(See Fig.13)**

- Prior to performing the following procedure, remove the top cover and the rear panel.

1. Unsolder the two harnesses connected to the power transformer board.
2. Remove the screw O attaching the power / fuse board.
3. Unsolder the power cord and other harnesses connected to the power / fuse board.

**■ Removing the power supply board
(See Fig.14 and 15)**

- Prior to performing the following procedure, remove the top cover and the front panel.

1. Remove the one nut attaching the headphone jack of the power supply board on the front side of the body.
2. Disconnect the harness connected to connector CN241, CN201, CN203 and CN291 on the power transformer board.
3. Remove the three screws P attaching the power supply board and pull out the power supply board from the front bracket backward.
4. Unsolder the three harnesses connected to the power supply board.

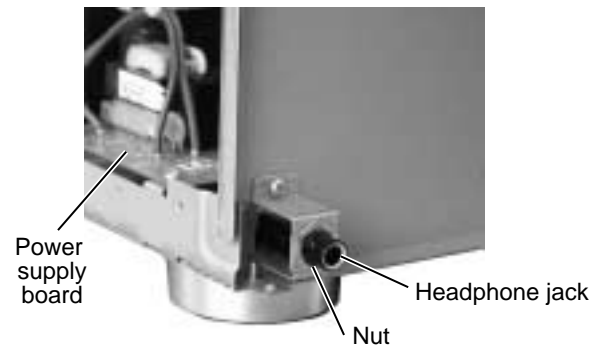


Fig.14

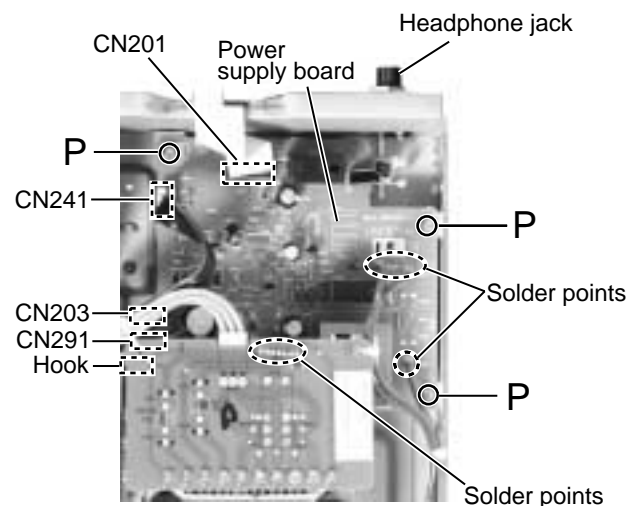


Fig.15

■ **Removing the system control board / power switch board (See Fig.16 to 18)**

- Prior to performing the following procedure, remove the top cover and the front panel assembly.
1. Pull out the volume knob on the front side of the front panel and remove the nut attaching the system control board.
 2. Remove the two screws Q attaching the power switch board.
 3. Disconnect the harness from connector CN714 on the power switch board.
 4. Remove the six screws R attaching the system control board on the back of the front panel.
 5. On the back of the front panel, release the six joints by pushing the joint tabs inward. Remove the operation switch panel toward the front.
 6. Release the two hook attaching the system control board.

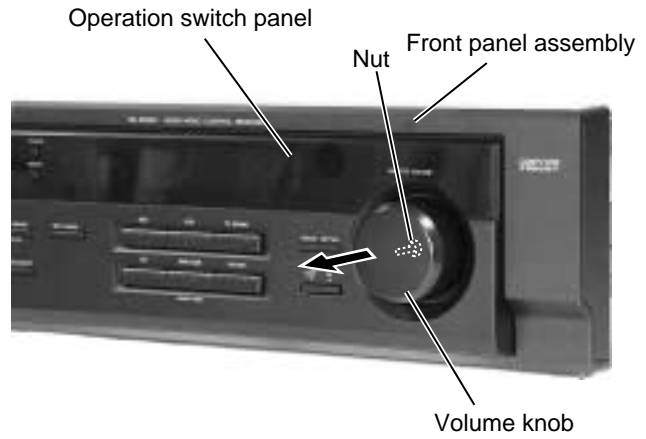


Fig.16

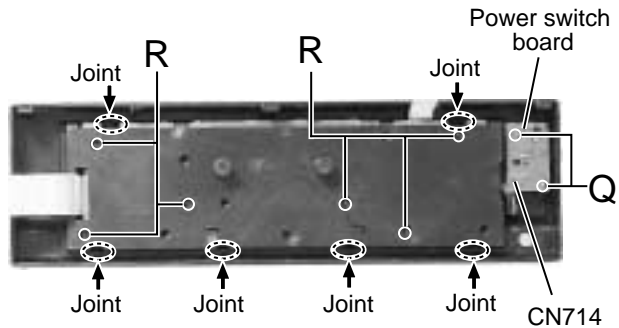


Fig.17

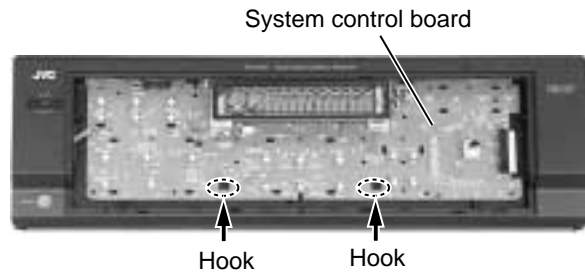


Fig.18

Adjustment method

■ Tuner section

1. Tuner range
- | | |
|--------|------------------|
| FM | 87.5MHz~108.0MHz |
| AM(MW) | 530kHz~1710kHz |

■ Power amplifier section

Adjustment of idling current

- | | |
|----------------------|-------------------------|
| Measurement location | TP301(Lch) , TP302(Rch) |
| Adjustment part | VR301(Lch) , VR302(Rch) |

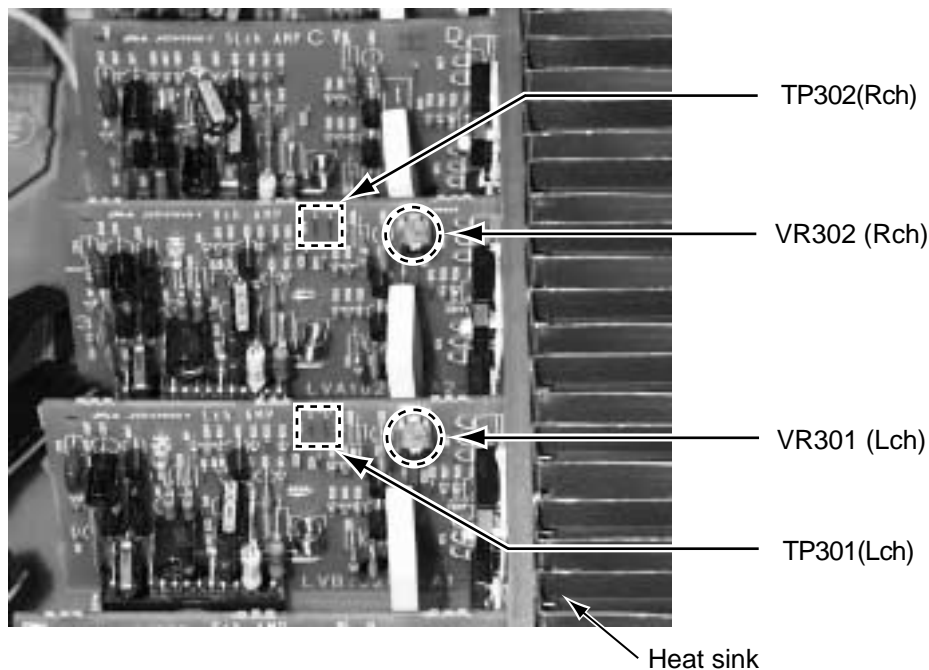
Attention

This adjustment does not obtain a correct adjustment value immediately after the amplifier is used (state that an internal temperature has risen). Please adjust immediately after using the amplifier after turning off the power supply of the amplifier and falling an internal temperature.

<Adjustment method>

1. Set the volume control to minimum during this adjustment. (No signal & No load)
2. Set the surround mode OFF.
2. Turn VR301 and VR302 fully counterclockwise to warm up before adjustment.
If the heat sink is already warm from previous use the correct adjustment can not be made.
3. For L-ch, connect a DC voltmeter between TP301's B216 and B217 (Lch)
And, connect it between TP302's B218 and B219 (Rch).
4. 30 minutes later after power on, adjust VR301 for L-ch, or VR302 for R-ch so that the DC voltmeter value has 1mV~10mV.

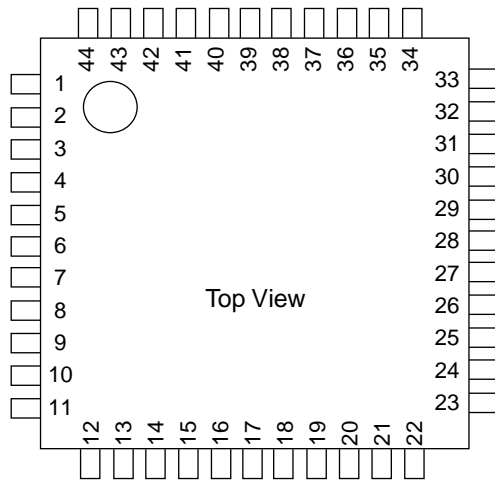
* It is not abnormal though the idling current might not become 0mA even if it is finished to turn variable resistance (VR301, VR302) in the direction of counterclockwise.



Description of major ICs

■ AK4527BVQP (IC601) : A/D,D/A converter

1.Pin layout



2. Pin function (1/2)

| No. | Symbol | I/O | Function |
|-----|--------|-----|---|
| 1 | SDOS | I | SDTO Source Select Pin (Note 1) "L" : Internal ADC output, "H" : DAUX input |
| 2 | OSKS | I | Control Mode Select Pin "L" : 3-wire Serial, "H" : I ² C Bus |
| 3 | MIS | - | Soft Mute Pin (Note 1), Connect to GND When this pin goes to "H", soft mute cycle is initialized. When returning to "L", the output mute releases. |
| 4 | BICK | I | Audio Serial Data Clock Pin |
| 5 | LRCK | I/O | Input Channel Clock Pin |
| 6 | SDTI1 | I | DAC1 Audio Serial Data Input Pin |
| 7 | SDTI2 | I | DAC2 Audio Serial Data Input Pin |
| 8 | SDTI3 | I | DAC3 Audio Serial Data Input Pin |
| 9 | SDTO | O | Audio Serial Data Output Pin |
| 10 | D,AUX | - | Sub Audio Serial Data Input Pin, Connect to GND |
| 11 | DFS | - | Double Speed Sampling Mode Pin (Note 1) "L" : Normal Speed, "H" : Double Speed |
| 12 | DEMI | - | Connect to GND No internal bonding. |
| 13 | DEMO | - | Zero Input Detect Enable Pin, Connect to GND "L" : mode 7 (disable) at parallel mode, - zero detect mode is selectable by DZFM2-0 bits at serial mode. - "H" : mode 0 (DZF is AND of all six channels) |
| 14 | MCKO | - | Output Buffer Power supply Pin, 2.7V~5.5V |
| 15 | DVDD | I | Digital Power Supply Pin, 4.5V~5.5V |
| 16 | DVSS | - | De-emphasis Pin, 0V |
| 17 | PD | I | Power-Down & Reset Pin When "L", the AK4527B is powered-down and the control registers are reset to default state. If the state of P/S or CAD0-1 changes, then the AK4527B must be reset by PDN. |
| 18 | XTS | - | Test Pin, Connect to GND This pin should be connected to DVSS. |

Pin function (2/2)

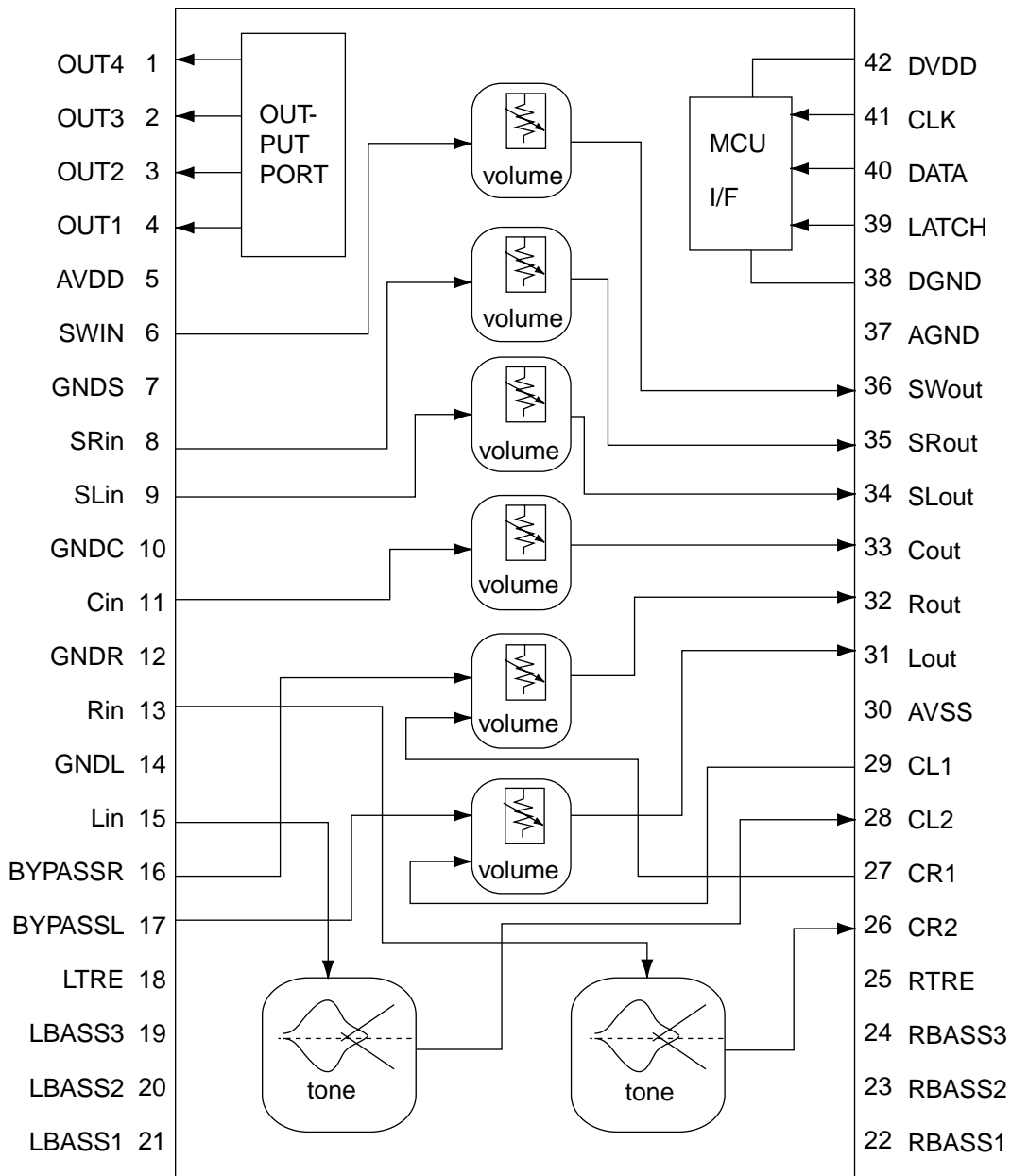
AK4527

| No. | Symbol | I/O | Function |
|-----|----------|-----|--|
| 19 | ICKS | - | Connect to GND No internal bonding. |
| 20 | ADIF | - | Analog Input Format Select Pin, Digital Power Supply "H" : Full-differential input, "L" : Single-ended input |
| 21 | CAD1 | - | Chip Address 1 Pin, Connect to GND |
| 22 | CAD0 | - | Chip Address 0 Pin, Connect to GND |
| 23 | LOUT3 | O | DAC3 Lch Analog Output Pin |
| 24 | ROUT3 | O | DAC3 Rch Analog Output Pin |
| 25 | LOUT2 | O | DAC2 Lch Analog Output Pin |
| 26 | ROUT2 | O | DAC2 Rch Analog Output Pin |
| 27 | LOUT1 | O | DAC1 Lch Analog Output Pin |
| 28 | ROUT1 | O | DAC1 Rch Analog Output Pin |
| 29 | LIN- | I | Lch Analog Negative Input Pin |
| 30 | LIN+ | I | Lch Analog Positive Input Pin |
| 31 | RIN- | I | Rch Analog Negative Input Pin |
| 32 | RIN+ | I | Rch Analog Positive Input Pin |
| 33 | VREFL | - | Zero Input Detect 2 Pin (Note 2), Non Connect When the input data of the group 1 follow total 8192LRCK cycles with "0" input data, this pin goes to "H". |
| | OVF | O | Analog Input Overflow Detect Pin (Note 3) This pin goes to "H" if the analog input of Lch or Rch is overflows. |
| 34 | VCOM | O | Common Voltage Output Pin, AVDD/2 Large external capacitor around 2.2uF is used to reduce power-supply noise. |
| 35 | VREFH | - | Positive Voltage Reference Input Pin, AVDD |
| 36 | AVDD | - | Analog Power Supply Pin, 4.5V~5.5V |
| 37 | AVSS | - | Analog Ground Pin, 0V |
| 38 | XTI | - | Zero Input Detect 1 Pin (Note 2), Non connect When the input data of the group 1 follow total 8192 LRCK cycles with "0" input data, this pin goes to "H". |
| 39 | XTO | I | Master Clock Input Pin |
| 40 | P1S | - | Parallel / Serial Select Pin "L" : Serial control mode, "H" : Parallel control mode |
| 41 | CS | I | Audio Data Interface Format 0 Pin in parallel mode |
| | CSN | I | Chip select pin in 3-wire serial control mode This pin should be connected to DVDD at I2C bus control mode |
| 42 | DIF1 | I | Audio Data Interface Format 1 Pin in parallel mode |
| | SCL/CCLK | I | Control Data Clock Pin in serial control mode I2C = "L" : CCLK(3-wire Serial), I2C = "H" : SCL(I2C Bus) |
| 43 | LOOP0 | I | Loopback Mode 0 Pin in parallel control mode Enables digital loop-back from ADC to 3 DACs. |
| | SAD/CDTI | I/O | Control Data Input Pin in serial control mode I2C = "L" : CDTI(3-wire Serial), I2C = "H" : SDA(I2C Bus) |
| 44 | CTD | I | Loopback Mode 1 Pin (Note 1) Enable all 3 DAC channels to be input from SDTII. |

- Notes :
1. SDOS, SMUTE, DFS, and LOOP1 pins are ORed with register data if P/S = "L".
 2. The group 1 and 2 can be selected by DZFM2-0 bit if P/S = "L" and DZFM2 = "L".
 3. This pin becomes OVF pin if OVFE bit is set to "1" at serial control mode.
 4. All input pins should not be left floating.

■ M62446FP (IC428) : 6ch master volume

1. Block Diagram



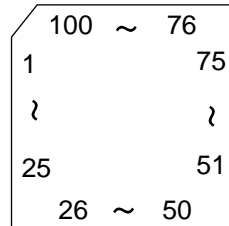
2.Pin Function

M62446FP

| Pin No. | Symbol | I/O | Function |
|---------|----------|-----|---|
| 1 | OUT4 | O | BASS BOOST control terminal |
| 2 | OUT3 | O | SURROUND control terminal |
| 3 | OUT2 | O | VIDEO 2 control terminal |
| 4 | OUT1 | O | VIDEO 1 control terminal |
| 5 | AVDD | - | Analog positive power supply terminal |
| 6 | SW IN | I | SUB Woofer volume signal input terminal |
| 7 | A.GND | - | Analog ground terminal |
| 8 | RR IN | I | R ch volume signal input terminal for rear speaker |
| 9 | RL IN | I | L ch volume signal input terminal for rear speaker |
| 10 | A.GND | - | Analog ground terminal |
| 11 | C IN | I | Center volume signal input terminal |
| 12 | A.GND | - | Analog ground terminal |
| 13 | R IN | I | R ch volume signal input terminal |
| 14 | A.GND | - | Analog ground terminal |
| 15 | L IN | I | L ch volume signal input terminal |
| 16 | | - | Non connect |
| 17 | | - | Non connect |
| 18 | LTRE | - | Frequency adjustment terminal tone/treble |
| 19 | LBASS3 | - | Frequency adjustment terminal tone/bass |
| 20 | LBASS2 | - | Frequency adjustment terminal tone/bass |
| 21 | KBASS1 | - | Frequency adjustment terminal tone/bass |
| 22 | CR2 | O | Tone output terminal |
| 23 | RBASS2 | - | Frequency adjustment terminal tone/bass |
| 24 | RBASS3 | - | Frequency adjustment terminal tone/bass |
| 25 | RTRE | - | Frequency adjustment terminal tone/treble |
| 26 | RBASS1 | - | Frequency adjustment terminal tone/bass |
| 27 | CR1 | I | L/R volume input terminal |
| 28 | LL2 | O | Tone output terminal |
| 29 | CL1 | I | L/R volume input terminal |
| 30 | AVSS | - | Analog negative power supply terminal |
| 31 | L OUT | O | L ch output |
| 32 | R OUT | O | R ch output |
| 33 | C OUT | O | Center volume signal output terminal |
| 34 | RL OUT | O | L ch volume signal output terminal for rear speaker |
| 35 | RR OUT | O | R ch volume signal output terminal for rear speaker |
| 36 | SW OUT | O | SUB Woofer volume signal output terminal |
| 37 | A.GND | - | Analog ground terminal |
| 38 | D.GND | - | Digital ground terminal |
| 39 | VOL LACH | I | Latch input terminal |
| 40 | VOL DATA | I | Volume data input terminal |
| 41 | VOL CLK | I | Clock input terminal for data transfer |
| 42 | DVDD | - | Digital power supply terminal |

■ MN101C35DJW (IC701) : System controller

1. Pin layout



2. Pin function (1/2)

| Pin No. | Symbol | I/O | Function |
|---------|---------------|-----|---|
| 1 | VOL.JOG IN_1 | I | VOL.JOG IN 1 |
| 2 | VOL.JOG IN_2 | I | VOL.JOG IN 2 |
| 3 | DATA (PLL) | I/O | DATA (PLL) |
| 4 | CLK (PLL) | O | CLK (PLL) |
| 5 | DE (PLL) | O | DE (PLL) |
| 6 | VIDEO S/C DVD | I | VIDEO S/C DVD |
| 7 | VIDEO S/C VCR | I | VIDEO S/C VCR |
| 8 | VDD | - | Power supply +5V |
| 9 | OSC2 | I/O | Connecting the crystal oscillator for system clock (8MHz) |
| 10 | OSC1 | I/O | Connecting the crystal oscillator for system clock (8MHz) |
| 11 | VSS | - | Connect to GND |
| 12 | | - | Connect to GND |
| 13 | NC | - | Non connect |
| 14 | | - | Connect to GND |
| 15 | | - | Connect to GND |
| 16 | KEY IN 1 | I | KEY INPUT 1 |
| 17 | KEY IN 2 | I | KEY INPUT 2 |
| 18 | KEY IN 3 | I | KEY INPUT 3 |
| 19 | KEY IN 4 | I | KEY INPUT 4 |
| 20 | KEY IN 5 | I | KEY INPUT 5 |
| 21 | INH IN | I | INH IN |
| 22 | CS 1 | I | CHIP SELECT 1 |
| 23 | CS 2 | I | CHIP SELECT 2 |
| 24 | VREF+ | - | Power supply +5V |
| 25 | VIDEO S/C DBS | I | VIDEO S/C DBS |
| 26 | RESET | I | RESET INPUT |
| 27 | CLK (RDS) | O | RDS CLK OUT (RDS) |
| 28 | DCS IN | I | DCS INPUT |
| 29 | DCS OUT | O | DCS OUTPUT |
| 30 | VCR IN | I | AVLINK VCR IN |
| 31 | VCR OUT | O | AVLINK VCR OUT |
| 32 | DATA (RDS) | I/O | RDS DATA (RDS) |
| 33 | PROTECTOR IN | I | PROTECTOR IN |
| 34 | RM IN | I | REMOCON INPUT |
| 35 | TUNED IN | I | TUNED IN (TUNER) |
| 36 | STEREO IN | I | STEREO IN (TUNER) |
| 37 | DAVN (RDS) | I | RDS DAVN (RDS) |
| 38 | SELF DET | I | SELF DET INPUT |
| 39 | COMMAND (DSP) | O | COMMAND (DSP) |
| 40 | STATUS (DSP) | I | STATUS (DSP) |

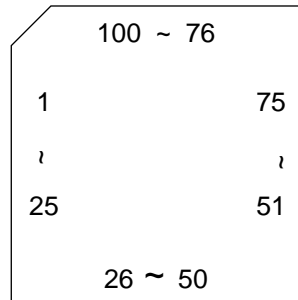
Pin function (2/2)

MN101C35DJW

| Pin No. | Symbol | I/O | Function |
|---------|--------------|-----|-------------------------------|
| 41 | CLK DSP | O | CLK (DSP) |
| 42 | READY | O | READY (DSP) |
| 43 | RESET | O | RESET (DSP) |
| 44 | RY S | O | RELAY SURROUND |
| 45 | RY C | O | RELAY CENTER |
| 46 | RY L/R1 | O | RELAY FRONT 1 |
| 47 | RY L/R2 | O | RELAY FRONT 2 |
| 48 | RY HP | O | RELAY HEADPHONE |
| 49 ~ 64 | GRID16~GRID1 | O | FL GRID SIGNAL CONTROL OUT |
| 65 ~ 80 | SEG1~SEG16 | O | FL SEGMENT SIGNAL CONTROL OUT |
| 81 | NC | - | Non connect |
| 82 | NC | - | Non connect |
| 83 | NC | - | Non connect |
| 84 | NC | - | Non connect |
| 85 | NC | - | Non connect |
| 86 | NC | - | Non connect |
| 87 | NC | - | Non connect |
| 88 | POWER | - | POWER ON Relay Control |
| 89 | S MUTE | O | SOUSE MUTE |
| 90 | SW MUTE | O | SUBWOOFER MUTE |
| 91 | TU MUTE | O | TUNER MUTE |
| 92 | STB LED | O | STANDBY LED |
| 93 | SURROUND | O | SURROUND |
| 94 | DATA | O | AUDIO SW DATA |
| 95 | CLK | O | CLK (AUDIO SW) |
| 96 | STB | O | STB (AUDIO SW) |
| 97 | LATCH | O | LATCH (VOLUME) |
| 98 | DATA | O | VOLUME DATA |
| 99 | CLK | O | CLK (VOLUME) |
| 100 | VPP | - | VPP |

■ UPD784215AGC167 (IC671) : Dital signal controller

1.Pin layout



2.Pin function (1/2)

| Pin No. | Symbol | I/O | Function |
|---------|-------------------------------|-----|---|
| 1~8 | | - | Non connect |
| 9 | VDD | - | Power supply terminal |
| 10 | X2 | O | Connecting the crystal oscillator for system main clock |
| 11 | X1 | I | Connecting the crystal oscillator for system main clock |
| 12 | VSS | - | Connect to GND |
| 13 | XT2 | O | Connecting the crystal oscillator for system sub clock |
| 14 | XT1 | I | Connecting the crystal oscillator for system sub clock |
| 15 | $\overline{\text{RESET}}$ | I | System reset signal input |
| 16 | $\overline{\text{AUTODATA}}$ | I | Output of DSP to general-purpose port |
| 17 | LOCK | I | Output of DSP to general-purpose port |
| 18 | DIGITAL0 | I | Output of DSP to general-purpose port |
| 19 | FORMAT | I | Output of DSP to general-purpose port |
| 20 | CHANNEL | I | Output of DSP to general-purpose port |
| 21 | ERR | I | Output of DSP to general-purpose port |
| 22 | $\overline{\text{REST IN}}$ | I | Reset signal input |
| 23 | AVDD | - | Power supply terminal |
| 24 | AVREF0 | - | Connect to GND |
| 25 | | - | Connect to GND |
| 26 | | - | Connect to GND |
| 27 | | - | Connect to GND |
| 28 | | - | Connect to GND |
| 29 | | - | Connect to GND |
| 30 | | - | Connect to GND |
| 31 | | - | Connect to GND |
| 32 | | - | Connect to GND |
| 33 | AVSS | - | Connect to GND |
| 34,35 | | - | Non connect |
| 36 | AV REF1 | - | Power supply terminal |
| 37 | RX | - | Not use |
| 38 | TX | - | Not use |
| 39 | | - | Non connect |
| 40 | $\overline{\text{DSPCOM}}$ | I | Communication port from IC701 |
| 41 | DSPSTS | O | Status communication port to IC701 |
| 42 | $\overline{\text{DSPCLK}}$ | I | Clock input from IC701 |
| 43 | DSPRDY | I | Ready signal input from IC701 |
| 44 | | - | Non connect |
| 45 | MIDIO IN | I/O | Interface I/O terminal with microcomputer |
| 46 | $\overline{\text{MIDIO OUT}}$ | I/O | Interface I/O terminal with microcomputer |
| 47 | $\overline{\text{MICK}}$ | O | Interface I/O terminal with microcomputer of clock signal |
| 48 | $\overline{\text{MICS}}$ | O | Interface I/O terminal with microcomputer of chip select |

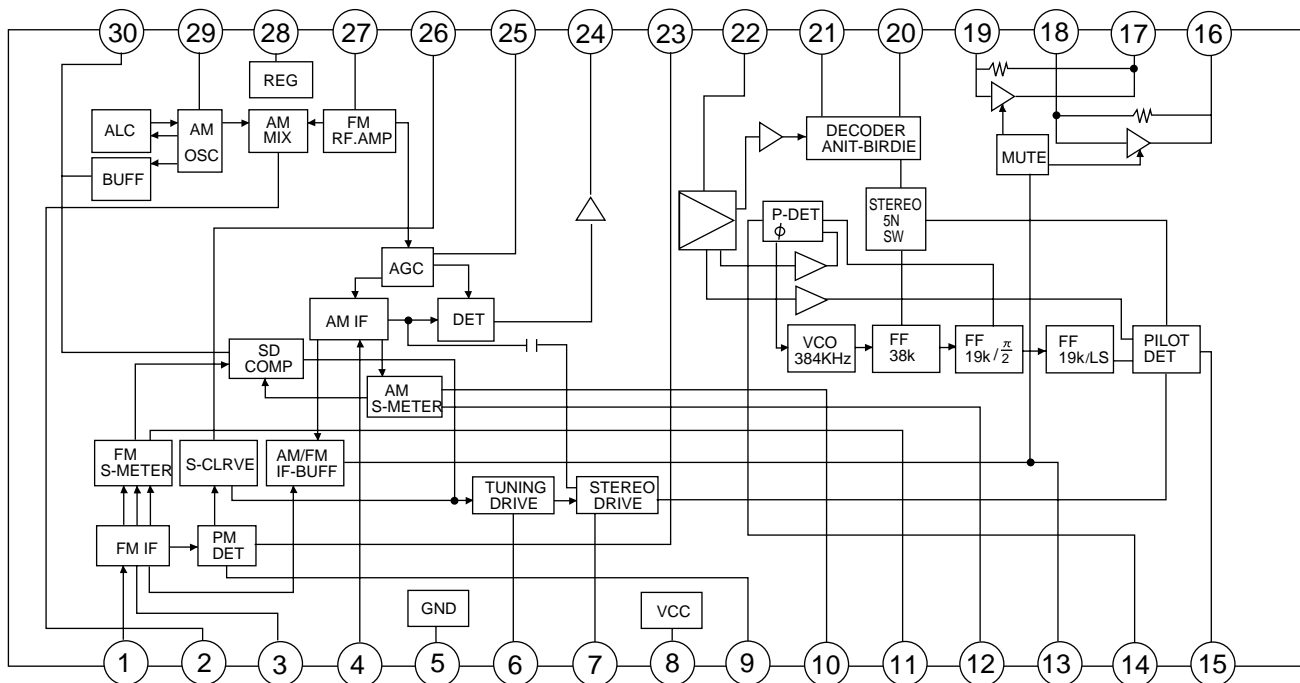
Pin function (2/2)

UPD784215AGC167

| Pin No. | Symbol | I/O | Function |
|---------|------------------------------|-----|---|
| 49 | $\overline{\text{MILP}}$ | O | Interface I/O terminal with microcomputer |
| 50 | $\overline{\text{MIACK}}$ | O | Interface I/O terminal with microcomputer |
| 51 | | - | Non connect |
| 52 | | - | Non connect |
| 53 | $\overline{\text{DSPRST}}$ | O | Reset signal output of DSP |
| 54~63 | | - | Non connect |
| 64 | CODEC OUT | I/O | Interface I/O terminal with microcomputer |
| 65 | CODEC IN | I/O | Interface I/O terminal with microcomputer |
| 66 | CODEC CLK | O | Interface I/O terminal with microcomputer of clock signal |
| 67 | $\overline{\text{CODEC CS}}$ | O | Interface I/O terminal with microcomputer of chip select |
| 68 | CODEC XTS | - | Non connect |
| 69 | | - | Non connect |
| 70 | | - | Non connect |
| 71 | $\overline{\text{PD}}$ | O | Reset signal output |
| 72 | GND | - | Connect to GND |
| 73 | | - | Non connect |
| 74 | | - | Non connect |
| 75 | | - | Non connect |
| 76 | | - | Non connect |
| 77 | | - | Non connect |
| 78 | | - | Non connect |
| 79 | | - | Non connect |
| 80 | | - | Non connect |
| 81 | VDD | - | Power supply |
| 82 | | - | Non connect |
| 83 | | - | Non connect |
| 84 | ANA/T-TONE | O | Test tone control |
| 85 | LEF-MIX | O | Control at output destination of LFE channel |
| 86 | | - | Non connect |
| 87 | $\overline{\text{D.MUTE}}$ | O | Mute of the digital out terminal is controlled |
| 88 | $\overline{\text{S.MUTE}}$ | O | Mute of the audio signal is controlled |
| 89 | | - | Non connect |
| 90 | ASW1 | O | Selection of digital input selector |
| 91 | ASW2 | O | Selection of digital input selector |
| 92 | ASW3 | O | Selection of digital input selector |
| 93 | ASW4 | O | Selection of digital input selector |
| 94 | TEST | - | Test terminal |
| 95 | | - | Non connect |
| 96 | | - | Non connect |
| 97 | | - | Non connect |
| 98 | | - | Non connect |
| 99 | | - | Non connect |
| 100 | | - | Non connect |

■ LA1838 (IC102) : FM AM IF amp. & Detector, FM MPX decoder

1. Block Diagram



2. Pin Function

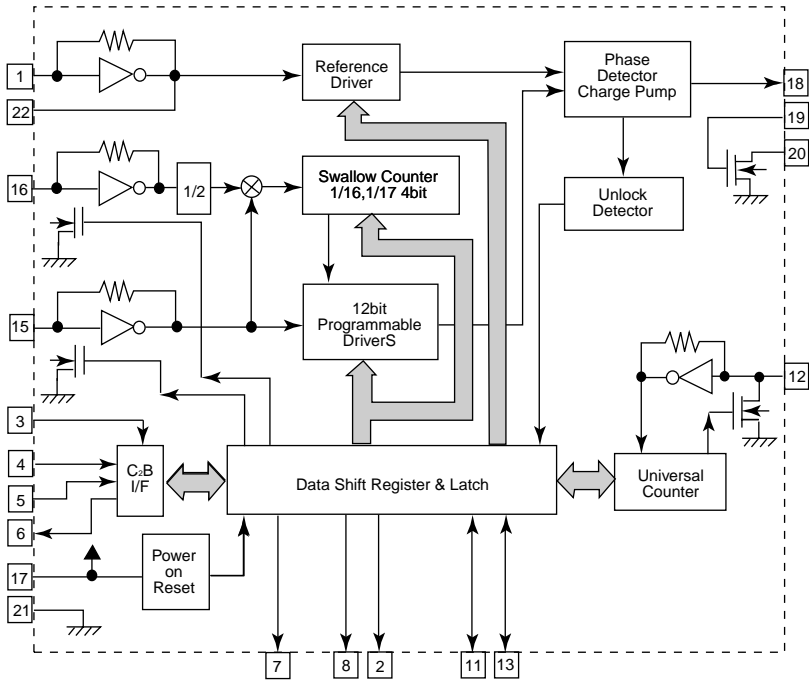
| Pin No. | Symbol | I/O | Function | Pin No. | Symbol | I/O | Function |
|---------|---------|-----|---|---------|------------|-----|--|
| 1 | FM IN | I | This is an input terminal of FM IF signal. | 16 | L OUT | O | Left channel signal output. |
| 2 | AM MIX | O | This is an out put terminal for AM mixer. | 17 | R OUT | O | Right channel signal output. |
| 3 | FM IF | I | Bypass of FM IF | 18 | L IN | I | Input terminal of the Left channel post AMP. |
| 4 | AM IF | I | Input of AM IF Signal. | 19 | R IN | I | Input terminal of the Right channel post AMP. |
| 5 | GND | — | This is the device ground terminal. | 20 | RO | O | Mpx Right channel signal output. |
| 6 | TUNED | O | When the set is tuning,this terminal becomes "L". | 21 | LO | O | Mpx Left channel signal output. |
| 7 | STEREO | O | Stereo indicator output. Stereo "L", Mono: "H" | 22 | MPX IN | I | Mpx input terminal |
| 8 | VCC | — | This is the power supply terminal. | 23 | FM OUT | O | FM detection output. |
| 9 | FM DET | — | FM detect transformer. | 24 | AM DET | O | AM detection output. |
| 10 | AM SD | — | This is a terminal of AM ceramic filter. | 25 | AM AGC | I | This is an AGC voltage input terminal for AM |
| 11 | FM VSM | O | Adjust FM SD sensitivity. | 26 | AFC | — | This is an output terminal of voltage for FM-AFC. |
| 12 | AM VSM | O | Adjust AM SD sensitivity. | 27 | AM RF | I | AM RF signal input. |
| 13 | MUTE | I/O | When the signal of IF REQ of IC121(LC72131) appear, the signal of FM/AM IF output. //Muting control input. | 28 | REG | O | Register value between pin 26 and pin28 besides the frequency width of the input signal. |
| 14 | FM/AM | I | Change over the FM/AM input. "H" :FM, "L" : AM | 29 | AM OSC | — | This is a terminal of AM Local oscillation circuit. |
| 15 | MONO/ST | O | Stereo : "H", Mono: "L" | 30 | OSC BUFFER | O | AM Local oscillation Signal output. |

■ LC72136N (IC121) : PLL frequency synthesizer

1. Pin layout

| | | | |
|-----------|----|----|--------|
| XT | 1 | 22 | XT |
| FM/AM | 2 | 21 | GND |
| CE | 3 | 20 | LPFOUT |
| DI | 4 | 19 | LPFIN |
| CLOCK | 5 | 18 | PD |
| DO | 6 | 17 | VCC |
| FM/ST/VCO | 7 | 16 | FMIN |
| AM/FM | 8 | 15 | AMIN |
| | 9 | 14 | |
| | 10 | 13 | IFCONT |
| SDIN | 11 | 12 | IFIN |

2. Block diagram

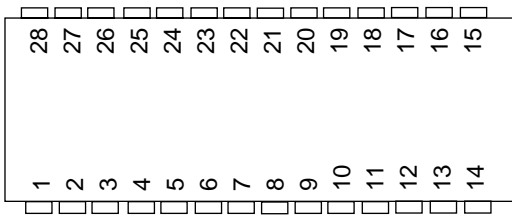


3. Pin function

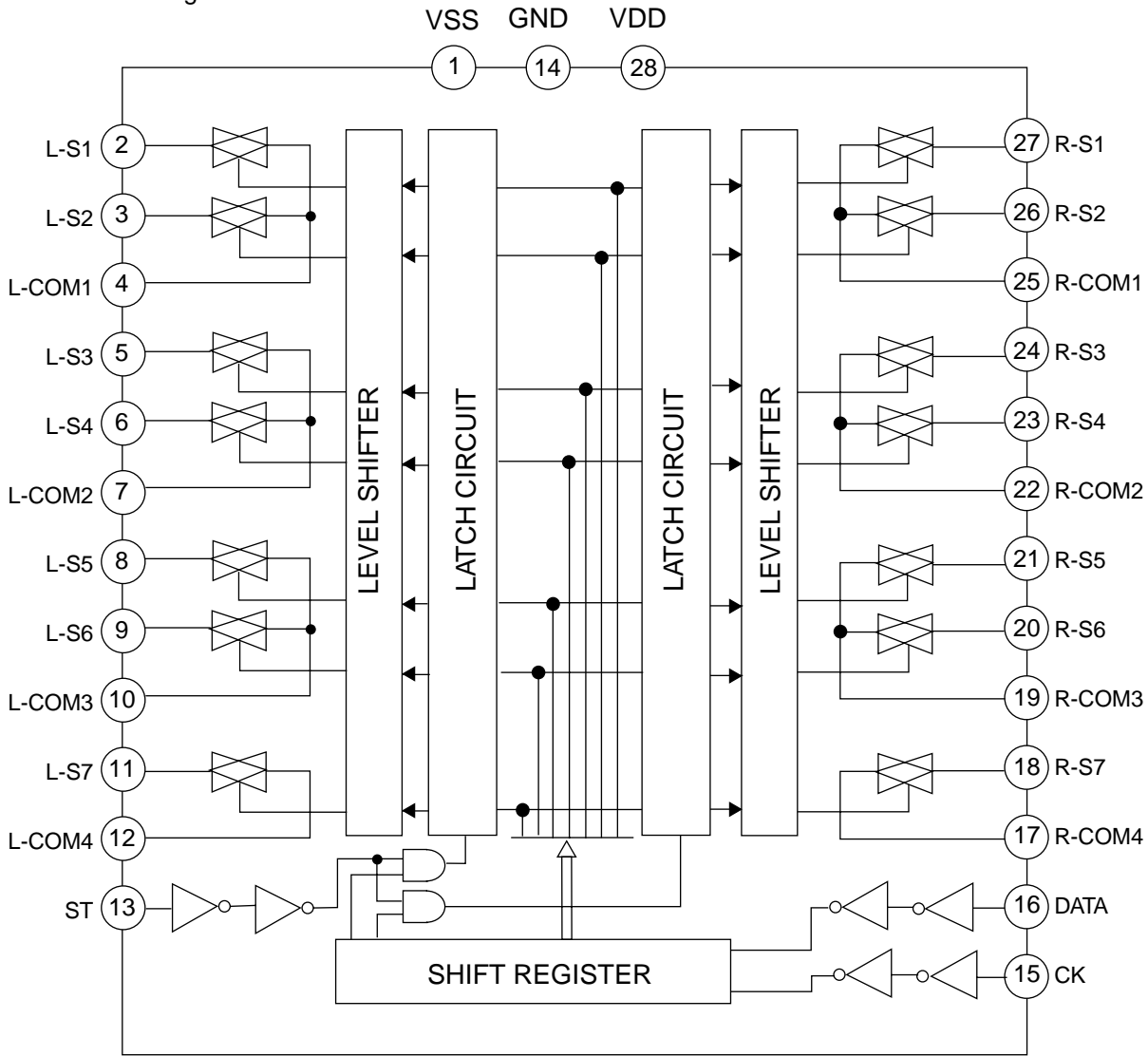
| Pin No. | Symbol | I/O | Function | Pin No. | Symbol | I/O | Function |
|---------|-----------|-----|--|---------|--------|-----|---|
| 1 | XT | I | X'tal oscillator connect (75kHz) | 12 | IFIN | I | IF counter signal input |
| 2 | FM/AM | O | LOW:FM mode | 13 | IFCONT | O | IF signal output |
| 3 | CE | I | When data output/input for 4pin(input) and 6pin(output): H | 14 | - | - | Not use |
| 4 | DI | I | Input for receive the serial data from controller | 15 | AMIN | I | AM Local OSC signal output |
| 5 | CLOCK | I | Sync signal input use | 16 | FMIN | I | FM Local OSC signal input |
| 6 | DO | O | Data output for Controller Output port | 17 | VCC | - | Power suply(VDD=4.5-5.5V) When power ON:Reset circuit move |
| 7 | FM/ST/VCO | O | "Low": MW mode | 18 | PD | O | PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance) |
| 8 | AM/FM | O | Open state after the power on reset | 19 | LPFIN | I | Input for active lowpassfilter of PLL |
| 9 | LW | I/O | Input/output port | 20 | LPFOUT | O | Output for active lowpassfilter of PLL |
| 10 | MW | I/O | Input/output port | 21 | GND | - | Connected to GND |
| 11 | SDIN | I/O | Data input/output | 22 | XT | I | X'tal oscillator(75KHz) |

■ **TC9162AF (IC423) : Analog switch**

1. Pin layout



2. Block diagram



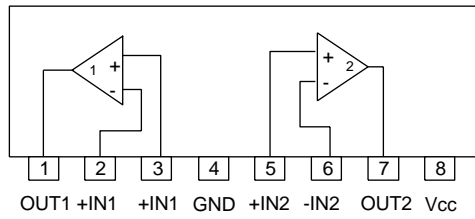
**■ TC9446F-025 (IC631) : Digital signal processor for dolby digital (AC-3)
/ DTS audio decode**

| Pin No. | Symbol | I/O | Function |
|---------|-----------------|-----|---|
| 1 | RST | I | Reset signal input terminal (L:reset H: normal operation) |
| 2 | MIMD | I | Microcomputer interface mode selection input terminal (L:serial H:IC bus) |
| 3 | MICS | I | Microcomputer interface chip select input terminal |
| 4 | MILP | I | Microcomputer interface latch pulse input |
| 5 | MIDIO | I/O | Microcomputer interface data I/O terminal |
| 6 | MICK | I | Microcomputer interface clock input terminal |
| 7 | MIACK | O | Microcomputer interface acknowledge output terminal |
| 8~11 | FI0~3 | I | Flag input terminal 0~3 |
| 12 | IRQ | I | Interrupt input terminal |
| 13 | VSS | - | Digital ground terminal |
| 14 | LRCKA | I | Audio interface LR clock input terminal A |
| 15 | BCKA | I | Audio interface bit clock input terminal A |
| 16~18 | SDO0~2 | O | Audio interface data output terminal 0 |
| 19 | SD03 | - | Non connect |
| 20 | LRCKB | I | Audio interface LR clock input terminal B |
| 21 | BCKB | I | Audio interface bit clock input terminal B |
| 22 | SDT0 | I | Audio interface data input terminal 0 |
| 23 | SDT1 | I | Audio interface data input terminal 1 |
| 24 | VDD | - | Power supply for digital circuit |
| 25 | LRCKOA | O | Audio interface LR clock output terminal A |
| 26 | BCKOA | O | Audio interface bit clock output terminal A |
| 27,28 | TEST0,1 | I | Test input terminal 0/1 (L:test H: normal operation) |
| 29~30 | LRCKOB,BCKOB | - | Non connect |
| 31 | TXO | O | SPDIF Output |
| 32,33 | TEST2,3 | I | Test input terminal (L:test H: normal operation) |
| 34 | RX | I | SPDIF input terminal |
| 35 | VSS | - | Ground terminal for digital circuit |
| 36 | TSTSUB0 | I | Test sub input terminal 0 (L:test H: normal operation) |
| 37 | FCONT | O | VCO Frequency control output terminal |
| 38,39 | TSTSUB1,TSTSUB2 | I | Test sub input terminal 1,2 (L:test H: normal operation) |
| 40 | PDO | O | Phase detect signal output terminal |
| 41 | VDDA | - | Power supply for analog circuit |
| 42 | PLON | I | Clock selection input terminal (L:external clock H:VCO clock) |
| 43 | AMPI | I | amplifier input terminal for LPF |
| 44 | AMPO | O | amplifier output terminal for LPF |
| 45 | CKI | I | External clock input terminal |
| 46 | VSSA | - | Ground terminal for analog circuit |
| 47 | CKO | O | DIR Clock output terminal |
| 48 | LOCK | O | VCO Lock output terminal |
| 49 | VSS | - | Ground terminal for digital circuit |
| 50 | WR | O | External SRAM writing signal output terminal |
| 51 | OE | O | External SRAM output enable signal output terminal |
| 52 | CE | O | External SRAM chip enable signal output terminal |
| 53 | VDD | - | Power supply terminal for digital circuit |
| 54~61 | IO7~0 | I/O | External SRAM data I/O terminal 7~0 |
| 62 | VSS | - | Ground terminal for digital circuit |
| 63~70 | AD0~7 | O | External SRAM address output terminal 0~7 |
| 71 | VDD | - | Power supply terminal for digital circuit |
| 72~80 | AD8~16 | O | External SRAM address output terminal 8~16 |
| 81 | VSS | - | Ground terminal for digital circuit |
| 82~89 | PO0~7 | O | General purpose output terminal 0~7 |
| 90 | VDDDL | - | Power supply terminal for DLL |
| 91 | LPFO | O | LPF output terminal for DLL |
| 92,93 | DLON,DLCKS | I | Refer to the undermentioned table |
| 94 | SCKO | - | Non connect |
| 95 | VSSDL | - | Ground terminal for DLL |
| 96 | SCKI | I | External system clock input terminal |
| 97 | VSSX | - | Ground terminal for oscillation circuit |
| 98,99 | XO,XI | I/O | Oscillation I/O terminal |
| 100 | VDDX | - | Power supply terminal for oscillation circuit |

| DLCKS terminal | DLONterminal | DLL clock setting |
|----------------|--------------|------------------------------|
| L | L | SCKI input (DLL circuit OFF) |
| L | H | Four times XI clock |
| H | L | Three times XI clock |
| H | H | Six times XI clock |

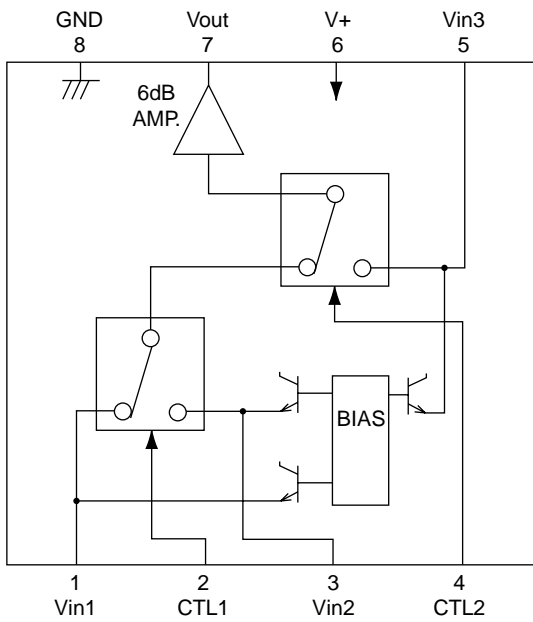
■ **BA15218N (IC403) : Dual ope. amp.**

1. Pin layout / Block diagram



■ **NJM2246D (IC501) : Video switch**

1. Pin layout / Block diagram

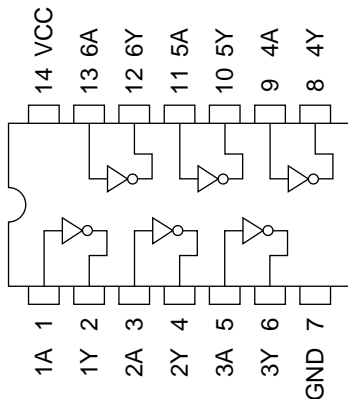


Control input - output signal

| CTL 1 | CTL 2 | Output |
|-------|-------|--------|
| L | L | VIN 1 |
| H | L | VIN 2 |
| L/H | H | VIN 3 |

■ **TC74HCU04AF (IC621) : Inverter**

1. Pin layout

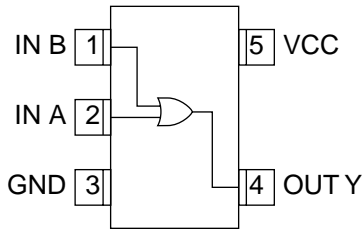


2. Truth value

| | |
|---|---|
| A | Y |
| L | H |
| H | L |

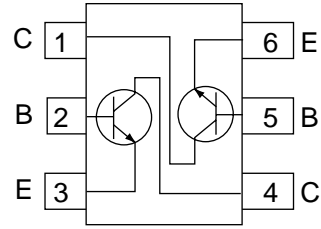
■ **TC7SET32FU (IC672) : Z-Input or gate**

1. Pin layout / Block diagram



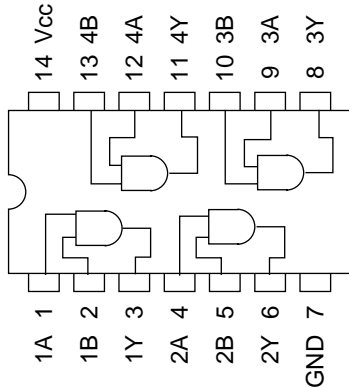
■ **IMX9-W (IC652, IC662, IC682) : Driver**

1. Pin layout / Block diagram



■ **TC74HCU08AF (IC611) : Inverter**

1. Pin layout / Block diagram

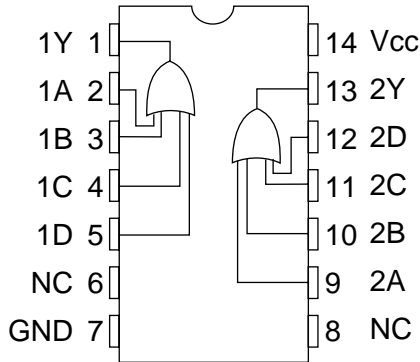


2. The truth value table

| A | B | Y |
|---|---|---|
| L | L | L |
| L | H | L |
| H | L | L |
| H | H | H |

■ **TC74HC4072AF (IC612) : 4-Input gate**

1. Pin layout & block diagram

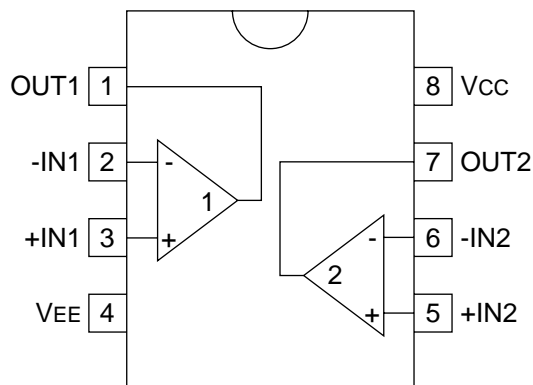


2. Truth table

| A | B | C | D | Y |
|---|---|---|---|---|
| H | X | X | X | H |
| X | H | X | X | H |
| X | X | H | X | H |
| X | X | X | H | H |
| L | L | L | L | L |

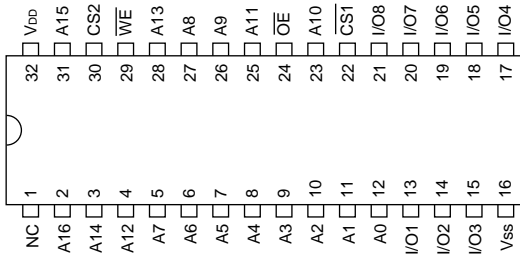
■ **BA15218F (IC427, 609, 610, 650, 651, 661, 690, 691) : Op amp.**

1. Pin layout / Block diagram

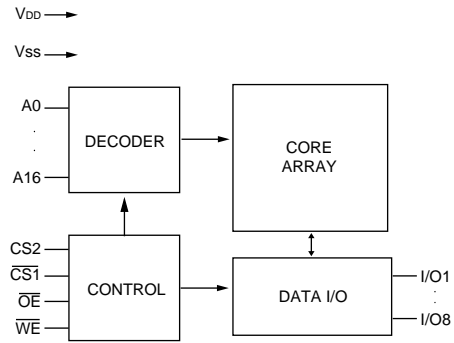


■ **W24L010AJ-12 (IC641) : SRAM**

1. Pin layout



2. Block diagram



3. Pin function

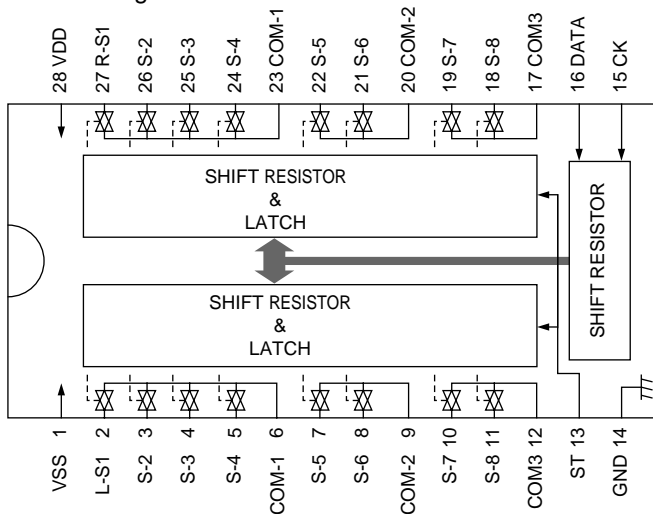
| Pin No. | Symbol | Function | Pin No. | Symbol | Function |
|---------|--------|-------------------|---------|------------------|---------------------|
| 1 | NC | No Connection | 17 | I/O4 | Data Input/Output |
| 2 | A16 | Address Input | 18 | I/O5 | Data Input/Output |
| 3 | A14 | Address Input | 19 | I/O6 | Data Input/Output |
| 4 | A12 | Address Input | 20 | I/O7 | Data Input/Output |
| 5 | A7 | Address Input | 21 | I/O8 | Data Input/Output |
| 6 | A6 | Address Input | 22 | $\overline{CS1}$ | Chip Select Inputs |
| 7 | A5 | Address Input | 23 | A10 | Address Input |
| 8 | A4 | Address Input | 24 | \overline{OE} | Output Enable Input |
| 9 | A3 | Address Input | 25 | A11 | Address Input |
| 10 | A2 | Address Input | 26 | A9 | Address Input |
| 11 | A1 | Address Input | 27 | A8 | Address Input |
| 12 | A0 | Address Input | 28 | A13 | Address Input |
| 13 | I/O1 | Data Input/Output | 29 | \overline{WE} | Write Enable Input |
| 14 | I/O2 | Data Input/Output | 30 | CS2 | Chip Select Inputs |
| 15 | I/O3 | Data Input/Output | 31 | A15 | Address Input |
| 16 | Vss | Ground | 32 | VDD | Power Supply |

■ **TC9164AN (IC402) : Analog switch**

1. Function

Switch to On/Off of S1 to S8 by control of LSI.

2. Pin layout & Block Diagram



< MEMO >

RX-5020VBK/RX-5022VSL

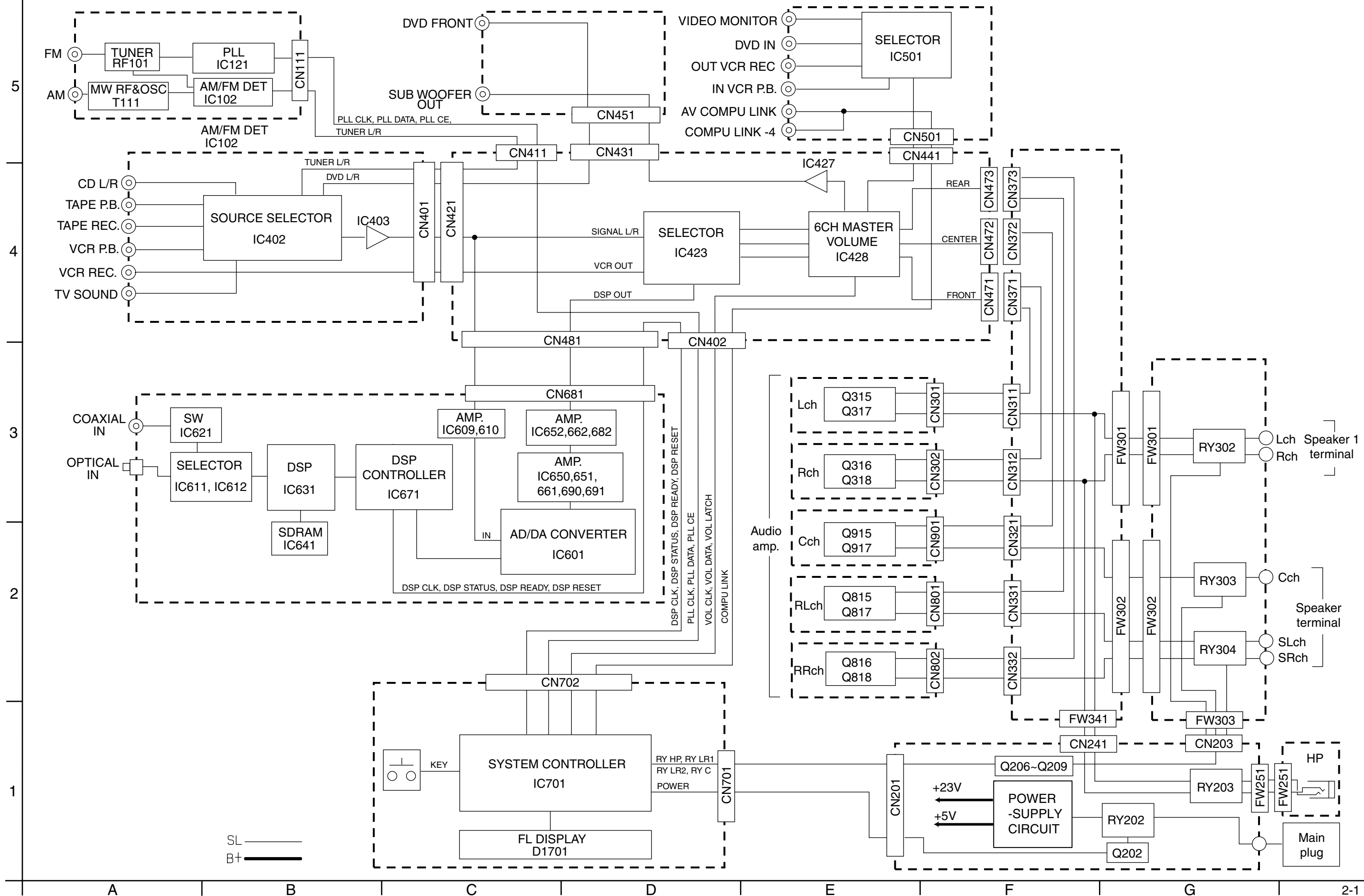
JVC

VICTOR COMPANY OF JAPAN, LIMITED

AUDIO & COMMUNICATION BUSINESS DIVISION

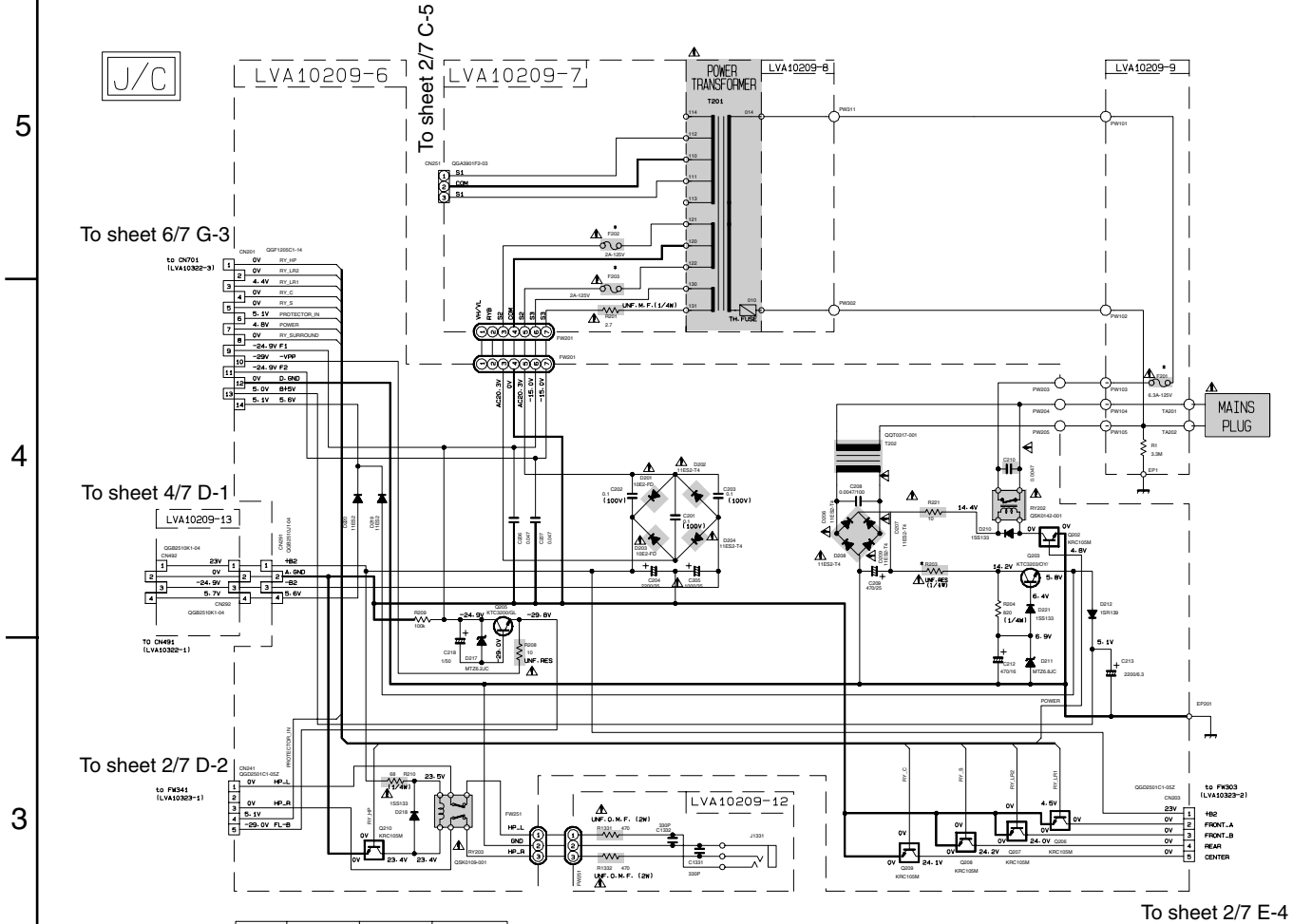
PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

Block diagram



Standard schematic diagrams

■ Power supply section



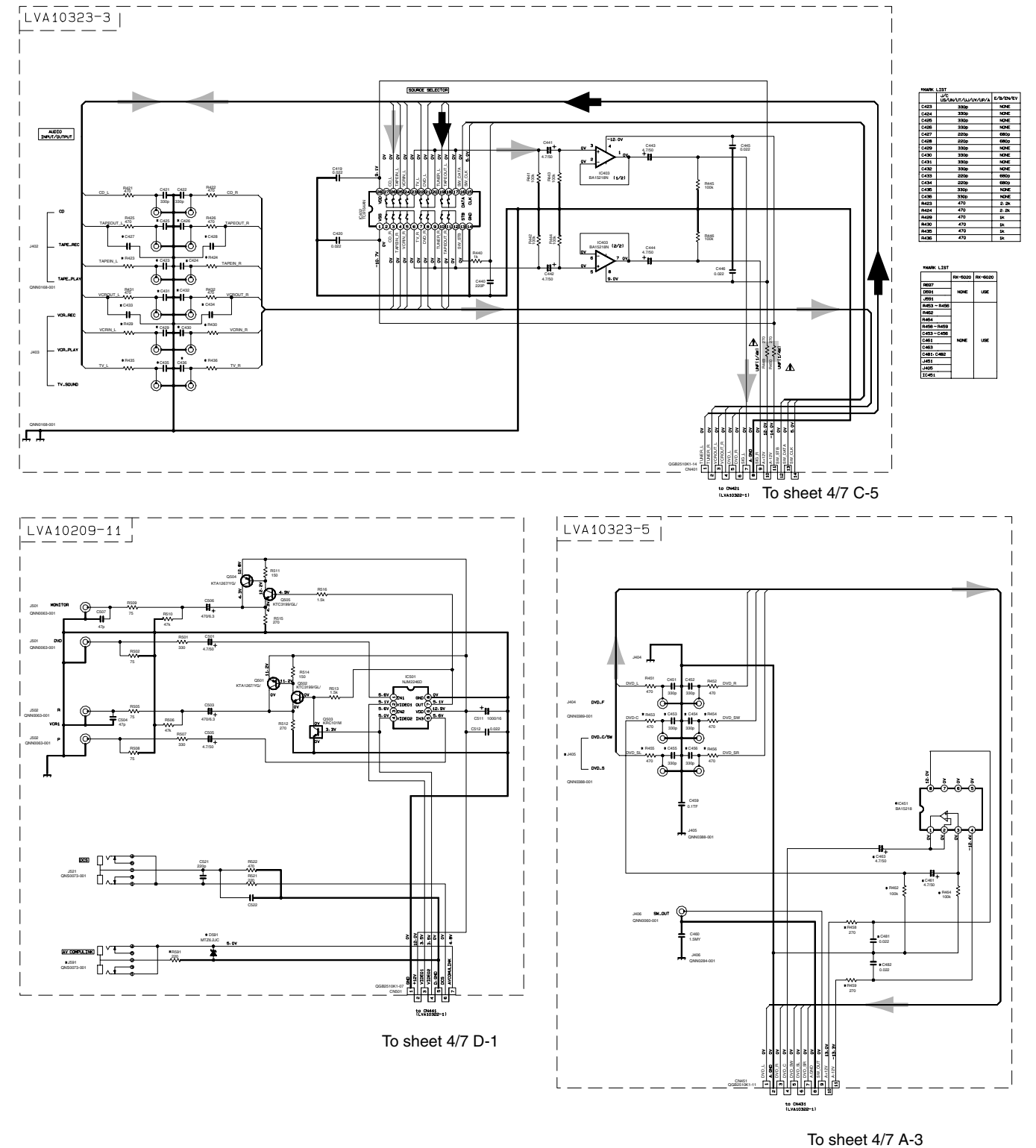
| | J/C | B/E/TN/VE/VA | US/NT/AL/AV |
|------------|--------------------------|-------------------------|-------------------------|
| F201 | DPS101-6R3-B (6.3A-150V) | DPS142-2R0-AB (2A-250V) | DPS142-2R0-B (2A-250V) |
| F203, F203 | DPS111-2R0-AB (2A-150V) | DPS114-2R0-AB (2A-250V) | DPS114-2R0-B (2A-250V) |
| F204 | NONE | NONE | DPS142-2R0-AB (2A-250V) |
| F205 | NONE | DPS142-2R0-AB (2A-250V) | DPS142-2R0-AB (2A-250V) |
| B170 | USE | NONE | NONE |
| Y5001 | NONE | NONE | USE |

| | J/C | B/E/TN/VE/VA | US/NT/AL/AV | UV/A |
|------------|-------------|--------------|-------------|-------------|
| R11, R11 | USE | NONE | NONE | NONE |
| R011, R012 | NONE | NONE | NONE | USE |
| D000, D003 | NONE | NONE | NONE | USE |
| Q011, Q105 | NONE | NONE | NONE | USE |
| R021, B146 | USE | USE | NONE | NONE |
| R203 | 10 | 10 | 5.0 | 5.0 |
| T202 | 0070317-001 | 0070301-000 | 0070301-004 | 0070301-004 |
| C209 | 470/25 | 470/25 | 470/63 | 470/63 |
| R204 | 2.7 | 4.7 | 5.6 | 5.6 |
| C1331 | 330P | 0.001 | 330P | 330P |
| C1332 | 330P | 0.001 | 330P | 330P |
| C021 | NONE | USE | NONE | NONE |

| SHEET No. | CIRCUIT DESCRIPTION |
|-----------|--|
| 1/7 | POWER SUPPLY / AUDIO VIDEO SIGNAL INPUT TERMINAL |
| 2/7 | SPEAKER TERMINAL |
| 3/7 | AUDIO AMP |
| 4/7 | VOLUME / REGULATOR / SOURCE SELECT IC |
| 5/7 | SURROUND IC / DIGITAL SIGNAL INPUT TERMINAL |
| 6/7 | USER CONTROL KEY / SYSTEM CONTROL LSI / FL DISPLAY |
| 7/7 | TUNER |

▲ Parts are safety assurance parts. When replacing those parts make sure to use the specified.

■ Audio / Video signal input terminal section

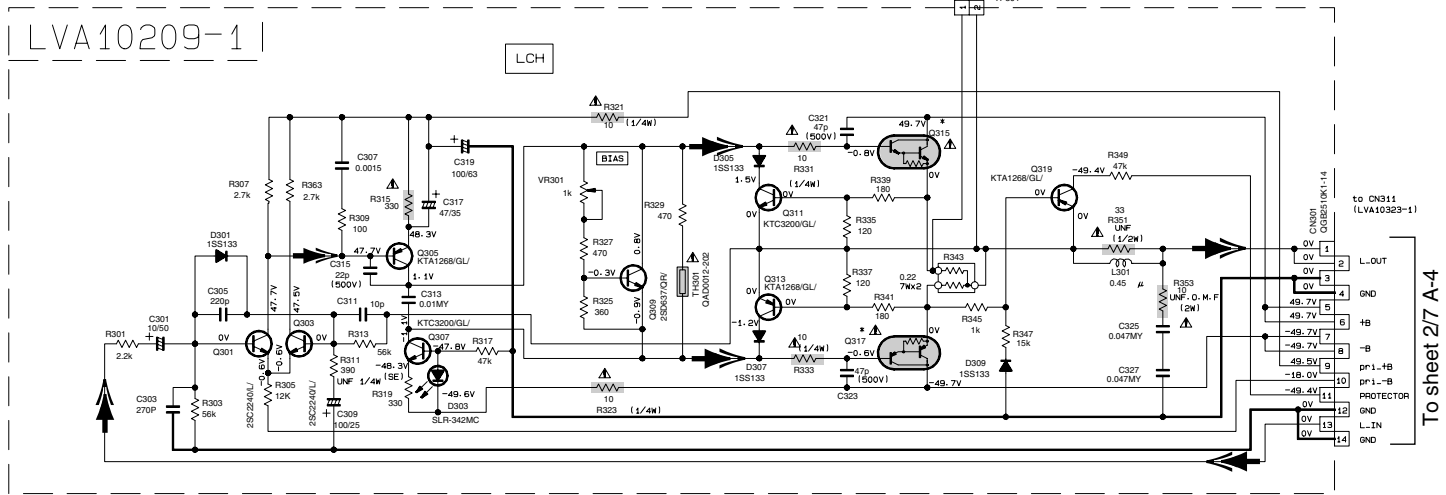


| | J/C | B/E/TN/VE/VA | US/NT/AL/AV |
|------|------|--------------|-------------|
| C463 | 3300 | NONE | NONE |
| C464 | 3300 | NONE | NONE |
| C465 | 3300 | NONE | NONE |
| C466 | 3300 | NONE | NONE |
| C467 | 3300 | NONE | NONE |
| C468 | 3300 | NONE | NONE |
| C469 | 3300 | NONE | NONE |
| C470 | 3300 | NONE | NONE |
| C471 | 3300 | NONE | NONE |
| C472 | 3300 | NONE | NONE |
| C473 | 3300 | NONE | NONE |
| C474 | 3300 | NONE | NONE |
| C475 | 3300 | NONE | NONE |
| C476 | 3300 | NONE | NONE |
| C477 | 3300 | NONE | NONE |
| C478 | 3300 | NONE | NONE |
| C479 | 3300 | NONE | NONE |
| C480 | 3300 | NONE | NONE |
| C481 | 3300 | NONE | NONE |
| C482 | 3300 | NONE | NONE |
| C483 | 3300 | NONE | NONE |
| C484 | 3300 | NONE | NONE |
| C485 | 3300 | NONE | NONE |
| C486 | 3300 | NONE | NONE |
| C487 | 3300 | NONE | NONE |
| C488 | 3300 | NONE | NONE |
| C489 | 3300 | NONE | NONE |
| C490 | 3300 | NONE | NONE |
| C491 | 3300 | NONE | NONE |
| C492 | 3300 | NONE | NONE |
| C493 | 3300 | NONE | NONE |
| C494 | 3300 | NONE | NONE |
| C495 | 3300 | NONE | NONE |
| C496 | 3300 | NONE | NONE |
| C497 | 3300 | NONE | NONE |
| C498 | 3300 | NONE | NONE |
| C499 | 3300 | NONE | NONE |
| C500 | 3300 | NONE | NONE |
| C501 | 3300 | NONE | NONE |
| C502 | 3300 | NONE | NONE |
| C503 | 3300 | NONE | NONE |
| C504 | 3300 | NONE | NONE |
| C505 | 3300 | NONE | NONE |
| C506 | 3300 | NONE | NONE |
| C507 | 3300 | NONE | NONE |
| C508 | 3300 | NONE | NONE |
| C509 | 3300 | NONE | NONE |
| C510 | 3300 | NONE | NONE |

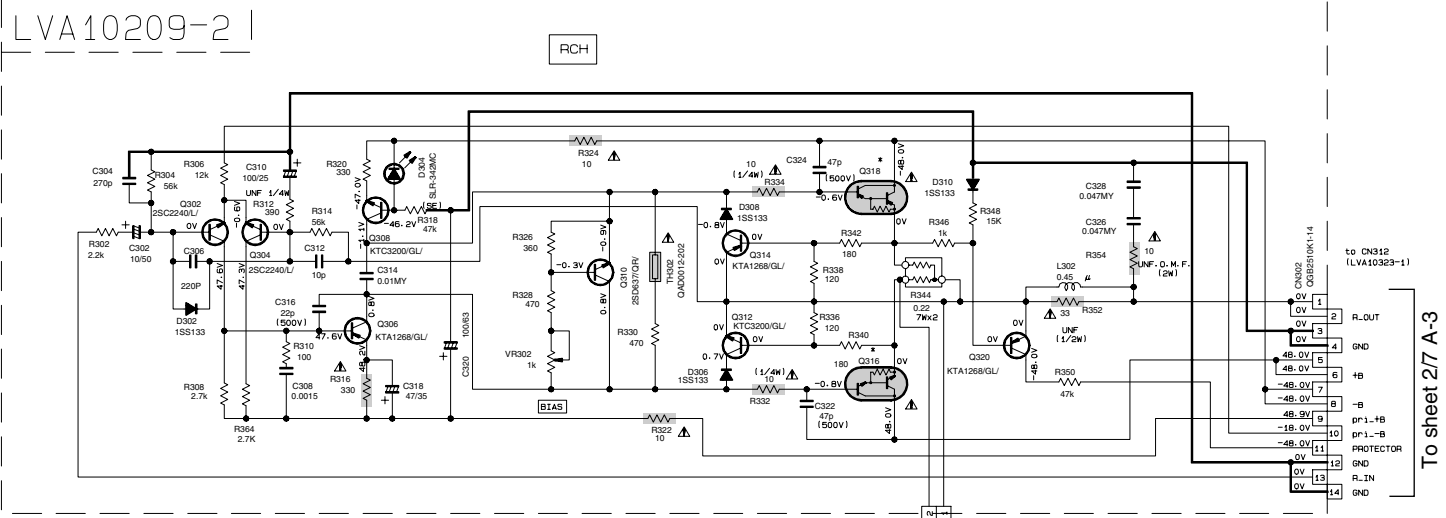
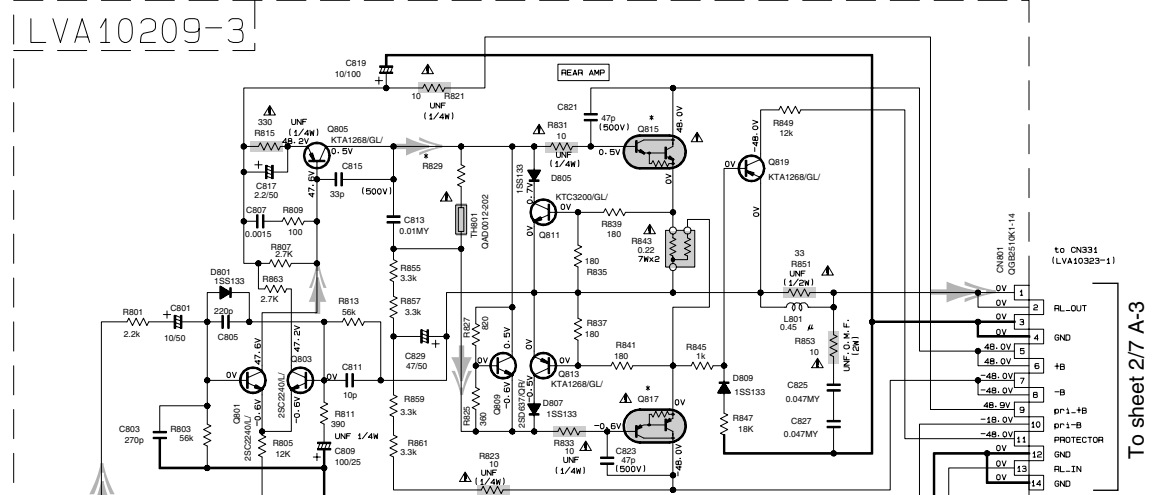
| | J/C | B/E/TN/VE/VA | US/NT/AL/AV |
|------|-----|--------------|-------------|
| R001 | USE | NONE | USE |
| R002 | USE | NONE | USE |
| R003 | USE | NONE | USE |
| R004 | USE | NONE | USE |
| R005 | USE | NONE | USE |
| R006 | USE | NONE | USE |
| R007 | USE | NONE | USE |
| R008 | USE | NONE | USE |
| R009 | USE | NONE | USE |
| R010 | USE | NONE | USE |
| R011 | USE | NONE | USE |
| R012 | USE | NONE | USE |
| R013 | USE | NONE | USE |
| R014 | USE | NONE | USE |
| R015 | USE | NONE | USE |

■ Audio amplifier section

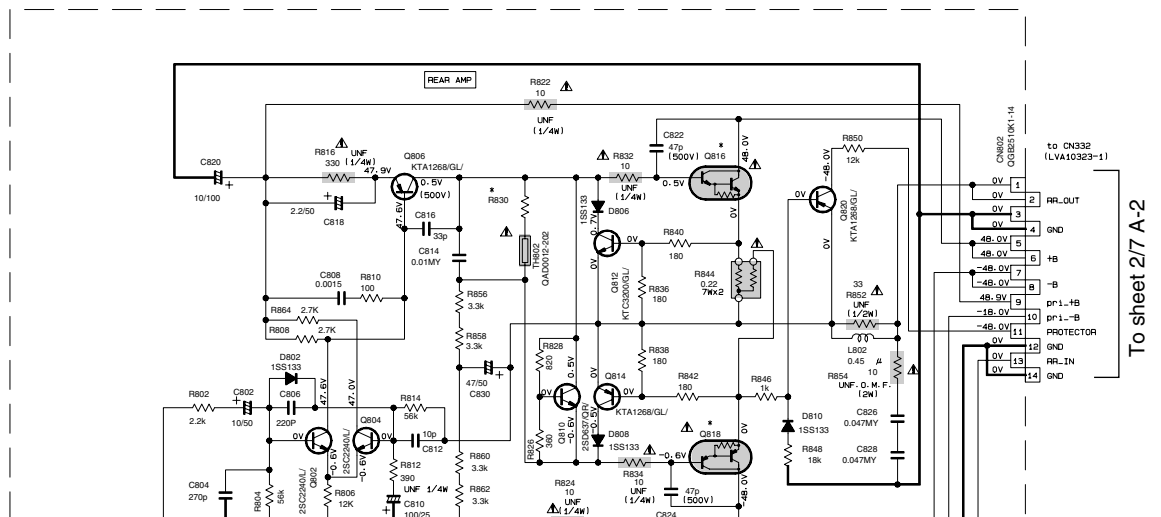
5



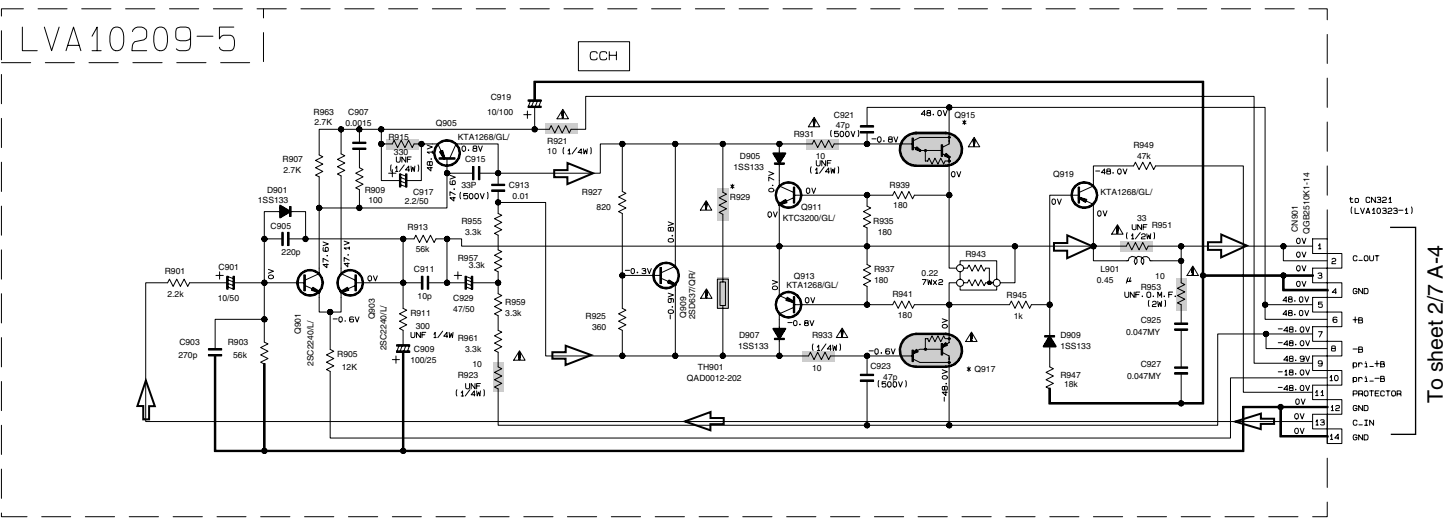
4



3



2



1

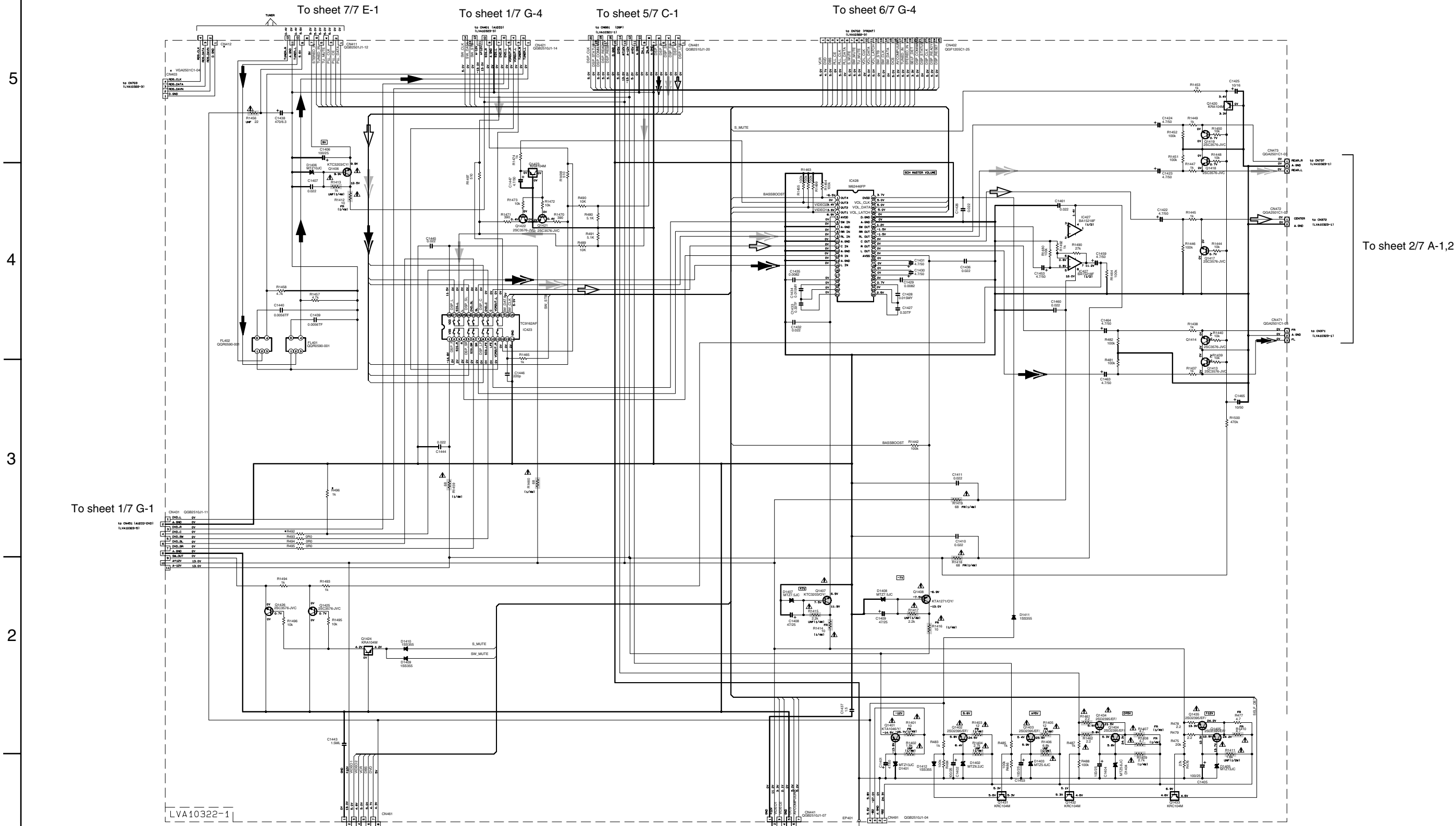
LVA10209-4

| MARK LIST | J/C | B/E/EN/EV | US/UN/UT/W/UY/UP/A |
|----------------------------------|-----------------|-----------------|--------------------|
| Q315- Q316 Q815- Q816 Q915 | 2SD2389/OPY/-F6 | 2SD2390/OPY/-F6 | 2SD2390/OPY/-F6 |
| Q317- Q318 Q817- Q818 Q917 | 2SB1559/OPY/-F6 | 2SB1560/OPY/-F6 | 2SB1560/OPY/-F6 |
| R829- R830 R929 | 470 | 470 | 220 |

- ➡ SURROUND signal
- ➡ FRONT signal
- ➡ CENTER signal

⚠ Parts are safety assurance parts.
When replacing those parts make sure to use the specified.

Main section
(Volume / Regulator / Source select)



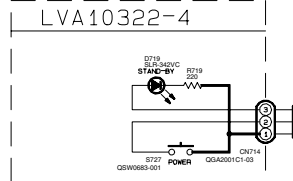
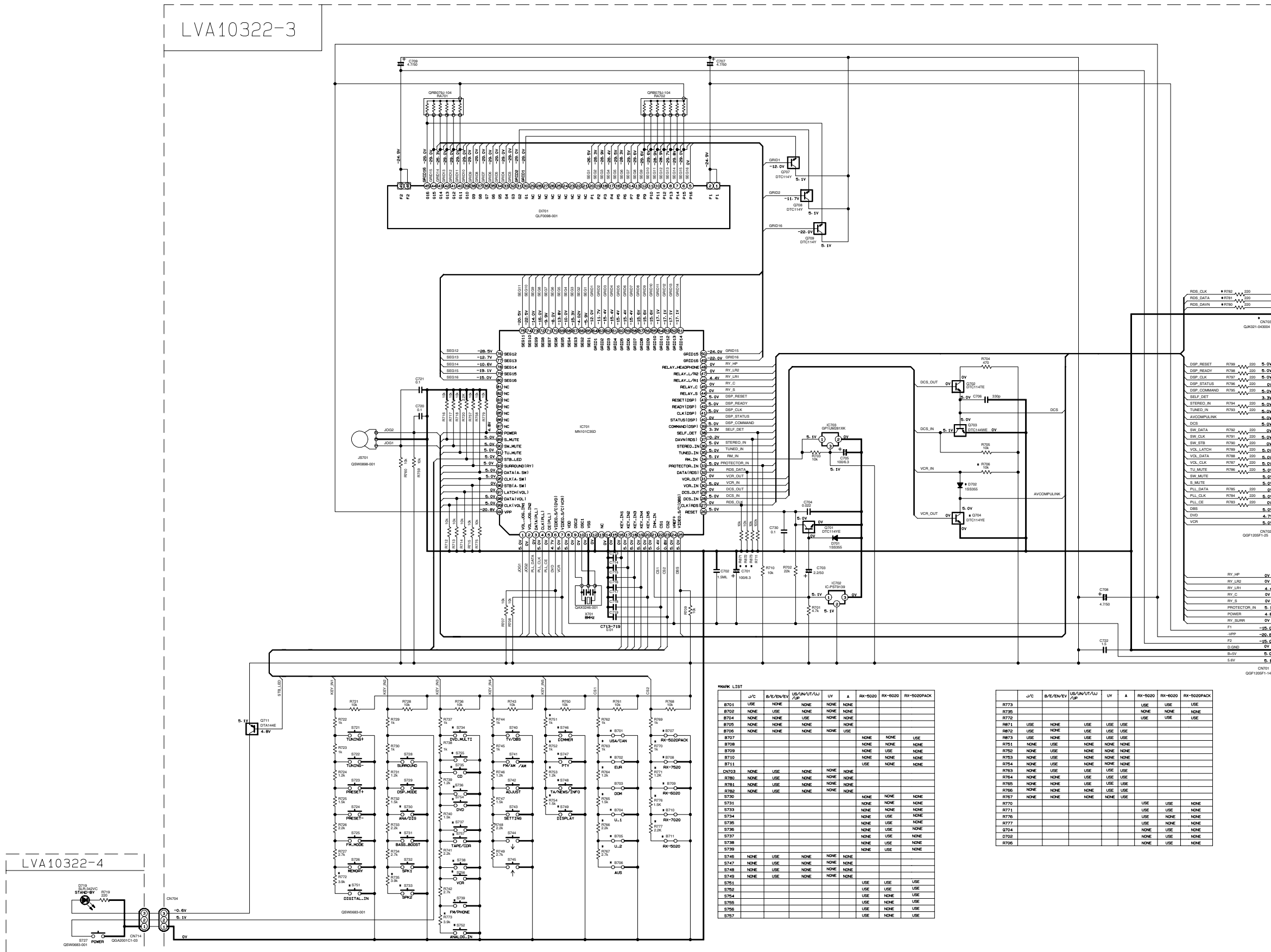
AUDIO signal
 TUNER signal
 SURROUND signal
 FRONT signal
 CENTER signal

Parts are safety assurance parts.
 When replacing those parts make sure to use the specified.

| Part No. | QTY | REMARKS |
|--------------|------|---------|
| CN412, CN403 | NONE | USE |

■ User control / System control / FL displaying section

5
4
3
2
1



MARK LIST

| J/C | B/E/EN/EN | US/IN/TA/J | U/P | A | RX-5020 | RX-6020 | RX-5020PACK |
|------|-----------|------------|------|------|---------|---------|-------------|
| R701 | USE | NONE | NONE | NONE | NONE | NONE | USE |
| R702 | NONE | USE | NONE | NONE | NONE | NONE | USE |
| R703 | NONE | NONE | USE | NONE | NONE | NONE | USE |
| R704 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R705 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R706 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R707 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R708 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R709 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R710 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R711 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R712 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R713 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R714 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R715 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R716 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R717 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R718 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R719 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R720 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R721 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R722 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R723 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R724 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R725 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R726 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R727 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R728 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R729 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R730 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R731 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R732 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R733 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R734 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R735 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R736 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R737 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R738 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R739 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R740 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R741 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R742 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R743 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R744 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R745 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R746 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R747 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R748 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R749 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R750 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R751 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R752 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R753 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R754 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R755 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R756 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R757 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R758 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R759 | NONE | NONE | NONE | NONE | NONE | NONE | USE |
| R760 | NONE | NONE | NONE | NONE | NONE | NONE | USE |

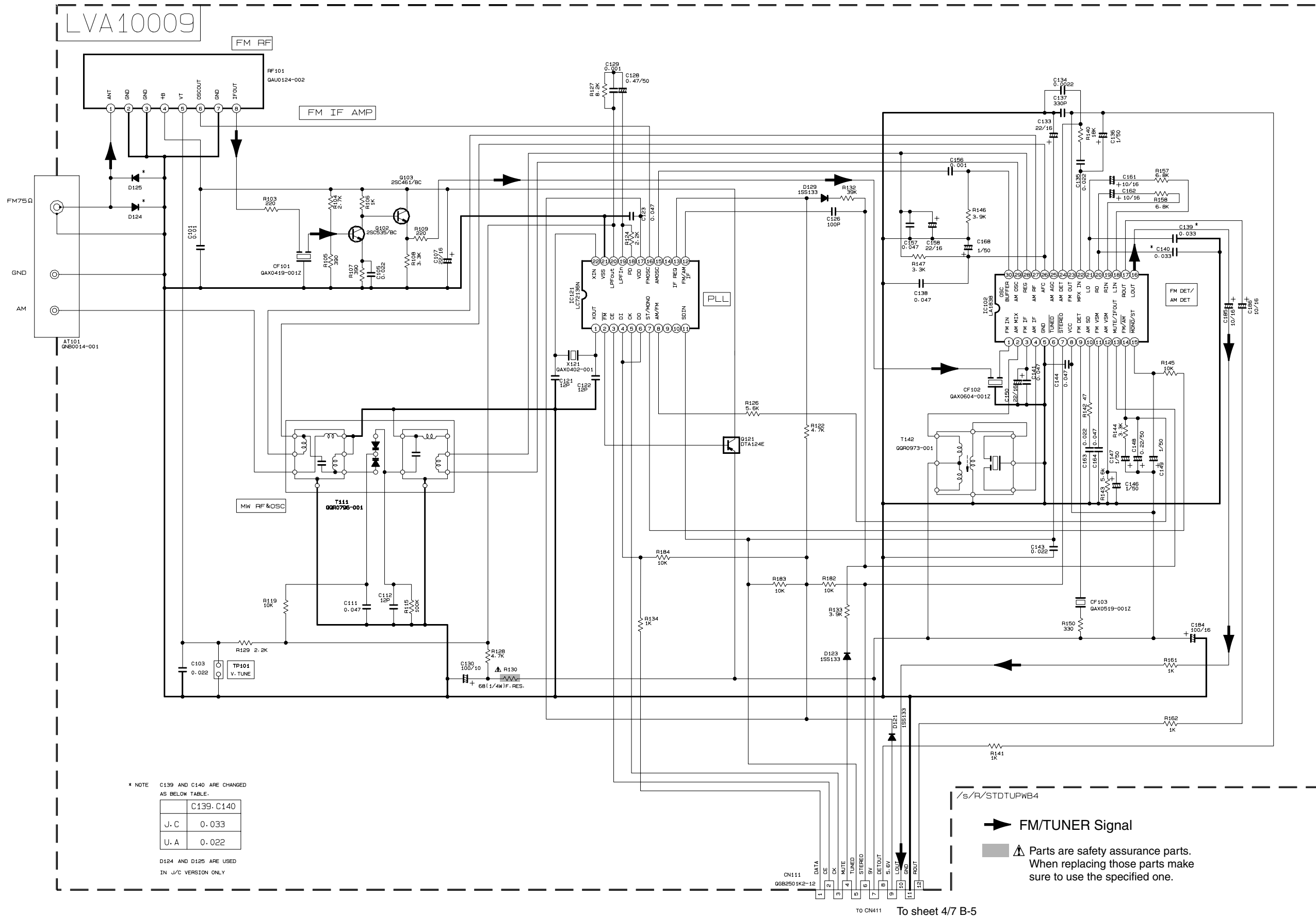
| J/C | B/E/EN/EN | US/IN/TA/J | U/P | A | RX-5020 | RX-6020 | RX-5020PACK |
|------|-----------|------------|-----|-----|---------|---------|-------------|
| R773 | | | | | USE | USE | USE |
| R775 | | | | | USE | USE | USE |
| R776 | | | | | USE | USE | USE |
| R777 | USE | NONE | USE | USE | USE | USE | USE |
| R778 | USE | NONE | USE | USE | USE | USE | USE |
| R779 | USE | NONE | USE | USE | USE | USE | USE |
| R780 | USE | NONE | USE | USE | USE | USE | USE |
| R781 | USE | NONE | USE | USE | USE | USE | USE |
| R782 | USE | NONE | USE | USE | USE | USE | USE |
| R783 | USE | NONE | USE | USE | USE | USE | USE |
| R784 | USE | NONE | USE | USE | USE | USE | USE |
| R785 | USE | NONE | USE | USE | USE | USE | USE |
| R786 | USE | NONE | USE | USE | USE | USE | USE |
| R787 | USE | NONE | USE | USE | USE | USE | USE |
| R788 | USE | NONE | USE | USE | USE | USE | USE |
| R789 | USE | NONE | USE | USE | USE | USE | USE |
| R790 | USE | NONE | USE | USE | USE | USE | USE |
| R791 | USE | NONE | USE | USE | USE | USE | USE |
| R792 | USE | NONE | USE | USE | USE | USE | USE |
| R793 | USE | NONE | USE | USE | USE | USE | USE |
| R794 | USE | NONE | USE | USE | USE | USE | USE |
| R795 | USE | NONE | USE | USE | USE | USE | USE |
| R796 | USE | NONE | USE | USE | USE | USE | USE |
| R797 | USE | NONE | USE | USE | USE | USE | USE |
| R798 | USE | NONE | USE | USE | USE | USE | USE |
| R799 | USE | NONE | USE | USE | USE | USE | USE |
| R800 | USE | NONE | USE | USE | USE | USE | USE |

TO CN403 (LVA10322-1)
TO CN402 (LVA10322-1)
TO CN401 (LVA10322-1)
TO CN201 (LVA10322-1)

To sheet 4/7 E-4

To sheet 1/7 A-4

■ Tuner section



Printed circuit boards

■ Main board

Wire protection board

Audio input board

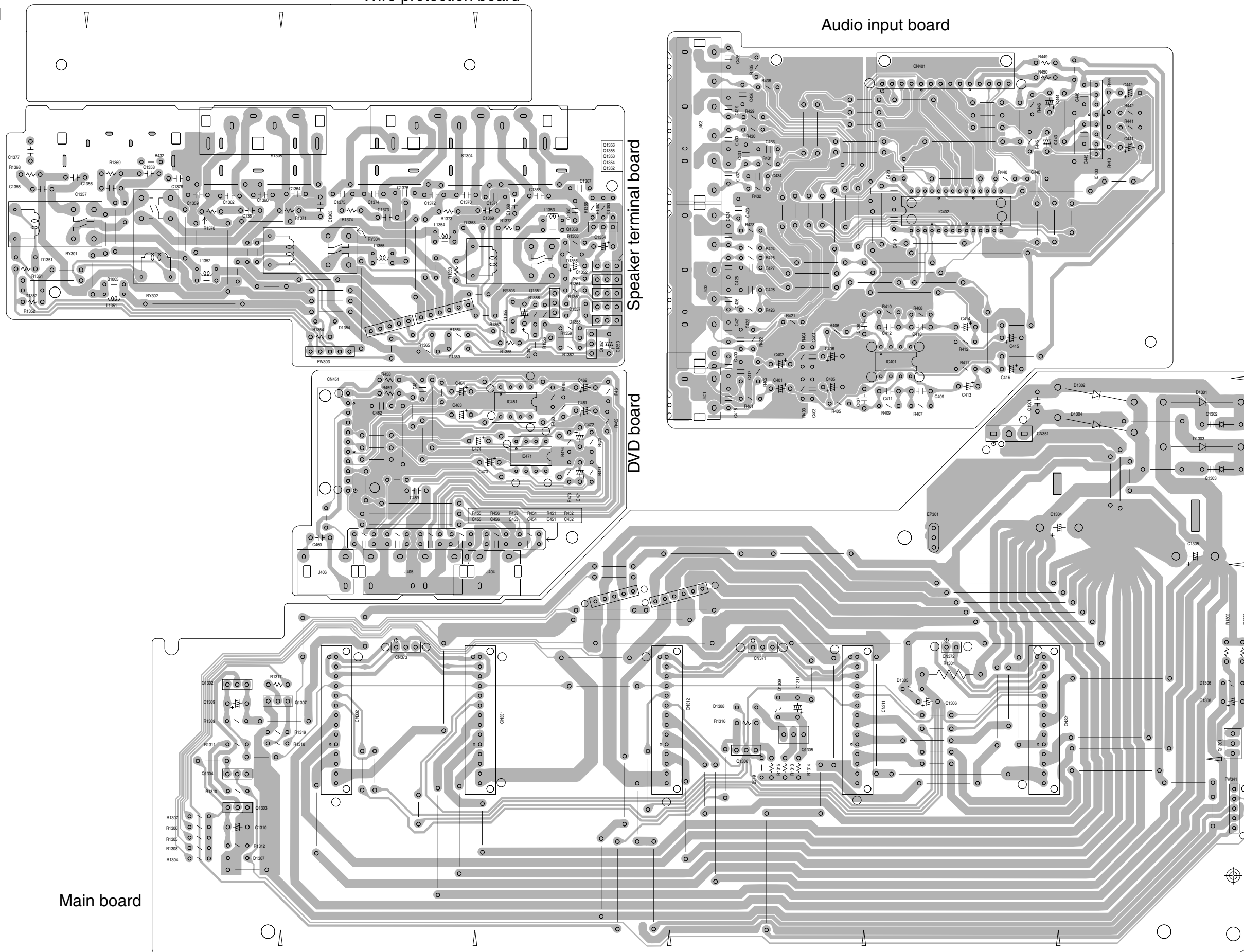
Speaker terminal board

DVD board

Main board

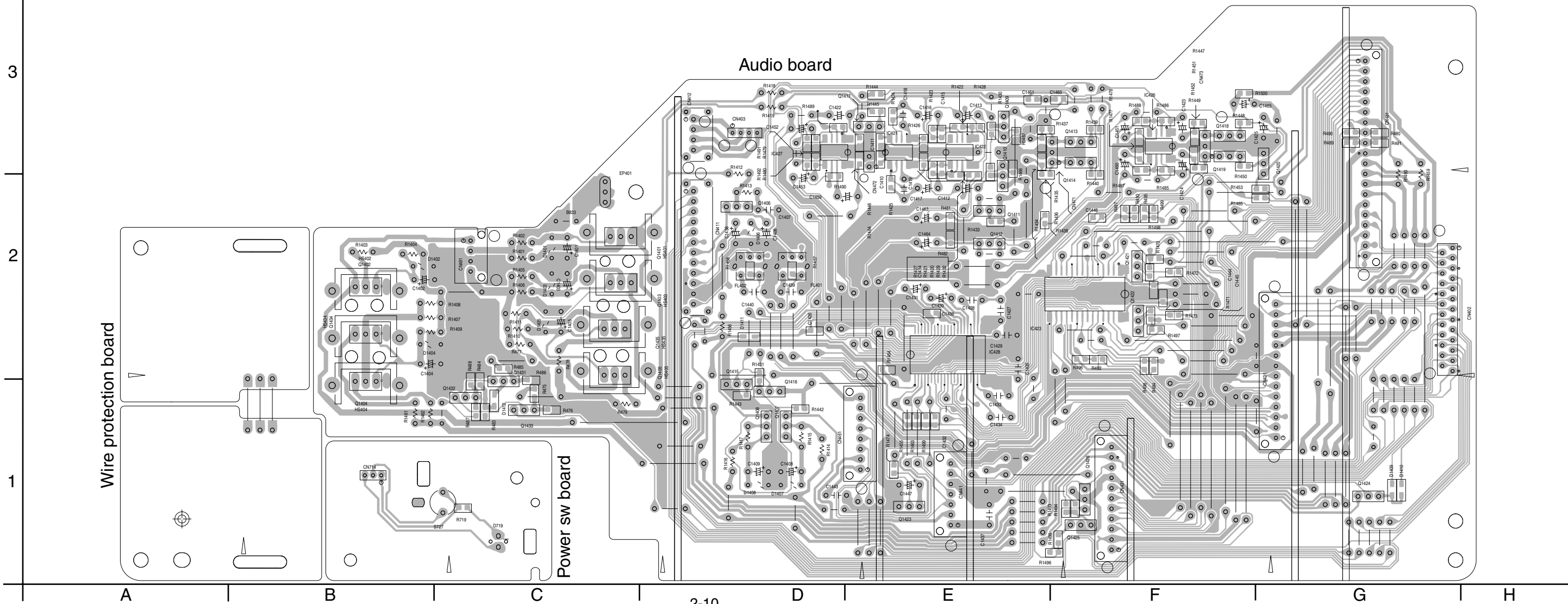
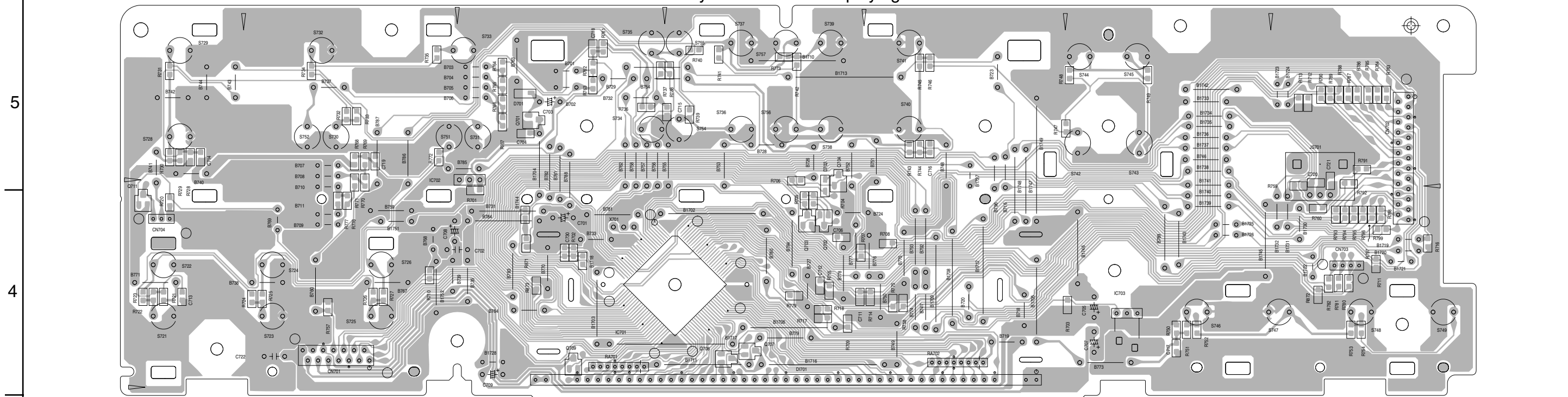
5
4
3
2
1

A B C D E F G 2-9



■ System control & Audio board

System control & displaying board



Wire protection board

Power sw board

5

4

3

2

1

A

B

C

2-10

D

E

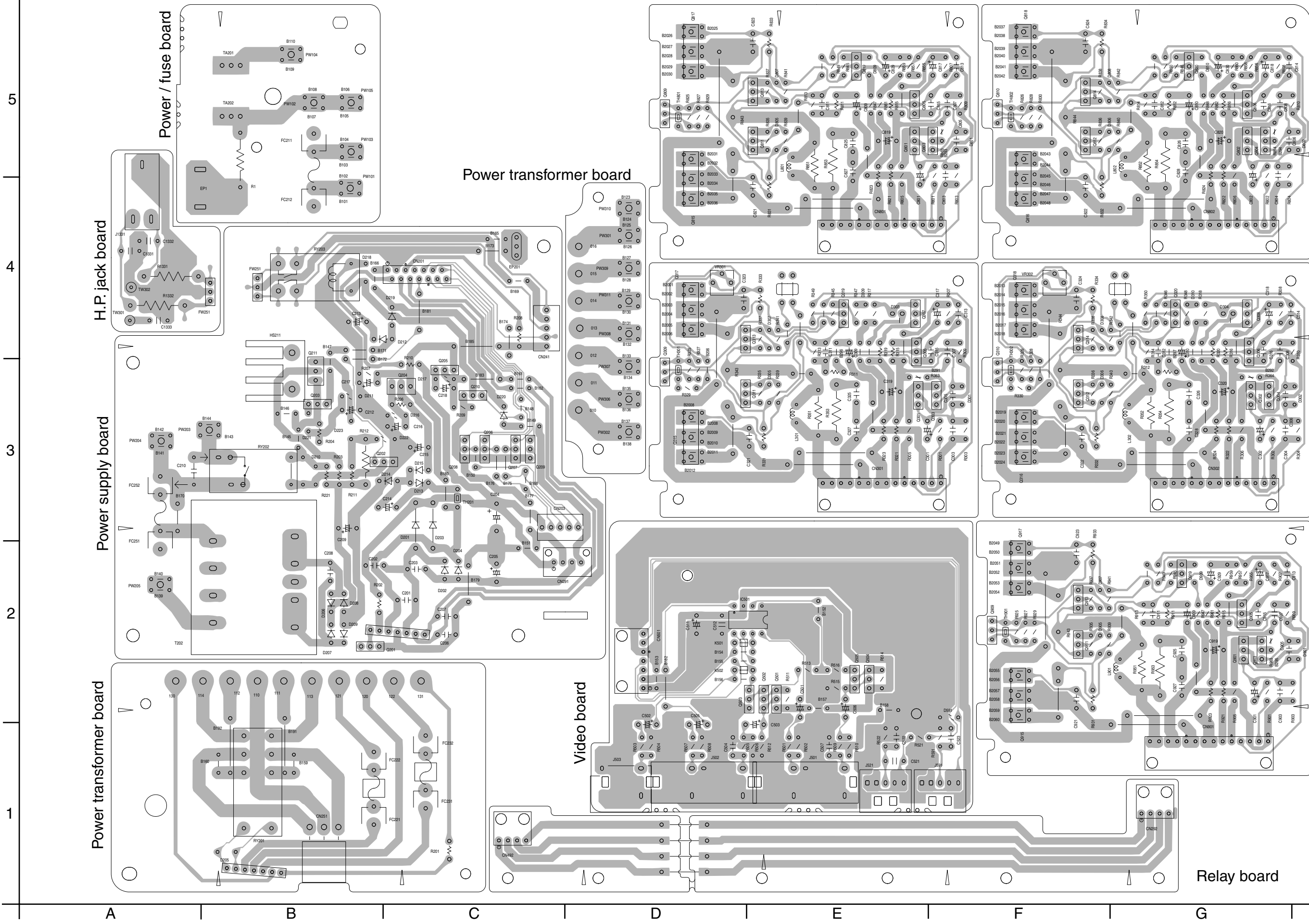
F

G

H

■ Power amp. board

Amplifier board



H.P. jack board

Power supply board

Power transformer board

Power transformer board

Video board

Relay board

5

4

3

2

1

A

B

C

D

E

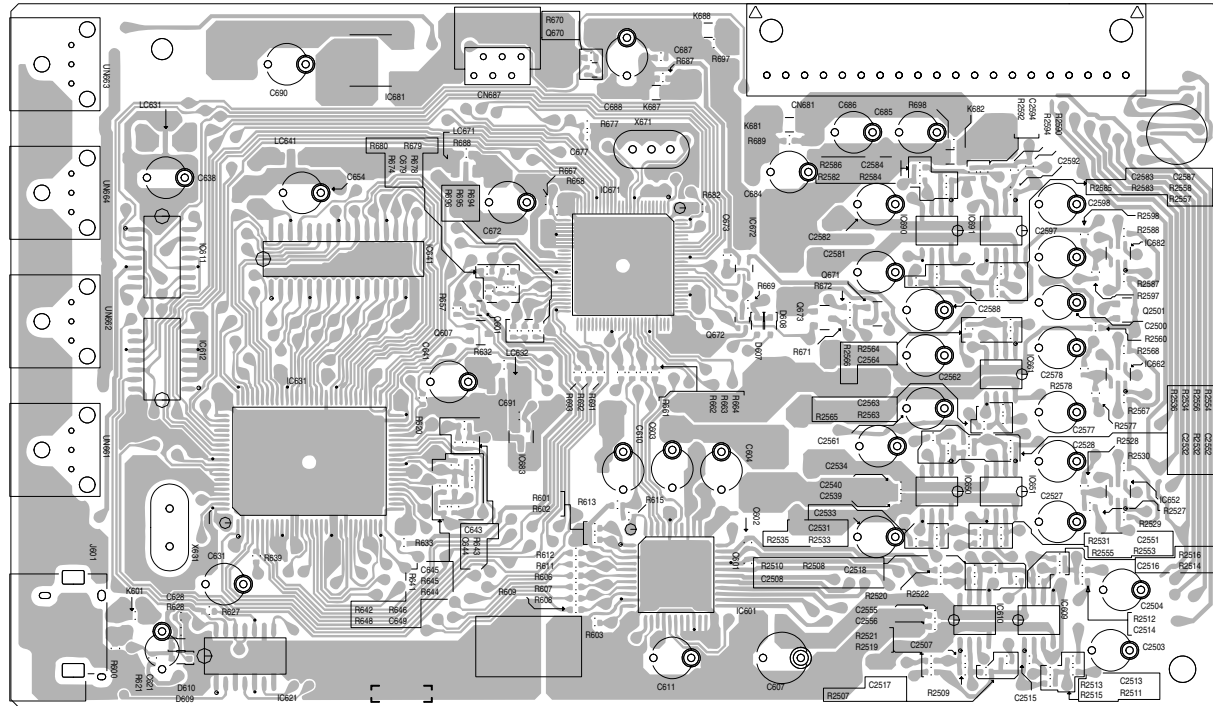
F

G

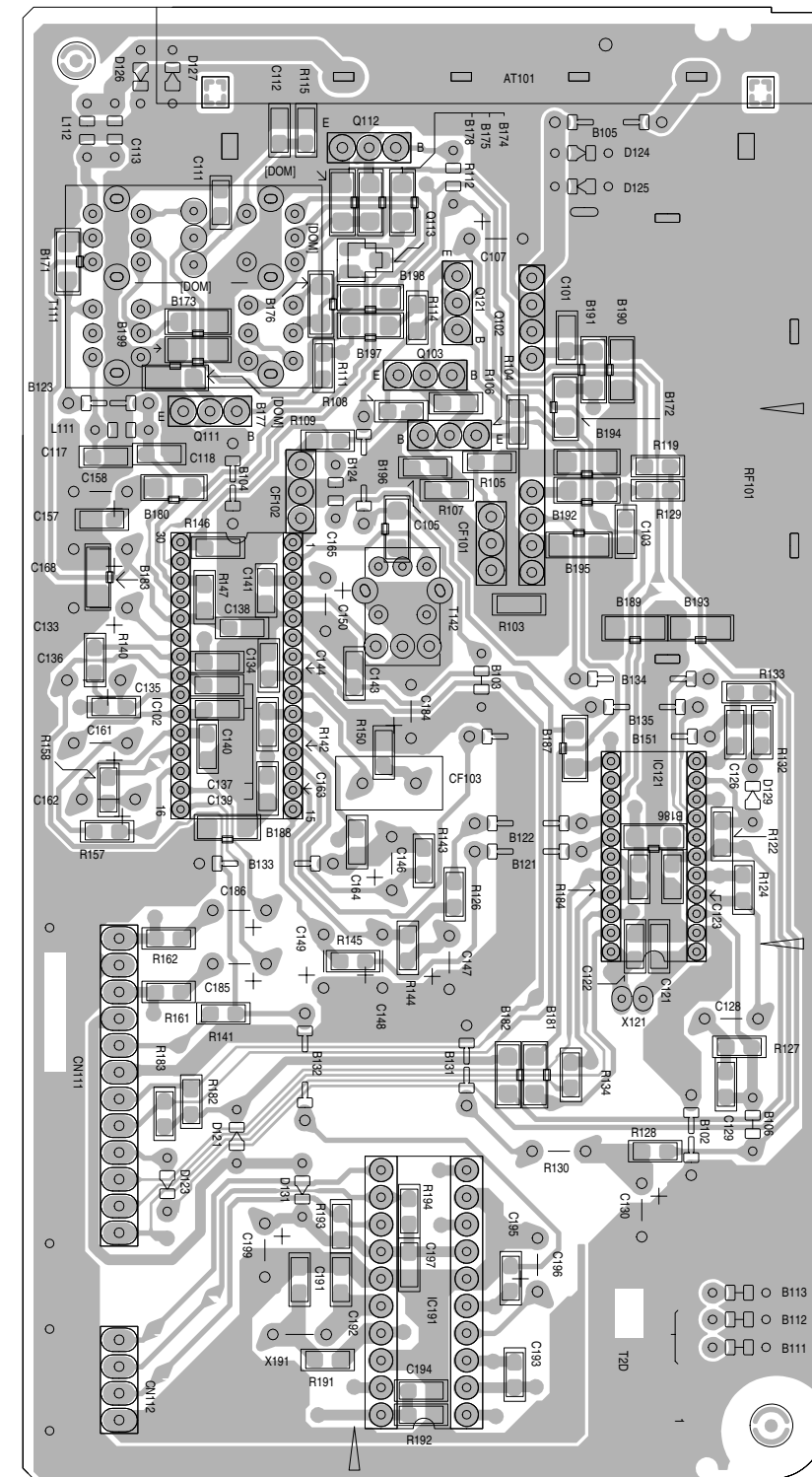
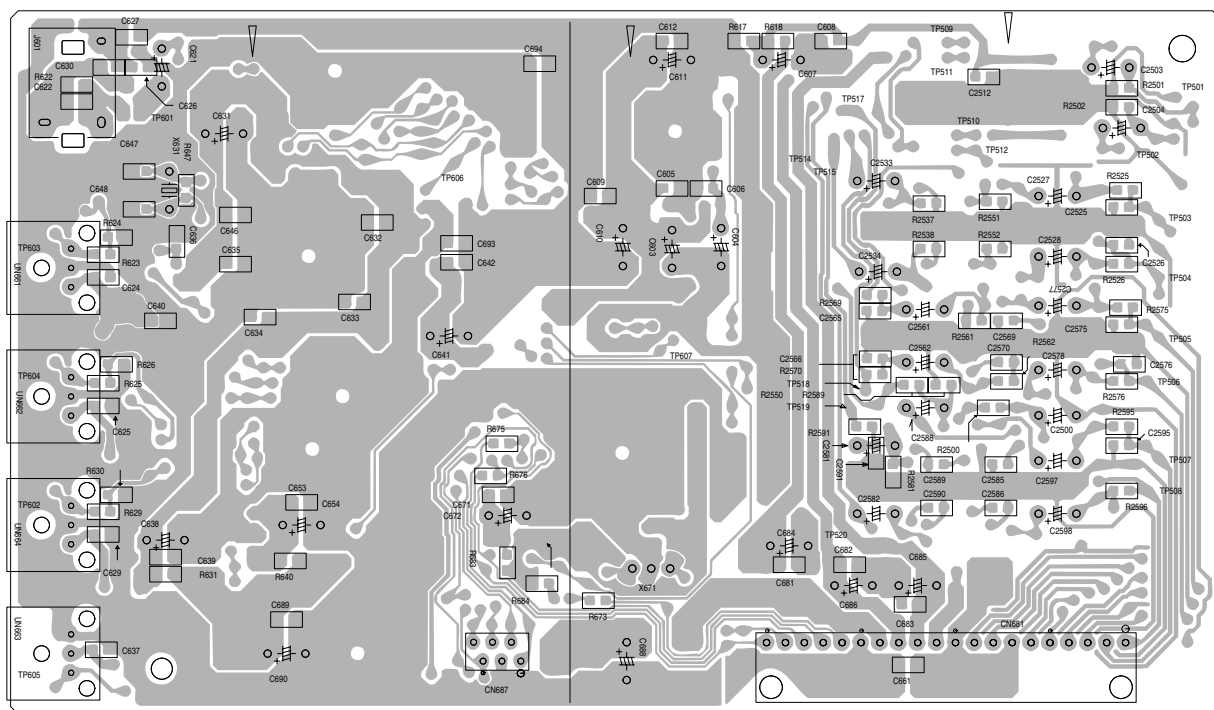
■ Digital signal input terminal board

■ Tuner board

Forward side



Reverse side



5

4

3

2

1

A

B

C

2-12

D

E

F

G

H

PARTS LIST

[RX-5020VBK]
[RX-5022VSL]

* All printed circuit boards and its assemblies are not available as service parts.

Area suffix

J ----- U.S.A.
C ----- Canada

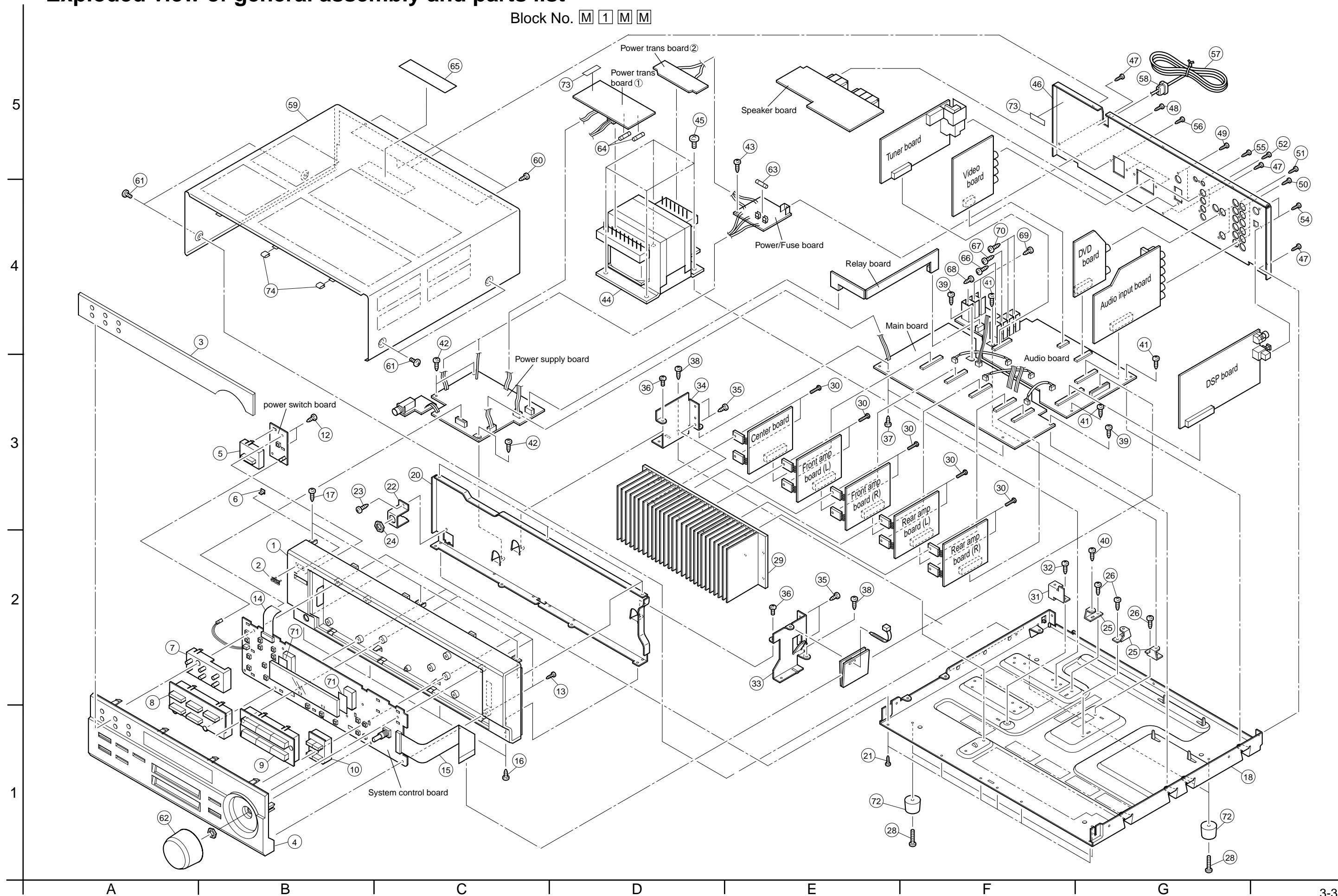
- Contents -

| | |
|--|------|
| Exploded view of general assembly and parts list (Block No.M1) | 3- 3 |
| Electrical parts list (Block No.01~05) | 3- 5 |
| Packing materials and accessories parts list (Block No.M3,M5) | 3-18 |

< MEMO >

Exploded view of general assembly and parts list

Block No. **M 1 M M**



■ Parts list (General assembly)

Block No. M1MM

| △ | Item | Parts number | Parts name | Q'ty | Description | Area |
|---|------|---------------|----------------|------|-----------------|------|
| | 1 | LV10457-020A | FRONT PANEL | 1 | RX-5020VBK | |
| | | LV10457-026A | FRONT PANEL | 1 | RX-5022VSL | |
| | 2 | VJD5429-002SS | JVC MARK | 1 | RX-5022VSL | |
| | | VJD5429-001SS | JVC MARK | 1 | RX-5020VBK | |
| | 3 | LV20949-009A | LENS | 1 | | |
| | 4 | LV10459-022A | SUB PANEL | 1 | RX-5022VSL | |
| | | LV10459-021A | SUB PANEL | 1 | RX-5020VBK | |
| | 5 | LV32431-004A | POWER BUTTON | 1 | RX-5020VBK | |
| | | LV32431-002A | POWER BUTTON | 1 | RX-5022VSL | |
| | 6 | LV42096-001A | INDICATOR | 1 | POWER | |
| | 7 | LV20951-002A | PUSH BUTTON | 1 | TUNER | |
| | 8 | LV20919-003A | PUSH BUTTON(C) | 1 | RX-5020VBK | |
| | | LV20919-004A | PUSH BUTTON(C) | 1 | RX-5022VSL | |
| | 9 | LV20918-005A | PUSH BUTTON(E) | 1 | RX-5022VSL | |
| | | LV20918-004A | PUSH BUTTON(E) | 1 | RX-5020VBK | |
| | 10 | LV32430-003A | PUSH BUTTON(F) | 1 | RX-5020VBK | |
| | | LV32430-004A | PUSH BUTTON(F) | 1 | RX-5022VSL | |
| | 12 | QYSBSF2610Z | SCREW | 2 | FRONT C.B | |
| | 13 | QYSBSF2610Z | SCREW | 6 | FRONT C.B FL | |
| | 14 | QUQ412-1415CJ | FFC WIRE | 1 | | |
| | 15 | QUQ412-2538CJ | FFC WIRE | 1 | | |
| | 16 | QYSDSG3006Z | SCREW | 4 | FRONT D | |
| | 17 | QYSBSG3006Z | T.SCREW | 3 | FRONT U | |
| | 18 | LV10019-003A | CHASSIS BASE | 1 | | |
| | 20 | LV10458-002A | FRONT BRACKET | 1 | | |
| | 21 | QYSDSG3006Z | SCREW | 7 | C.B-F.B | |
| | 22 | LV42094-003A | H.P BKT | 1 | | |
| | 23 | QYSBSG3006Z | T.SCREW | 1 | H.P BKT-F.B | |
| | 24 | VKZ4150-001 | SPECIAL NUT | 1 | | |
| | 25 | E68587-223SM | CB BKT | 3 | | |
| | 26 | QYSBST3006Z | T.SCREW | 3 | C.B-BKT | |
| | 28 | QYSBST3010Z | T.SCREW | 4 | FOOT | |
| | 29 | LV21213-001A | HEAT SINK | 1 | NEW TYPE | |
| | 30 | QYSBSG3012E | SCREW | 10 | TR | |
| | 31 | LV42098-001A | C.B BKT | 1 | PRI/SEC C.B | |
| | 32 | QYSBST3006Z | T.SCREW | 1 | C.B BKT | |
| | 33 | LV32433-001A | H.S BRACKET(R) | 1 | | |
| | 34 | LV32434-001A | H.S BRACKET(L) | 1 | | |
| | 35 | QYSBSG3008Z | T.SCREW | 4 | H.S-BKT | |
| | 36 | QYSBST3006Z | T.SCREW | 2 | H.S BKT-F.BKT | |
| | 37 | QYSBSG3006Z | T.SCREW | 2 | H.S BKT | |
| | 38 | QYSBST3006Z | T.SCREW | 2 | H.S BKT-CHASSIS | |
| | 39 | QYSBSG3006Z | T.SCREW | 2 | M.C.B | |
| | 40 | E65923-003 | TAPPING SCREW | 1 | M.C.B | |
| | 41 | QYSBSG3006Z | T.SCREW | 3 | H.S-C.B | |
| | 42 | QYSBSG3006Z | T.SCREW | 3 | P.C.B | |
| | 43 | QYSBSG3006Z | T.SCREW | 1 | C.B-CHASSIS | |
| △ | 44 | QQT0318-001 | POWER TRANSF | 1 | | |

■ Parts list (General assembly)

Block No. M1MM

| △ | Item | Parts number | Parts name | Q'ty | Description | Area |
|---|------|-----------------|---------------|------|-----------------|------|
| | 45 | QYSDSTL4008Z | SPECIAL SCREW | 4 | P.TRANS | |
| | 46 | LV20915-047A | REAR PANEL | 1 | RX-5022VSL | |
| | | LV20915-036A | REAR PANEL | 1 | RX-5020VBK | |
| | 47 | QYSBSGY3008M | SPECIAL SCREW | 3 | R.P-C.BASE | |
| | 48 | QYSBSGY3008M | SPECIAL SCREW | 1 | | |
| | 49 | QYSBSGY3008M | SPECIAL SCREW | 2 | TUNER | |
| | 50 | QYSBSGY3008M | SPECIAL SCREW | 4 | INPUT | |
| | 51 | QYSBSGY3008M | SPECIAL SCREW | 2 | DVD/SUB WOOFER | |
| | 52 | QYSBSGY3008M | SPECIAL SCREW | 2 | VIDEO | |
| | 54 | QYSBSGY3008M | SPECIAL SCREW | 2 | DIGITAL | |
| | 55 | QYSBSGY3008M | SPECIAL SCREW | 1 | COMP C.B | |
| | 56 | QYSBSGY3008M | SPECIAL SCREW | 4 | SPK C.B | |
| △ | 57 | QMPD420-200-JV | POWER CORD | 1 | | |
| △ | 58 | QZW0033-001 | STRAIN RELIEF | 1 | | |
| | 59 | LE20131-010A/S/ | METAL COVER | 1 | RX-5022VSL | |
| | | LE20131-008A/S/ | METAL COVER | 1 | RX-5020VBK | |
| | 60 | QYSBSGY3008M | SPECIAL SCREW | 3 | | |
| | 61 | E406308-003 | SPECIAL SCREW | 4 | RX-5020VBK | |
| | | E406308-004 | SPECIAL SCREW | 4 | RX-5022VSL | |
| | 62 | LV32435-003A | VOL KNOB | 1 | RX-5020VBK | |
| | | LV32435-005A | VOL KNOB | 1 | RX-5022VSL | |
| △ | 63 | QMF51U1-6R3-J8 | FUSE | 1 | F 201 | |
| △ | 64 | QMF51U1-2R0-J8 | FUSE | 2 | F 202 F 203 | |
| | 65 | E409396-002 | CAUTION LABEL | 1 | C | |
| | 66 | QYSBSG3008E | T.SCREW | 1 | | |
| | 67 | QYSBSG3008E | T.SCREW | 1 | | |
| | 68 | QYSBSG3008E | T.SCREW | 1 | | |
| | 69 | QYSBSG3008E | T.SCREW | 2 | | |
| | 70 | QYSBSG3008E | T.SCREW | 2 | | |
| | 71 | LV30225-097A | SPACER | 2 | | |
| | 72 | E47227-036 | FOOT | 4 | | |
| | 73 | LV42388-001A | FUSE CAUTION | 2 | | |
| | 74 | LV30225-0E5A | SPACER | 2 | FOR METAL COVER | |

■ Electrical parts list (Power amp board)

Block No. 01

| △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|---------------|-----------------|------|
| | C 201 | QFLC2AJ-104Z | M CAPACITOR | .10MF 5% 100V | |
| | C 202 | QFLC2AJ-104Z | M CAPACITOR | .10MF 5% 100V | |
| | C 203 | QFLC2AJ-104Z | M CAPACITOR | .10MF 5% 100V | |
| | C 204 | QETM1VM-228 | E.CAPACITOR | 2200MF 20% 35V | |
| | C 205 | QETM1VM-108 | E.CAPACITOR | 1000MF 20% 35V | |
| | C 206 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 207 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 208 | QFLC2AJ-472Z | M CAPACITOR | 4700PF 5% 100V | |
| | C 209 | QETN1EM-477Z | E CAPACITOR | 470MF 20% 25V | |
| △ | C 210 | QCZ9104-472 | C CAPACITOR | 4700PF | |
| | C 212 | QETN1CM-477Z | E CAPACITOR | 470MF 20% 16V | |
| | C 213 | QETM0JM-228 | E CAPACITOR | 2200MF 20% 6.3V | |
| | C 218 | QETN1HM-105Z | E CAPACITOR | 1.0MF 20% 50V | |
| | C 301 | QEHR1HM-106Z | E CAPACITOR | 10MF 20% 50V | |
| | C 302 | QEHR1HM-106Z | E CAPACITOR | 10MF 20% 50V | |
| | C 303 | QCS31HJ-271Z | C CAPACITOR | 270PF 5% 50V | |
| | C 304 | QCS31HJ-271Z | C CAPACITOR | 270PF 5% 50V | |
| | C 305 | QCS31HJ-221Z | C CAPACITOR | 220PF 5% 50V | |
| | C 306 | QCS31HJ-221Z | C CAPACITOR | 220PF 5% 50V | |
| | C 307 | QCB31HK-152Z | C CAPACITOR | 1500PF 10% 50V | |
| | C 308 | QCB31HK-152Z | C CAPACITOR | 1500PF 10% 50V | |
| | C 309 | QETN1EM-107Z | E CAPACITOR | 100MF 20% 25V | |
| | C 310 | QETN1EM-107Z | E CAPACITOR | 100MF 20% 25V | |
| | C 311 | QCS31HJ-100Z | C CAPACITOR | 10PF 5% 50V | |
| | C 312 | QCS31HJ-100Z | C CAPACITOR | 10PF 5% 50V | |
| | C 313 | QFLC1HJ-103Z | M CAPACITOR | .010MF 5% 50V | |
| | C 314 | QFLC1HJ-103Z | M CAPACITOR | .010MF 5% 50V | |
| | C 315 | QCS32HJ-220Z | C CAPACITOR | 22PF 5% 500V | |
| | C 316 | QCS32HJ-220Z | C CAPACITOR | 22PF 5% 500V | |
| | C 317 | QEHR1VM-476Z | E CAPACITOR | 47MF 20% 35V | |
| | C 318 | QEHR1VM-476Z | E CAPACITOR | 47MF 20% 35V | |
| | C 319 | QETN1JM-107Z | E CAPACITOR | 100MF 20% 63V | |
| | C 320 | QETN1JM-107Z | E CAPACITOR | 100MF 20% 63V | |
| | C 321 | QCS32HJ-470Z | C CAPACITOR | 47PF 5% 500V | |
| | C 322 | QCS32HJ-470Z | C CAPACITOR | 47PF 5% 500V | |
| | C 323 | QCS32HJ-470Z | C CAPACITOR | 47PF 5% 500V | |
| | C 324 | QCS32HJ-470Z | C CAPACITOR | 47PF 5% 500V | |
| | C 325 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 326 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 327 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 328 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 501 | QEK1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | |
| | C 503 | QETN0JM-477Z | E CAPACITOR | 470MF 20% 6.3V | |
| | C 504 | QCS31HJ-470Z | C CAPACITOR | 47PF 5% 50V | |
| | C 505 | QEK1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | |
| | C 506 | QETN0JM-477Z | E CAPACITOR | 470MF 20% 6.3V | |
| | C 507 | QCS31HJ-470Z | C CAPACITOR | 47PF 5% 50V | |
| | C 511 | QETN1CM-108Z | E CAPACITOR | 1000MF 20% 16V | |
| | C 512 | QCB1HK-223Y | C CAPACITOR | .022MF 10% 50V | |
| | C 521 | QCB1HK-221Y | C CAPACITOR | 220PF 10% 50V | |
| | C 522 | QCZ0202-155Z | ML C CAPA I/M | 1.5MF | |
| | C 801 | QEHR1HM-106Z | E CAPACITOR | 10MF 20% 50V | |
| | C 802 | QEHR1HM-106Z | E CAPACITOR | 10MF 20% 50V | |
| | C 803 | QCS31HJ-271Z | C CAPACITOR | 270PF 5% 50V | |
| | C 804 | QCS31HJ-271Z | C CAPACITOR | 270PF 5% 50V | |
| | C 805 | QCS31HJ-221Z | C CAPACITOR | 220PF 5% 50V | |
| | C 806 | QCS31HJ-221Z | C CAPACITOR | 220PF 5% 50V | |
| | C 807 | QCB31HK-152Z | C CAPACITOR | 1500PF 10% 50V | |
| | C 808 | QCB31HK-152Z | C CAPACITOR | 1500PF 10% 50V | |
| | C 809 | QETN1EM-107Z | E CAPACITOR | 100MF 20% 25V | |
| | C 810 | QETN1EM-107Z | E CAPACITOR | 100MF 20% 25V | |
| | C 811 | QCS31HJ-100Z | C CAPACITOR | 10PF 5% 50V | |
| | C 812 | QCS31HJ-100Z | C CAPACITOR | 10PF 5% 50V | |

| △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|---------------|--------------|----------------|------|
| | C 813 | QFLC1HJ-103Z | M CAPACITOR | .010MF 5% 50V | |
| | C 814 | QFLC1HJ-103Z | M CAPACITOR | .010MF 5% 50V | |
| | C 815 | QCS32HJ-330Z | C CAPACITOR | 33PF 5% 500V | |
| | C 816 | QCS32HJ-330Z | C CAPACITOR | 33PF 5% 500V | |
| | C 817 | QEHR1HM-225Z | E CAPACITOR | 2.2MF 20% 50V | |
| | C 818 | QEHR1HM-225Z | E CAPACITOR | 2.2MF 20% 50V | |
| | C 819 | QEHR2AM-106Z | E CAPACITOR | 10MF 20% 100V | |
| | C 820 | QEHR2AM-106Z | E CAPACITOR | 10MF 20% 100V | |
| | C 821 | QCS32HJ-470Z | C CAPACITOR | 47PF 5% 500V | |
| | C 822 | QCS32HJ-470Z | C CAPACITOR | 47PF 5% 500V | |
| | C 823 | QCS32HJ-470Z | C CAPACITOR | 47PF 5% 500V | |
| | C 824 | QCS32HJ-470Z | C CAPACITOR | 47PF 5% 500V | |
| | C 825 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 826 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 827 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 828 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 829 | QETN1HM-476Z | E CAPACITOR | 47MF 20% 50V | |
| | C 830 | QETN1HM-476Z | E CAPACITOR | 47MF 20% 50V | |
| | C 901 | QEHR1HM-106Z | E CAPACITOR | 10MF 20% 50V | |
| | C 903 | QCS31HJ-271Z | C CAPACITOR | 270PF 5% 50V | |
| | C 905 | QCS31HJ-221Z | C CAPACITOR | 220PF 5% 50V | |
| | C 907 | QCB31HK-152Z | C CAPACITOR | 1500PF 10% 50V | |
| | C 909 | QETN1EM-107Z | E CAPACITOR | 100MF 20% 25V | |
| | C 911 | QCS31HJ-100Z | C CAPACITOR | 10PF 5% 50V | |
| | C 913 | QFLC1HJ-103Z | M CAPACITOR | .010MF 5% 50V | |
| | C 915 | QCS32HJ-330Z | C CAPACITOR | 33PF 5% 500V | |
| | C 917 | QEHR1HM-225Z | E CAPACITOR | 2.2MF 20% 50V | |
| | C 919 | QEHR2AM-106Z | E CAPACITOR | 10MF 20% 100V | |
| | C 921 | QCS32HJ-470Z | C CAPACITOR | 47PF 5% 500V | |
| | C 923 | QCS32HJ-470Z | C CAPACITOR | 47PF 5% 500V | |
| | C 925 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 927 | QFLC1HJ-473Z | M CAPACITOR | .047MF 5% 50V | |
| | C 929 | QETN1HM-476Z | E CAPACITOR | 47MF 20% 50V | |
| | CN201 | QGF1205C1-14 | CONNECTOR | | |
| | CN203 | QGD2501C1-05Z | SOCKET I.M | | |
| | CN241 | QGD2501C1-05Z | SOCKET I.M | | |
| | CN251 | QGA3901F2-03 | CONNECTOR | | |
| | CN291 | QGB2510J1-04 | CONNECTOR | | |
| | CN292 | QGB2510K1-04 | CONNECTOR | | |
| | CN301 | QGB2510K1-14 | CONNECTOR | | |
| | CN302 | QGB2510K1-14 | CONNECTOR | | |
| | CN492 | QGB2510K1-04 | CONNECTOR | | |
| | CN501 | QGB2510K1-07 | CONNECTOR | | |
| | CN801 | QGB2510K1-14 | CONNECTOR | | |
| | CN802 | QGB2510K1-14 | CONNECTOR | | |
| | CN901 | QGB2510K1-14 | CONNECTOR | | |
| | C1331 | QCB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | C1332 | QCB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| △ | D 201 | 10E2-FD | DIODE | | |
| △ | D 202 | 11ES2-T4 | DIODE I.M | | |
| △ | D 203 | 10E2-FD | DIODE | | |
| △ | D 204 | 11ES2-T4 | DIODE I.M | | |
| △ | D 206 | 11ES2-T4 | DIODE I.M | | |
| △ | D 207 | 11ES2-T4 | DIODE I.M | | |
| △ | D 208 | 11ES2-T4 | DIODE I.M | | |
| △ | D 209 | 11ES2-T4 | DIODE I.M | | |
| | D 210 | 1SS133-T2 | SI DIODE I/M | | |
| | D 211 | MTZJ6.8C-T2 | Z DIODE I/M | | |
| | D 212 | 11ES2-T4 | DIODE I.M | | |
| | D 217 | MTZJ6.2C-T2 | Z DIODE I/M | | |
| | D 218 | 1SS133-T2 | SI DIODE I/M | | |
| | D 219 | 11ES2-T4 | DIODE I.M | | |
| | D 220 | 11ES2-T4 | DIODE I.M | | |

■ Electrical parts list (Power amp board)

Block No. 01

| △ | Item | Parts number | Parts name | Remarks | Area | △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|---------------|-----------------|----------|------|---|-------|-----------------|----------------|--------------|------|
| | D 221 | 1SS133-T2 | SI DIODE IM | | | | Q 313 | KTA1268/GL-T | TRANSISTOR | | |
| | D 301 | 1SS133-T2 | SI DIODE IM | | | | Q 314 | KTA1268/GL-T | TRANSISTOR | | |
| | D 302 | 1SS133-T2 | SI DIODE IM | | | △ | Q 315 | 2SD2389/OPY/-F6 | TRANSISTOR | | |
| | D 303 | SLR-342MC-T | LED | | | △ | Q 316 | 2SD2389/OPY/-F6 | TRANSISTOR | | |
| | D 304 | SLR-342MC-T | LED | | | △ | Q 317 | 2SB1559/OPY/-F6 | TRANSISTOR | | |
| | D 305 | 1SS133-T2 | SI DIODE IM | | | △ | Q 318 | 2SB1559/OPY/-F6 | TRANSISTOR | | |
| | D 306 | 1SS133-T2 | SI DIODE IM | | | | Q 319 | KTA1268/GL-T | TRANSISTOR | | |
| | D 307 | 1SS133-T2 | SI DIODE IM | | | | Q 320 | KTA1268/GL-T | TRANSISTOR | | |
| | D 308 | 1SS133-T2 | SI DIODE IM | | | | Q 501 | KTA1267/YG-T | TRANSISTOR | | |
| | D 309 | 1SS133-T2 | SI DIODE IM | | | | Q 502 | KTC3199/GL-T | TRANSISTOR | | |
| | D 310 | 1SS133-T2 | SI DIODE IM | | | | Q 503 | KRC101M-T | TR I/M | | |
| | D 801 | 1SS133-T2 | SI DIODE IM | | | | Q 504 | KTA1267/YG-T | TRANSISTOR | | |
| | D 802 | 1SS133-T2 | SI DIODE IM | | | | Q 505 | KTC3199/GL-T | TRANSISTOR | | |
| | D 805 | 1SS133-T2 | SI DIODE IM | | | | Q 801 | 2SC2240/L-T | TR.I/M | | |
| | D 806 | 1SS133-T2 | SI DIODE IM | | | | Q 802 | 2SC2240/L-T | TR.I/M | | |
| | D 807 | 1SS133-T2 | SI DIODE IM | | | | Q 803 | 2SC2240/L-T | TR.I/M | | |
| | D 808 | 1SS133-T2 | SI DIODE IM | | | | Q 804 | 2SC2240/L-T | TR.I/M | | |
| | D 809 | 1SS133-T2 | SI DIODE IM | | | | Q 805 | KTA1268/GL-T | TRANSISTOR | | |
| | D 810 | 1SS133-T2 | SI DIODE IM | | | | Q 806 | KTA1268/GL-T | TRANSISTOR | | |
| | D 901 | 1SS133-T2 | SI DIODE IM | | | | Q 809 | 2SD637/QR/ | TRANSISTOR | | |
| | D 905 | 1SS133-T2 | SI DIODE IM | | | | Q 810 | 2SD637/QR/ | TRANSISTOR | | |
| | D 907 | 1SS133-T2 | SI DIODE IM | | | | Q 811 | KTC3200/GL-T | TRANSISTOR | | |
| | D 909 | 1SS133-T2 | SI DIODE IM | | | | Q 812 | KTC3200/GL-T | TRANSISTOR | | |
| | EP 1 | E409182-001SM | GRAND TERMINAL | | | | Q 813 | KTA1268/GL-T | TRANSISTOR | | |
| | EP201 | QNZ0136-001Z | EARTH PLATE | | | | Q 814 | KTA1268/GL-T | TRANSISTOR | | |
| | FC211 | QNG0020-001Z | FUSE CLIP | F201 | | △ | Q 815 | 2SD2389/OPY/-F6 | TRANSISTOR | | |
| | FC212 | QNG0020-001Z | FUSE CLIP | F201 | | △ | Q 816 | 2SD2389/OPY/-F6 | TRANSISTOR | | |
| | FC221 | QNG0020-001Z | FUSE CLIP | F202 | | △ | Q 817 | 2SB1559/OPY/-F6 | TRANSISTOR | | |
| | FC222 | QNG0020-001Z | FUSE CLIP | F202 | | △ | Q 818 | 2SB1559/OPY/-F6 | TRANSISTOR | | |
| | FC231 | QNG0020-001Z | FUSE CLIP | F203 | | | Q 819 | KTA1268/GL-T | TRANSISTOR | | |
| | FC232 | QNG0020-001Z | FUSE CLIP | F203 | | | Q 820 | KTA1268/GL-T | TRANSISTOR | | |
| | FW201 | QUM137-14Z4Z4 | PARA RIBON WIRE | | | | Q 901 | 2SC2240/L-T | TR.I/M | | |
| | FW251 | QUM133-08Z4Z4 | PARA RIBON WIRE | | | | Q 903 | 2SC2240/L-T | TR.I/M | | |
| | IC501 | NJM2246D | IC | | | | Q 905 | KTA1268/GL-T | TRANSISTOR | | |
| | J 501 | QNN0063-001 | PIN JACK | | | | Q 909 | 2SD637/QR/ | TRANSISTOR | | |
| | J 502 | QNN0063-001 | PIN JACK | VCR(R/P) | | | Q 911 | KTC3200/GL-T | TRANSISTOR | | |
| | J 521 | QNS0073-001 | JACK | | | | Q 913 | KTA1268/GL-T | TRANSISTOR | | |
| | J1331 | QNS0022-001 | JACK | | | △ | Q 915 | 2SD2389/OPY/-F6 | TRANSISTOR | | |
| | L 301 | QQLZ005-R45 | INDUCTOR | | | △ | Q 917 | 2SB1559/OPY/-F6 | TRANSISTOR | | |
| | L 302 | QQLZ005-R45 | INDUCTOR | | | | Q 919 | KTA1268/GL-T | TRANSISTOR | | |
| | L 801 | QQLZ005-R45 | INDUCTOR | | | △ | R 1 | QRZ9044-335 | F RESISTOR | 3.3M 1/4W | |
| | L 802 | QQLZ005-R45 | INDUCTOR | | | △ | R 201 | QRJ146J-2R7X | UNF C RESISTOR | 2.7 5% 1/4W | |
| | L 901 | QQLZ005-R45 | INDUCTOR | | | △ | R 203 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| | Q 202 | KRC105M-T | D.TR.I.M. | | | △ | R 204 | QRJ146J-821X | UNF C RESISTOR | 820 5% 1/4W | |
| | Q 203 | KTC3203/0Y/-T | TRANSISTOR | | | △ | R 208 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| | Q 205 | KTC3200/GL/-T | TRANSISTOR | | | △ | R 209 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| | Q 206 | KRC105M-T | D.TR.I.M. | | | △ | R 210 | QRJ146J-680X | UNF C RESISTOR | 68 5% 1/4W | |
| | Q 207 | KRC105M-T | D.TR.I.M. | | | △ | R 221 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| | Q 208 | KRC105M-T | D.TR.I.M. | | | | R 301 | QRE141J-222Y | C RESISTOR | 2.2K 5% 1/4W | |
| | Q 209 | KRC105M-T | D.TR.I.M. | | | | R 302 | QRE141J-222Y | C RESISTOR | 2.2K 5% 1/4W | |
| | Q 210 | KRC105M-T | D.TR.I.M. | | | | R 303 | QRE141J-563Y | C RESISTOR | 56K 5% 1/4W | |
| | Q 301 | 2SC2240/L/-T | TR.I/M | | | | R 304 | QRE141J-563Y | C RESISTOR | 56K 5% 1/4W | |
| | Q 302 | 2SC2240/L/-T | TR.I/M | | | | R 305 | QRE141J-123Y | C RESISTOR | 12K 5% 1/4W | |
| | Q 303 | 2SC2240/L/-T | TR.I/M | | | | R 306 | QRE141J-123Y | C RESISTOR | 12K 5% 1/4W | |
| | Q 304 | 2SC2240/L/-T | TR.I/M | | | | R 307 | QRE141J-272Y | C RESISTOR | 2.7K 5% 1/4W | |
| | Q 305 | KTA1268/GL/-T | TRANSISTOR | | | | R 308 | QRE141J-272Y | C RESISTOR | 2.7K 5% 1/4W | |
| | Q 306 | KTA1268/GL/-T | TRANSISTOR | | | | R 309 | QRE141J-101Y | C RESISTOR | 100 5% 1/4W | |
| | Q 307 | KTC3200/GL/-T | TRANSISTOR | | | | R 310 | QRE141J-101Y | C RESISTOR | 100 5% 1/4W | |
| | Q 308 | KTC3200/GL/-T | TRANSISTOR | | | | R 311 | QRJ146J-391X | UNF C RESISTOR | 390 5% 1/4W | |
| | Q 309 | 2SD637/QR/ | TRANSISTOR | | | | R 312 | QRJ146J-391X | UNF C RESISTOR | 390 5% 1/4W | |
| | Q 310 | 2SD637/QR/ | TRANSISTOR | | | | R 313 | QRE141J-563Y | C RESISTOR | 56K 5% 1/4W | |
| | Q 311 | KTC3200/GL/-T | TRANSISTOR | | | | R 314 | QRE141J-563Y | C RESISTOR | 56K 5% 1/4W | |
| | Q 312 | KTC3200/GL/-T | TRANSISTOR | | | △ | R 315 | QRJ146J-331X | UNF C RESISTOR | 330 5% 1/4W | |

■ Electrical parts list (Power amp board)

Block No. 01

| △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|-----------------|--------------|------|
| △ | R 316 | QRJ146J-331X | UNF C RESISTOR | 330 5% 1/4W | |
| | R 317 | QRE141J-473Y | C RESISTOR | 47K 5% 1/4W | |
| | R 318 | QRE141J-473Y | C RESISTOR | 47K 5% 1/4W | |
| | R 319 | QRJ146J-331X | UNF C RESISTOR | 330 5% 1/4W | |
| | R 320 | QRJ146J-331X | UNF C RESISTOR | 330 5% 1/4W | |
| △ | R 321 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 322 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 323 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 324 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| | R 325 | QRE141J-361Y | C RESISTOR | 360 5% 1/4W | |
| | R 326 | QRE141J-361Y | C RESISTOR | 360 5% 1/4W | |
| | R 327 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | R 328 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | R 329 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | R 330 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| △ | R 331 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 332 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 333 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 334 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| | R 335 | QRE141J-121Y | C RESISTOR | 120 5% 1/4W | |
| | R 336 | QRE141J-121Y | C RESISTOR | 120 5% 1/4W | |
| | R 337 | QRE141J-121Y | C RESISTOR | 120 5% 1/4W | |
| | R 338 | QRE141J-121Y | C RESISTOR | 120 5% 1/4W | |
| | R 339 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 340 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 341 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 342 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 343 | QRZ0218-R22 | C RESISTOR | 1/2W | |
| | R 344 | QRZ0218-R22 | C RESISTOR | 1/2W | |
| | R 345 | QRE141J-102Y | C RESISTOR | 1.0K 5% 1/4W | |
| | R 346 | QRE141J-102Y | C RESISTOR | 1.0K 5% 1/4W | |
| | R 347 | QRE141J-153Y | C RESISTOR | 15K 5% 1/4W | |
| | R 348 | QRE141J-153Y | C RESISTOR | 15K 5% 1/4W | |
| | R 349 | QRE141J-473Y | C RESISTOR | 47K 5% 1/4W | |
| | R 350 | QRE141J-473Y | C RESISTOR | 47K 5% 1/4W | |
| △ | R 351 | QRJ125J-330 | UNF OMF RESISTO | 33 5% 1/2W | |
| △ | R 352 | QRJ125J-330 | UNF OMF RESISTO | 33 5% 1/2W | |
| △ | R 353 | QRL027J-100 | UNF OMF RESISTO | 10 5% 1/2W | |
| △ | R 354 | QRL027J-100 | UNF OMF RESISTO | 10 5% 1/2W | |
| | R 363 | QRE141J-272Y | C RESISTOR | 2.7K 5% 1/4W | |
| | R 364 | QRE141J-272Y | C RESISTOR | 2.7K 5% 1/4W | |
| | R 501 | QRE141J-331Y | C RESISTOR | 330 5% 1/4W | |
| | R 502 | QRE141J-750Y | C RESISTOR | 75 5% 1/4W | |
| | R 505 | QRE141J-750Y | C RESISTOR | 75 5% 1/4W | |
| | R 506 | QRE141J-473Y | C RESISTOR | 47K 5% 1/4W | |
| | R 507 | QRE141J-331Y | C RESISTOR | 330 5% 1/4W | |
| | R 508 | QRE141J-750Y | C RESISTOR | 75 5% 1/4W | |
| | R 509 | QRE141J-750Y | C RESISTOR | 75 5% 1/4W | |
| | R 510 | QRE141J-473Y | C RESISTOR | 47K 5% 1/4W | |
| | R 511 | QRE141J-151Y | C RESISTOR | 150 5% 1/4W | |
| | R 512 | QRE141J-271Y | C RESISTOR | 270 5% 1/4W | |
| | R 513 | QRE141J-152Y | C RESISTOR | 1.5K 5% 1/4W | |
| | R 514 | QRE141J-151Y | C RESISTOR | 150 5% 1/4W | |
| | R 515 | QRE141J-271Y | C RESISTOR | 270 5% 1/4W | |
| | R 516 | QRE141J-152Y | C RESISTOR | 1.5K 5% 1/4W | |
| | R 521 | QRE141J-221Y | C RESISTOR | 220 5% 1/4W | |
| | R 522 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | R 801 | QRE141J-222Y | C RESISTOR | 2.2K 5% 1/4W | |
| | R 802 | QRE141J-222Y | C RESISTOR | 2.2K 5% 1/4W | |
| | R 803 | QRE141J-563Y | C RESISTOR | 56K 5% 1/4W | |
| | R 804 | QRE141J-563Y | C RESISTOR | 56K 5% 1/4W | |
| | R 805 | QRE141J-123Y | C RESISTOR | 12K 5% 1/4W | |
| | R 806 | QRE141J-123Y | C RESISTOR | 12K 5% 1/4W | |

| △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|-----------------|--------------|------|
| | R 807 | QRE141J-272Y | C RESISTOR | 2.7K 5% 1/4W | |
| | R 808 | QRE141J-272Y | C RESISTOR | 2.7K 5% 1/4W | |
| | R 809 | QRE141J-101Y | C RESISTOR | 100 5% 1/4W | |
| | R 810 | QRE141J-101Y | C RESISTOR | 100 5% 1/4W | |
| | R 811 | QRJ146J-391X | UNF C RESISTOR | 390 5% 1/4W | |
| | R 812 | QRJ146J-391X | UNF C RESISTOR | 390 5% 1/4W | |
| | R 813 | QRE141J-563Y | C RESISTOR | 56K 5% 1/4W | |
| | R 814 | QRE141J-563Y | C RESISTOR | 56K 5% 1/4W | |
| △ | R 815 | QRJ146J-331X | UNF C RESISTOR | 330 5% 1/4W | |
| △ | R 816 | QRJ146J-331X | UNF C RESISTOR | 330 5% 1/4W | |
| △ | R 821 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 822 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 823 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 824 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| | R 825 | QRE141J-361Y | C RESISTOR | 360 5% 1/4W | |
| | R 826 | QRE141J-361Y | C RESISTOR | 360 5% 1/4W | |
| | R 827 | QRE141J-821Y | C RESISTOR | 820 5% 1/4W | |
| | R 828 | QRE141J-821Y | C RESISTOR | 820 5% 1/4W | |
| | R 829 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | R 830 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| △ | R 831 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 832 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 833 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 834 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| | R 835 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 836 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 837 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 838 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 839 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 840 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 841 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 842 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 843 | QRZ0218-R22 | C RESISTOR | 1/2W | |
| | R 844 | QRZ0218-R22 | C RESISTOR | 1/2W | |
| | R 845 | QRE141J-102Y | C RESISTOR | 1.0K 5% 1/4W | |
| | R 846 | QRE141J-102Y | C RESISTOR | 1.0K 5% 1/4W | |
| | R 847 | QRE141J-183Y | C RESISTOR | 18K 5% 1/4W | |
| | R 848 | QRE141J-183Y | C RESISTOR | 18K 5% 1/4W | |
| | R 849 | QRE141J-123Y | C RESISTOR | 12K 5% 1/4W | |
| | R 850 | QRE141J-123Y | C RESISTOR | 12K 5% 1/4W | |
| △ | R 851 | QRJ125J-330 | UNF OMF RESISTO | 33 5% 1/2W | |
| △ | R 852 | QRJ125J-330 | UNF OMF RESISTO | 33 5% 1/2W | |
| △ | R 853 | QRL027J-100 | UNF OMF RESISTO | 10 5% 1/2W | |
| △ | R 854 | QRL027J-100 | UNF OMF RESISTO | 10 5% 1/2W | |
| | R 855 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 856 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 857 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 858 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 859 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 860 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 861 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 862 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 863 | QRE141J-272Y | C RESISTOR | 2.7K 5% 1/4W | |
| | R 864 | QRE141J-272Y | C RESISTOR | 2.7K 5% 1/4W | |
| | R 901 | QRE141J-222Y | C RESISTOR | 2.2K 5% 1/4W | |
| | R 903 | QRE141J-563Y | C RESISTOR | 56K 5% 1/4W | |
| | R 905 | QRE141J-123Y | C RESISTOR | 12K 5% 1/4W | |
| | R 907 | QRE141J-272Y | C RESISTOR | 2.7K 5% 1/4W | |
| | R 909 | QRE141J-101Y | C RESISTOR | 100 5% 1/4W | |
| | R 911 | QRJ146J-301X | UNF C RESISTOR | 300 5% 1/4W | |
| | R 913 | QRE141J-563Y | C RESISTOR | 56K 5% 1/4W | |
| △ | R 915 | QRJ146J-331X | UNF C RESISTOR | 330 5% 1/4W | |
| △ | R 921 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |

■ Electrical parts list (Power amp board)

Block No. 01

| △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|-----------------|--------------|------|
| △ | R 923 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| | R 925 | QRE141J-361Y | C RESISTOR | 360 5% 1/4W | |
| | R 927 | QRE141J-821Y | C RESISTOR | 820 5% 1/4W | |
| | R 929 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| △ | R 931 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| △ | R 933 | QRJ146J-100X | UNF C RESISTOR | 10 5% 1/4W | |
| | R 935 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 937 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 939 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 941 | QRE141J-181Y | C RESISTOR | 180 5% 1/4W | |
| | R 943 | QRZ0218-R22 | C RESISTOR | 1/2W | |
| | R 945 | QRE141J-102Y | C RESISTOR | 1.0K 5% 1/4W | |
| | R 947 | QRE141J-183Y | C RESISTOR | 18K 5% 1/4W | |
| | R 949 | QRE141J-473Y | C RESISTOR | 47K 5% 1/4W | |
| △ | R 951 | QRJ125J-330 | UNF OMF RESISTO | 33 5% 1/2W | |
| △ | R 953 | QRL027J-100 | UNF OMF RESISTO | 10 5% 1/2W | |
| | R 955 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 957 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 959 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 961 | QRE141J-332Y | C RESISTOR | 3.3K 5% 1/4W | |
| | R 963 | QRE141J-272Y | C RESISTOR | 2.7K 5% 1/4W | |
| △ | RY202 | QSK0142-001 | RELAY | | |
| △ | RY203 | QSK0109-001 | RELAY | | |
| △ | R1331 | QRL027J-471 | UNF OMF RESISTO | 470 5% 1/2W | |
| △ | R1332 | QRL027J-471 | UNF OMF RESISTO | 470 5% 1/2W | |
| △ | T 202 | QQT0317-001 | POWER TRANSF | | |
| | TA201 | QNZ0079-001Z | TAB IM | | |
| | TA202 | QNZ0079-001Z | TAB IM | | |
| △ | TH301 | QAD0012-202 | BATTERY PACK | | |
| △ | TH302 | QAD0012-202 | BATTERY PACK | | |
| △ | TH801 | QAD0012-202 | BATTERY PACK | | |
| △ | TH802 | QAD0012-202 | BATTERY PACK | | |
| △ | TH901 | QAD0012-202 | BATTERY PACK | | |
| | VR301 | QVP0008-102Z | SEMI V RESISTOR | | |
| | VR302 | QVP0008-102Z | SEMI V RESISTOR | | |

■ Electrical parts list (Main board)

Block No. 02

| △ | Item | Parts number | Parts name | Remarks | Area | △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|---------------|-----------------|-----------------|------|---|---------|---------------|-----------------|--------------|------|
| | C 400 | QCBB1HK-223Y | C CAPACITOR | .022MF 10% 50V | | | D1309 | MTZJ20C-T2 | Z.DIODE I.M | | |
| | C 419 | QCBB1HK-223Y | C CAPACITOR | .022MF 10% 50V | | | D1352 | 1SS133-T2 | SI DIODE IM | | |
| | C 420 | QCBB1HK-223Y | C CAPACITOR | .022MF 10% 50V | | | D1353 | 1SS133-T2 | SI DIODE IM | | |
| | C 421 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | D1354 | 1SS133-T2 | SI DIODE IM | | |
| | C 422 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | D1355 | 1SS133-T2 | SI DIODE IM | | |
| | C 423 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | D1356 | MTZJ5.1C-T2 | ZENER DIODE | | |
| | C 424 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | D1357 | 1SS133-T2 | SI DIODE IM | | |
| | C 425 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | D1358 | 1SS133-T2 | SI DIODE IM | | |
| | C 426 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | D1359 | 1SS133-T2 | SI DIODE IM | | |
| | C 427 | QCBB1HK-221Y | C CAPACITOR | 220PF 10% 50V | | | D1360 | 1SS133-T2 | SI DIODE IM | | |
| | C 428 | QCBB1HK-221Y | C CAPACITOR | 220PF 10% 50V | | | EP301 | QNZ0136-001Z | EARTH PLATE | | |
| | C 429 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | FW301 | QUM135-25Z4Z4 | PARA RIBON WIRE | | |
| | C 430 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | FW302 | QUM136-25Z4Z4 | PARA RIBON WIRE | | |
| | C 431 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | FW303 | QUM135-28DGZ4 | PARA RIBON WIRE | | |
| | C 432 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | FW341 | QUM135-20DGZ4 | PARA RIBON WIRE | | |
| | C 433 | QCBB1HK-221Y | C CAPACITOR | 220PF 10% 50V | | | IC402 | TC9164AN | IC | | |
| | C 434 | QCBB1HK-221Y | C CAPACITOR | 220PF 10% 50V | | | IC403 | BA15218N | IC | | |
| | C 435 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | J 402 | QNN0168-001 | PIN JACK | | |
| | C 436 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | J 403 | QNN0168-001 | PIN JACK | | |
| | C 440 | QCBB1HK-221Y | C CAPACITOR | 220PF 10% 50V | | | J 404 | QNN0389-001 | PIN JACK | DVD FL/FR | |
| | C 441 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | J 406 | QNN0060-001 | PIN JACK | | |
| | C 442 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | △ Q1301 | KTA1046/Y/ | TRANSISTOR | | |
| | C 443 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | Q1302 | KTC3200/GL-T | TRANSISTOR | | |
| | C 444 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | Q1303 | KTA1268/GL-T | TRANSISTOR | | |
| | C 445 | QCBB1HK-223Y | C CAPACITOR | .022MF 10% 50V | | | Q1304 | KTC3199/GL-T | TRANSISTOR | | |
| | C 446 | QCBB1HK-223Y | C CAPACITOR | .022MF 10% 50V | | | Q1305 | 2SD2395/EF/ | TRANSISTOR | | |
| | C 451 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | Q1306 | KTA1023/OY/-T | TRANSISTOR | | |
| | C 452 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | | | Q1307 | KTC3200/GL-T | TRANSISTOR | | |
| | C 459 | QFLC1HJ-104Z | M CAPACITOR | .10MF 5% 50V | | | Q1351 | KRC109M-T | D.TR.I.M. | | |
| | C 460 | QCZ0202-155Z | ML C CAPA I/M | 1.5MF | | | Q1352 | KRC109M-T | D.TR.I.M. | | |
| | CN311 | QGB2510J1-14 | CONNECTOR | | | | Q1353 | KRC109M-T | D.TR.I.M. | | |
| | CN312 | QGB2510J1-14 | CONNECTOR | | | | Q1354 | KRC109M-T | D.TR.I.M. | | |
| | CN321 | QGB2510J1-14 | CONNECTOR | | | | Q1355 | KRC109M-T | D.TR.I.M. | | |
| | CN331 | QGB2510J1-14 | CONNECTOR | | | | Q1356 | KRC109M-T | D.TR.I.M. | | |
| | CN332 | QGB2510J1-14 | CONNECTOR | | | | Q1357 | KRC109M-T | D.TR.I.M. | | |
| | CN351 | QJK012-032403 | SKT WIRE ASSY | | | | Q1358 | KRC109M-T | D.TR.I.M. | | |
| | CN371 | QJP001-031201 | SHI CR C-B WIRE | | | | R 421 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | CN372 | QJP002-021201 | SHI CR C-B WIRE | | | | R 422 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | CN373 | QJP001-031201 | SHI CR C-B WIRE | | | | R 423 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | CN401 | QGB2510K1-14 | CONNECTOR | | | | R 424 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | CN451 | QGB2510K1-11 | CONNECTOR | | | | R 425 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | C1301 | QFZ9076-104Z | MM CAPACITOR | .10MF | | | R 426 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | C1302 | QCE22HP-103 | C CAPACITOR | .010MF +100:-0% | | | R 429 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | C1303 | QCE22HP-103 | C CAPACITOR | .010MF +100:-0% | | | R 430 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | C1304 | QEZO341-688 | E CAPACITER | 6800MF | | | R 431 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | C1305 | QEZO341-688 | E CAPACITER | 6800MF | | | R 432 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | C1306 | QETN1EM-476Z | E CAPACITOR | 47MF 20% 25V | | | R 435 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | C1308 | QETN1HM-476Z | E CAPACITOR | 47MF 20% 50V | | | R 436 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | C1309 | QEKC1HM-106Z | E CAPACITOR | 10MF 20% 50V | | | R 440 | QRE141J-102Y | C RESISTOR | 1.0K 5% 1/4W | |
| | C1310 | QEKC1CM-476Z | E CAPACITOR | 47MF 20% 16V | | | R 441 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| | C1311 | QEKC1HM-226Z | E CAPACITOR | 22MF 20% 50V | | | R 442 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| | C1351 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | R 443 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| | C1352 | QEKC1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | R 444 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| | C1353 | QEKC1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | R 445 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| | C1354 | QEKC1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | R 446 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| △ | D1301 | 30DF2-FC | DIODE | | | △ | R 449 | QRJ146J-271X | UNF C RESISTOR | 270 5% 1/4W | |
| △ | D1302 | 30DF2-FC | DIODE | | | △ | R 450 | QRJ146J-271X | UNF C RESISTOR | 270 5% 1/4W | |
| △ | D1303 | 30DF2-FC | DIODE | | | | R 451 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| △ | D1304 | 30DF2-FC | DIODE | | | | R 452 | QRE141J-471Y | C RESISTOR | 470 5% 1/4W | |
| | D1305 | MTZJ18C-T2 | Z.DIODE I.M | | | | R 458 | QRJ146J-271X | UNF C RESISTOR | 270 5% 1/4W | |
| | D1306 | MTZJ30C-T2 | ZENER DIODE | | | | R 459 | QRJ146J-271X | UNF C RESISTOR | 270 5% 1/4W | |
| | D1307 | 1SS133-T2 | SI DIODE IM | | | △ | RY302 | QSK0109-001 | RELAY | | |
| | D1308 | 1SS133-T2 | SI DIODE IM | | | △ | RY303 | QSK0109-001 | RELAY | | |

■ Electrical parts list (Main board)

Block No. 02

| △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|-----------------|-----------------|------|
| △ | RY304 | QSK0109-001 | RELAY | | |
| △ | R1301 | QRL027J-332 | UNF OMF RESISTO | 3.3K 5% 1/2W | |
| △ | R1302 | QRZ9005-100X | F RESISTOR | 10 1/4W | |
| △ | R1303 | QRJ146J-562X | UNF C RESISTOR | 5.6K 5% 1/4W | |
| | R1304 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| | R1305 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| | R1306 | QRE141J-823Y | C RESISTOR | 82K 5% 1/4W | |
| | R1307 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| | R1308 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| | R1309 | QRE141J-103Y | C RESISTOR | 10K 5% 1/4W | |
| | R1310 | QRE141J-103Y | C RESISTOR | 10K 5% 1/4W | |
| | R1311 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| | R1312 | QRE141J-104Y | C RESISTOR | 100K 5% 1/4W | |
| △ | R1313 | QRZ9005-100X | F RESISTOR | 10 1/4W | |
| △ | R1314 | QRJ146J-103X | UNF C RESISTOR | 10K 5% 1/4W | |
| △ | R1315 | QRJ146J-2R2X | UNF C RESISTOR | 2.2 5% 1/4W | |
| △ | R1316 | QRJ146J-102X | UNF C RESISTOR | 1.0K 5% 1/4W | |
| △ | R1317 | QRJ146J-223X | UNF C RESISTOR | 22K 5% 1/4W | |
| | R1318 | QRE141J-223Y | C RESISTOR | 22K 5% 1/4W | |
| | R1319 | QRE141J-473Y | C RESISTOR | 47K 5% 1/4W | |
| △ | R1352 | QRJ146J-680X | UNF C RESISTOR | 68 5% 1/4W | |
| △ | R1353 | QRJ146J-680X | UNF C RESISTOR | 68 5% 1/4W | |
| △ | R1354 | QRJ146J-680X | UNF C RESISTOR | 68 5% 1/4W | |
| △ | R1355 | QRJ146J-392X | UNF C RESISTOR | 3.9K 5% 1/4W | |
| | R1356 | QRE141J-472Y | C RESISTOR | 4.7K 5% 1/4W | |
| | R1357 | QRE141J-223Y | C RESISTOR | 22K 5% 1/4W | |
| | R1358 | QRE141J-682Y | C RESISTOR | 6.8K 5% 1/4W | |
| | R1359 | QRE141J-472Y | C RESISTOR | 4.7K 5% 1/4W | |
| | R1360 | QRE141J-472Y | C RESISTOR | 4.7K 5% 1/4W | |
| | R1361 | QRE141J-472Y | C RESISTOR | 4.7K 5% 1/4W | |
| | R1362 | QRE141J-472Y | C RESISTOR | 4.7K 5% 1/4W | |
| | R1363 | QRE141J-472Y | C RESISTOR | 4.7K 5% 1/4W | |
| | R1364 | QRE141J-223Y | C RESISTOR | 22K 5% 1/4W | |
| | R1365 | QRE141J-682Y | C RESISTOR | 6.8K 5% 1/4W | |
| | R1366 | QRE141J-223Y | C RESISTOR | 22K 5% 1/4W | |
| | R1367 | QRE141J-682Y | C RESISTOR | 6.8K 5% 1/4W | |
| | ST304 | QNB0103-002 | SPK TERMINAL | 6010 CENT/REAR | |
| | ST305 | QNB0001-002 | SPK TERMINAL | 5020/6020 FRONT | |

■ Electrical parts list (System control & Audio board) Block No. 03

| △ | Item | Parts number | Parts name | Remarks | Area | △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|----------------|-----------------|------|---|---------|---------------|-----------------|----------------|------|
| | BK701 | LV42093-001A | FL HOLDER(L) | | | | C1438 | QETN0JM-477Z | E CAPACITOR | 470MF 20% 6.3V | |
| | BK702 | LV42092-001A | FL HOLDER(R) | | | | C1439 | QFLC1HJ-562Z | M CAPACITOR | 5600PF 5% 50V | |
| | C 701 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C1440 | QFLC1HJ-562Z | M CAPACITOR | 5600PF 5% 50V | |
| | C 702 | QCZ0202-155Z | ML C CAPA I/M | 1.5MF | | | C1443 | QCZ0202-155Z | ML C CAPA I/M | 1.5MF | |
| | C 703 | QEKC1HM-225Z | E CAPACITOR | 2.2MF 20% 50V | | | C1444 | NCB31CK-223X | C CAPACITOR | | |
| | C 704 | NCB31CK-223X | C CAPACITOR | | | | C1445 | NCB31CK-223X | C CAPACITOR | | |
| | C 705 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C1446 | NCB31HK-221X | C CAPACITOR | | |
| | C 706 | NCB21HK-331X | C.CAPA. C.M | | | | C1447 | QEKC1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | |
| | C 707 | QEKC1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | C1453 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | |
| | C 708 | QEKC1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | C1459 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | |
| | C 709 | QEKC1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | C1460 | NCB31CK-223X | C CAPACITOR | | |
| | C 713 | NCB21HK-103X | C CAPACITOR | | | | C1461 | NCB31CK-223X | C CAPACITOR | | |
| | C 714 | NCB21HK-103X | C CAPACITOR | | | | C1463 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | |
| | C 715 | NCB21HK-103X | C CAPACITOR | | | | C1464 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | |
| | C 716 | NCB21HK-103X | C CAPACITOR | | | | C1465 | QETN1HM-106Z | E CAPACITOR | 10MF 20% 50V | |
| | C 717 | NCB21HK-103X | C CAPACITOR | | | | D 701 | 1SS355-X | DIODE C.M | | |
| | C 718 | NCB21HK-103X | C CAPACITOR | | | | D 702 | 1SS355-X | DIODE C.M | | |
| | C 719 | NCB21HK-103X | C CAPACITOR | | | | D 719 | SLR-342VC-T | LED | | |
| | C 720 | NCB31CK-104X | C CAPACITOR | | | | DI701 | QLF0098-001 | FL TUBE | | |
| | C 721 | NCB31CK-104X | C CAPACITOR | | | | D1401 | MTZJ13C-T2 | ZENER DIODE | | |
| | C 722 | QCZ0202-155Z | ML C CAPA I/M | 1.5MF | | | D1402 | MTZJ6.2C-T2 | Z DIODE I/M | | |
| | C 730 | NCB31CK-104X | C CAPACITOR | | | | D1403 | MTZJ5.6C-T2 | ZENER DIODE | | |
| | CN402 | QGF1205C1-25 | CONNECTOR | | | | D1404 | MTZJ5.6C-T2 | ZENER DIODE | | |
| | CN411 | QGB2501J1-12 | CONNECTOR | | | | D1405 | MTZJ13C-T2 | ZENER DIODE | | |
| | CN421 | QGB2510J1-14 | CONNECTOR | | | | D1406 | MTZJ10C-T2 | Z.DIODE I.M | | |
| | CN431 | QGB2510J1-11 | CONNECTOR | | | | D1407 | MTZJ7.5C-T2 | ZENER DIODE | | |
| | CN441 | QGB2510J1-07 | CONNECTOR | | | | D1408 | MTZJ7.5C-T2 | ZENER DIODE | | |
| | CN471 | QGA2501C1-03 | 3P CONNECTOR | | | | D1409 | 1SS355-X | DIODE C.M | | |
| | CN472 | QGA2501C1-02 | 2P CONNECTOR | | | | D1410 | 1SS355-X | DIODE C.M | | |
| | CN473 | QGA2501C1-03 | 3P CONNECTOR | | | | D1411 | 1SS355-X | DIODE C.M | | |
| | CN481 | QGB2510J1-20 | CONNECTOR | | | | D1412 | 1SS355-X | DIODE C.M | | |
| | CN491 | QGB2510J1-04 | CONNECTOR | | | | EP401 | QNZ0136-001Z | EARTH PLATE | | |
| | CN701 | QGF1205F1-14 | CONNECTOR | | | | FL401 | QQR0590-001 | FILTER | | |
| | CN702 | QGF1205F1-25 | CONNECTOR | | | | FL402 | QQR0590-001 | FILTER | | |
| | CN704 | WJS0020-001A | SKT.WIRE ASS'Y | | | | HS401 | E70306-001 | HEAT SINK | | |
| | CN714 | QGA2001C1-03 | 3P PLUG ASSY | | | | HS402 | E70306-001 | HEAT SINK | | |
| | C1401 | QETN1HM-476Z | E CAPACITOR | 47MF 20% 50V | | | HS403 | E70306-001 | HEAT SINK | | |
| | C1402 | QETN1EM-107Z | E CAPACITOR | 100MF 20% 25V | | | HS404 | E70306-001 | HEAT SINK | | |
| | C1403 | QETN1EM-107Z | E CAPACITOR | 100MF 20% 25V | | | HS405 | E70306-001 | HEAT SINK | | |
| | C1404 | QETN1EM-107Z | E CAPACITOR | 100MF 20% 25V | | | HS434 | E70306-001 | HEAT SINK | | |
| | C1405 | QETN1EM-107Z | E CAPACITOR | 100MF 20% 25V | | | HS435 | E70306-001 | HEAT SINK | | |
| | C1406 | QETN1EM-107Z | E CAPACITOR | 100MF 20% 25V | | | IC423 | TC9162AF-X | IC | | |
| | C1407 | QCF31HZ-223Z | C CAPACITOR | .022MF +80:-20% | | | IC427 | BA15218F-XE | IC | | |
| | C1408 | QETN1EM-476Z | E CAPACITOR | 47MF 20% 25V | | | IC428 | M62446FP-X | IC | | |
| | C1409 | QETN1EM-476Z | E CAPACITOR | 47MF 20% 25V | | | IC701 | MN101C35DJW | IC | | |
| | C1410 | NCB31CK-223X | C CAPACITOR | | | | IC702 | IC-PST9139-T | IC I.M | | |
| | C1411 | NCB31CK-223X | C CAPACITOR | | | | IC703 | GP1UM281XK | IR DETECT UNIT | | |
| | C1422 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | JS701 | QSW0898-001 | JOG VOLUME | | |
| | C1423 | QEKC1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | Q 701 | DTC114YKA-X | CHIP D.TRANSIST | | |
| | C1424 | QEKC1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | Q 702 | DTC114TKA-X | TRANSISTOR | | |
| | C1425 | QEKC1CM-106Z | E CAPACITOR | 10MF 20% 16V | | | Q 703 | DTC144WKA-X | TRANSISTOR | | |
| | C1426 | NCB31CK-223X | C CAPACITOR | | | | Q 704 | DTC114YKA-X | CHIP D.TRANSIST | | |
| | C1427 | QFVF1HJ-334Z | MF CAPACITOR | .33MF 5% 50V | | | Q 707 | DTC114YKA-X | CHIP D.TRANSIST | | |
| | C1428 | QFLC1HJ-153Z | M CAPACITOR | .015MF 5% 50V | | | Q 708 | DTC114YKA-X | CHIP D.TRANSIST | | |
| | C1429 | QCB31HK-822Z | C CAPACITOR | 8200PF 10% 50V | | | Q 709 | DTC114YKA-X | CHIP D.TRANSIST | | |
| | C1430 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | Q 711 | DTA144EKA-X | TRANSISTOR | | |
| | C1431 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | △ Q1401 | KTA1046/Y/ | TRANSISTOR | | |
| | C1432 | NCB31CK-223X | C CAPACITOR | | | | △ Q1402 | 2SD2395/EF/ | TRANSISTOR | | |
| | C1433 | QFVF1HJ-334Z | MF CAPACITOR | .33MF 5% 50V | | | △ Q1403 | 2SD2395/EF/ | TRANSISTOR | | |
| | C1434 | QFLC1HJ-153Z | M CAPACITOR | .015MF 5% 50V | | | △ Q1404 | 2SD2395/EF/ | TRANSISTOR | | |
| | C1435 | QCB31HK-822Z | C CAPACITOR | 8200PF 10% 50V | | | △ Q1405 | 2SD2395/EF/ | TRANSISTOR | | |
| | C1436 | NCB31CK-223X | C CAPACITOR | | | | △ Q1406 | KTC3203/OY/-T | TRANSISTOR | | |
| | C1437 | QCZ0202-155Z | ML C CAPA I/M | 1.5MF | | | △ Q1407 | KTC3203/OY/-T | TRANSISTOR | | |

■ Electrical parts list (System control & Audio board) Block No. 03

| △ | Item | Parts number | Parts name | Remarks | Area | △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|---------------|----------------|-------------|------|---|-------|--------------|----------------|--------------|------|
| △ | Q1408 | KTA1271/OY-T | TRANSISTOR | | | | R 725 | NRSA63J-152X | MG RESISTOR | | |
| | Q1413 | 2SC3576-JVC-T | TRANSISTOR I/M | | | | R 726 | NRSA63J-222X | MG RESISTOR | | |
| | Q1414 | 2SC3576-JVC-T | TRANSISTOR I/M | | | | R 727 | NRSA63J-272X | MG RESISTOR | | |
| | Q1417 | 2SC3576-JVC-T | TRANSISTOR I/M | | | | R 728 | NRSA63J-103X | MG RESISTOR | | |
| | Q1418 | 2SC3576-JVC-T | TRANSISTOR I/M | | | | R 729 | NRSA63J-102X | MG RESISTOR | | |
| | Q1419 | 2SC3576-JVC-T | TRANSISTOR I/M | | | | R 730 | NRSA63J-102X | MG RESISTOR | | |
| | Q1420 | KRA104M-T | D.TR.I.M | | | | R 731 | NRSA63J-122X | MG RESISTOR | | |
| | Q1421 | 2SC3576-JVC-T | TRANSISTOR I/M | | | | R 732 | NRSA63J-152X | MG RESISTOR | | |
| | Q1422 | 2SC3576-JVC-T | TRANSISTOR I/M | | | | R 733 | NRSA63J-222X | MG RESISTOR | | |
| | Q1423 | KRA104M-T | D.TR.I.M | | | | R 734 | NRSA63J-272X | MG RESISTOR | | |
| | Q1424 | KRA104M-T | D.TR.I.M | | | | R 736 | NRSA63J-103X | MG RESISTOR | | |
| | Q1425 | 2SC3576-JVC-T | TRANSISTOR I/M | | | | R 737 | NRSA63J-102X | MG RESISTOR | | |
| | Q1426 | 2SC3576-JVC-T | TRANSISTOR I/M | | | | R 738 | NRSA63J-102X | MG RESISTOR | | |
| | Q1431 | KRC104M-T | D.TR.I.M | | | | R 739 | NRSA63J-122X | MG RESISTOR | | |
| | Q1432 | KRC104M-T | D.TR.I.M | | | | R 740 | NRSA63J-152X | MG RESISTOR | | |
| | Q1433 | KRC104M-T | D.TR.I.M | | | | R 741 | NRSA63J-222X | MG RESISTOR | | |
| △ | Q1434 | 2SD2395/EF/ | TRANSISTOR | | | | R 742 | NRSA63J-272X | MG RESISTOR | | |
| △ | Q1435 | 2SD2395/EF/ | TRANSISTOR | | | | R 743 | NRSA63J-103X | MG RESISTOR | | |
| | R 475 | NRSA63J-203X | MG RESISTOR | | | | R 744 | NRSA63J-102X | MG RESISTOR | | |
| | R 476 | NRSA63J-273X | MG RESISTOR | | | | R 745 | NRSA63J-102X | MG RESISTOR | | |
| | R 477 | QRZ9006-4R7X | F RESISTOR | 4.7 1/4W | | | R 746 | NRSA63J-122X | MG RESISTOR | | |
| | R 478 | QRJ146J-2R2X | UNF C RESISTOR | 2.2 5% 1/4W | | | R 747 | NRSA63J-152X | MG RESISTOR | | |
| | R 479 | QRJ146J-2R2X | UNF C RESISTOR | 2.2 5% 1/4W | | | R 748 | NRSA63J-222X | MG RESISTOR | | |
| | R 480 | NRSA63J-512X | MG RESISTOR | | | | R 749 | NRSA63J-272X | MG RESISTOR | | |
| | R 481 | NRSA63J-104X | MG RESISTOR | | | | R 750 | NRSA63J-103X | MG RESISTOR | | |
| | R 482 | NRSA63J-104X | MG RESISTOR | | | | R 757 | NRSA63J-103X | MG RESISTOR | | |
| | R 483 | NRSA63J-102X | MG RESISTOR | | | | R 758 | NRSA63J-103X | MG RESISTOR | | |
| | R 484 | NRSA63J-104X | MG RESISTOR | | | | R 759 | NRSA63J-103X | MG RESISTOR | | |
| | R 485 | NRSA63J-102X | MG RESISTOR | | | | R 760 | NRSA63J-103X | MG RESISTOR | | |
| | R 486 | NRSA63J-104X | MG RESISTOR | | | | R 761 | NRSA63J-103X | MG RESISTOR | | |
| | R 487 | NRSA63J-102X | MG RESISTOR | | | | R 762 | NRSA63J-102X | MG RESISTOR | | |
| | R 488 | NRSA63J-104X | MG RESISTOR | | | | R 768 | NRSA63J-103X | MG RESISTOR | | |
| | R 489 | NRSA63J-103X | MG RESISTOR | | | | R 769 | NRSA63J-102X | MG RESISTOR | | |
| | R 490 | NRSA63J-103X | MG RESISTOR | | | | R 772 | NRSA63J-392X | MG RESISTOR | | |
| | R 491 | NRSA63J-512X | MG RESISTOR | | | | R 773 | NRSA63J-392X | MG RESISTOR | | |
| | R 492 | NRSA63J-0R0X | MG RESISTOR | | | | R 775 | NRSA63J-103X | MG RESISTOR | | |
| | R 493 | NRSA63J-0R0X | MG RESISTOR | | | | R 779 | NRSA63J-103X | MG RESISTOR | | |
| | R 494 | NRSA63J-0R0X | MG RESISTOR | | | | R 783 | NRSA63J-221X | MG RESISTOR | | |
| | R 495 | NRSA63J-0R0X | MG RESISTOR | | | | R 784 | NRSA63J-221X | MG RESISTOR | | |
| | R 701 | NRSA63J-472X | MG RESISTOR | | | | R 785 | NRSA63J-221X | MG RESISTOR | | |
| | R 702 | NRSA63J-223X | MG RESISTOR | | | | R 786 | NRSA63J-221X | MG RESISTOR | | |
| | R 703 | NRSA63J-103X | MG RESISTOR | | | | R 787 | NRSA63J-221X | MG RESISTOR | | |
| | R 704 | NRSA63J-471X | MG RESISTOR | | | | R 788 | NRSA63J-221X | MG RESISTOR | | |
| | R 705 | NRSA63J-103X | MG RESISTOR | | | | R 789 | NRSA63J-221X | MG RESISTOR | | |
| | R 706 | NRSA63J-103X | MG RESISTOR | | | | R 790 | NRSA63J-221X | MG RESISTOR | | |
| | R 707 | NRSA63J-103X | MG RESISTOR | | | | R 791 | NRSA63J-221X | MG RESISTOR | | |
| | R 708 | NRSA63J-103X | MG RESISTOR | | | | R 792 | NRSA63J-221X | MG RESISTOR | | |
| | R 709 | NRSA63J-103X | MG RESISTOR | | | | R 793 | NRSA63J-221X | MG RESISTOR | | |
| | R 710 | NRSA63J-103X | MG RESISTOR | | | | R 794 | NRSA63J-221X | MG RESISTOR | | |
| | R 711 | NRSA63J-104X | MG RESISTOR | | | | R 795 | NRSA63J-221X | MG RESISTOR | | |
| | R 712 | NRSA63J-103X | MG RESISTOR | | | | R 796 | NRSA63J-221X | MG RESISTOR | | |
| | R 713 | NRSA63J-103X | MG RESISTOR | | | | R 797 | NRSA63J-221X | MG RESISTOR | | |
| | R 714 | NRSA63J-103X | MG RESISTOR | | | | R 798 | NRSA63J-221X | MG RESISTOR | | |
| | R 715 | NRSA63J-103X | MG RESISTOR | | | | R 799 | NRSA63J-221X | MG RESISTOR | | |
| | R 716 | NRSA63J-103X | MG RESISTOR | | | | R 871 | NRSA63J-103X | MG RESISTOR | | |
| | R 717 | NRSA63J-103X | MG RESISTOR | | | | R 872 | NRSA63J-103X | MG RESISTOR | | |
| | R 718 | NRSA63J-103X | MG RESISTOR | | | | R 873 | NRSA63J-103X | MG RESISTOR | | |
| | R 719 | NRSA63J-221X | MG RESISTOR | | | △ | R1401 | QRZ9005-100X | F RESISTOR | 10 1/4W | |
| | R 720 | NRSA63J-222X | MG RESISTOR | | | △ | R1402 | QRJ146J-182X | UNF C RESISTOR | 1.8K 5% 1/4W | |
| | R 721 | NRSA63J-103X | MG RESISTOR | | | △ | R1403 | QRZ9005-120X | F RESISTOR | 12 1/4W | |
| | R 722 | NRSA63J-102X | MG RESISTOR | | | △ | R1404 | QRJ146J-272X | UNF C RESISTOR | 2.7K 5% 1/4W | |
| | R 723 | NRSA63J-102X | MG RESISTOR | | | △ | R1405 | QRZ9005-120X | F RESISTOR | 12 1/4W | |
| | R 724 | NRSA63J-122X | MG RESISTOR | | | △ | R1406 | QRK126J-682X | C RESISTOR | 6.8K 5% 1/2W | |

■ Electrical parts list (System control & Audio board) Block No. 03

| △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|----------------|--------------|------|
| △ | R1407 | QRZ9006-4R7X | F RESISTOR | 4.7 1/4W | |
| △ | R1408 | QRZ9006-4R7X | F RESISTOR | 4.7 1/4W | |
| △ | R1409 | QRJ146J-272X | UNF C RESISTOR | 2.7K 5% 1/4W | |
| △ | R1410 | QRZ9006-4R7X | F RESISTOR | 4.7 1/4W | |
| △ | R1411 | QRJ146J-182X | UNF C RESISTOR | 1.8K 5% 1/4W | |
| △ | R1412 | QRZ9005-100X | F RESISTOR | 10 1/4W | |
| △ | R1413 | QRJ146J-102X | UNF C RESISTOR | 1.0K 5% 1/4W | |
| △ | R1414 | QRZ9005-100X | F RESISTOR | 10 1/4W | |
| △ | R1415 | QRJ146J-222X | UNF C RESISTOR | 2.2K 5% 1/4W | |
| △ | R1416 | QRZ9005-100X | F RESISTOR | 10 1/4W | |
| △ | R1417 | QRJ146J-222X | UNF C RESISTOR | 2.2K 5% 1/4W | |
| △ | R1418 | QRZ9005-680X | F RESISTOR | 68 1/4W | |
| △ | R1419 | QRZ9005-680X | F RESISTOR | 68 1/4W | |
| | R1437 | NRSA63J-102X | MG RESISTOR | | |
| | R1438 | NRSA63J-102X | MG RESISTOR | | |
| | R1439 | NRSA63J-103X | MG RESISTOR | | |
| | R1440 | NRSA63J-103X | MG RESISTOR | | |
| | R1442 | NRSA63J-104X | MG RESISTOR | | |
| | R1444 | NRSA63J-103X | MG RESISTOR | | |
| | R1445 | NRSA63J-102X | MG RESISTOR | | |
| | R1446 | NRSA63J-104X | MG RESISTOR | | |
| | R1447 | NRSA63J-102X | MG RESISTOR | | |
| | R1448 | NRSA63J-103X | MG RESISTOR | | |
| | R1449 | NRSA63J-102X | MG RESISTOR | | |
| | R1450 | NRSA63J-103X | MG RESISTOR | | |
| | R1451 | NRSA63J-104X | MG RESISTOR | | |
| | R1452 | NRSA63J-104X | MG RESISTOR | | |
| | R1453 | NRSA63J-102X | MG RESISTOR | | |
| | R1454 | NRSA63J-104X | MG RESISTOR | | |
| | R1455 | NRSA63J-104X | MG RESISTOR | | |
| △ | R1456 | QRJ146J-220X | UNF C RESISTOR | 22 5% 1/4W | |
| | R1457 | NRSA63J-472X | MG RESISTOR | | |
| | R1458 | NRSA63J-472X | MG RESISTOR | | |
| △ | R1459 | QRZ9005-680X | F RESISTOR | 68 1/4W | |
| △ | R1460 | QRZ9005-680X | F RESISTOR | 68 1/4W | |
| | R1461 | QRJ146J-2R2X | UNF C RESISTOR | 2.2 5% 1/4W | |
| | R1462 | QRJ146J-2R2X | UNF C RESISTOR | 2.2 5% 1/4W | |
| | R1463 | NRSA63J-104X | MG RESISTOR | | |
| | R1464 | NRSA63J-104X | MG RESISTOR | | |
| | R1465 | NRSA63J-102X | MG RESISTOR | | |
| | R1470 | NRSA63J-391X | MG RESISTOR | | |
| | R1471 | NRSA63J-391X | MG RESISTOR | | |
| | R1472 | NRSA63J-103X | MG RESISTOR | | |
| | R1473 | NRSA63J-103X | MG RESISTOR | | |
| | R1474 | NRSA63J-102X | MG RESISTOR | | |
| | R1480 | NRSA63J-104X | MG RESISTOR | | |
| | R1490 | NRSA63J-273X | MG RESISTOR | | |
| | R1492 | NRSA63J-102X | MG RESISTOR | | |
| | R1493 | NRSA63J-102X | MG RESISTOR | | |
| | R1494 | NRSA63J-102X | MG RESISTOR | | |
| | R1495 | NRSA63J-103X | MG RESISTOR | | |
| | R1496 | NRSA63J-103X | MG RESISTOR | | |
| | R1497 | NRSA63J-511X | MG RESISTOR | | |
| | R1498 | NRSA63J-511X | MG RESISTOR | | |
| | R1499 | NRSA63J-104X | MG RESISTOR | | |
| | R1500 | NRSA63J-474X | MG RESISTOR | | |
| | S 721 | QSW0683-001Z | PUSH SWITCH | TUNING+ | |
| | S 722 | QSW0683-001Z | PUSH SWITCH | TUNING- | |
| | S 723 | QSW0683-001Z | PUSH SWITCH | PRESET+ | |
| | S 724 | QSW0683-001Z | PUSH SWITCH | PRESET- | |
| | S 725 | QSW0683-001Z | PUSH SWITCH | FM MODE | |
| | S 726 | QSW0683-001Z | PUSH SWITCH | MEMORY | |
| | S 727 | QSW0683-001Z | PUSH SWITCH | POWER | |

| △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|-------------|-------------|------|
| | S 728 | QSW0683-001Z | PUSH SWITCH | SURROUND | |
| | S 729 | QSW0683-001Z | PUSH SWITCH | SURR MODE | |
| | S 732 | QSW0683-001Z | PUSH SWITCH | SPK1 | |
| | S 740 | QSW0683-001Z | PUSH SWITCH | TV/DBS(COM) | |
| | S 741 | QSW0683-001Z | PUSH SWITCH | FM/AM(COM) | |
| | S 742 | QSW0683-001Z | PUSH SWITCH | ADJUST | |
| | S 743 | QSW0683-001Z | PUSH SWITCH | SETTING | |
| | S 744 | QSW0683-001Z | PUSH SWITCH | + | |
| | S 745 | QSW0683-001Z | PUSH SWITCH | - | |
| | S 751 | QSW0683-001Z | PUSH SWITCH | DIGITAL | |
| | S 752 | QSW0683-001Z | PUSH SWITCH | ANALOG | |
| | S 754 | QSW0683-001Z | PUSH SWITCH | DVD | |
| | S 755 | QSW0683-001Z | PUSH SWITCH | CD | |
| | S 756 | QSW0683-001Z | PUSH SWITCH | VCR | |
| | S 757 | QSW0683-001Z | PUSH SWITCH | TAPE/CDR | |
| | X 701 | QAX0246-001Z | C RESONATOR | | |

■ Electrical parts list (DSP board)

Block No. 04

| △ | Item | Parts number | Parts name | Remarks | Area | △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|--------------|----------------|------|---|-------|----------------|-------------|---------------|------|
| | C 601 | NCB31HK-102X | C CAPACITOR | | | | C2508 | NCS31HJ-330X | C CAPACITOR | | |
| | C 602 | NCB31HK-102X | C CAPACITOR | | | | C2512 | NCF31CZ-104X | C CAPACITOR | | |
| | C 603 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C2513 | NCB31HK-122X | C CAPACITOR | | |
| | C 604 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C2514 | NCB31HK-122X | C CAPACITOR | | |
| | C 605 | NCF31CZ-104X | C CAPACITOR | | | | C2515 | NCS31HJ-121X | C CAPACITOR | | |
| | C 606 | NCF31CZ-104X | C CAPACITOR | | | | C2516 | NCS31HJ-121X | C CAPACITOR | | |
| | C 607 | QEKC1CM-107Z | E CAPACITOR | 100MF 20% 16V | | | C2525 | NCB31HK-102X | C CAPACITOR | | |
| | C 608 | NCF31CZ-104X | C CAPACITOR | | | | C2526 | NCB31HK-102X | C CAPACITOR | | |
| | C 609 | NCF31CZ-104X | C CAPACITOR | | | | C2527 | QETN1HM-106Z | E CAPACITOR | 10MF 20% 50V | |
| | C 610 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C2528 | QETN1HM-106Z | E CAPACITOR | 10MF 20% 50V | |
| | C 611 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C2531 | NCS31HJ-560X | C CAPACITOR | | |
| | C 612 | NCB31CK-103X | C CAPACITOR | | | | C2532 | NCS31HJ-560X | C CAPACITOR | | |
| | C 621 | QEKC1HM-105Z | E CAPACITOR | 1.0MF 20% 50V | | | C2533 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | |
| | C 622 | NCS31HJ-101X | C.CAPA. C.M | | | | C2534 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | |
| | C 624 | NCF31CZ-104X | C CAPACITOR | | | | C2539 | NCF31CZ-104X | C CAPACITOR | | |
| | C 626 | NCF31AZ-105X | C CAPACITOR | | | | C2540 | NCF31CZ-104X | C CAPACITOR | | |
| | C 627 | NCF31AZ-105X | C CAPACITOR | | | | C2551 | NCS31HJ-560X | C CAPACITOR | | |
| | C 628 | NCB31CK-103X | C CAPACITOR | | | | C2552 | NCS31HJ-560X | C CAPACITOR | | |
| | C 631 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C2555 | NCF31CZ-104X | C CAPACITOR | | |
| | C 632 | NCB31CK-103X | C CAPACITOR | | | | C2556 | NCF31CZ-104X | C CAPACITOR | | |
| | C 633 | NCF31CZ-104X | C CAPACITOR | | | | C2561 | QETN1HM-105Z | E CAPACITOR | 1.0MF 20% 50V | |
| | C 634 | NCF31CZ-104X | C CAPACITOR | | | | C2562 | QETN1HM-105Z | E CAPACITOR | 1.0MF 20% 50V | |
| | C 635 | NCF31CZ-104X | C CAPACITOR | | | | C2563 | NCS31HJ-560X | C CAPACITOR | | |
| | C 636 | NCB31CK-473X | C CAPACITOR | | | | C2564 | NCS31HJ-560X | C CAPACITOR | | |
| | C 638 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C2565 | NCB31HK-102X | C CAPACITOR | | |
| | C 639 | NCB31CK-103X | C CAPACITOR | | | | C2566 | NCB31HK-102X | C CAPACITOR | | |
| | C 640 | NCB31CK-103X | C CAPACITOR | | | | C2569 | NCF31CZ-104X | C CAPACITOR | | |
| | C 641 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C2570 | NCF31CZ-104X | C CAPACITOR | | |
| | C 642 | NCB31CK-103X | C CAPACITOR | | | | C2575 | NCB31HK-102X | C CAPACITOR | | |
| | C 643 | NCB31AK-474X | C CAPACITOR | | | | C2576 | NCB31HK-102X | C CAPACITOR | | |
| | C 644 | NCB31CK-103X | C CAPACITOR | | | | C2577 | QETN1HM-106Z | E CAPACITOR | 10MF 20% 50V | |
| | C 645 | NCS31HJ-101X | C.CAPA. C.M | | | | C2578 | QETN1HM-106Z | E CAPACITOR | 10MF 20% 50V | |
| | C 646 | NCB31CK-103X | C CAPACITOR | | | | C2581 | QETN1HM-105Z | E CAPACITOR | 1.0MF 20% 50V | |
| | C 647 | NCS31HJ-220X | C CAPACITOR | | | | C2582 | QETN1CM-106Z | E CAPACITOR | 10MF 20% 16V | |
| | C 648 | NCS31HJ-180X | C CAPACITOR | | | | C2583 | NCS31HJ-560X | C CAPACITOR | | |
| | C 649 | NCS31HJ-121X | C CAPACITOR | | | | C2584 | NCS31HJ-560X | C CAPACITOR | | |
| | C 653 | NCB31CK-104X | C CAPACITOR | | | | C2585 | NCF31CZ-104X | C CAPACITOR | | |
| | C 654 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C2586 | NCF31CZ-104X | C CAPACITOR | | |
| | C 661 | NCB31CK-103X | C CAPACITOR | | | | C2587 | NCS31HJ-560X | C CAPACITOR | | |
| | C 671 | NCB31CK-103X | C CAPACITOR | | | | C2588 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | |
| | C 672 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C2589 | NCF31CZ-104X | C CAPACITOR | | |
| | C 673 | NCB31CK-103X | C CAPACITOR | | | | C2590 | NCF31CZ-104X | C CAPACITOR | | |
| | C 677 | NCS31HJ-101X | C.CAPA. C.M | | | | C2591 | NCB31HK-102X | C CAPACITOR | | |
| | C 679 | NCS31HJ-101X | C.CAPA. C.M | | | | C2592 | NCB31HK-103X | C CAPACITOR | | |
| | C 681 | NCB31CK-103X | C CAPACITOR | | | | C2594 | NCB31CK-473X | C CAPACITOR | | |
| | C 682 | NCB31CK-103X | C CAPACITOR | | | | C2595 | NCB31HK-102X | C CAPACITOR | | |
| | C 683 | NCB31CK-103X | C CAPACITOR | | | | C2597 | QETN1HM-106Z | E CAPACITOR | 10MF 20% 50V | |
| | C 684 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | C2598 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | |
| | C 685 | QEKC1CM-476Z | E CAPACITOR | 47MF 20% 16V | | | D 607 | 1SS355-X | DIODE C.M | | |
| | C 686 | QEKC1CM-476Z | E CAPACITOR | 47MF 20% 16V | | | D 608 | 1SS355-X | DIODE C.M | | |
| | C 687 | NCB31CK-103X | C CAPACITOR | | | | D 609 | 1SS355-X | DIODE C.M | | |
| | C 688 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | D 610 | 1SS355-X | DIODE C.M | | |
| | C 689 | NCB31CK-103X | C CAPACITOR | | | | IC601 | AK4527BVQP | IC | | |
| | C 690 | QEKC0JM-107Z | E CAPACITOR | 100MF 20% 6.3V | | | IC609 | BA15218F-XE | IC | | |
| | C 691 | NCB31HK-103X | C CAPACITOR | | | | IC610 | BA15218F-XE | IC | | |
| | C 693 | NCB31CK-103X | C CAPACITOR | | | | IC611 | TC74HC08AF-X | IC | | |
| | C 694 | NCF31CZ-104X | C CAPACITOR | | | | IC612 | TC74HC4072AF-X | IC | | |
| | CN681 | QGB2510K1-20 | B TO B CONNE | | | | IC621 | TC74HCU04AF-W | IC | | |
| | CN687 | QGF1205F1-06 | CONNECTOR | | | | IC631 | TC9446F-025 | IC | | |
| | C2500 | QEKC1CM-226Z | E CAPACITOR | 22MF 20% 16V | | | IC641 | W24L010AJ-12-X | IC | | |
| | C2503 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | IC650 | BA15218F-XE | IC | | |
| | C2504 | QETN1HM-475Z | E CAPACITOR | 4.7MF 20% 50V | | | IC651 | BA15218F-XE | IC | | |
| | C2507 | NCS31HJ-330X | C CAPACITOR | | | | IC652 | IMX9-W | IC | | |

■ Electrical parts list (DSP board)

Block No. 04

| △ | Item | Parts number | Parts name | Remarks | Area | △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|-----------------|-----------------|---------|------|-------|--------------|--------------|------------|---------|------|
| | IC661 | BA15218F-XE | IC | | | R 676 | NRSA63J-432X | MG RESISTOR | | | |
| | IC662 | IMX9-W | IC | | | R 677 | NRSA63J-822X | MG RESISTOR | | | |
| | IC671 | UPD784215AGC167 | IC(MICRO C ROM) | | | R 678 | NRSA63J-822X | MG RESISTOR | | | |
| | IC672 | TC7SET32FU-X | IC | | | R 679 | NRSA63J-822X | MG RESISTOR | | | |
| | IC681 | BA033FP-X | I.C. | | | R 680 | NRSA63J-822X | MG RESISTOR | | | |
| | IC682 | IMX9-W | IC | | | R 682 | NRSA63J-103X | MG RESISTOR | | | |
| | IC683 | BA033LBSG-W | IC | | | R 683 | NRSA63J-0R0X | MG RESISTOR | | | |
| | IC690 | BA15218F-XE | IC | | | R 684 | NRSA63J-0R0X | MG RESISTOR | | | |
| | IC691 | BA15218F-XE | IC | | | R 687 | NRSA63J-0R0X | MG RESISTOR | | | |
| | J 601 | QNN0347-001 | PIN JACK | | | R 688 | NRSA63J-0R0X | MG RESISTOR | | | |
| | K 601 | NQR0269-004X | FERRITE BEADS | | | R 689 | NRSA63J-0R0X | MG RESISTOR | | | |
| | Q 607 | DTA144EKA-X | TRANSISTOR | | | R 691 | NRSA63J-221X | MG RESISTOR | | | |
| | Q 670 | DTC114YE-X | TRANSISTOR | | | R 692 | NRSA63J-221X | MG RESISTOR | | | |
| | Q 671 | 2SD2114K/VW/-X | CHIP TRANSISTOR | | | R 693 | NRSA63J-221X | MG RESISTOR | | | |
| | Q 672 | DTC114YE-X | TRANSISTOR | | | R 694 | NRSA63J-221X | MG RESISTOR | | | |
| | Q 673 | DTA144EKA-X | TRANSISTOR | | | R 695 | NRSA63J-221X | MG RESISTOR | | | |
| | Q2501 | DTA144EKA-X | TRANSISTOR | | | R 696 | NRSA63J-221X | MG RESISTOR | | | |
| | R 600 | NRSA63J-0R0X | MG RESISTOR | | | R 697 | NRSA63J-0R0X | MG RESISTOR | | | |
| | R 601 | NRSA63J-473X | MG RESISTOR | | | R 698 | NRSA63J-0R0X | MG RESISTOR | | | |
| | R 602 | NRSA63J-473X | MG RESISTOR | | | R2500 | NRSA63J-102X | MG RESISTOR | | | |
| | R 603 | NRSA63J-473X | MG RESISTOR | | | R2501 | NRSA63J-104X | MG RESISTOR | | | |
| | R 606 | NRSA63J-221X | MG RESISTOR | | | R2502 | NRSA63J-104X | MG RESISTOR | | | |
| | R 607 | NRSA63J-221X | MG RESISTOR | | | R2507 | NRSA63J-223X | MG RESISTOR | | | |
| | R 608 | NRSA63J-221X | MG RESISTOR | | | R2508 | NRSA63J-223X | MG RESISTOR | | | |
| | R 609 | NRSA63J-221X | MG RESISTOR | | | R2509 | NRSA63J-223X | MG RESISTOR | | | |
| | R 611 | NRSA63J-221X | MG RESISTOR | | | R2510 | NRSA63J-223X | MG RESISTOR | | | |
| | R 612 | NRSA63J-221X | MG RESISTOR | | | R2511 | NRSA63J-103X | MG RESISTOR | | | |
| | R 613 | NRSA63J-822X | MG RESISTOR | | | R2512 | NRSA63J-103X | MG RESISTOR | | | |
| | R 615 | NRSA63J-432X | MG RESISTOR | | | R2513 | NRSA63J-103X | MG RESISTOR | | | |
| | R 617 | NRSA63J-103X | MG RESISTOR | | | R2514 | NRSA63J-103X | MG RESISTOR | | | |
| | R 618 | NRSA63J-103X | MG RESISTOR | | | R2515 | NRSA63J-103X | MG RESISTOR | | | |
| | R 620 | NRSA63J-221X | MG RESISTOR | | | R2516 | NRSA63J-103X | MG RESISTOR | | | |
| | R 621 | NRSA63J-561X | MG RESISTOR | | | R2519 | NRSA63J-331X | MG RESISTOR | | | |
| | R 622 | NRSA63J-750X | MG RESISTOR | | | R2520 | NRSA63J-331X | MG RESISTOR | | | |
| | R 623 | NRSA63J-331X | MG RESISTOR | | | R2521 | NRSA63J-331X | MG RESISTOR | | | |
| | R 624 | NRSA63J-222X | MG RESISTOR | | | R2522 | NRSA63J-331X | MG RESISTOR | | | |
| | R 627 | NRSA63J-472X | MG RESISTOR | | | R2525 | NRSA63J-102X | MG RESISTOR | | | |
| | R 628 | NRSA63J-333X | MG RESISTOR | | | R2526 | NRSA63J-102X | MG RESISTOR | | | |
| | R 631 | NRSA63J-0R0X | MG RESISTOR | | | R2527 | NRSA63J-104X | MG RESISTOR | | | |
| | R 632 | NRSA63J-0R0X | MG RESISTOR | | | R2528 | NRSA63J-104X | MG RESISTOR | | | |
| | R 639 | NRSA63J-472X | MG RESISTOR | | | R2529 | NRSA63J-103X | MG RESISTOR | | | |
| | R 640 | NRSA63J-0R0X | MG RESISTOR | | | R2530 | NRSA63J-103X | MG RESISTOR | | | |
| | R 641 | NRSA63F-102X | MG RESISTOR | | | R2531 | NRSA63J-752X | MG RESISTOR | | | |
| | R 642 | NRSA63J-103X | MG RESISTOR | | | R2532 | NRSA63J-752X | MG RESISTOR | | | |
| | R 643 | NRSA63J-101X | MG RESISTOR | | | R2533 | NRSA63J-103X | MG RESISTOR | | | |
| | R 644 | NRSA63J-153X | MG RESISTOR | | | R2534 | NRSA63J-103X | MG RESISTOR | | | |
| | R 645 | NRSA63F-102X | MG RESISTOR | | | R2535 | NRSA63J-103X | MG RESISTOR | | | |
| | R 646 | NRSA63J-103X | MG RESISTOR | | | R2536 | NRSA63J-103X | MG RESISTOR | | | |
| | R 647 | NRSA63J-225X | MG RESISTOR | | | R2537 | NRSA63J-104X | MG RESISTOR | | | |
| | R 648 | NRSA63J-472X | MG RESISTOR | | | R2538 | NRSA63J-104X | MG RESISTOR | | | |
| | R 657 | NRSA63J-103X | MG RESISTOR | | | R2550 | NRSA63J-272X | MG RESISTOR | | | |
| | R 661 | NRSA63J-221X | MG RESISTOR | | | R2551 | NRSA63J-103X | MG RESISTOR | | | |
| | R 662 | NRSA63J-221X | MG RESISTOR | | | R2552 | NRSA63J-103X | MG RESISTOR | | | |
| | R 663 | NRSA63J-221X | MG RESISTOR | | | R2553 | NRSA63J-153X | MG RESISTOR | | | |
| | R 664 | NRSA63J-221X | MG RESISTOR | | | R2554 | NRSA63J-153X | MG RESISTOR | | | |
| | R 668 | NRSA63J-0R0X | MG RESISTOR | | | R2555 | NRSA63J-752X | MG RESISTOR | | | |
| | R 669 | NRSA63J-103X | MG RESISTOR | | | R2556 | NRSA63J-752X | MG RESISTOR | | | |
| | R 670 | NRSA63J-103X | MG RESISTOR | | | R2557 | NRSA63J-103X | MG RESISTOR | | | |
| | R 671 | NRSA63J-103X | MG RESISTOR | | | R2558 | NRSA63J-273X | MG RESISTOR | | | |
| | R 672 | NRSA63J-105X | MG RESISTOR | | | R2560 | NRSA63J-105X | MG RESISTOR | | | |
| | R 673 | NRSA63J-432X | MG RESISTOR | | | R2561 | NRSA63J-104X | MG RESISTOR | | | |
| | R 674 | NRSA63J-432X | MG RESISTOR | | | R2562 | NRSA63J-104X | MG RESISTOR | | | |
| | R 675 | NRSA63J-432X | MG RESISTOR | | | R2563 | NRSA63J-103X | MG RESISTOR | | | |

■ Electrical parts list (DSP board)

Block No. 04

| △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|---------------|---------|------|
| | R2564 | NRSA63J-103X | MG RESISTOR | | |
| | R2565 | NRSA63J-202X | MG RESISTOR | | |
| | R2566 | NRSA63J-202X | MG RESISTOR | | |
| | R2567 | NRSA63J-103X | MG RESISTOR | | |
| | R2568 | NRSA63J-103X | MG RESISTOR | | |
| | R2569 | NRSA63J-122X | MG RESISTOR | | |
| | R2570 | NRSA63J-122X | MG RESISTOR | | |
| | R2575 | NRSA63J-102X | MG RESISTOR | | |
| | R2576 | NRSA63J-102X | MG RESISTOR | | |
| | R2577 | NRSA63J-104X | MG RESISTOR | | |
| | R2578 | NRSA63J-104X | MG RESISTOR | | |
| | R2581 | NRSA63J-104X | MG RESISTOR | | |
| | R2582 | NRSA63J-104X | MG RESISTOR | | |
| | R2583 | NRSA63J-123X | MG RESISTOR | | |
| | R2584 | NRSA63J-223X | MG RESISTOR | | |
| | R2585 | NRSA63J-302X | MG RESISTOR | | |
| | R2586 | NRSA63J-332X | MG RESISTOR | | |
| | R2587 | NRSA63J-103X | MG RESISTOR | | |
| | R2588 | NRSA63J-103X | MG RESISTOR | | |
| | R2589 | NRSA63J-104X | MG RESISTOR | | |
| | R2590 | NRSA63J-333X | MG RESISTOR | | |
| | R2591 | NRSA63J-122X | MG RESISTOR | | |
| | R2592 | NRSA63J-333X | MG RESISTOR | | |
| | R2594 | NRSA63J-333X | MG RESISTOR | | |
| | R2595 | NRSA63J-102X | MG RESISTOR | | |
| | R2596 | NRSA63J-102X | MG RESISTOR | | |
| | R2597 | NRSA63J-104X | MG RESISTOR | | |
| | R2598 | NRSA63J-104X | MG RESISTOR | | |
| | UN661 | GP1FA351RZ | OPT RECEIVER | | |
| | X 631 | QAX0722-001Z | CRYSTAL | | |
| | X 671 | QAX0719-001Z | 1COSCIALLATOR | | |

■ Electrical parts list (Tuner board)

Block No. 05

| △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|----------------|---------------|------|
| | AT101 | QNB0014-001 | ANT TERMINAL | | |
| | BK 1 | LV31618-001A | SHIELD BKT | | |
| | C 101 | NCB21HK-103X | C CAPACITOR | | |
| | C 103 | NCB21HK-223X | C CAPACITOR | | |
| | C 105 | NCB21HK-223X | C CAPACITOR | | |
| | C 107 | QEK1CM-226Z | E CAPACITOR | 22MF 20% 16V | |
| | C 111 | NCB21HK-473X | C CAPACITOR | | |
| | C 112 | NDC21HJ-120X | C CAPACITOR | | |
| | C 121 | NDC21HJ-120X | C CAPACITOR | | |
| | C 122 | NDC21HJ-120X | C CAPACITOR | | |
| | C 123 | NCB21HK-473X | C CAPACITOR | | |
| | C 126 | NCS21HJ-101X | C CAPACITOR | | |
| | C 128 | QENC1HM-474Z | NP E CAPACITOR | .47MF 20% 50V | |
| | C 129 | NCB21HK-102X | C CAPACITOR | | |
| | C 130 | QEK1AM-107Z | E CAPACITOR | 100MF 20% 10V | |
| | C 133 | QEK1CM-226Z | E CAPACITOR | 22MF 20% 16V | |
| | C 134 | NCB21HK-222X | C CAPACITOR | | |
| | C 135 | NCB21HK-223X | C CAPACITOR | | |
| | C 136 | QEK1HM-105Z | E CAPACITOR | 1.0MF 20% 50V | |
| | C 137 | NCB21HK-331X | C.CAPA. C.M | | |
| | C 138 | NCB21HK-473X | C CAPACITOR | | |
| | C 139 | NCB21HK-333X | C CAPACITOR | | |
| | C 140 | NCB21HK-333X | C CAPACITOR | | |
| | C 141 | NCB21HK-473X | C CAPACITOR | | |
| | C 143 | NCB21HK-223X | C CAPACITOR | | |
| | C 144 | NCB21HK-473X | C CAPACITOR | | |
| | C 146 | QEK1HM-105Z | E CAPACITOR | 1.0MF 20% 50V | |
| | C 147 | QEK1HM-105Z | E CAPACITOR | 1.0MF 20% 50V | |
| | C 148 | QEK1HM-224Z | E CAPACITOR | .22MF 20% 50V | |
| | C 149 | QEK1HM-105Z | E CAPACITOR | 1.0MF 20% 50V | |
| | C 150 | QEK1CM-226Z | E CAPACITOR | 22MF 20% 16V | |
| | C 156 | QDGB1HK-102Y | C CAPACITOR | | |
| | C 157 | NCB21HK-473X | C CAPACITOR | | |
| | C 158 | QEK1CM-226Z | E CAPACITOR | 22MF 20% 16V | |
| | C 161 | QEK1CM-106Z | E CAPACITOR | 10MF 20% 16V | |
| | C 162 | QEK1CM-106Z | E CAPACITOR | 10MF 20% 16V | |
| | C 163 | NCB21HK-223X | C CAPACITOR | | |
| | C 164 | NCB21HK-473X | C CAPACITOR | | |
| | C 168 | QEK1HM-105Z | E CAPACITOR | 1.0MF 20% 50V | |
| | C 184 | QEK1CM-107Z | E CAPACITOR | 100MF 20% 16V | |
| | C 185 | QEK1CM-106Z | E CAPACITOR | 10MF 20% 16V | |
| | C 186 | QEK1CM-106Z | E CAPACITOR | 10MF 20% 16V | |
| | CF101 | QAX0419-001Z | C FILTER | | |
| | CF102 | QAX0604-001Z | C FILTER | | |
| | CF103 | QAX0519-001Z | C FILTER | | |
| | CN111 | QGB2501K2-12 | CONNECTOR | | |
| | D 121 | 1SS133-T2 | SI DIODE IM | | |
| | D 123 | 1SS133-T2 | SI DIODE IM | | |
| | D 124 | 1SS133-T2 | SI DIODE IM | | |
| | D 125 | 1SS133-T2 | SI DIODE IM | | |
| | D 129 | 1SS133-T2 | SI DIODE IM | | |
| | IC102 | LA1838 | IC | | |
| | IC121 | LC72136N | IC | | |
| | Q 102 | 2SC535/BC-T | TRANSISTOR | | |
| | Q 103 | 2SC461/BC-T | TRANSISTOR | | |
| | Q 121 | KRA103M-T | TRANSISTOR | FM+B | |
| | R 103 | NRSA02J-221X | MG RESISTOR | | |
| | R 104 | NRSA02J-272X | MG RESISTOR | | |
| | R 105 | NRSA02J-391X | MG RESISTOR | | |
| | R 106 | NRSA02J-102X | MG RESISTOR | | |
| | R 107 | NRSA02J-391X | MG RESISTOR | | |
| | R 108 | NRSA02J-332X | MG RESISTOR | | |
| | R 109 | NRSA02J-221X | MG RESISTOR | | |

| △ | Item | Parts number | Parts name | Remarks | Area |
|---|-------|--------------|-------------|---------|------|
| | R 115 | NRSA02J-104X | MG RESISTOR | | |
| | R 119 | NRSA02J-103X | MG RESISTOR | | |
| | R 122 | NRSA02J-472X | MG RESISTOR | | |
| | R 124 | NRSA02J-222X | MG RESISTOR | | |
| | R 126 | NRSA02J-562X | MG RESISTOR | | |
| | R 127 | NRSA02J-822X | MG RESISTOR | | |
| | R 128 | NRSA02J-472X | MG RESISTOR | | |
| | R 129 | NRSA02J-222X | MG RESISTOR | | |
| | R 130 | QRZ9005-680X | F RESISTOR | 68 1/4W | |
| | R 132 | NRSA02J-393X | MG RESISTOR | | |
| | R 133 | NRSA02J-392X | MG RESISTOR | | |
| | R 134 | NRSA02J-102X | MG RESISTOR | | |
| | R 140 | NRSA02J-183X | MG RESISTOR | | |
| | R 141 | NRSA02J-102X | MG RESISTOR | | |
| | R 142 | NRSA02J-470X | MG RESISTOR | | |
| | R 143 | NRSA02J-562X | MG RESISTOR | | |
| | R 144 | NRSA02J-332X | MG RESISTOR | | |
| | R 145 | NRSA02J-103X | MG RESISTOR | | |
| | R 146 | NRSA02J-392X | MG RESISTOR | | |
| | R 147 | NRSA02J-332X | MG RESISTOR | | |
| | R 150 | NRSA02J-331X | MG RESISTOR | | |
| | R 157 | NRSA02J-682X | MG RESISTOR | | |
| | R 158 | NRSA02J-682X | MG RESISTOR | | |
| | R 161 | NRSA02J-102X | MG RESISTOR | | |
| | R 162 | NRSA02J-102X | MG RESISTOR | | |
| | R 182 | NRSA02J-103X | MG RESISTOR | | |
| | R 183 | NRSA02J-103X | MG RESISTOR | | |
| | R 184 | NRSA02J-103X | MG RESISTOR | | |
| | RF101 | QAU0124-002 | FRONT END | | |
| | T 111 | QQR0796-001 | COIL BLOCK | | |
| | T 142 | QQR0973-001 | IFT | | |
| | X 121 | QAX0402-001 | CRYSTAL | | |

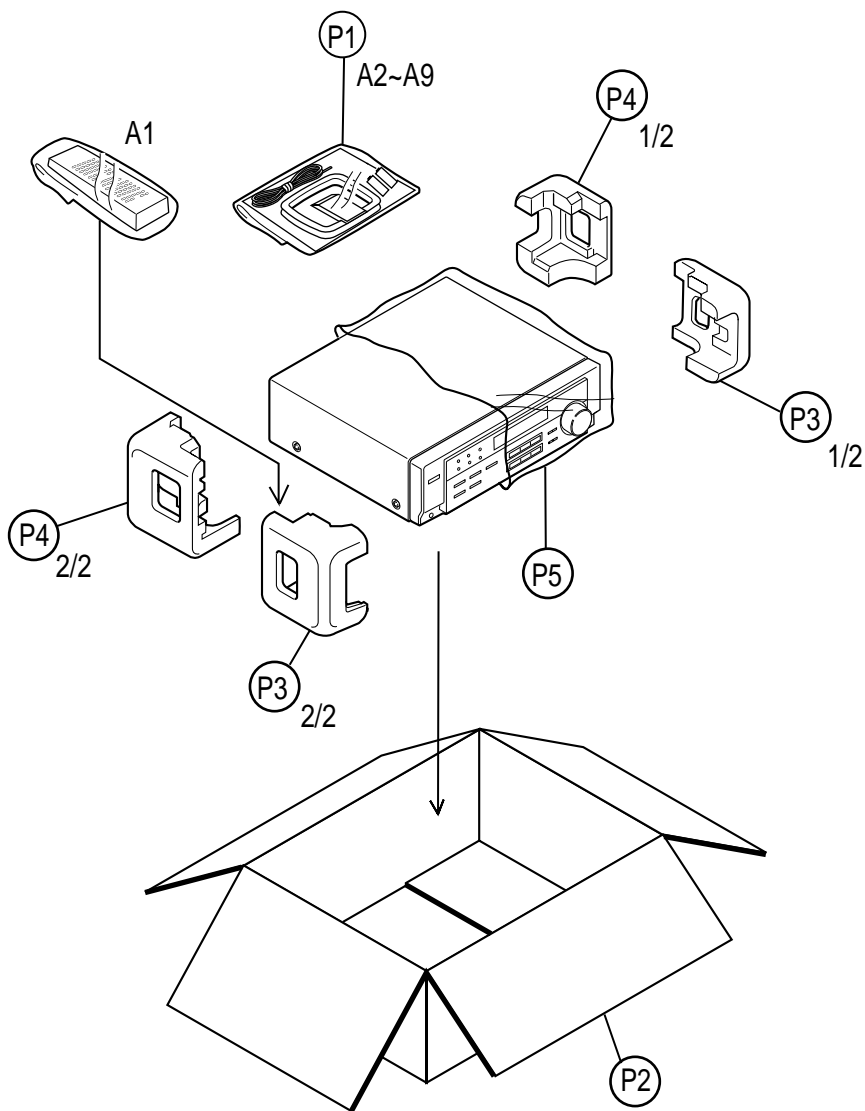
Packing materials and accessories parts list

Block No.

| | | | |
|---|---|---|---|
| M | 3 | M | M |
|---|---|---|---|

Block No.

| | | | |
|---|---|---|---|
| M | 5 | M | M |
|---|---|---|---|



Parts list (Packing)

Block No. M3MM

| △ | Item | Parts number | Parts name | Q'ty | Description | Area |
|---|------|--------------|-------------|------|-------------|------|
| | P 1 | QPA02503505P | POLY BAG | 1 | | |
| | P 2 | LV20983-030A | CARTON BOX | 1 | RX-5020VBK | |
| | | LV20983-038A | CARTON BOX | 1 | RX-5022VSL | |
| | P 3 | LV20925-001A | PACKING PAD | 1 | | |
| | P 4 | LV20926-001A | PACKING PAD | 1 | | |
| | P 5 | QPC06507015P | POLY BAG | 1 | | |

Parts list (Accessories)

Block No. M5MM

| △ | Item | Parts number | Parts name | Q'ty | Description | Area |
|---|------|--------------|-----------------|------|-------------|------|
| | A 1 | RM-SRX5020J | REMOCON | 1 | | |
| | A 2 | ----- | BATTERY | 2 | | |
| | A 3 | LVT0850-001A | INST BOOK | 1 | ENG | J |
| | | LVT0850-002A | INST BOOK | 1 | ENG,FRE | C |
| | A 4 | EWP503-001C | ANT.WIRE | 1 | | |
| | A 5 | QAL0204-001 | AM LOOP ANT | 1 | | |
| | A 6 | BT-51028-1 | J=REGIST CAR | 1 | | J |
| | A 7 | YU20333 | SAFETY INST. | 1 | | |
| | A 8 | BT-52004-2 | WARRANTY CARD | 1 | | C |
| | A 9 | BT-20071B | SERVICE NETWORK | 1 | | C |