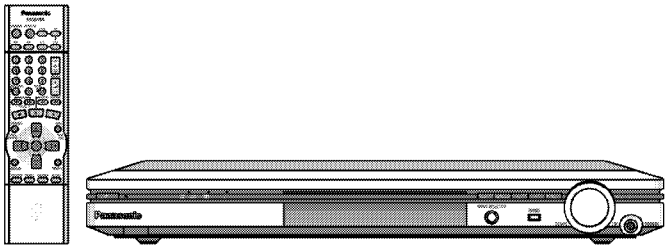
ORDER NO. MD0305192C2

Service Manual

AV Control Receiver



SA-XR15E
SA-XR15EB
SA-XR15EG

Colour

(S).....Silver Type

(K).....Black Type

Specification

●AMPLIFIER SECTION	
Power output (at AC 230-240V)	
DIN 1 kHz (T.H.D. 1 %)	2 x 40 W (6 Ω)
20 Hz-20 kHz continuous power output both channels driven	2 x 35 W (6 Ω)
Total harmonic distortion	
rated power at 20 Hz-20 kHz	0.9 % (6 Ω)
Power output each channel driven	
DIN 1 kHz (T.H.D. 1 %)	
Front (L/R)	40 W (6 Ω)
Center	40 W (6 Ω)
Surround (L/R)	40 W (6 Ω)
10 % total harmonic distortion at 1 kHz	
Front (L/R)	50 W (6 Ω)
Center	50 W (6 Ω)
Surround (L/R)	50 W (6 Ω)
Load impedance	
Front (L/R)	6-16 Ω
Center	6-16 Ω
Surround (L/R)	6-16 Ω
Frequency response	
DVD, TV, VCR, AUX	10 Hz-44 kHz, ±3 dB
Input sensitivity and impedance	
DVD, TV, VCR, AUX	200 mV / 22 kΩ
S/N at rated power (6Ω)	
DVD, TV (Digital Input)	90 dB (IHF, A:96 dB)
Tone controls	
BASS	50 Hz, +10 to -10 dB
TREBLE	20 kHz, +10 to -10 dB
Output voltage	
VCR	200 mV
Channel balance (250 Hz-6.3 kHz)	±1 dB
Channel separation	55 dB
Subwoofer frequency response (-6 dB)	7-200 Hz
Digital input	
Optical	2
Coaxial	1
●FM TUNER SECTION	
Frequency range	87.50-108.00 MHz
Sensitivity	
S/N 30 dB	1.5 µV / 75 Ω
S/N 26 dB	1.3 µV / 75 Ω
S/N 20 dB	1.2 µV / 75 Ω
IHF usable sensitivity (IHF'58)	1.5 µV / 75 Ω
IHF 46 dB stereo quieting sensitivity	22 µV / 75 Ω
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	60 dB
STEREO	58 dB
Frequency response	
20 Hz-15kHz	+1 dB, -2 dB
Alternate channel selectivity	
±400 kHz	65 dB
Capture ratio	1.5 dB
Image rejection at 98 MHz	40 dB

Panasonic

IF rejection at 98 MHz	70 dB
Spurious response rejection at 98 MHz	70 dB
AM suppression	50 dB
Stereo separation	
1 kHz	40 dB
Carrier leak	
19 kHz	-30 dB
38 kHz	-50 dB
Channel balance (250 Hz-6.3 kHz)	±1.5 dB
Limiting point	1.2 µV
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminal	75 Ω (unbalanced)

●AM TUNER SECTION

Frequency range	522-1611 kHz (9 kHz steps) 530-1620 kHz (10 kHz steps)
Sensitivity	20 µV, 330 µV/m
Selectivity (at 999 kHz)	55 dB
IF rejection (at 999 kHz)	50 dB

●VIDEO SECTION

Output voltage at 1V input (unbalanced)	1±0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75 Ω

●GENERAL

Power supply	
For E, EG	AC 230 V, 50 Hz
For EB	AC 230-240 V, 50 Hz
Power consumption	65 W
Dimensions (W × H × D)	430 × 52 × 375 mm
Mass	3.5 kg

Power consumption in standby mode: 2 W

Notes:

1. Specifications are subject to change without notice.
   Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CONTENTS

1 SAFETY PRECAUTIONS

1.1. GENERAL GUIDELINES

1. When servicing. observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2Ω.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

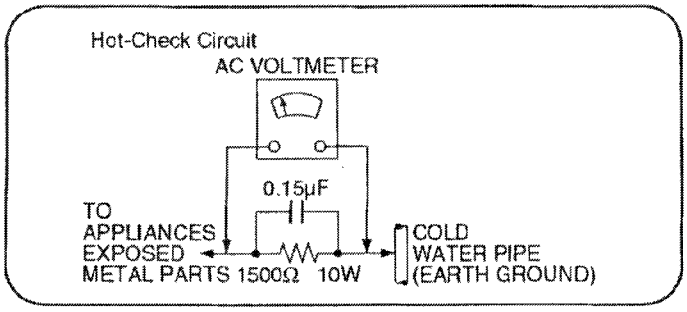


Fig. 1

1.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15μF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

2 Handling the Lead Solder

2.1. About lead free solder (PbF)

Distinction of PbF P.C.B. :

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point that standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

3 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors (C523, C524, C707, C717, C718) through a 10 Ω, 10 W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

For EB Current consumption at AC 230V-240V, 50Hz in NO SIGNAL mode should be 250~600 mA .

For E, EG Current consumption at AC 230V, 50Hz in NO SIGNAL mode should be 250~600 mA .

4 About the Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

*No sound is heard when the power is supplied.

*Sound stops during a performance.

The functions of this circuitry is to prevent circuitry damage, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

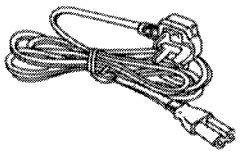
If this occurs, follow the procedure outlined below:

1. Press the STANDBY ⏻ /ON button, switch to STANDBY mode.
2. Determine the cause of the problem and correct it.
3. Press the STANDBY ⏻ /ON button once again, supply the power.

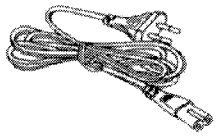
Note:

When the protection circuitry functions, the unit will not operate unless the STANDBY ⏻ /ON button is first switched STANDBY and then ON again.

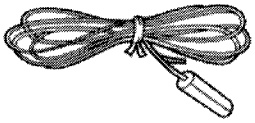
5 Accessories



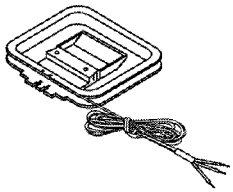
AC power supply cord
.....1 pc (EB)



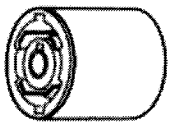
AC power supply cord
.....1 pc (E, EG)



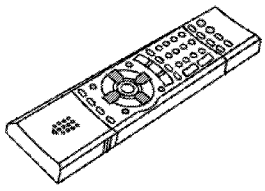
FM indoor antenna
.....1 pc



AM loop antenna
.....1 pc



Antenna plug
adapter
.....1 pcs (EG)



Remote control
.....1 pc

6 Caution for AC Mains Lead

(For "EB" area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

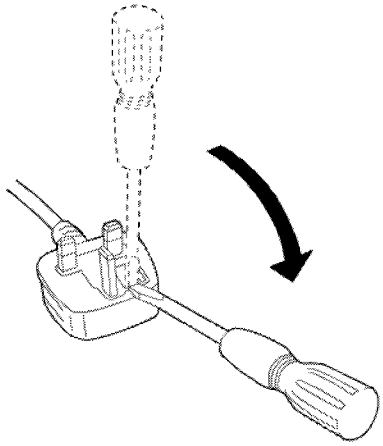
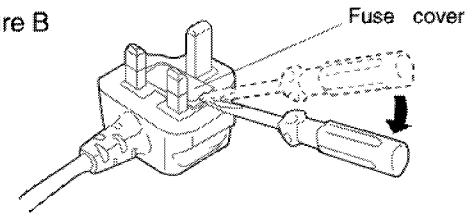


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

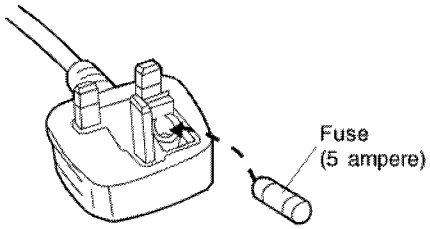
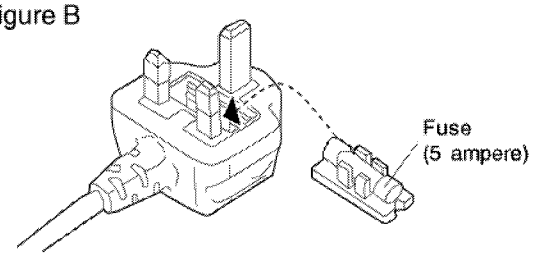


Figure B



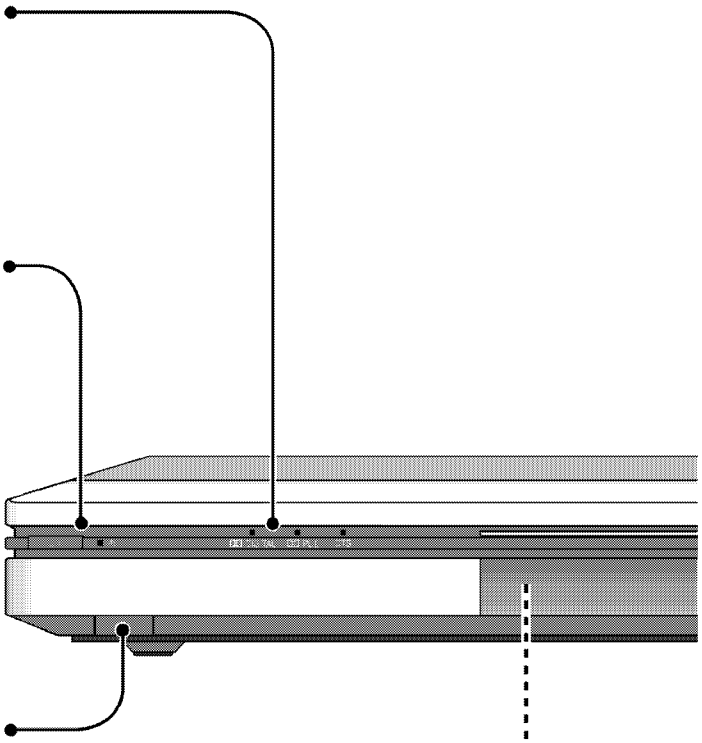
7 Operation Procedures

Main unit

[DD DIGITAL, DD PL II, DTS]
Light to indicate the source's input signal and decoding format used.
DD DIGITAL: Dolby Digital sources
DD PL II: Dolby Pro Logic II decoder is being used
DTS: DTS sources

Standby/on switch [⏻/I]
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.

Standby indicator [⏻]
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.



Remote control signal sensor

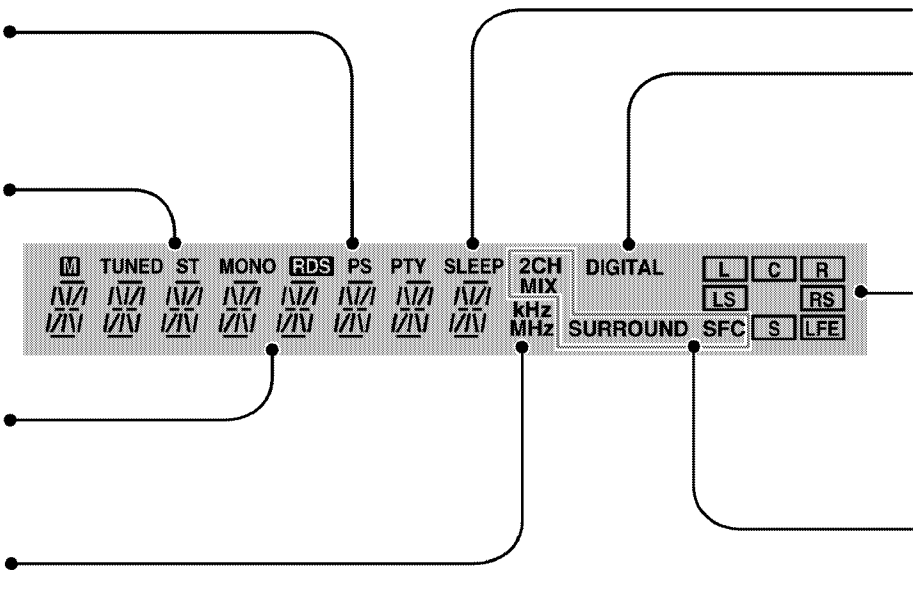
Display

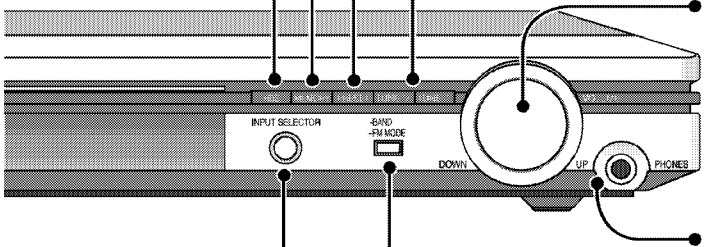
[RDS, PS, PTY]
RDS: Lights while RDS signals are being received.
PS, PTY: Show the current RDS display mode.

[M, TUNED, ST, MONO]
Radio indicators
M: Flashes or lights during presetting.
TUNED: A station is tuned.
ST: A stereo FM broadcast is tuned.
MONO: You have switched to monaural mode with [-BAND, -FM MODE] to improve reception.

General display
Shows the input mode, radio frequency, and other general information.

[kHz, MHz]
Frequency unit indicators
kHz: AM, or PCM sampling frequency
MHz: FM





[RDS]
Press to change the RDS display mode: Frequency, PS or PTY.

[MEMORY]
For presetting radio stations.

[PRESET]
Press to allow preset station selection with [TUNE, ∨, ∧].

[TUNE, ∨, ∧]
For tuning the radio and selecting preset stations.
Press and hold until the frequency starts scrolling to start automatic tuning. Tuning stops when a station is found.

[VOLUME]
Volume control.

[PHONES]
Headphone jack
Plug type: 6.3 mm stereo
- Avoid listening for prolonged periods of time to prevent hearing damage.
- The STEREO/2CH MIX mode is engaged when you connect headphones and you cannot select any of the other sound modes.

[-BAND, –FM MODE]
For switching between FM and AM.
If reception is poor in FM, press and hold so "MONO" appears to switch to monaural mode.

[INPUT SELECTOR]
For selecting input.

[SLEEP]
Sleep timer indicator.

[DIGITAL]
Lights when digital input is selected.

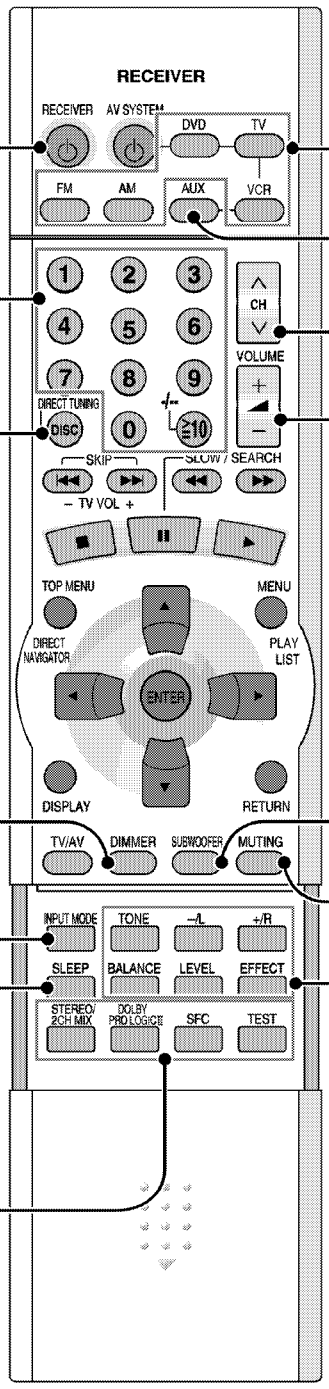
[L, C, R, LS, RS, S, LFE]
Program format indicators
Show the channels contained in the digital input signal. They do not light when input is analogue.
L: Front left channel
C: Center channel
R: Front right channel
LS: Surround left channel
RS: Surround right channel
S: If the surround channel is monaural.
LFE (Low Frequency Effects): Deep-bass effect.

[2CH MIX, SURROUND, SFC]
2CH MIX: Appears when you are playing a multi-channel source in 2CH MIX mode
SURROUND: Appears when you are using a Dolby Pro Logic II mode
SFC: Appears when you are using an SFC mode

For your reference
- **When playing videotapes**
  The picture remains on the screen even if you select TUNER or AUX.

Remote control

Buttons not explained on this page are used only to operate other equipment. Refer to the separate Remote Control Operation Guide for details.



[⏻, RECEIVER]
Standby/on button.

[1, 2, 3, 4, 5, 6, 7, 8, 9, 0]
To enter radio frequencies and channels.

[≧10, -/--]
To enter two digit channels.

[DISC, DIRECT TUNING]
To enable selection of radio stations by frequency.

[DIMMER]
For dimming the unit's display and turning off the panel light.

[INPUT MODE]
For selecting AUTO, ANALOG or DIGITAL.

[SLEEP]
To start the sleep timer.

[STEREO/2CH MIX]
For selecting STEREO or 2CH MIX mode

[DOLBY PRO LOGIC Ⅱ]
For selecting a Dolby Pro Logic Ⅱ mode: MOVIE, MUSIC or PANORAMA.

[SFC]
For selecting SFC modes.

[TEST]
To start the speaker test signal.

[DVD, TV, FM, AM, VCR]
Input mode and remote control mode buttons.

[AUX]
To select auxiliary (AUX) input.

[∧, CH, ∨]
For selecting preset radio channels.

[+, –, VOLUME]
To adjust the volume.

[SUBWOOFER]
For selecting subwoofer level.
Adjust the level in 5 steps
SW MIN, SW 5, SW 10, SW 15, and SW MAX.
Select SW "– – –" to stop output.

[MUTING]
To mute the volume.

[TONE]
To adjust the bass and treble.

[BALANCE]
To adjust the front speaker balance.

[LEVEL]
Use when adjusting speaker level.

[EFFECT]
Use when adjusting Dolby Pro Logic Ⅱ or SFC effects.

[–/L, +/R]
First select SLEEP, EFFECT, LEVEL, TONE or BALANCE, then press [–/L] or [+/R] to adjust.

For your reference

- **When using the subwoofer**
  Sound can be distorted if you raise the volume while subwoofer level is high. Reduce subwoofer level if this occurs.
- **When muting is on**
  Muting is also canceled when the unit is turned off.

8 Disassembly and Main Component Replacement Procedures and Operational Check

"ATTENTION SERVICER"

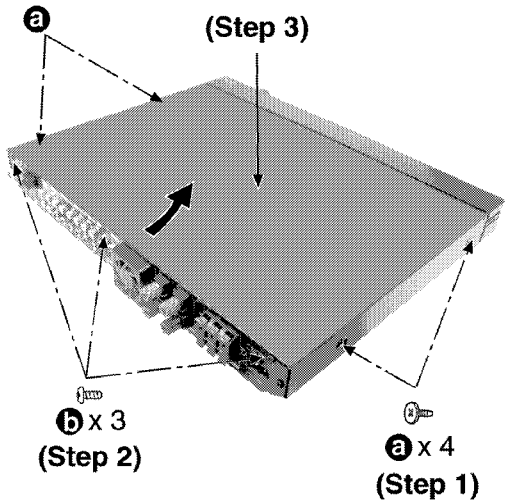
Some chassis components may have sharp edges.

Be careful when disassembling and servicing.

- **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
- **For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.**

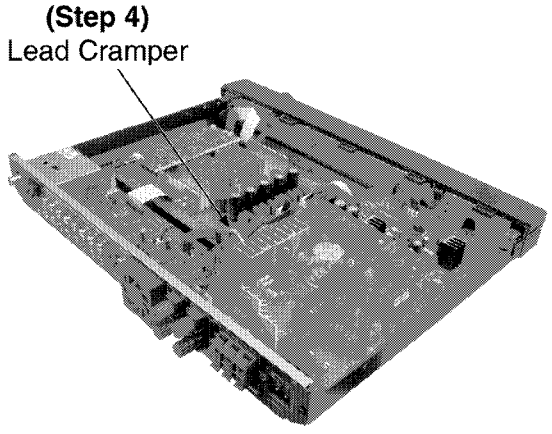
Contents

8.1. Checking for the Main P.C.B. and DSP P.C.B.

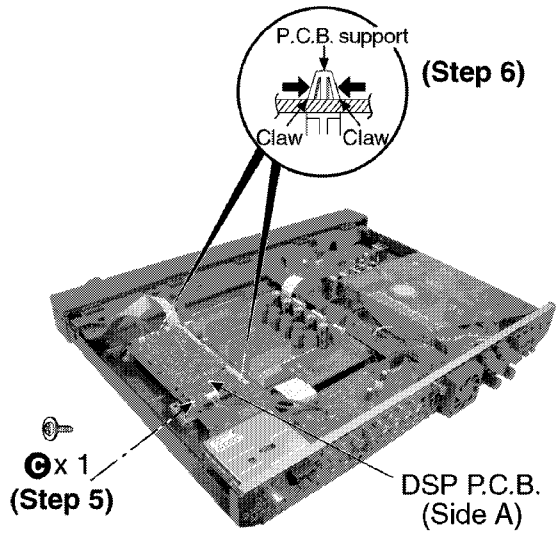


Steps 1 and 2 : Remove all the screws.

Step 3 : Remove the top cover.



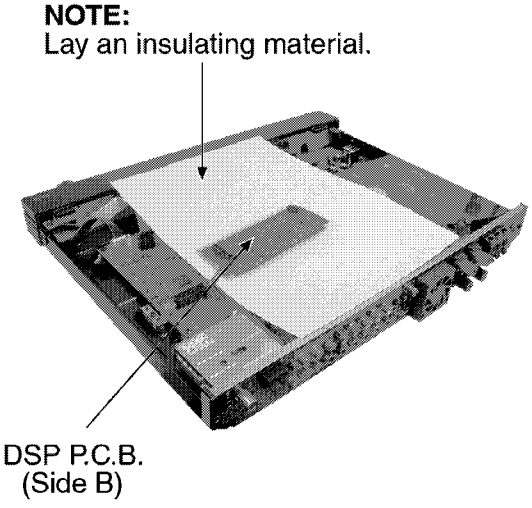
Step 4 : Remove the Lead Cramper.

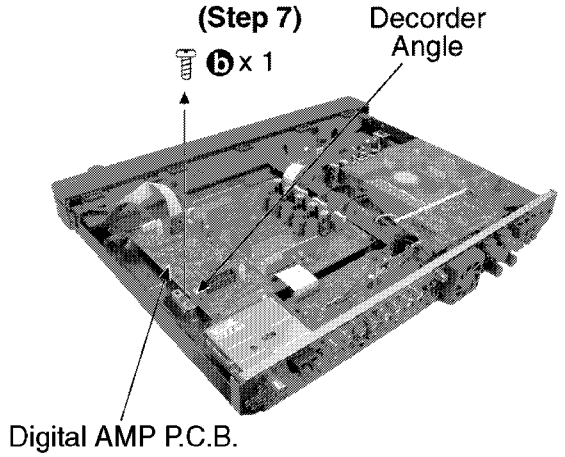


Step 5 : Remove the screws.

Step 6 : Release the claws of P.C.B. support and remove the DSP P.C.B.

- Check the DSP P.C.B. (Side B) as shown below.

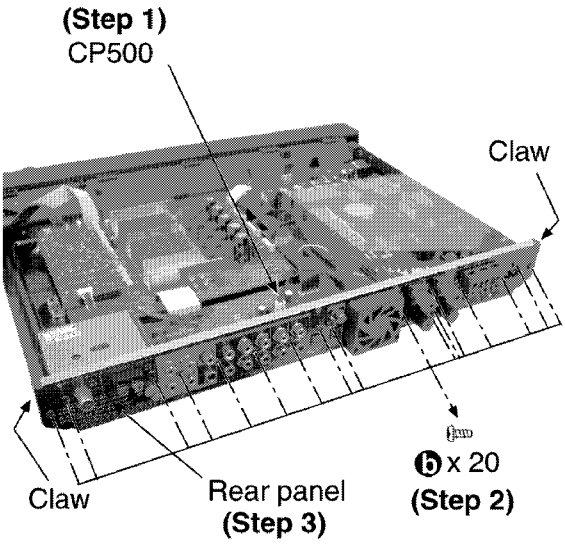




Step 7 : Remove the screw and Decorder Angle for checking Digital AMP P.C.B.

8.2. Checking for the Input P.C.B

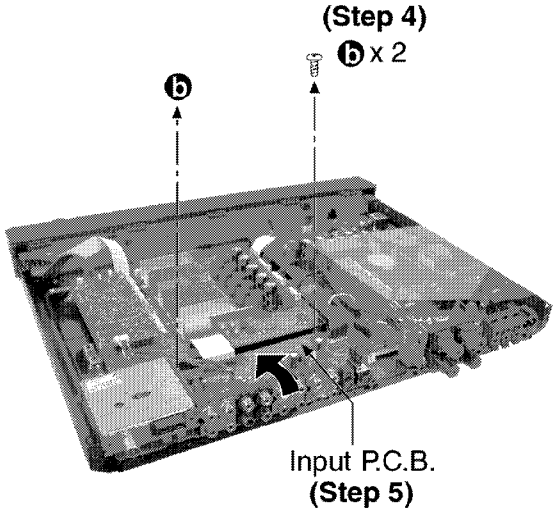
* Repeat step 1 to step 4 for 8.1.



Step 1 : Remove the connector (CP500).

Step 2 : Remove all the screws.

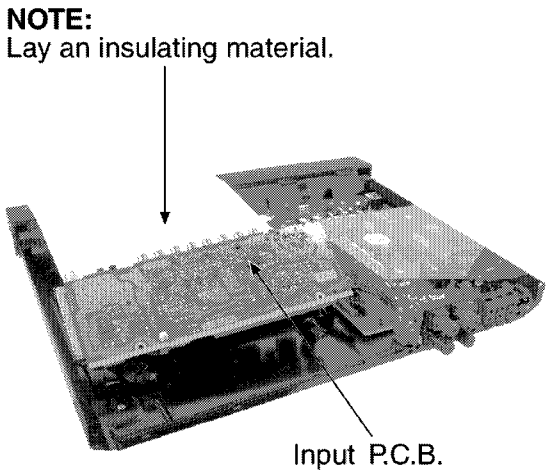
Step 3 : Remove the rear panel.



Step 4 : Remove all the screws.

Step 5 : Turn up the Input P.C.B.

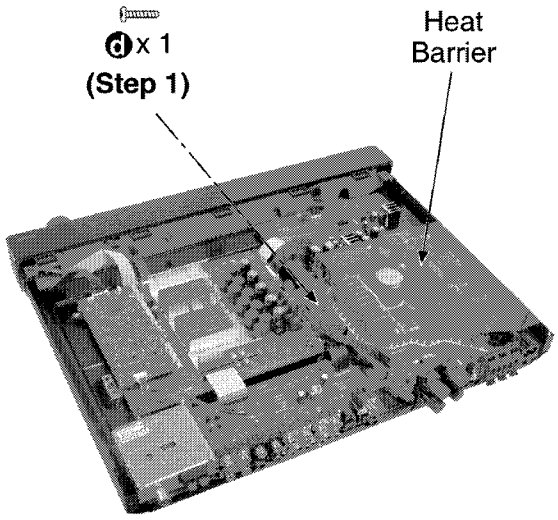
• Check the Input P.C.B. as shown below.



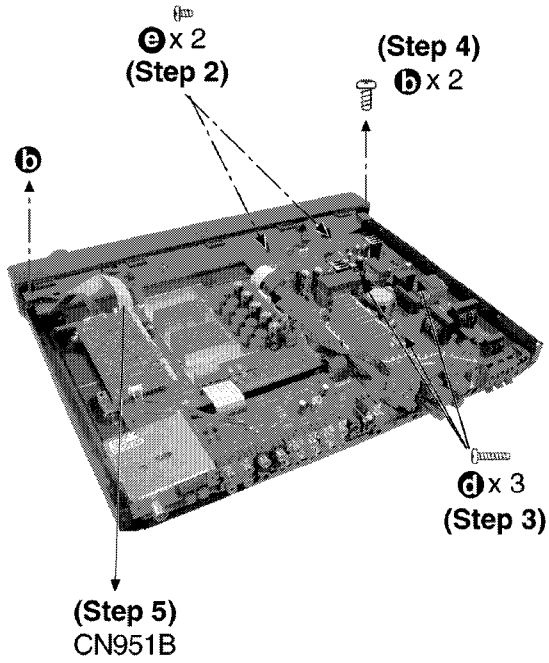
8.3. Checking for the Power Supply P.C.B.

* Repeat step 1 to step 7 for 8.1.

* Repeat step 1 to step 3 for 8.2.

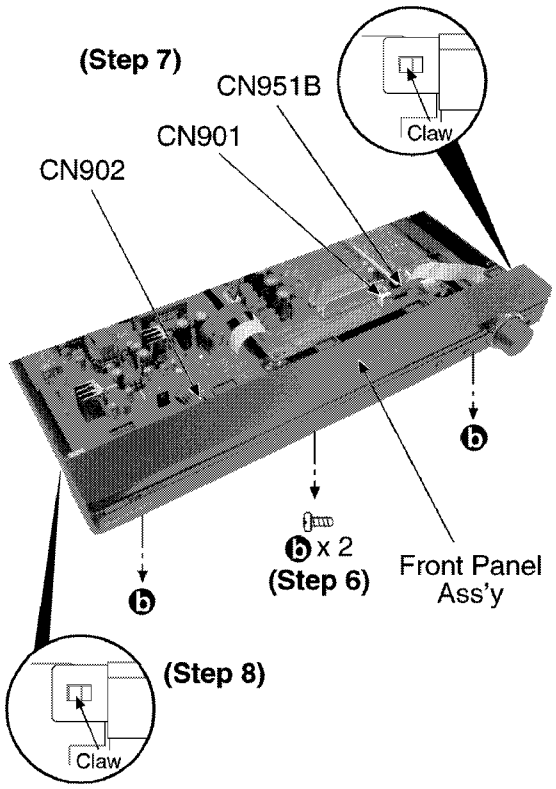


Step 1 : Remove the screw and Heat Barrier.



Step 2 - 4 : Remove all the screws.

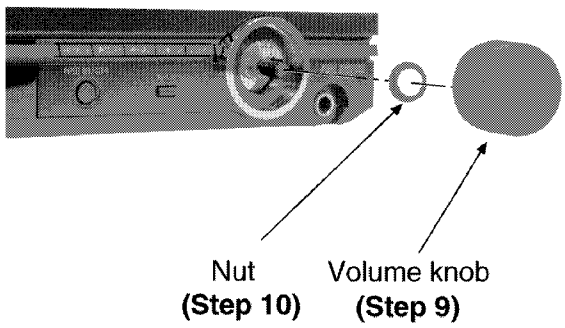
Step 5 : Remove the flat-cable from the connector (CN951B).



Step 6 : Remove all the screws.

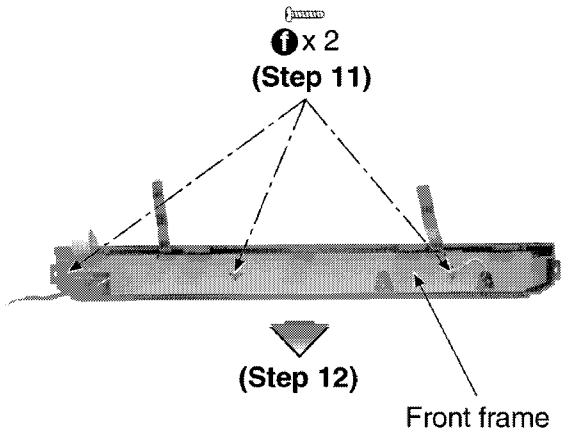
Step 7 : Remove all the connectors (CN951B, CN901 and CN902).

Step 8 : Release the 2 claws and remove the front panel ass'y.



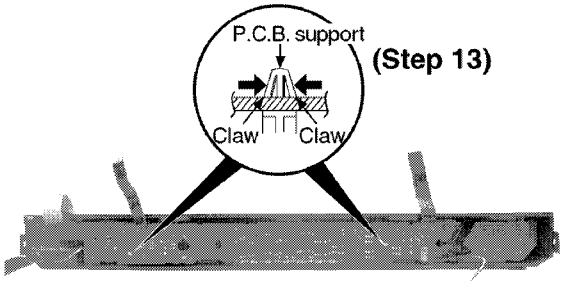
Step 9 : Remove the volume knob.

Step 10 : Remove the nut.

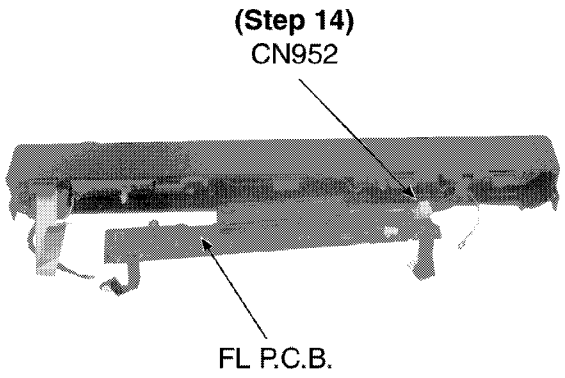


Step 11 : Remove all the screws.

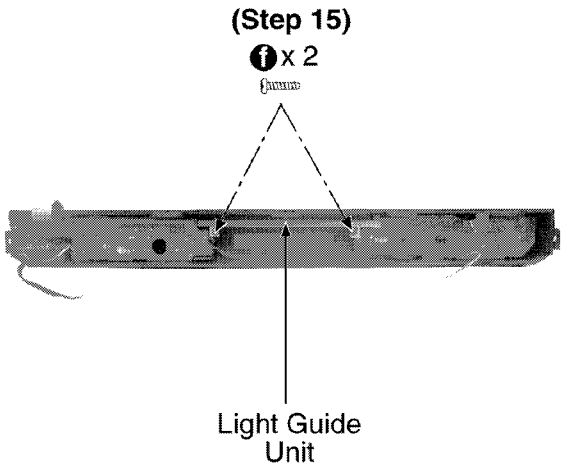
Step 12 : Remove the front frame as arrow shown above.



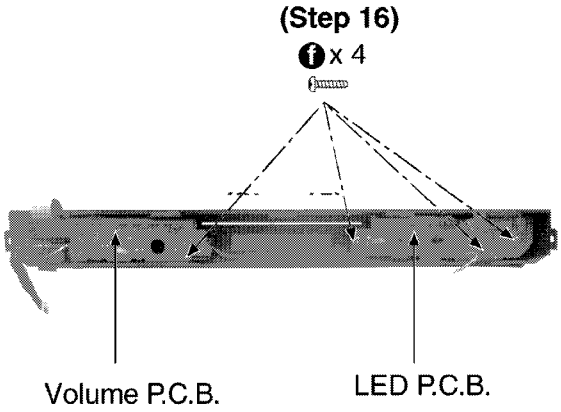
Step 13 : Release the claws of the P.C.B. support.



Step 14 : Release the connector (CN952) and remove the FL P.C.B.



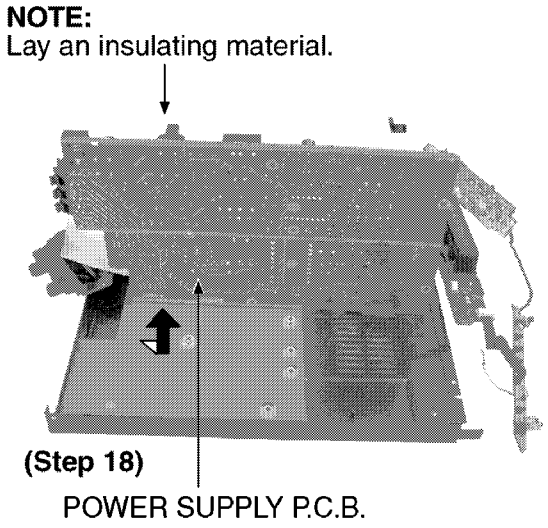
Step 15 : Remove all the screws and Light Guide Unit.



(Step 17)

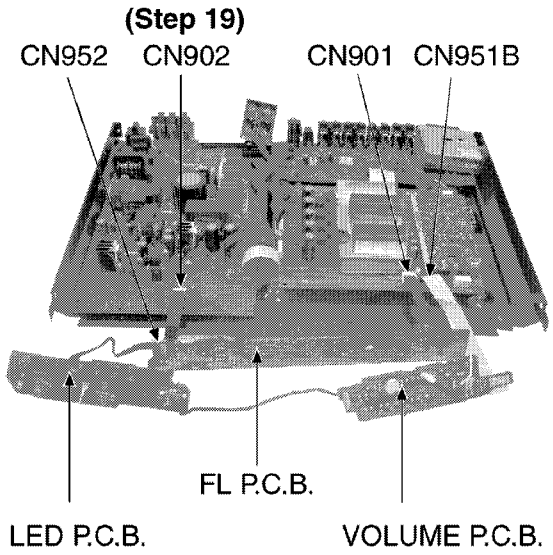
Step 16 : Remove all the screws.

Step 17 : Remove the Volume P.C.B. and LED P.C.B.



Step 18 : Turn the Power Supply P.C.B. as arrow shown above.

- Check the Power Supply P.C.B. as shown below.



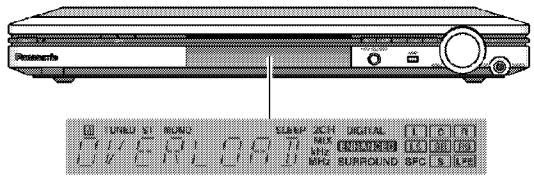
Step 19 : Connect back the connectors (CN952, CN902, CN901 and CN951B).

9 Self Diagnosis Display Function

This unit is equipped with the self diagnosis display function, which alarms faulty operation with error code. Use this function during servicing.

9.1. Automatically Displayed Error Codes

An error code automatically appears on the display (LCD) when faulty operation is detected. Refer to Fig. 9.1.



<Fig. 9.1>

9.2. Display Details

Refer to the following table.

LCD display	Symptom	Cause and Remedy
OVERLOAD	Speaker short, amplifier failure	Speaker short and failure in power amplifier, pre-amplifier circuits. Check for faulty parts and replace with new parts if necessary.
	Humidity protection activated	
FANLOCK	The fan stops suddenly.	Failure in fan or fan control circuits. Check for faulty parts and replace with new parts if necessary.
F70	Communication error between sub micro processor and its peripheral LSI	Failure sub-micro processor and its peripherals LSI. Check for faulty parts and replace with new parts if necessary.
F76	When the power is turned on, the unit power automatically turns off; the power cannot be turned on.	Failure in the power circuit system of the unit. This may happen when the direct current electricity is supplied to speaker terminals. Check for the above and replace with new parts if necessary.

9.3. Activating Self Diagnosis Function (Servicing Mode)

This mode can be used during servicing.

1. Plug the AC adapter to the power source. Press and hold down the INPUT SELECTOR button and the PRESET button, and then press the POWER button.
2. The message, DISPLAY appears on the display for three seconds, and then disappears.
3. When the TUNING DOWN button is pressed, the current program filing number (ex. "M45_***" for MA123_45) appears. The *** digit indicates the ROM checksum used for ROM collection, and if the unit is not loaded with ROM, "NO" appears.

   When the TUNING UP button is pressed, the sub micro computer program filing number (ex. S90_***" for MA678_90) appears. The *** digit indicates the ROM checksum used for ROM collection, and if the unit is not loaded with ROM, "NO" appears.
4. When the MEMORY button on the remote controller, the function is switched to "Input Inspection Mode", which output analog input signals at L channel of VCR analog input to all channels.

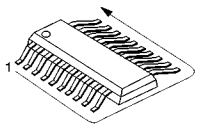
9.4. Returning to Normal Display

Press the POWER button on the unit to exit the function. The power is turned off.

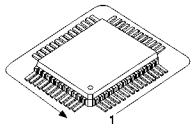
10 Type Illustration of IC´s, Transistors and Diodes

C0JBAZ001003 (20p)
C0JBAB000371 (8p)
C0JBAZ001437 (20p)
C0JZAS000002 (30p)
C0JBAA000244 (14p)
C0FBBK000035 (16p)
C1AB00000166 (14p)

C0FBAK000010 (24p)
C0ABBA000073 (8p)
C0JBAF000367 (8p)
C0JBAR000308 (8p)
C0ABBB000125 (8p)
C0ZBZ0000708 (32p)
C1BB00000462 (32p)

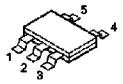


C2HBZZ000012 (144p)
C0HBB0000022 (44p)
C1BB00000767 (80p)
C2BBGF000441 (64p)
C2BBGF000440 (64p)
C1BB00000692 (48p)

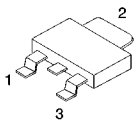


C0ABBB000127

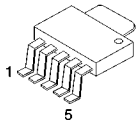
C0JBAB000423
C0JBZZ000138
C0JBAB000202
TC7SHU04F



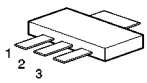
C0CBABG00006



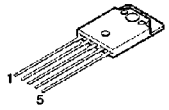
C0DBZZF00001



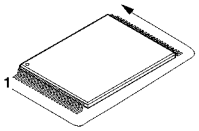
C0CBADC00042



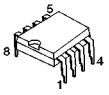
C1DA00000248



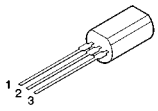
C3FBKC000103 (32p)



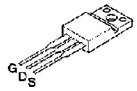
C0ABBB000102
C0DACZZ00007



C0DAEZC00003



B1DEGL000004



UNR211500L
2SC2412KT96R
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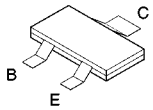
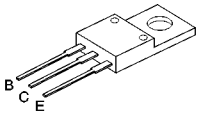
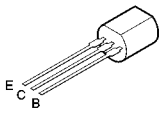
B1ABEC000005
B1GBCFJA0002
B1ADCF000001



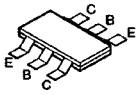
2SD2374PQAU



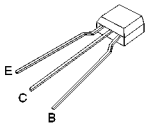
2SD592AQRSTA



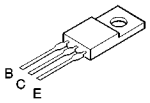
B1GFGCAA0001



B1AAGC000006
B1GACFJN0007
RVTDTC114EST
2SC331ARTA



B1BACJ000005



B1ABCF000079
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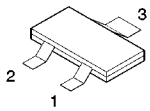
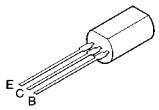
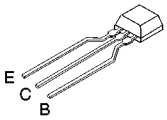
B1GDCFJJ0008



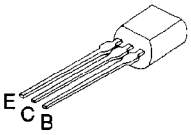
2SC3940ARA



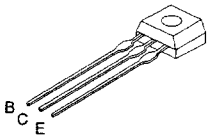
2SC3311ARTA



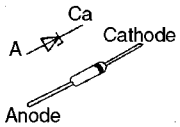
2SB621ARSTA



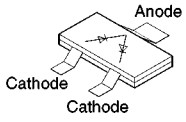
RVTDTA114EST



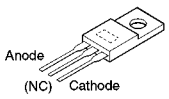
B0JAMD000005



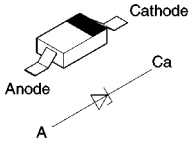
B0ADCJ000020



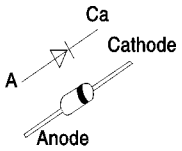
B0ZAZ0000052



MAZ80560ML
MAZ80750ML
MAZ80510LL



B0AACK000004



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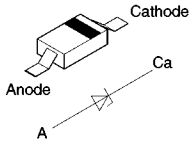

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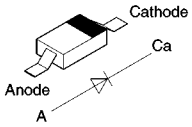

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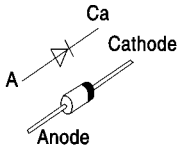
B0HAJM000005



B0BA6R200012
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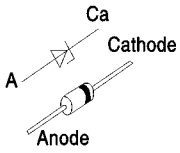
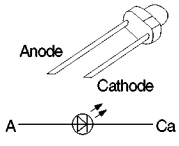
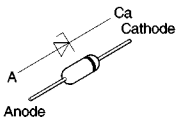


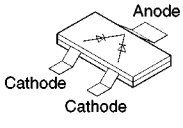
B3AAA0000487



1SR35400V

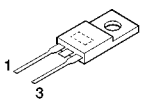


B0ADCJ000012

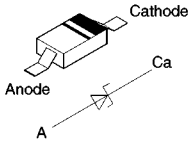


B0FFAR000001

B0HASM000005



B0JCCE000002



11 Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S941 : POWER switch
S961 : FM MODE switch
S962 : MEMORY switch
S963 : PRESET switch
S964 : TUNE DOWN switch
S965 : TUNE UP switch
S966 : SELECTOR switch
S969 : RDS/BAND switch

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

- **Importance safety notice :**

  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer´s specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.

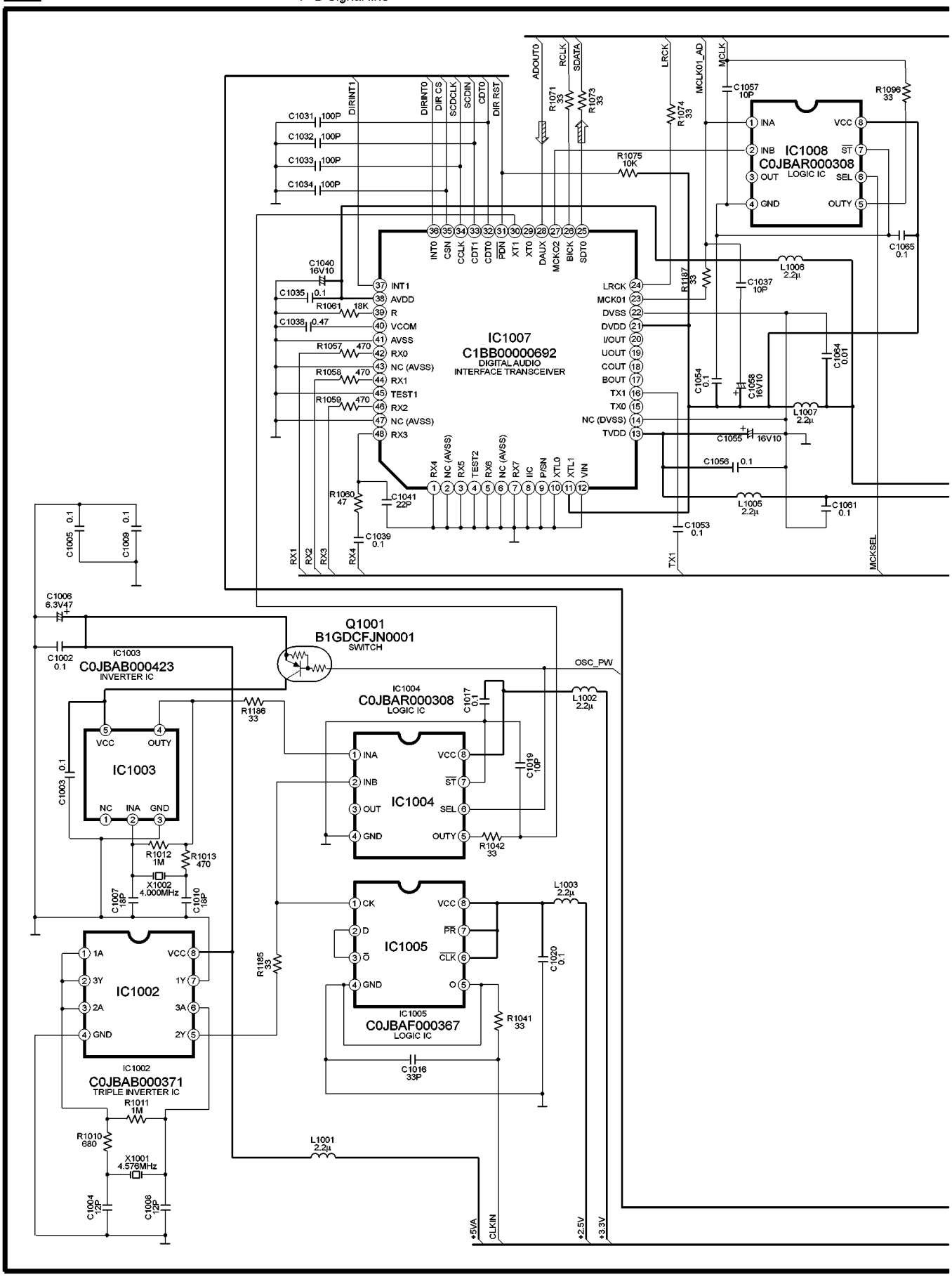
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

SCHEMATIC DIAGRAM-1

A DSP CIRCUIT

—— : +B Signal line

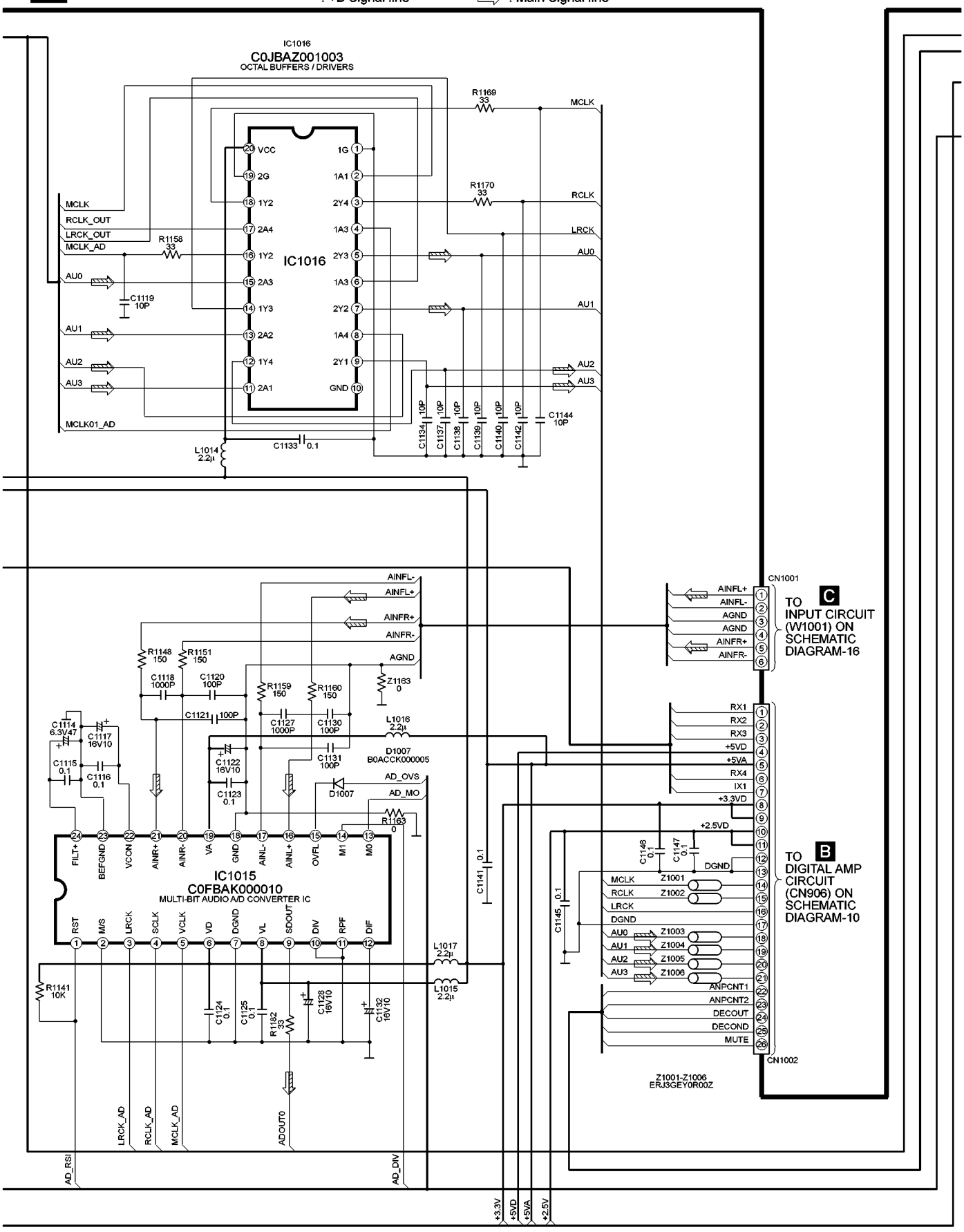


SCHEMATIC DIAGRAM-2

A DSP CIRCUIT

—— : +B Signal line

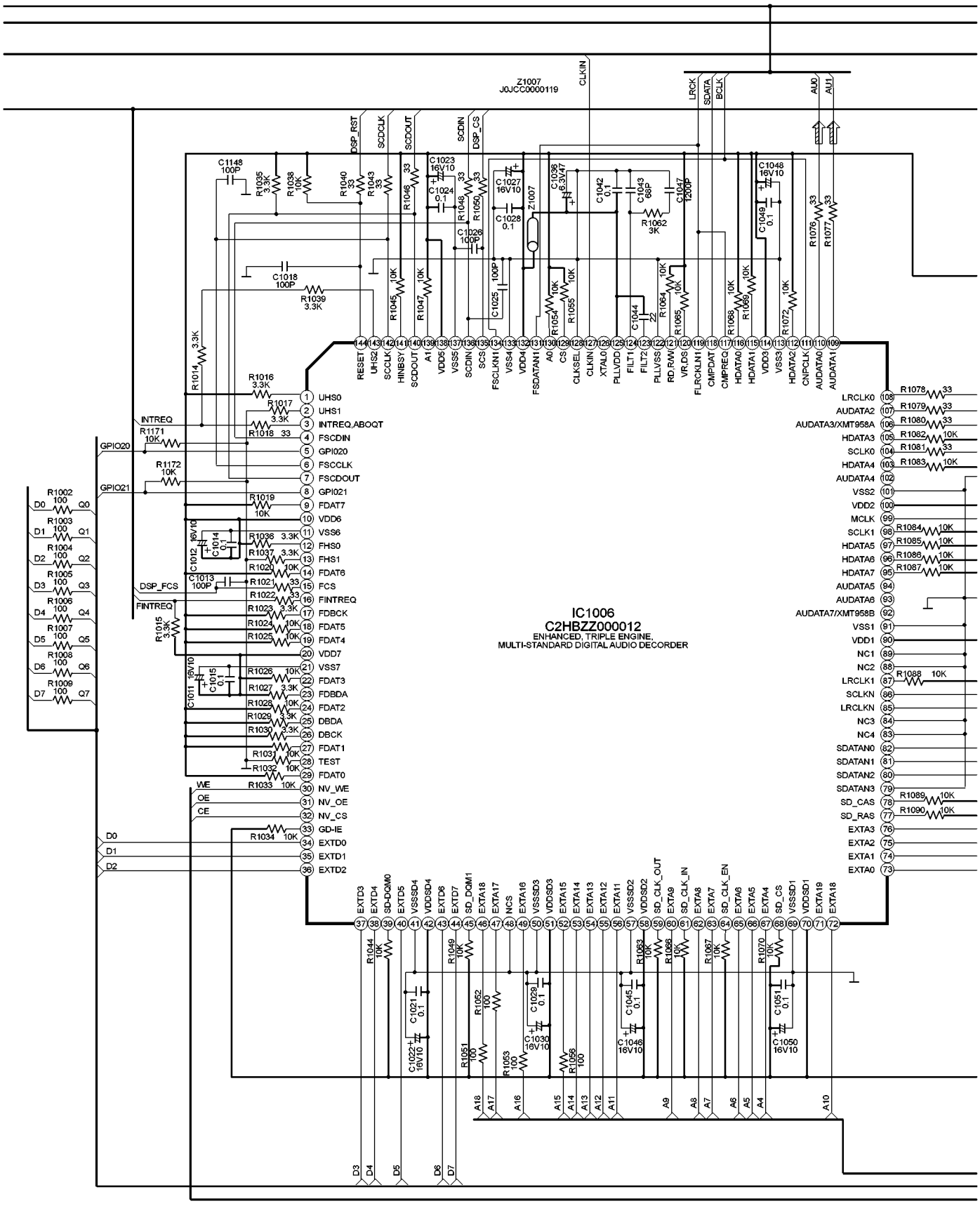
⇨ : Main Signal line



SCHEMATIC DIAGRAM-3

A DSP CIRCUIT

—— : +B Signal line

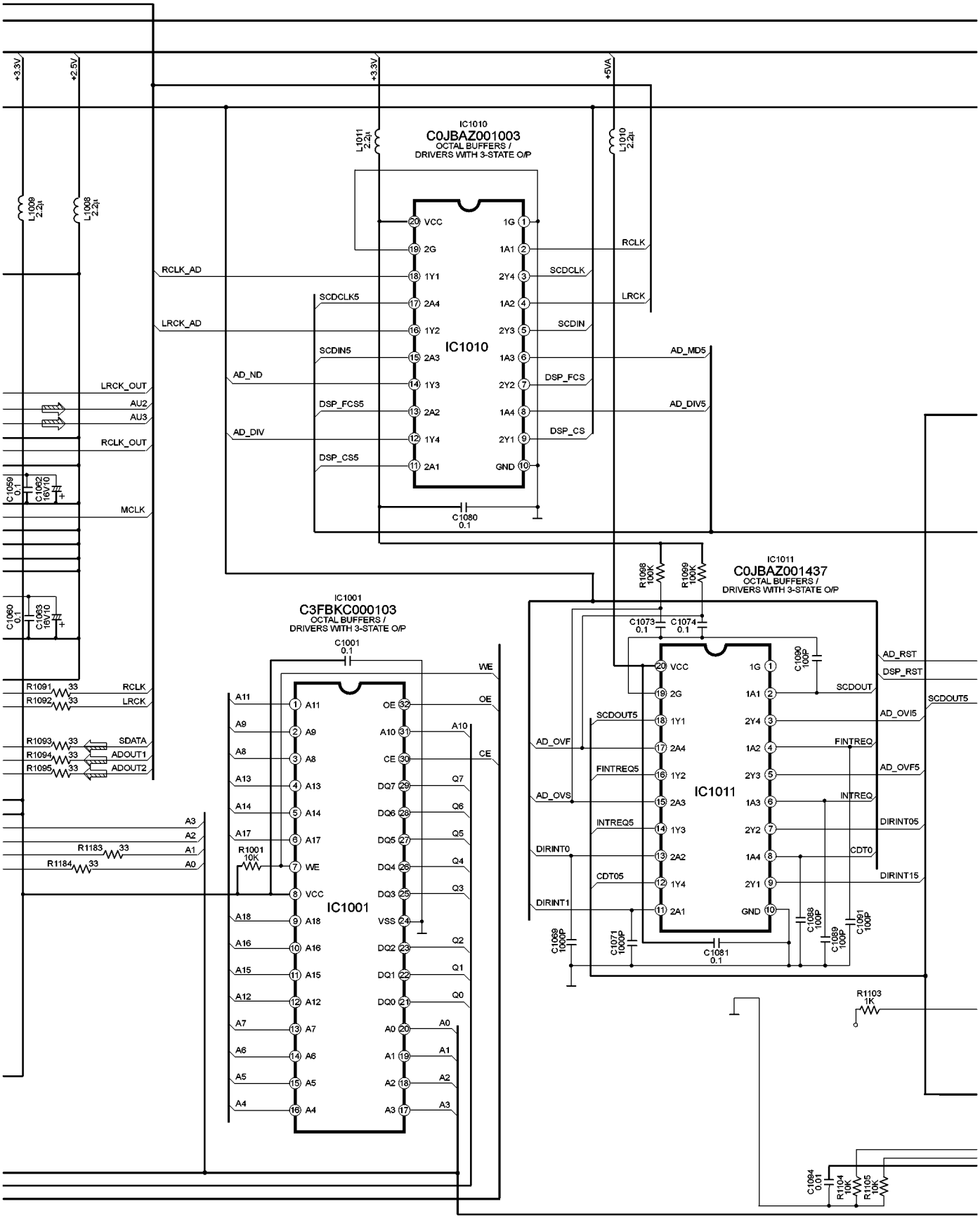


SCHEMATIC DIAGRAM-4

A DSP CIRCUIT

—— : +B Signal line

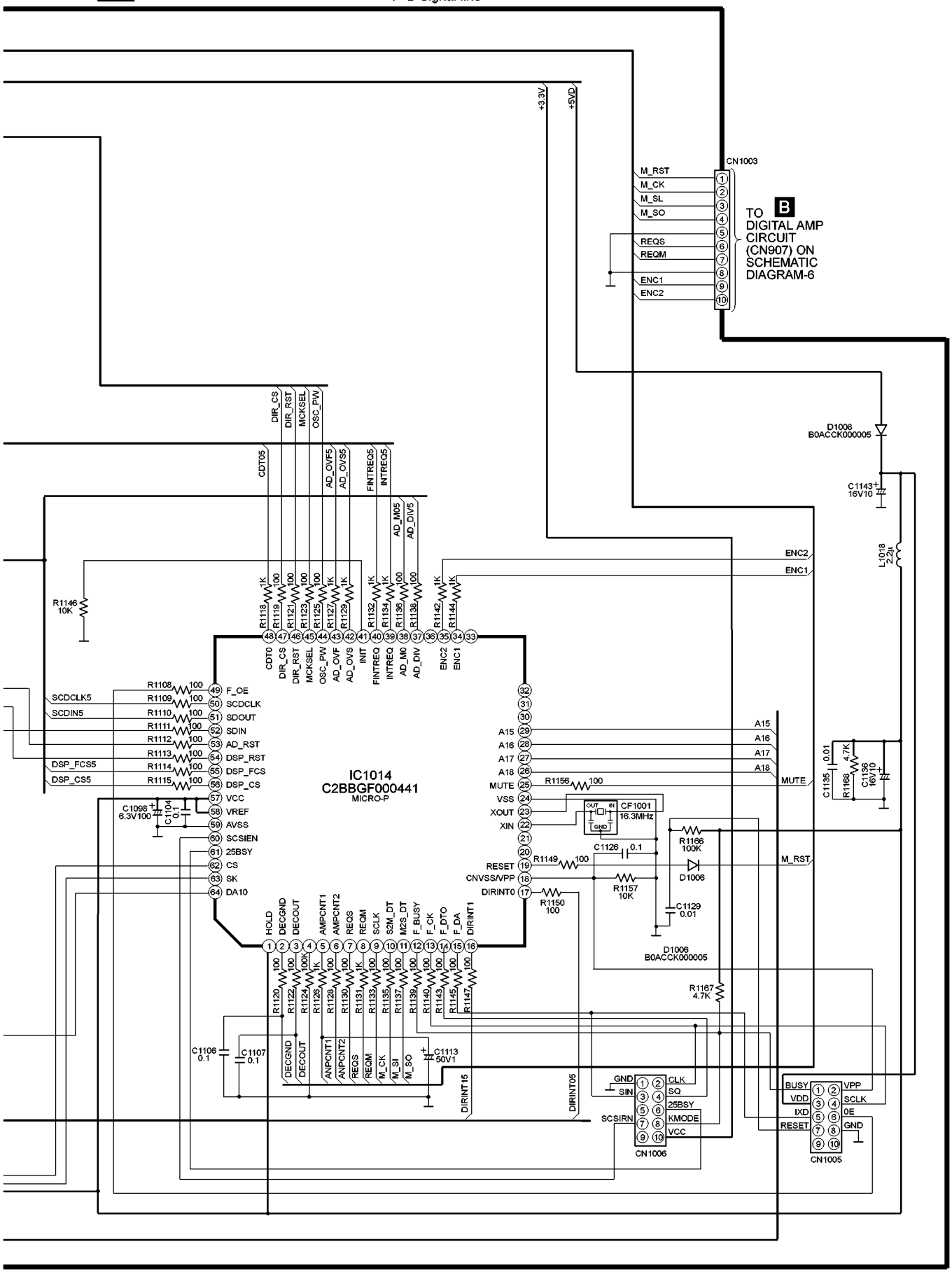
⇨ : Main Signal line



SCHEMATIC DIAGRAM-5

A DSP CIRCUIT

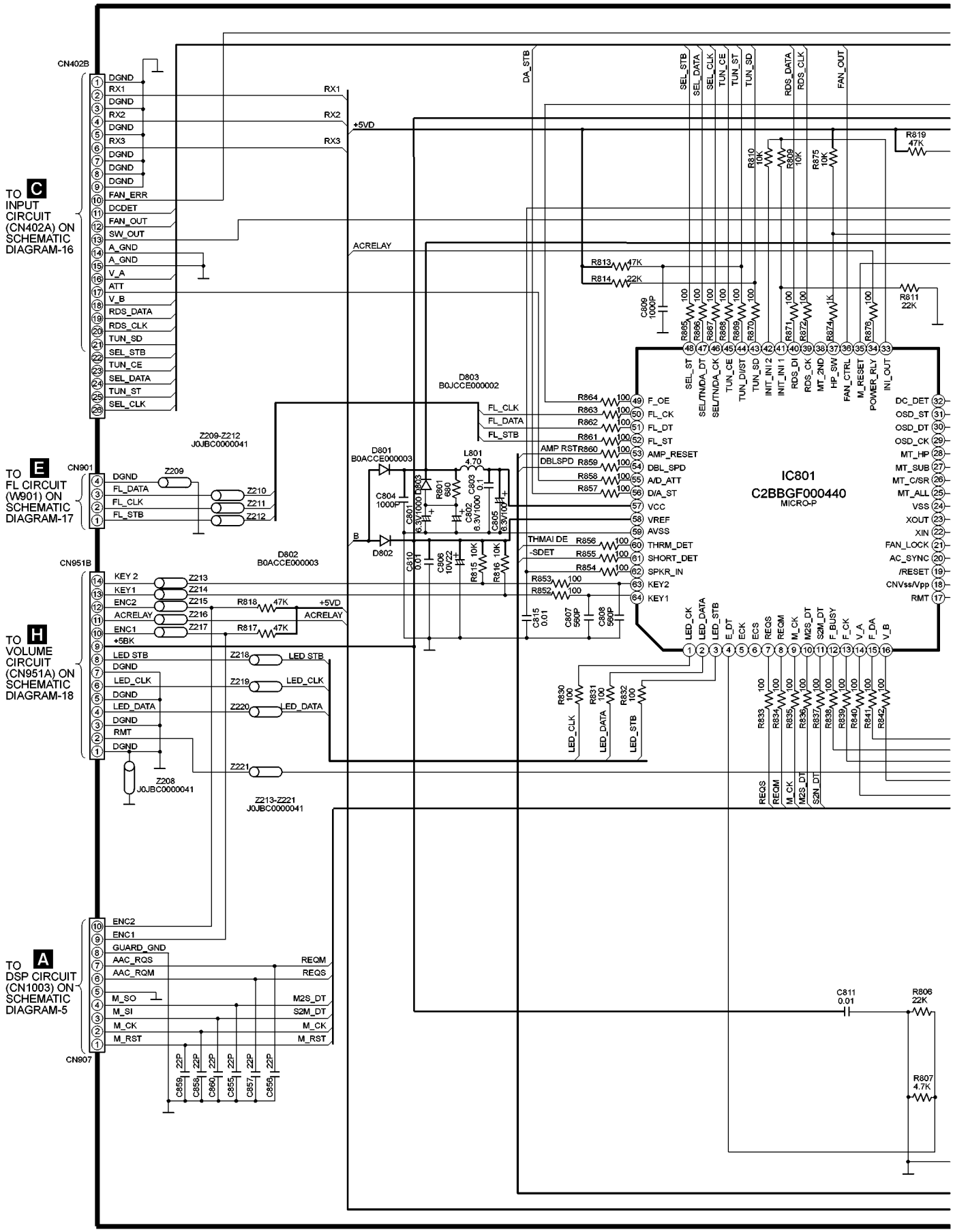
—— : +B Signal line



SCHEMATIC DIAGRAM-6

B DIGITAL AMP CIRCUIT

—— : +B Signal line

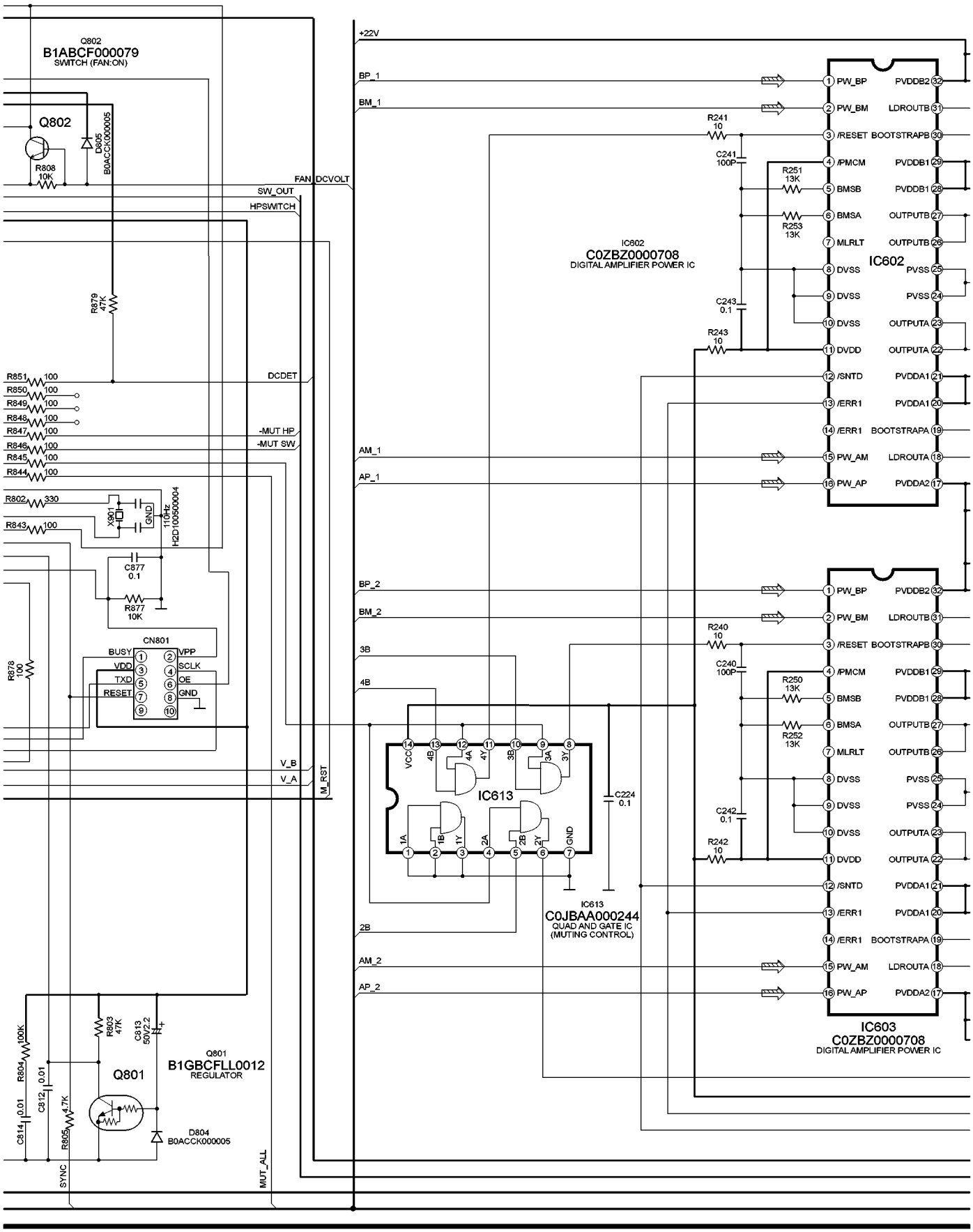


SCHEMATIC DIAGRAM-7

B DIGITAL AMP CIRCUIT

—— : +B Signal line

⇨ : Main Signal line

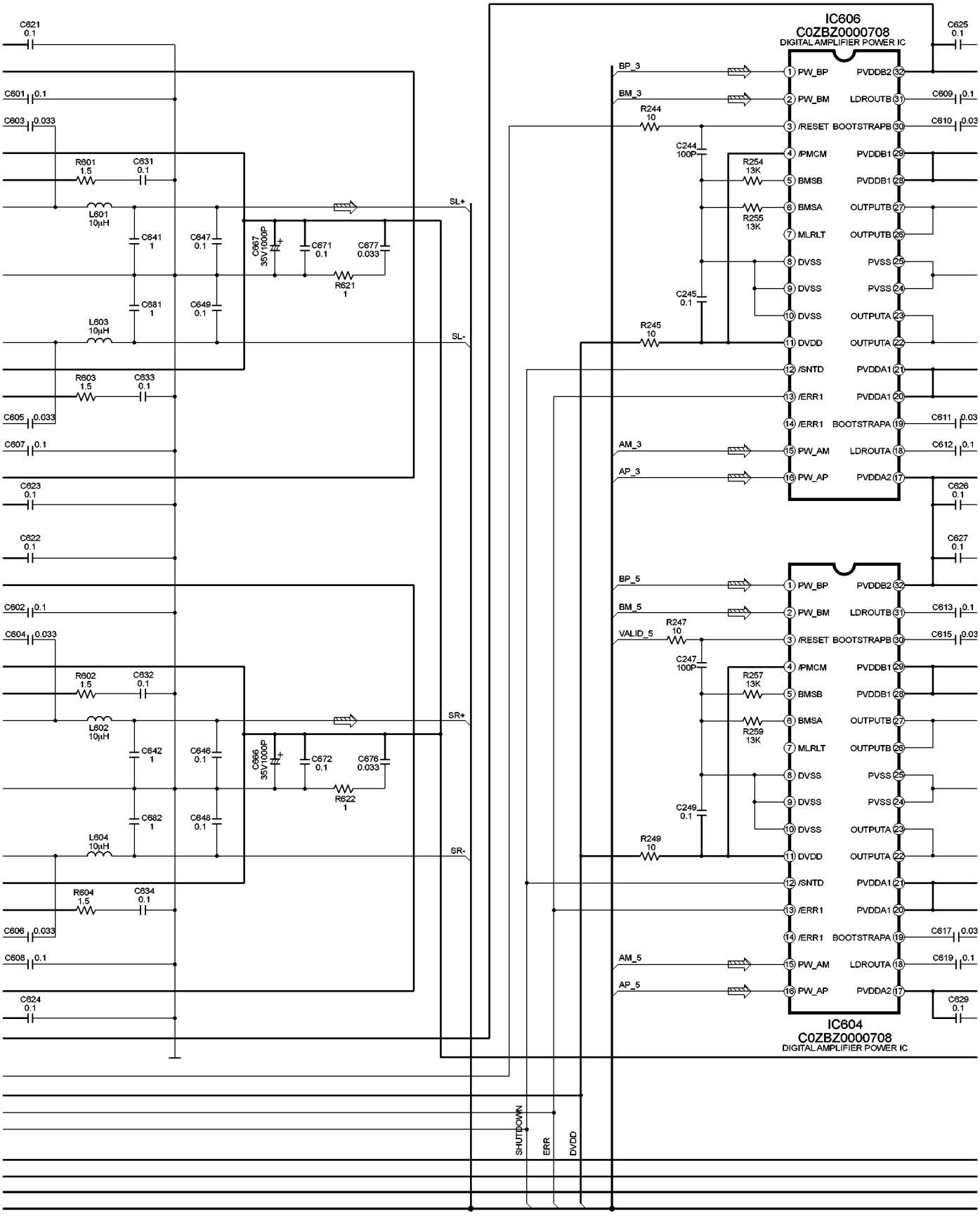


SCHEMATIC DIAGRAM-8

B DIGITAL AMP CIRCUIT

—— : +B Signal line

⇨ : Main Signal line

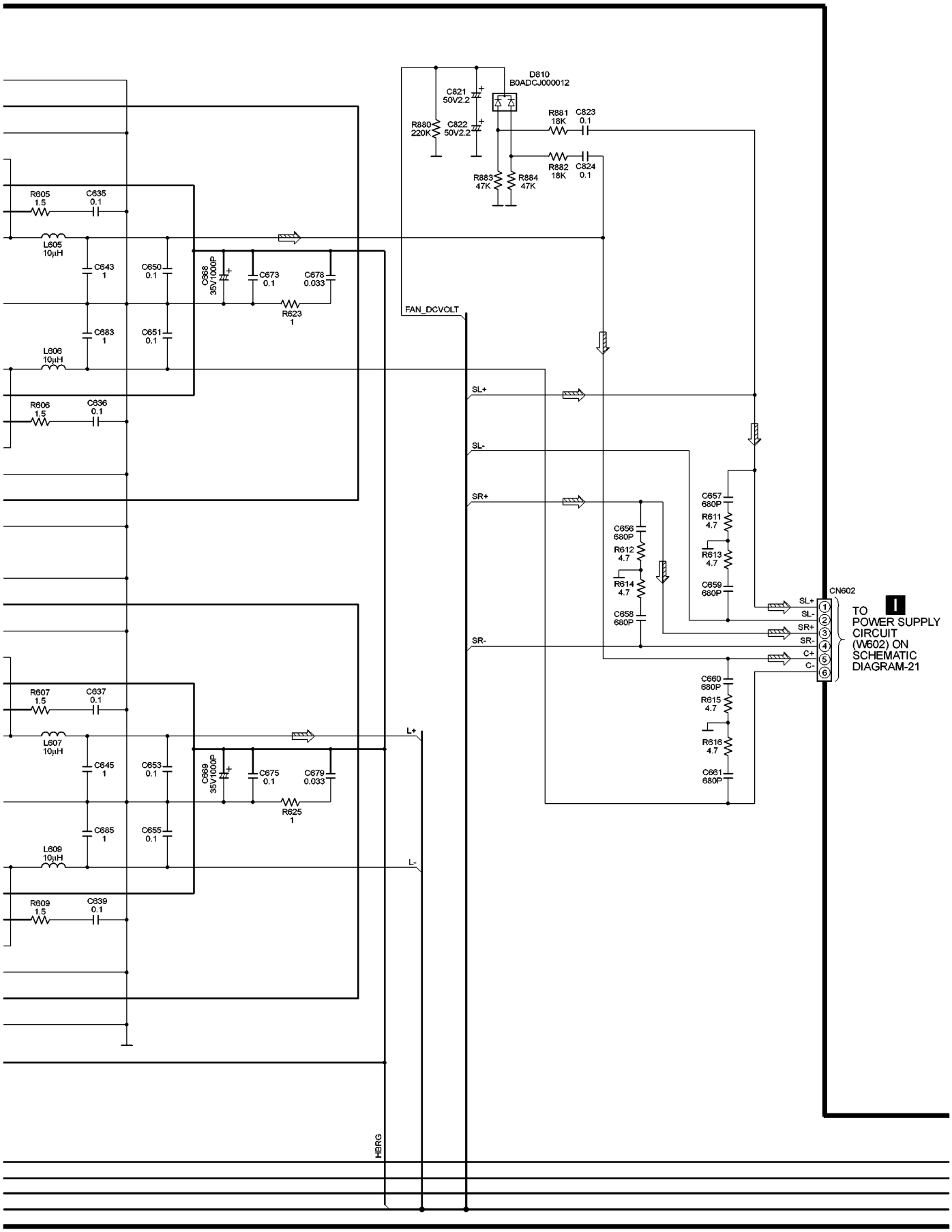


SCHEMATIC DIAGRAM-9

B DIGITAL AMP CIRCUIT

—— : +B Signal line

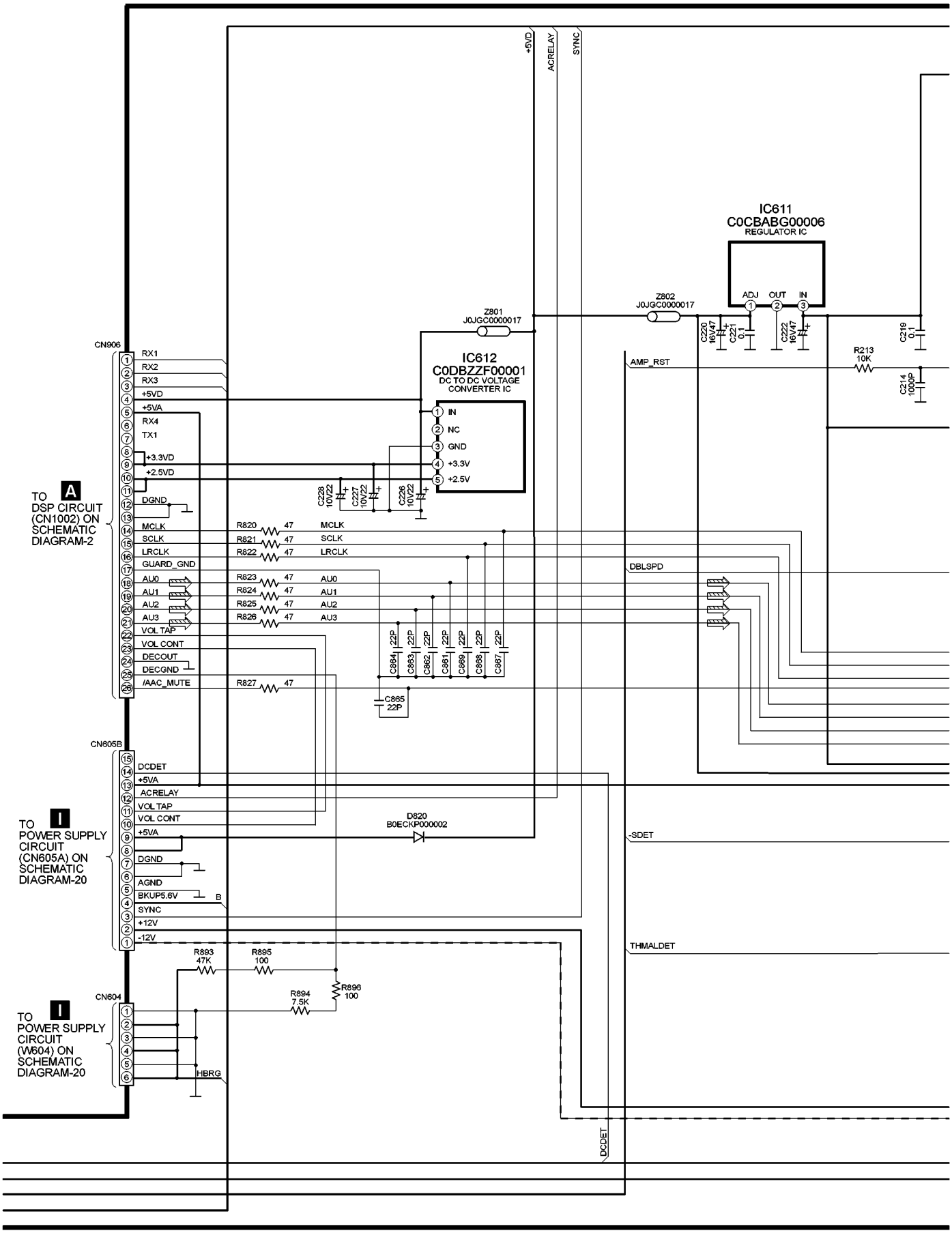
⇨ : Main Signal line



SCHEMATIC DIAGRAM-10

B DIGITAL AMP CIRCUIT

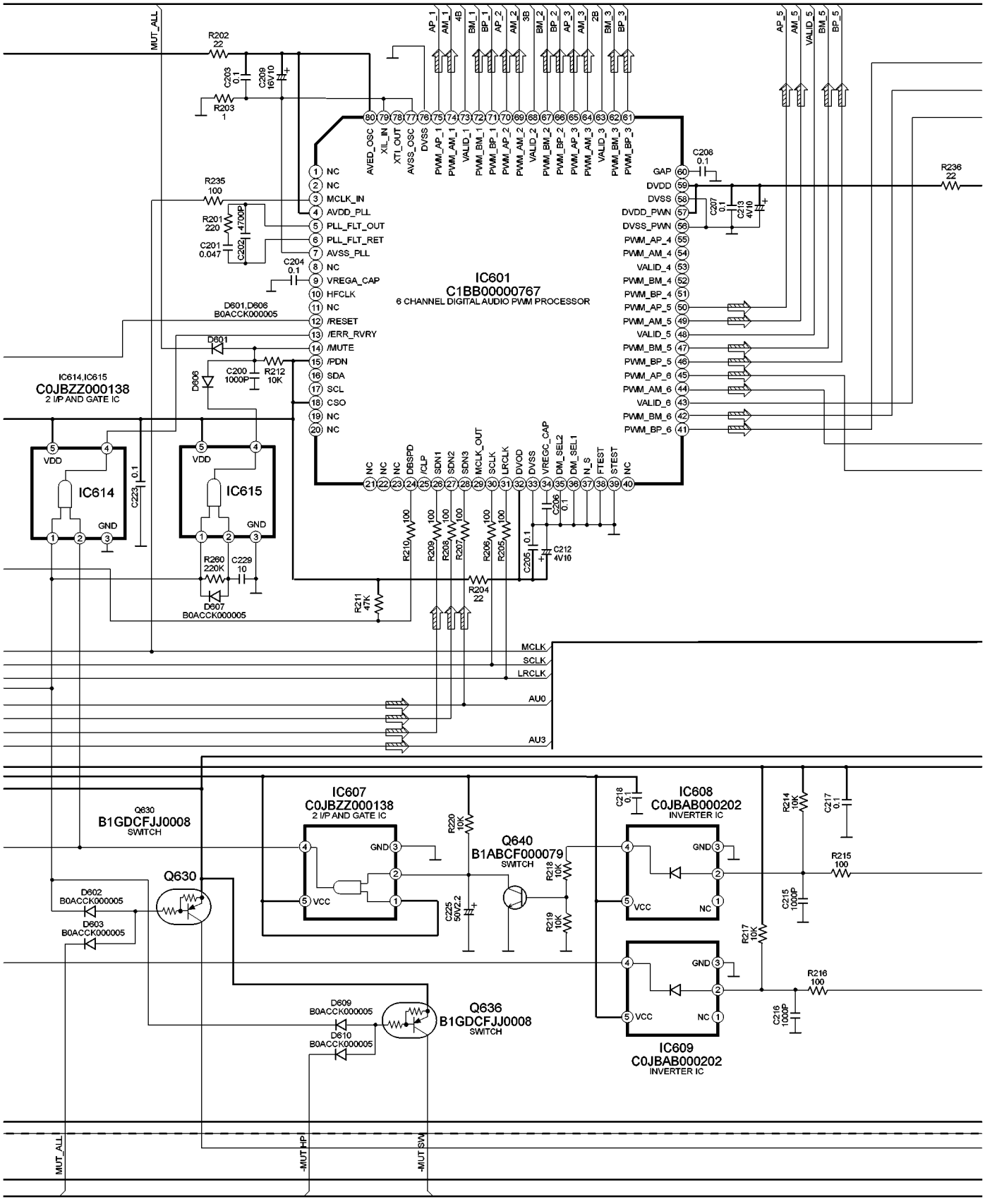
– – : -B Signal line
—— : +B Signal line
⇨ : Main Signal line



SCHEMATIC DIAGRAM-11

B DIGITAL AMP CIRCUIT

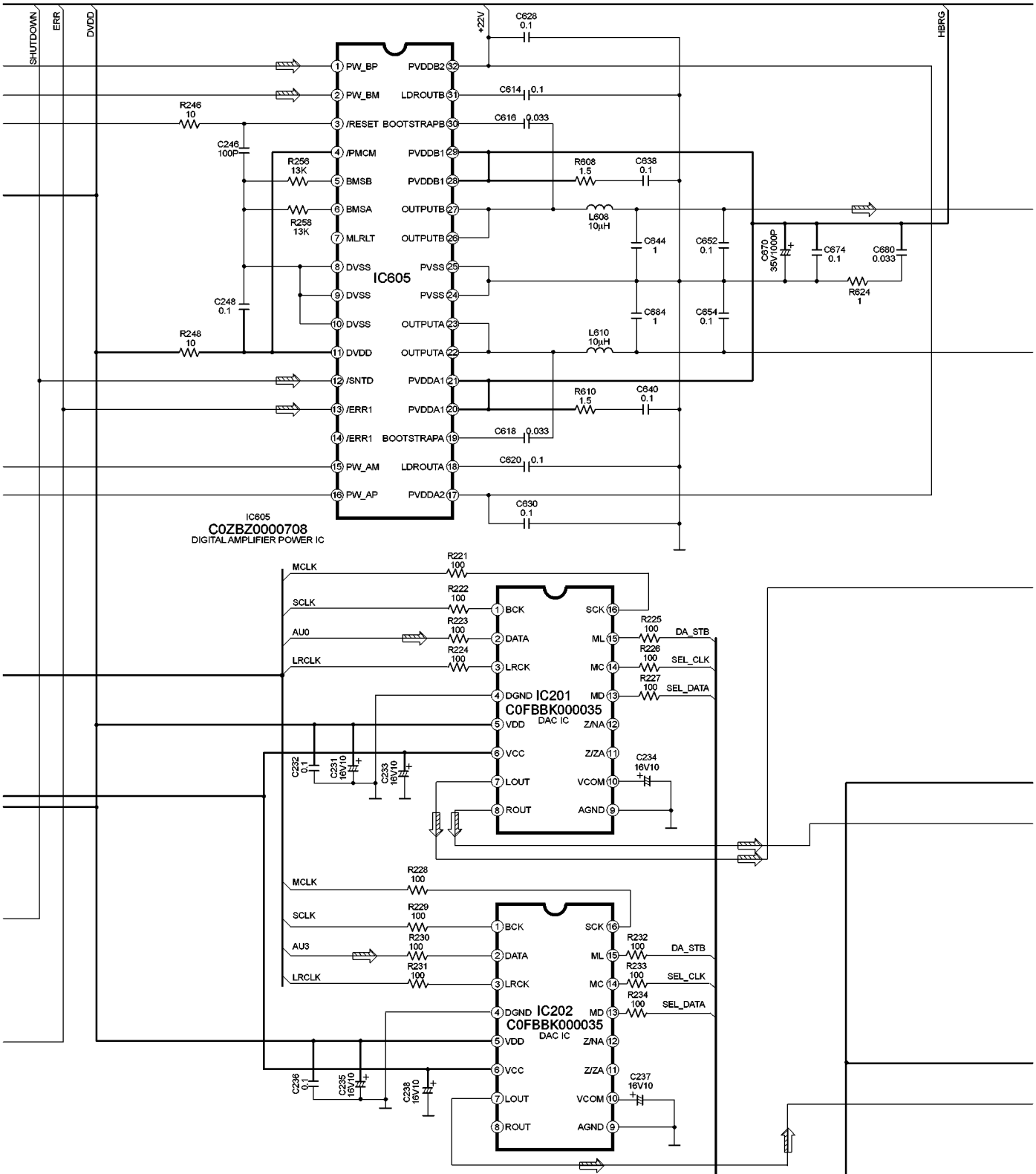
– – : -B Signal line
—— : +B Signal line
⇨ : Main Signal line



SCHEMATIC DIAGRAM-12

B DIGITAL AMP CIRCUIT

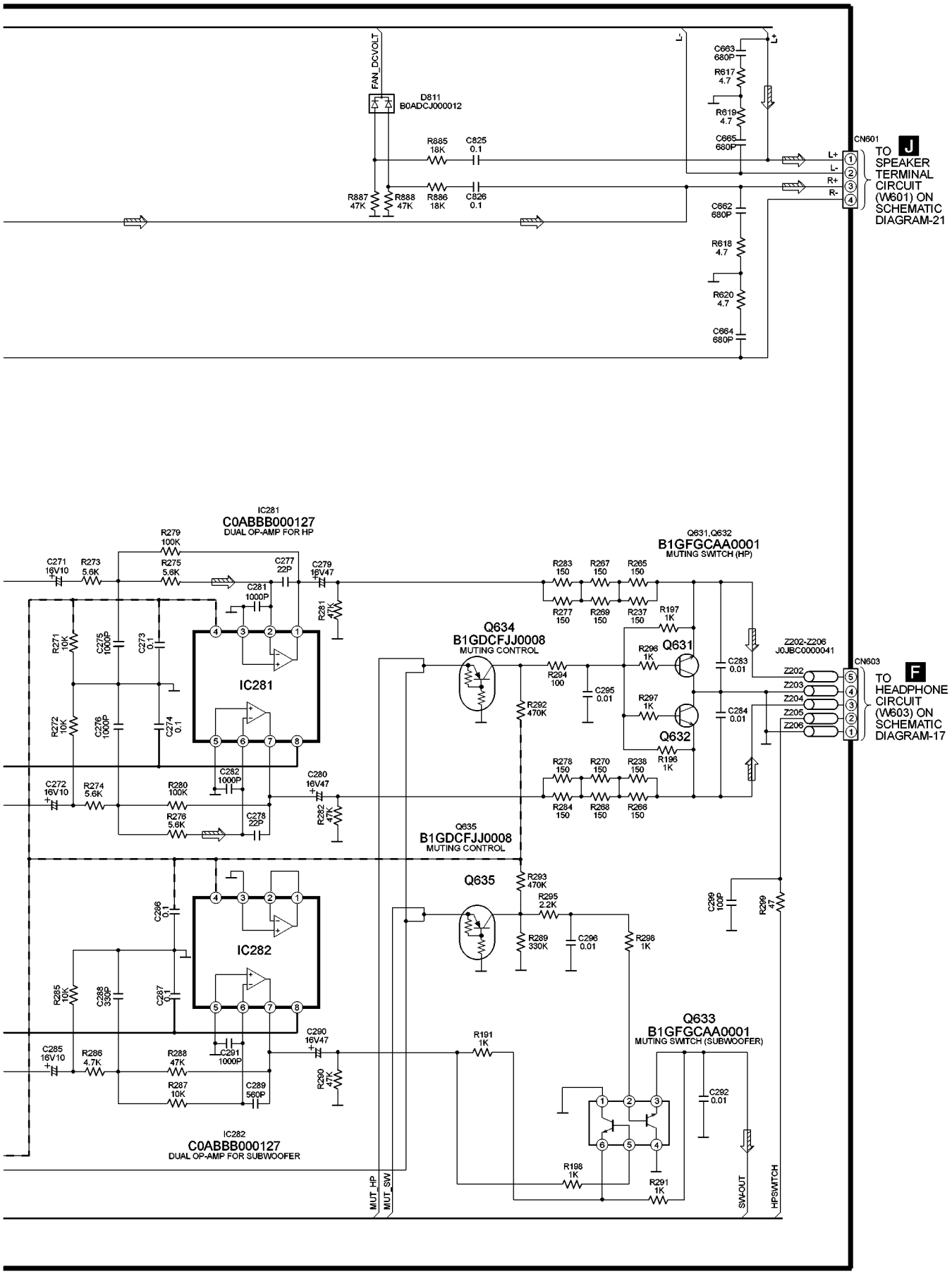
– – : -B Signal line
—— : +B Signal line
⇨ : Main Signal line



SCHEMATIC DIAGRAM-13

B DIGITAL AMP CIRCUIT

– – : -B Signal line
—— : +B Signal line
⇨ : Main Signal line

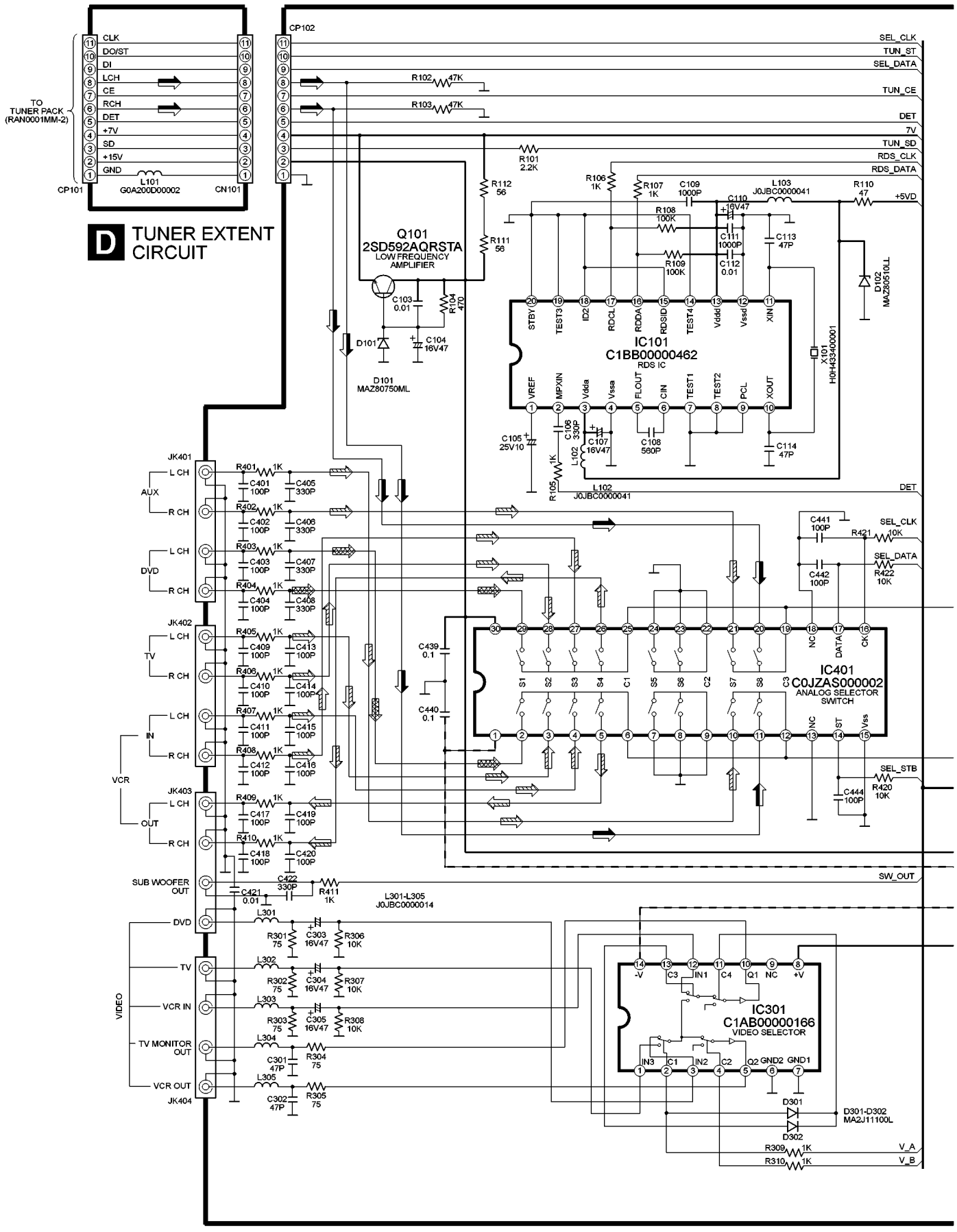


SCHEMATIC DIAGRAM-14

C INPUT CIRCUIT

– – : -B Signal line
—— : +B Signal line
: AM/FM Signal line
: Main Signal line
: DVD(AUDIO) Signal line

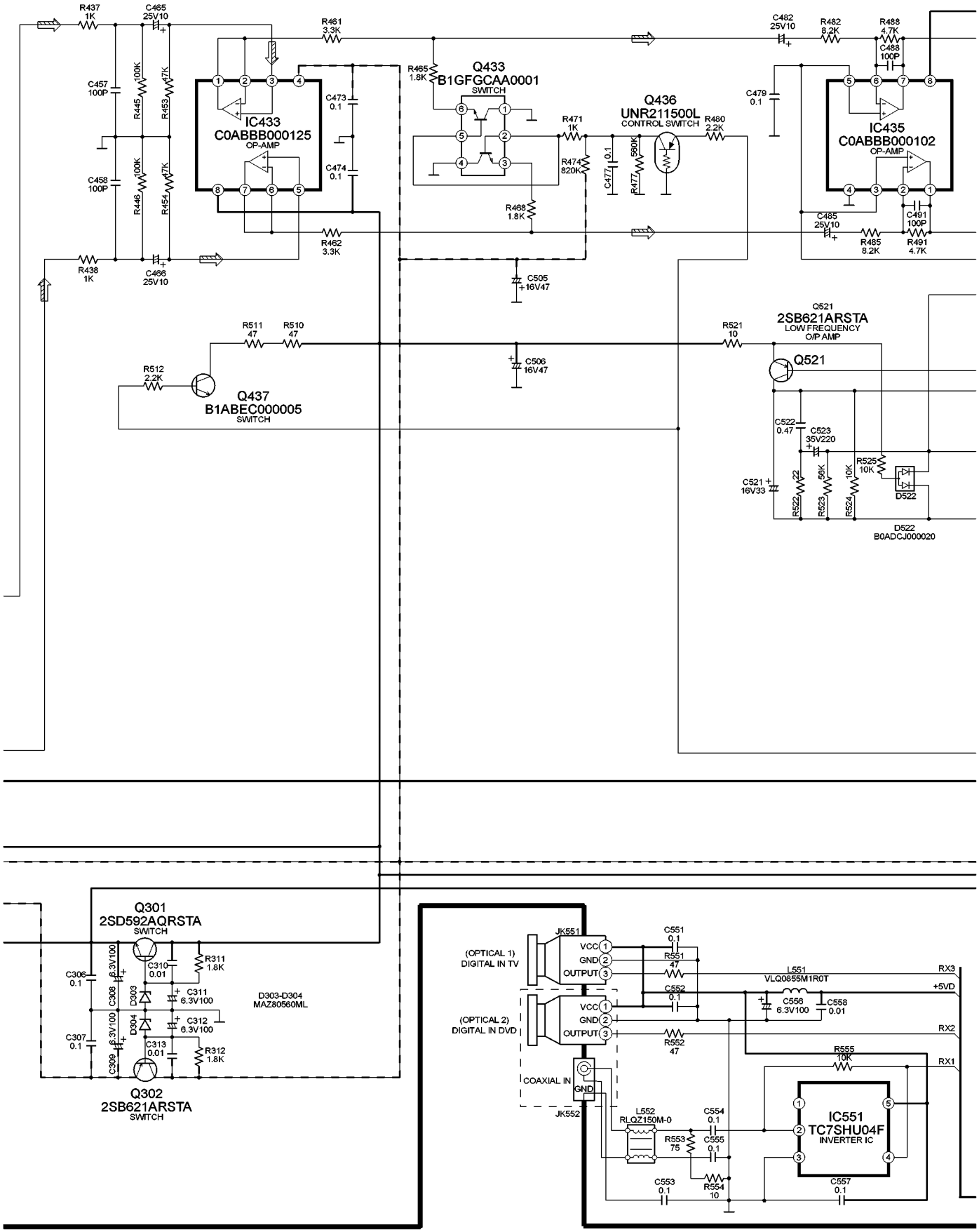
D TUNER EXTENT CIRCUIT



SCHEMATIC DIAGRAM-15

C INPUT CIRCUIT

– – : -B Signal line
—— : +B Signal line
⇨ : Main Signal line



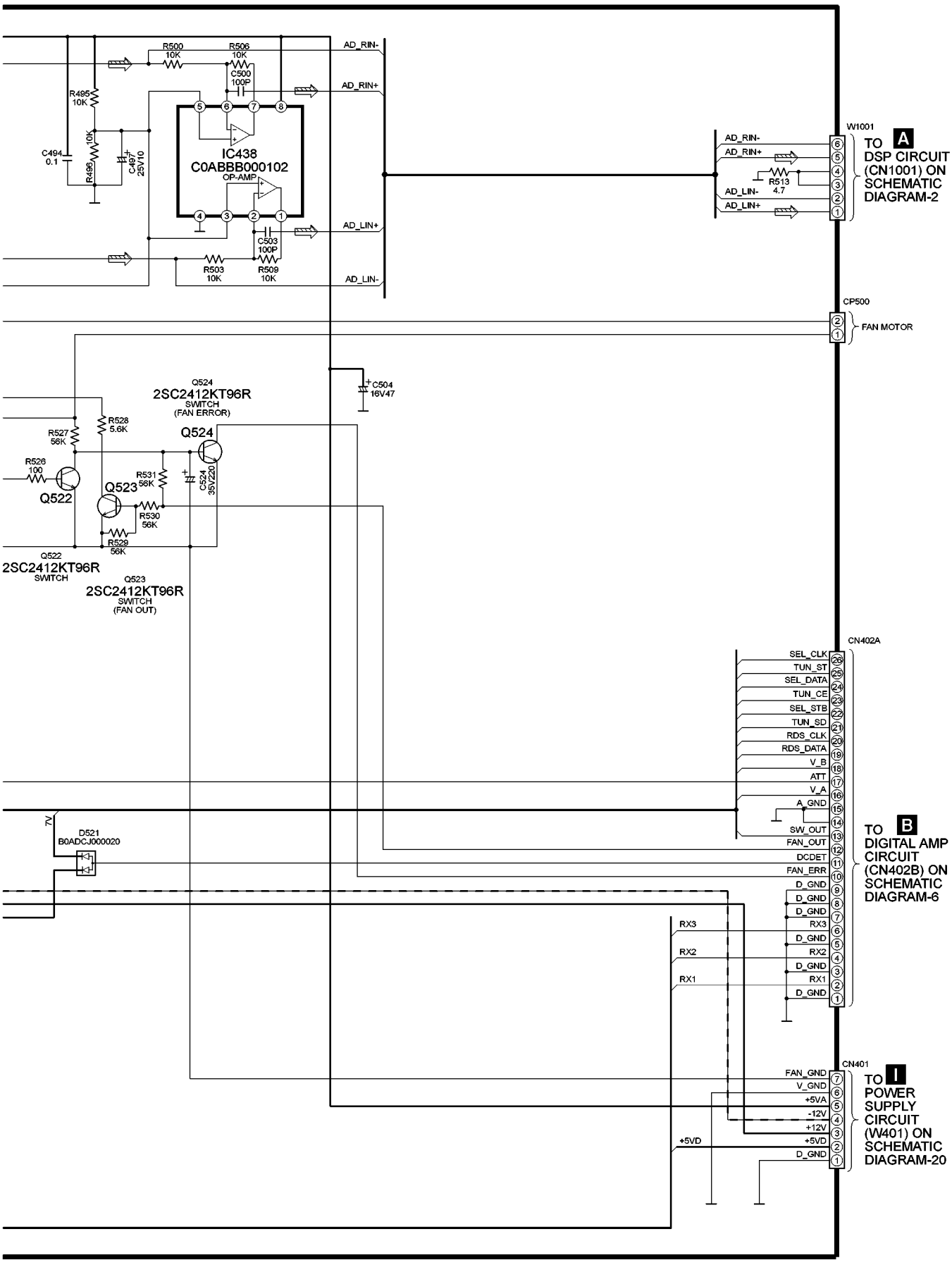
SCHEMATIC DIAGRAM-16

C INPUT CIRCUIT

– – : -B Signal line

—— : +B Signal line

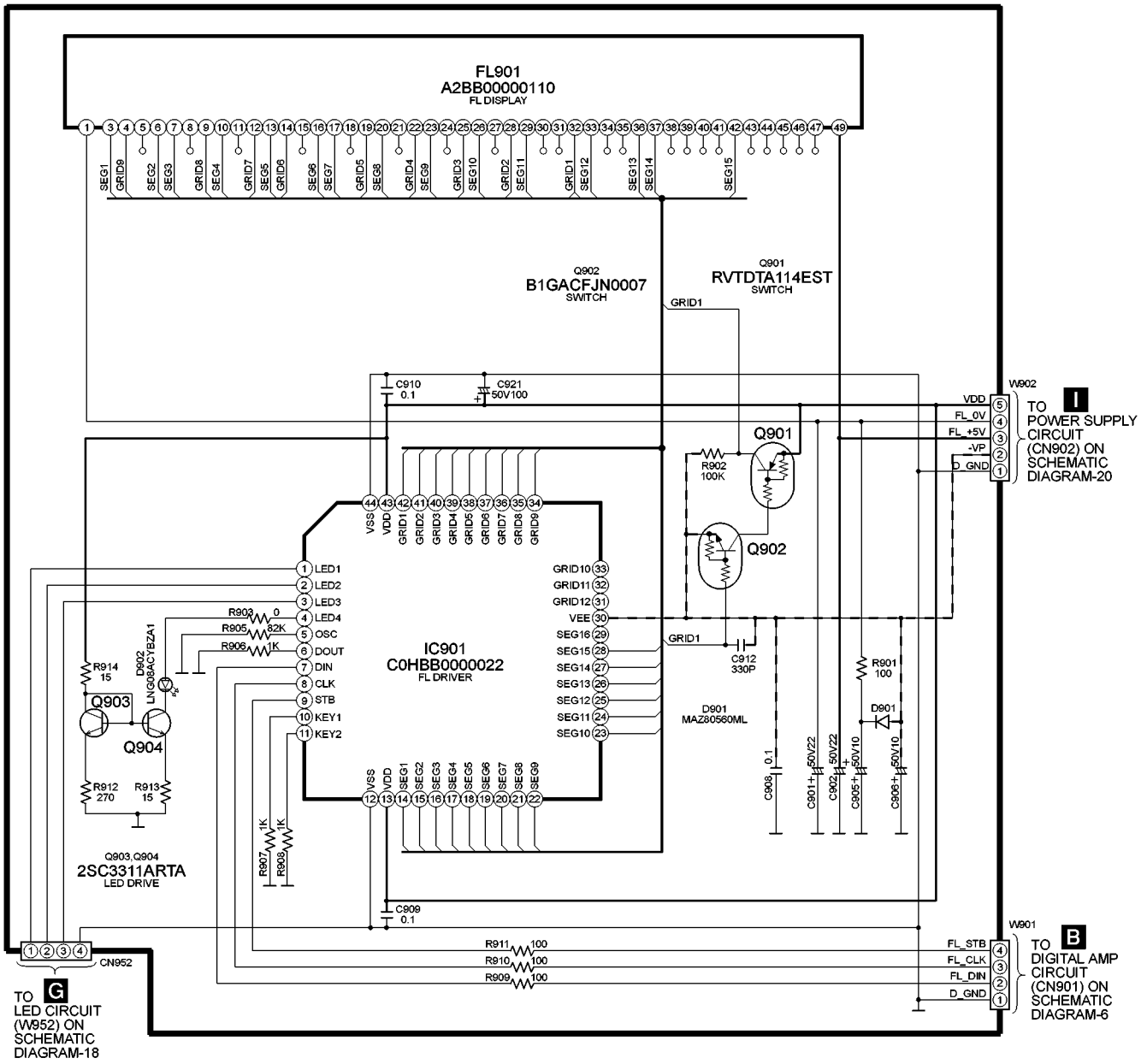
⇨ : Main Signal line



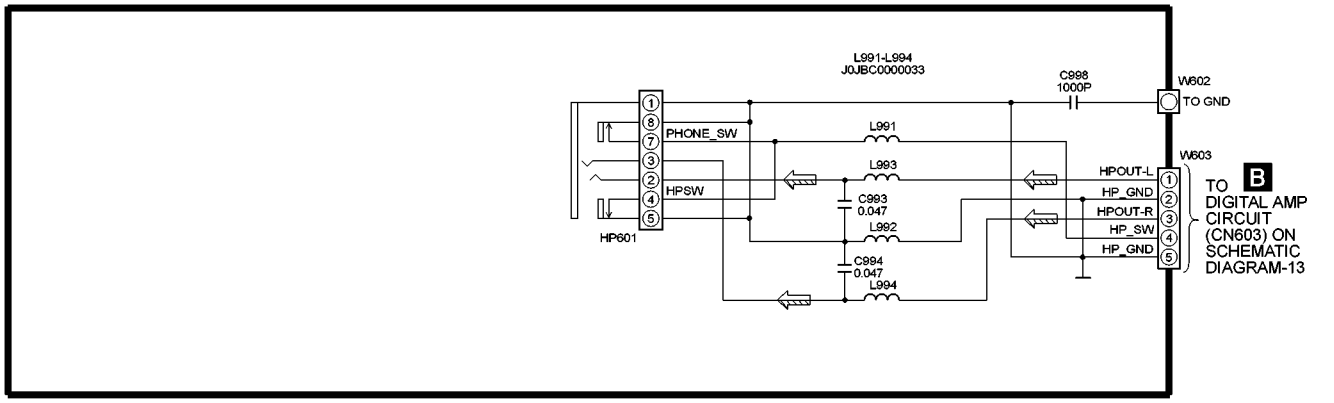
SCHEMATIC DIAGRAM-17

E FL CIRCUIT

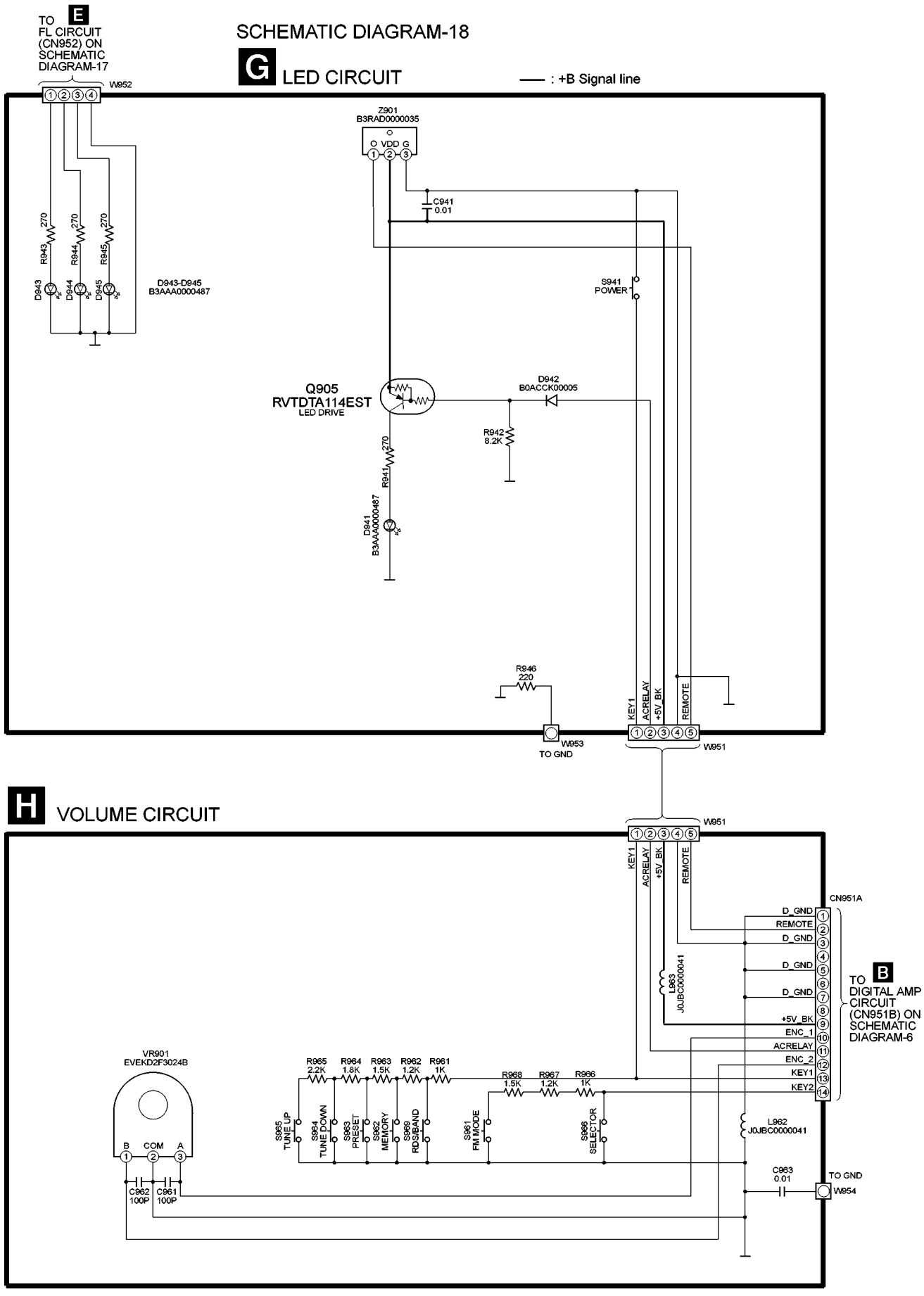
– – : -B Signal line
—— : +B Signal line
⇒ : Main Signal line



F HEAD PHONE CIRCUIT



SCHEMATIC DIAGRAM-18

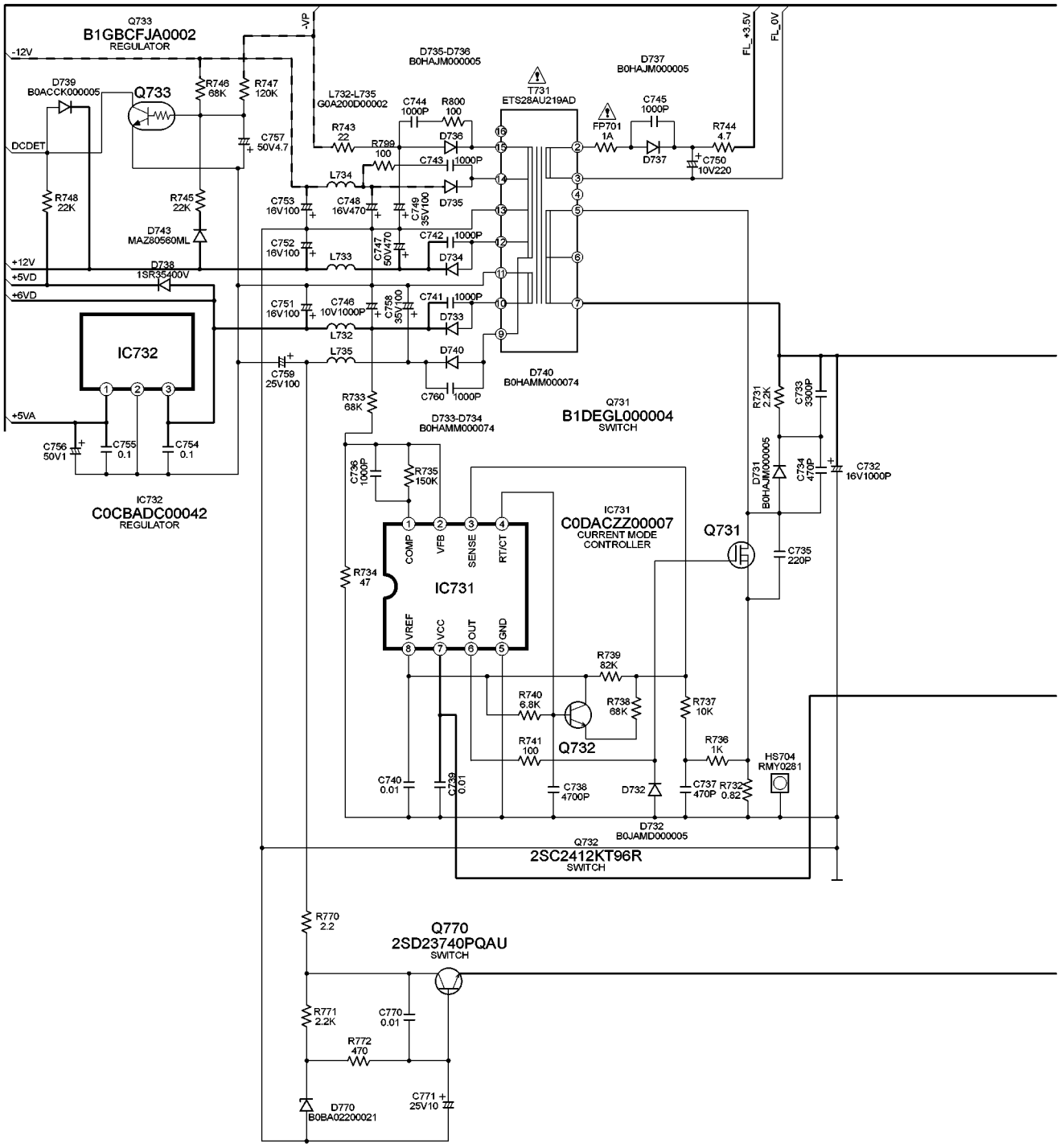


SCHEMATIC DIAGRAM-19

I POWER SUPPLY CIRCUIT

– – : -B Signal line

—— : +B Signal line

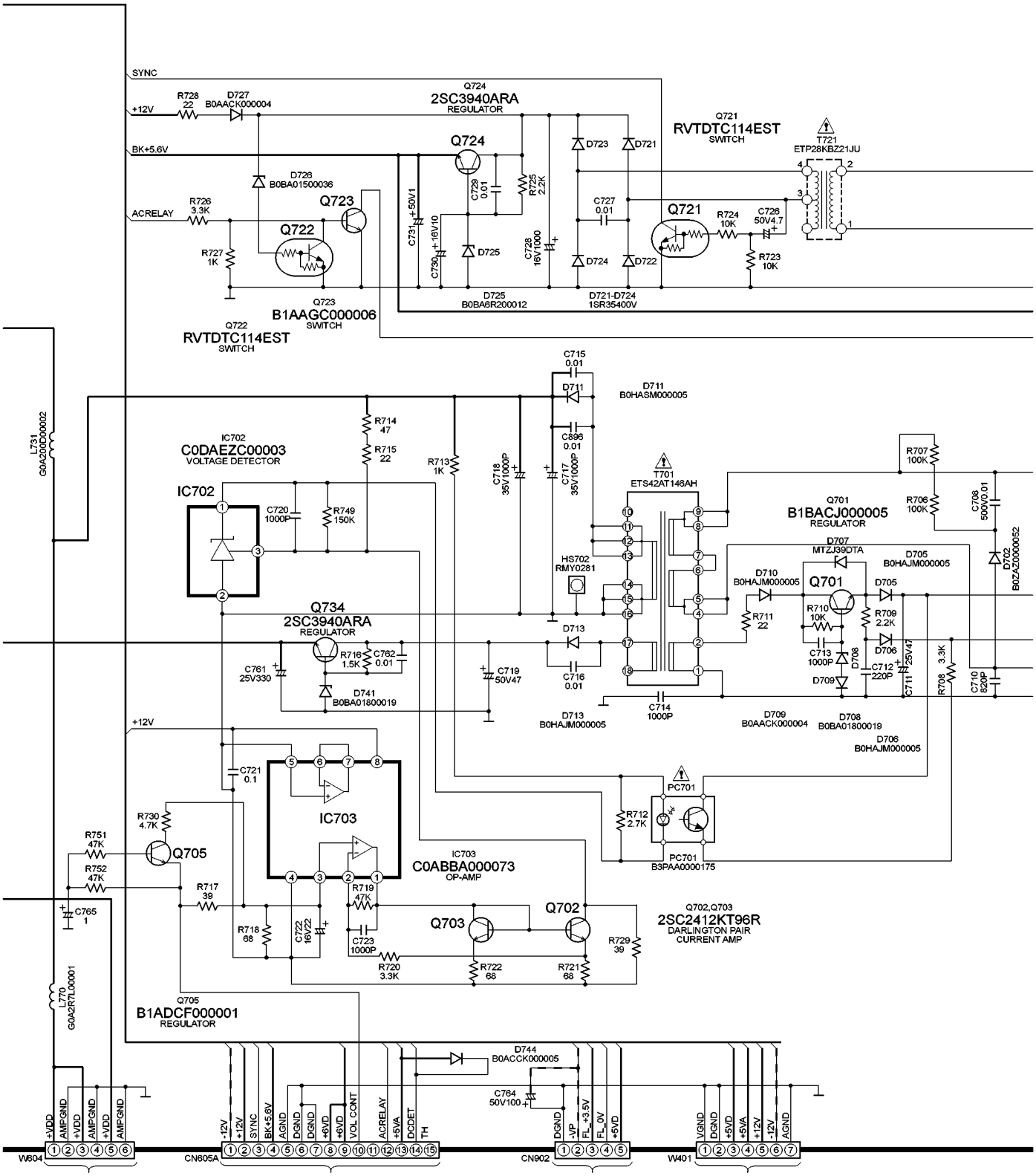


SCHEMATIC DIAGRAM-20

I POWER SUPPLY CIRCUIT

– – : -B Signal line

—— : +B Signal line

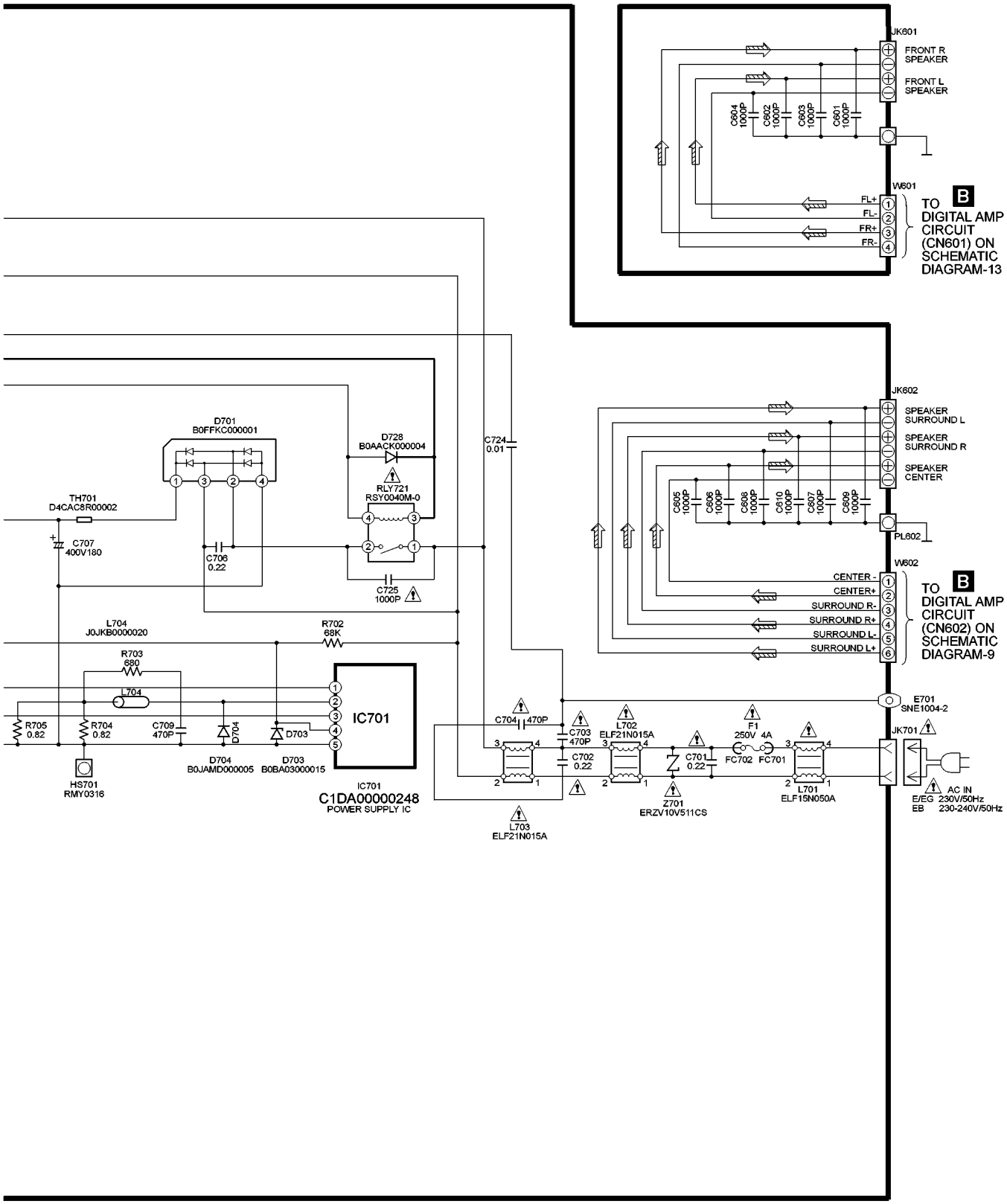


SCHEMATIC DIAGRAM-21

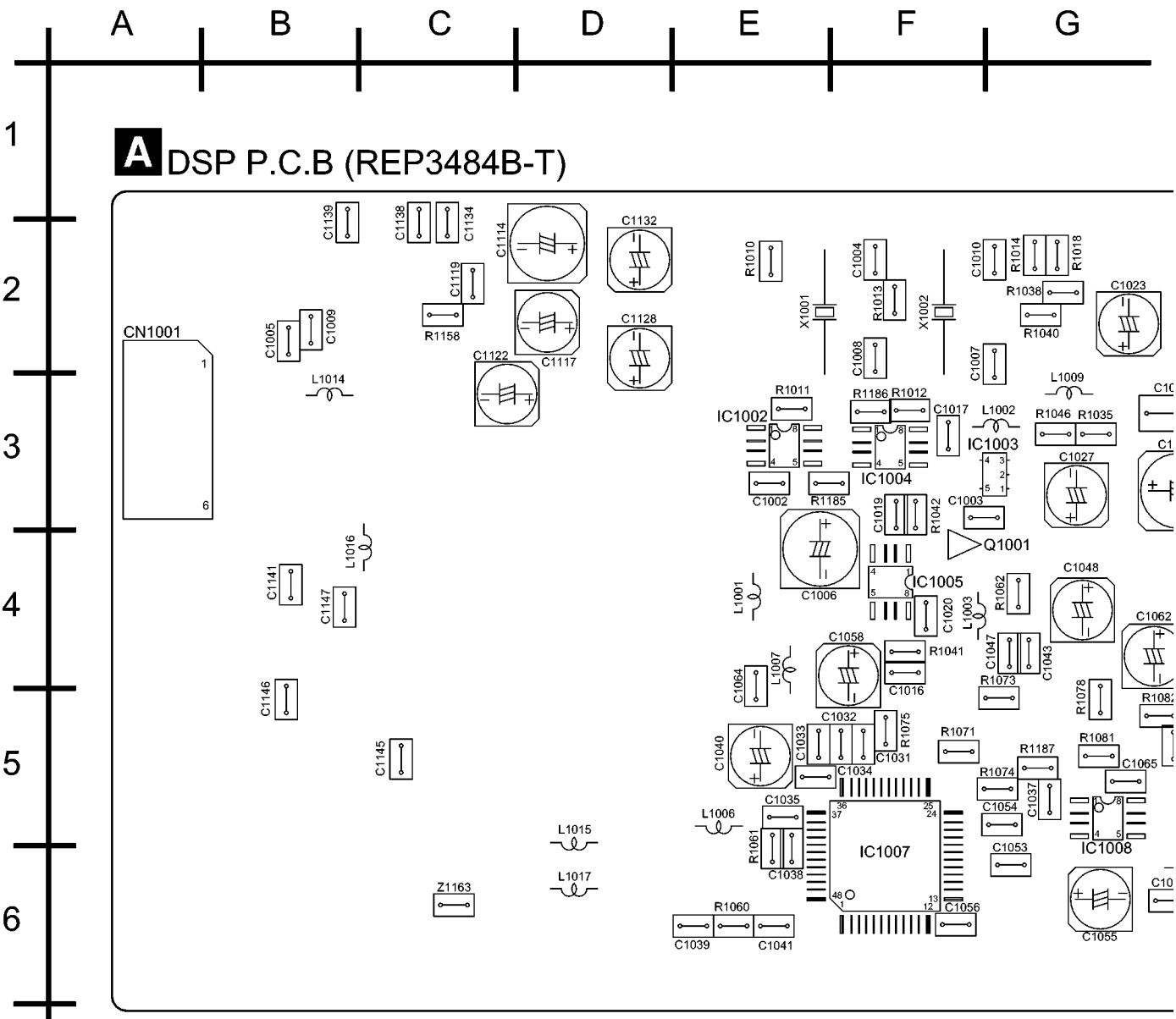
I POWER SUPPLY CIRCUIT

: Main Signal line
: +B Signal line

J SPEAKER TERMINAL CIRCUIT

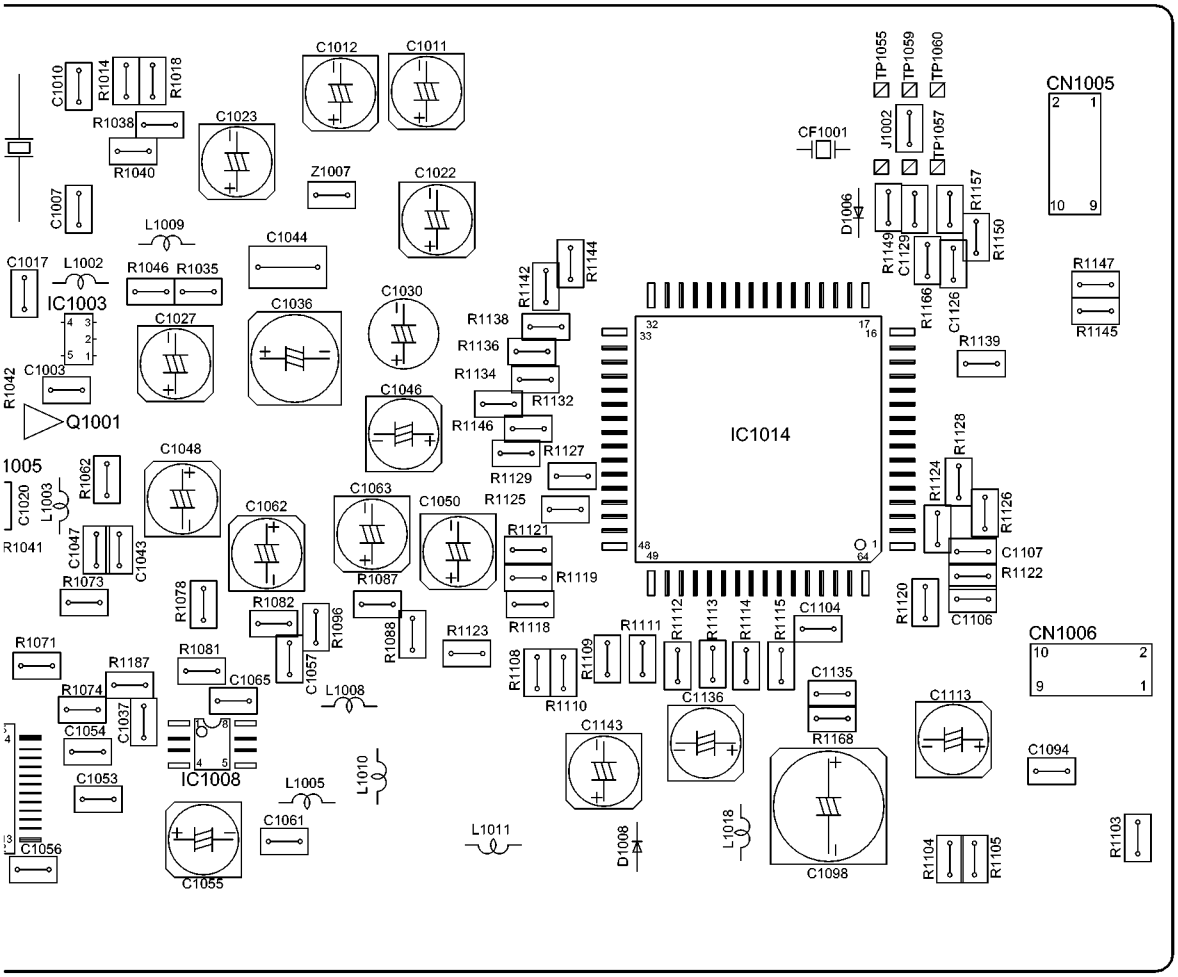


12 Printed Circuit Board Diagram

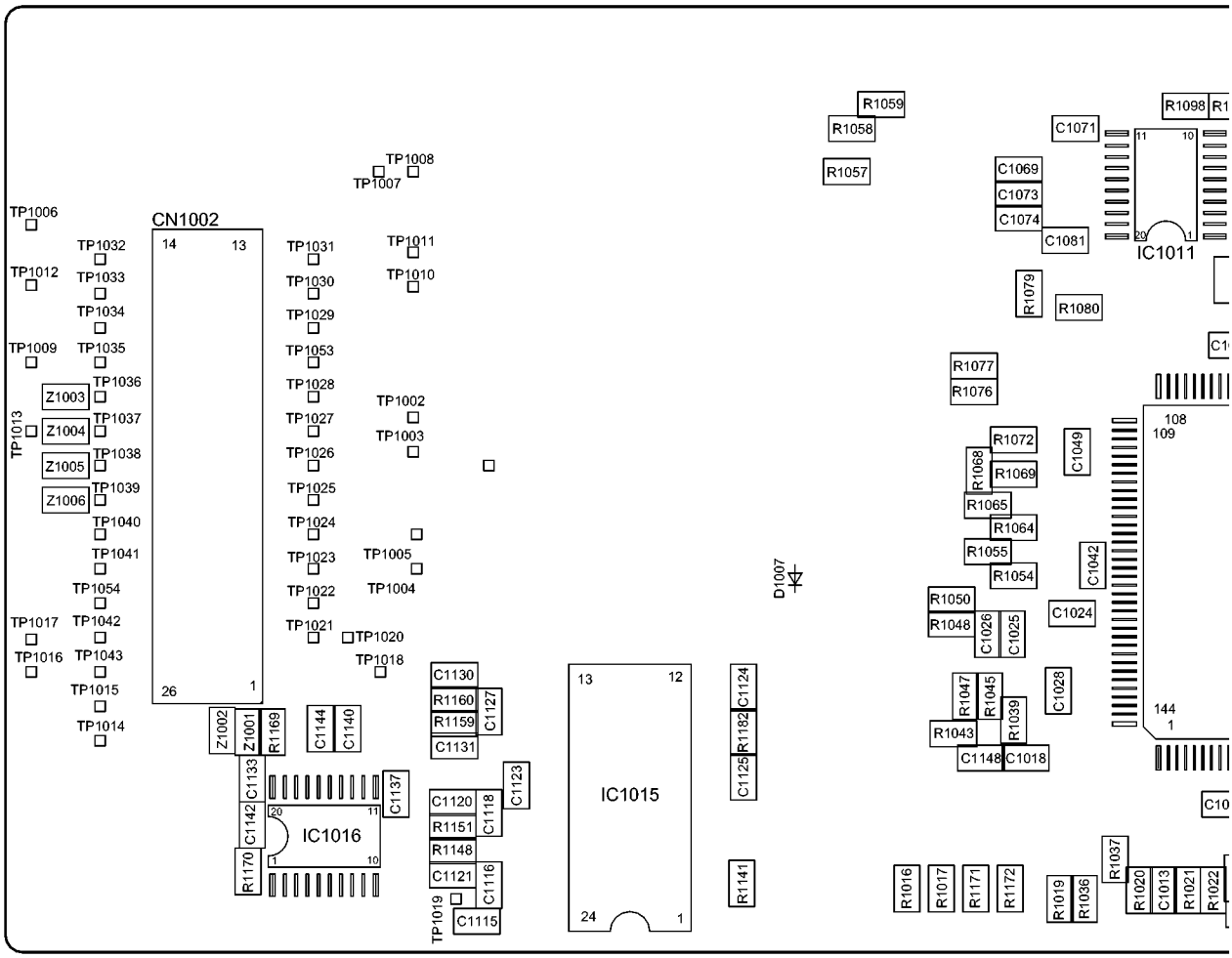


(SIDE A)

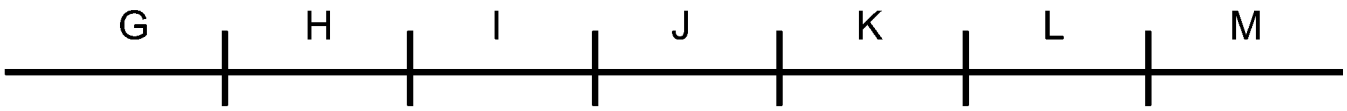
G H I J K L M

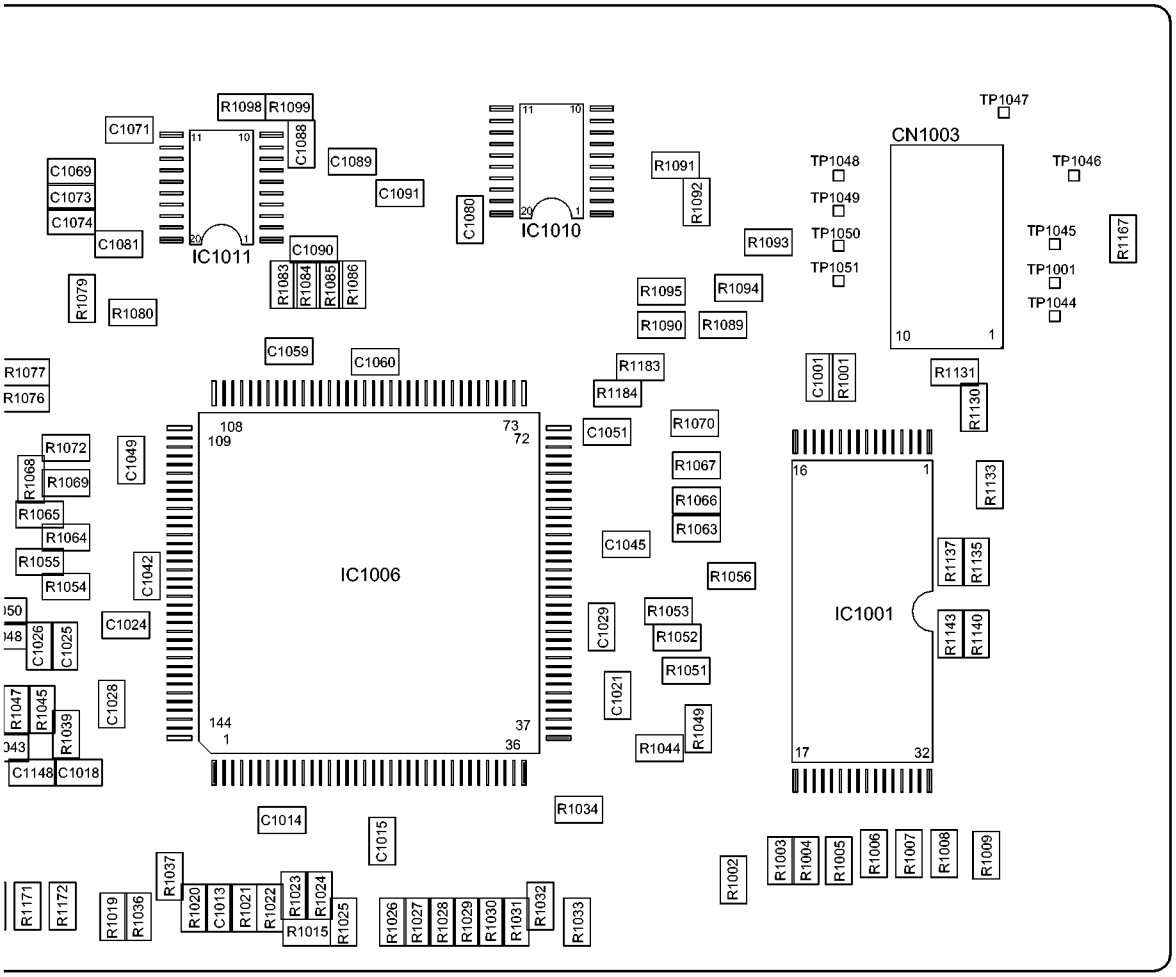

C1012
C1011
C1010
R1014
R1018
R1038
R1040
C1023
C1007
Z1007
C1022
L1009
C1044
C1017
L1002
R1046
R1035
IC1003
C1027
C1036
C1030
C1003
R1042
Q1001
C1046
C1048
1005
C1020
L1003
R1062
R1041
C1047
C1043
R1073
C1062
C1063
C1050
R1087
R1078
R1082
R1096
C1057
R1088
R1123
R1071
R1187
R1081
C1065
R1074
C1037
C1054
C1053
L1008
IC1008
L1005
L1010
C1061
C1056
C1055
L1011
D1008
L1018
C1098
C1143
C1136
C1135
R1168
C1113
C1094
R1103
R1104
R1105
R1142
R1144
R1138
R1136
R1134
R1132
R1146
R1127
R1129
R1125
R1121
R1119
R1118
R1123
R1108
R1110
R1109
R1111
R1112
R1113
R1114
R1115
C1104
IC1014
R1120
R1124
R1128
R1126
C1107
R1122
C1106
R1139
R1147
R1145
CF1001
TP1055
TP1059
TP1060
J1002
TP1057
D1006
R1149
C1129
R1157
R1150
R1166
C1126
CN1005
CN1006

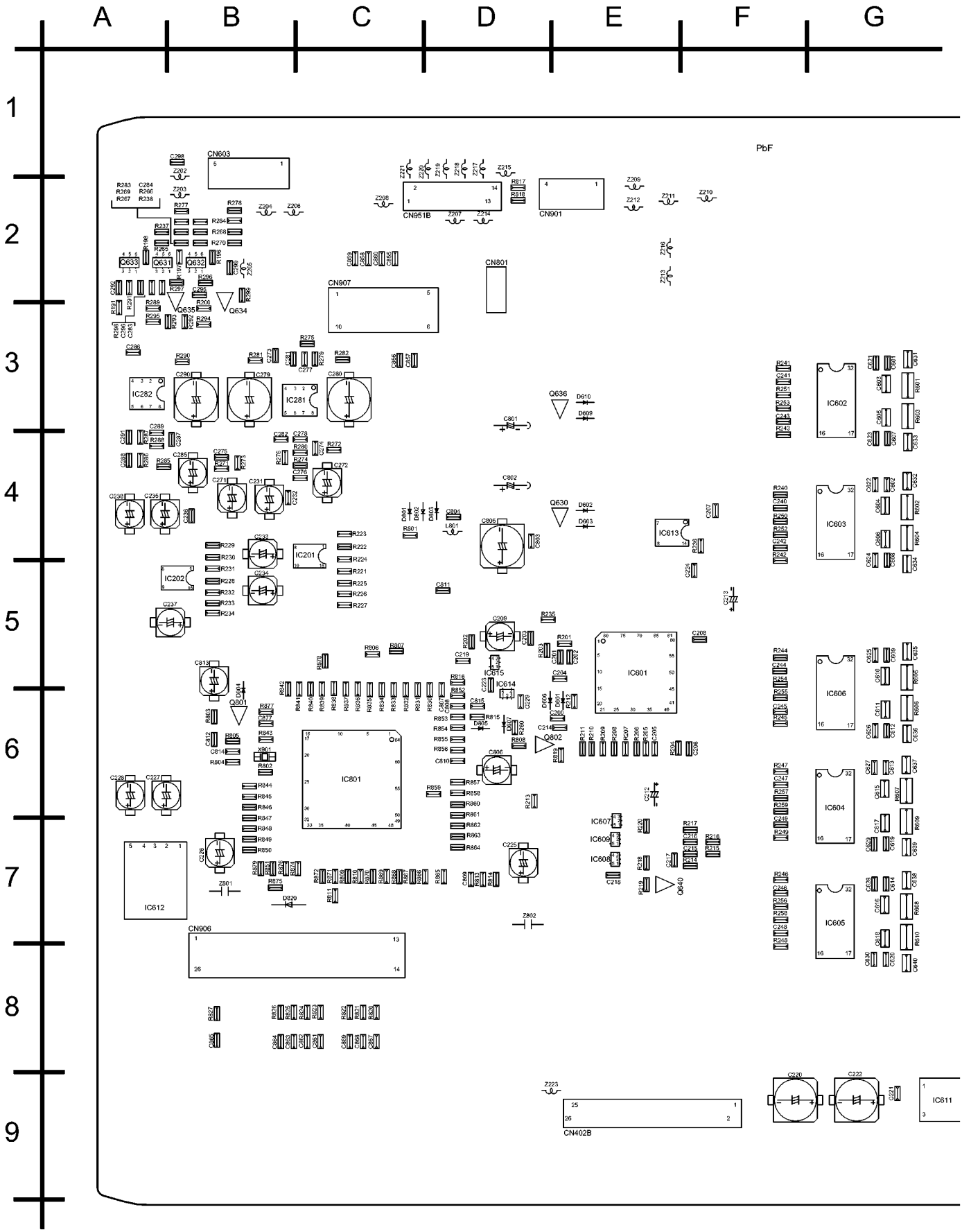
A DSP P.C.B (REP3484B-T)



(SIDE B)


G
H
I
J
K
L
M

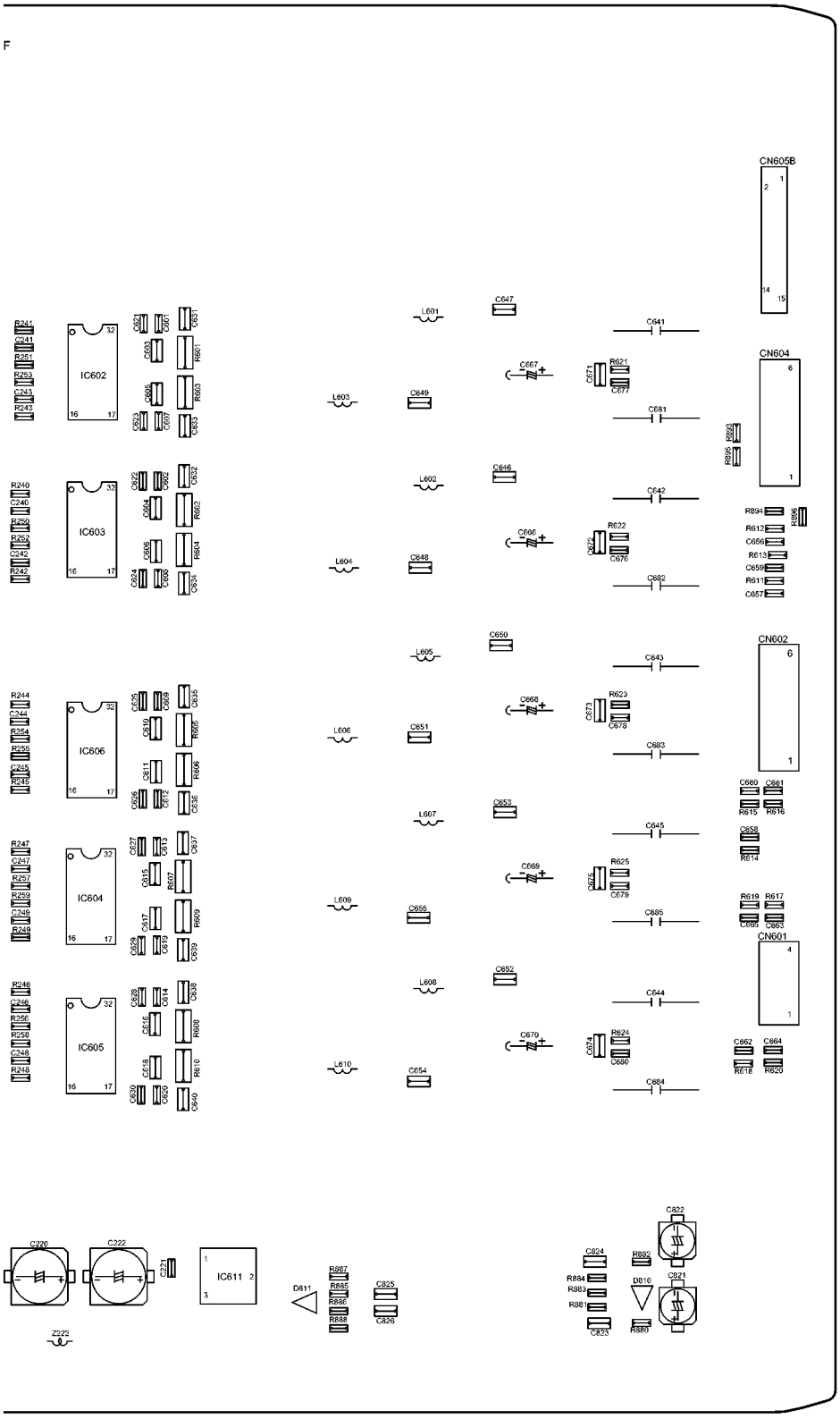

IC1011
IC1010
IC1006
IC1001
CN1003
TP1047
TP1048
TP1049
TP1050
TP1051
TP1046
TP1045
TP1001
TP1044
C1071
R1098
R1099
C1088
C1089
C1091
C1069
C1073
C1074
C1081
C1090
R1083
R1084
R1085
R1086
R1079
R1080
C1080
R1091
R1092
R1093
R1095
R1094
R1090
R1089
C1059
C1060
R1077
R1076
R1183
R1184
C1051
R1070
R1067
R1066
R1063
C1045
R1056
R1053
R1052
R1051
R1049
R1044
C1029
C1021
R1072
R1068
R1069
R1065
R1064
R1055
R1054
C1049
C1042
C1024
C1026
C1025
C1028
R1047
R1045
R1039
C1148
C1018
C1014
C1015
R1034
R1037
R1171
R1172
R1019
R1036
R1020
C1013
R1021
R1022
R1023
R1024
R1015
R1025
R1026
R1027
R1028
R1029
R1030
R1031
R1032
R1033
R1002
R1003
R1004
R1005
R1006
R1007
R1008
R1009
C1001
R1001
R1131
R1130
R1133
R1137
R1135
R1143
R1140
R1167


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
PbF
CN603
CN951B
CN901
CN907
CN801
CN906
CN402B
IC201
IC202
IC281
IC282
IC601
IC602
IC603
IC604
IC605
IC606
IC607
IC608
IC609
IC611
IC612
IC613
IC614
IC615
Q630
Q631
Q632
Q633
Q634
Q635
Q636
Q640
Q801
Q802

G H I J K L M

B

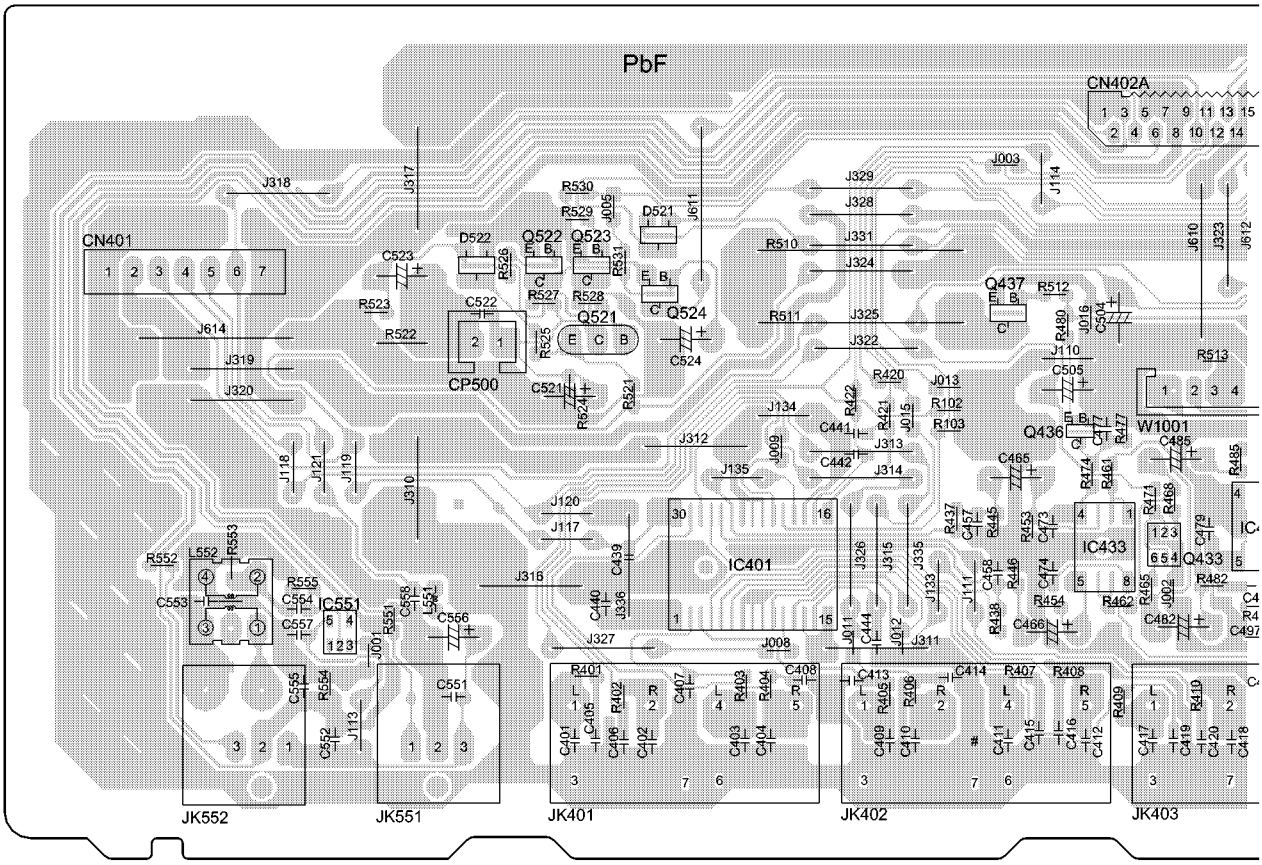
DIGITAL AMP P.C.B (REP3485B-M)



A B C D E F G

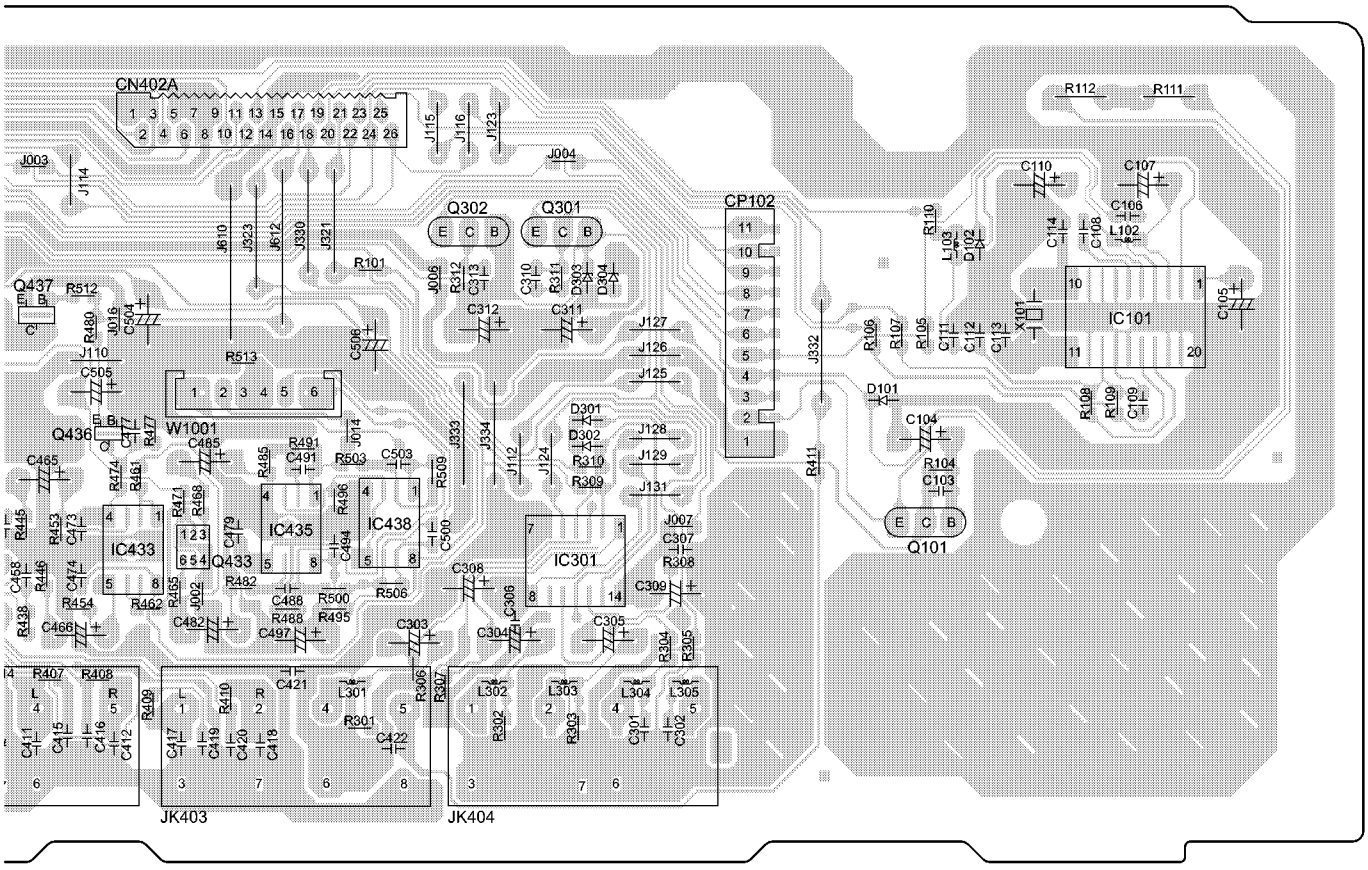
1 2 3 4 5 6 7 8 9

C INPUT P.C.B (REP3486B-S)



OPT2 OPT1 AUX DVD TV VCRIN VCROUT

G H I J K L M

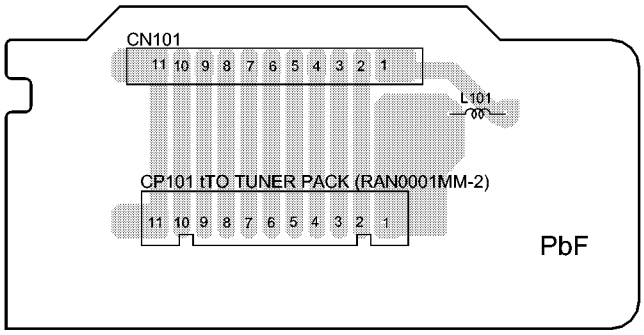


VCRIN VCROUT DVD SUB TV VCR IN MONI-TOR VCR OUT

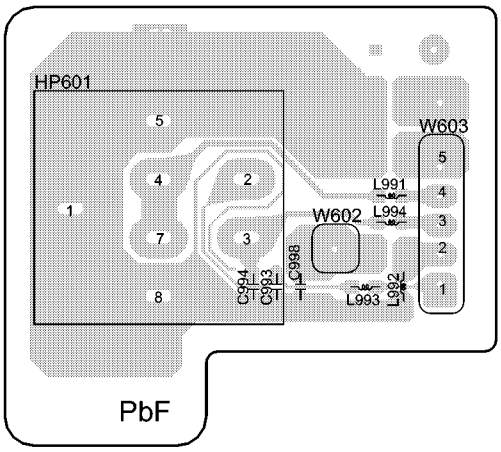
A B C D E F G

1 2 3 4 5 6 7 8 9

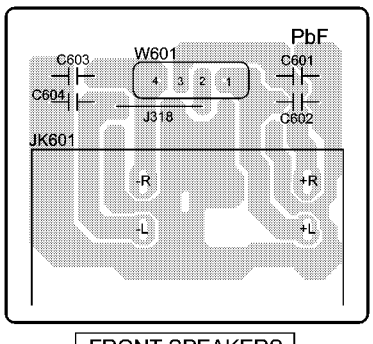
D TUNER EXTENT P.C.B (REP3486B-S)



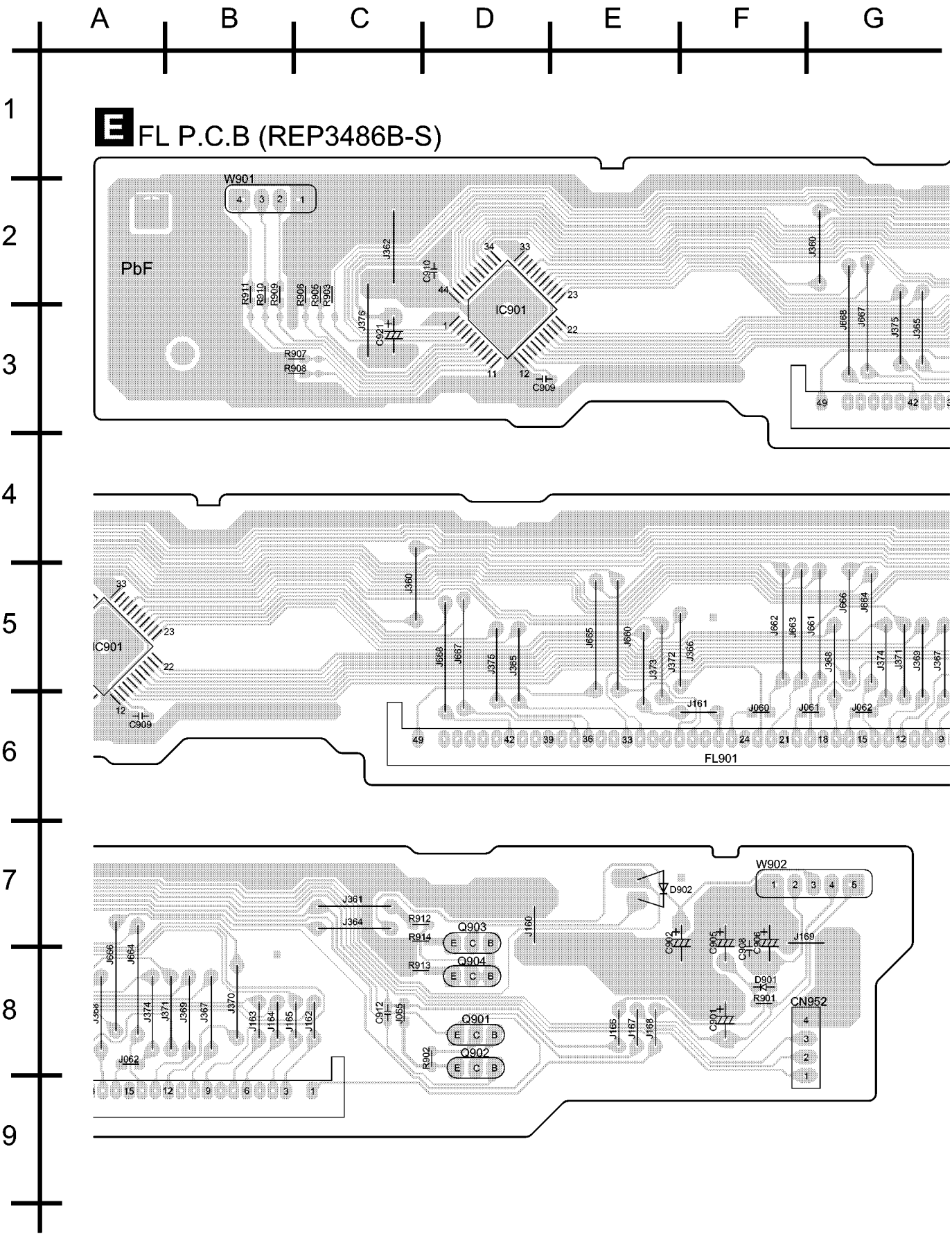
F HEADPHONE P.C.B (REP3486B-S)



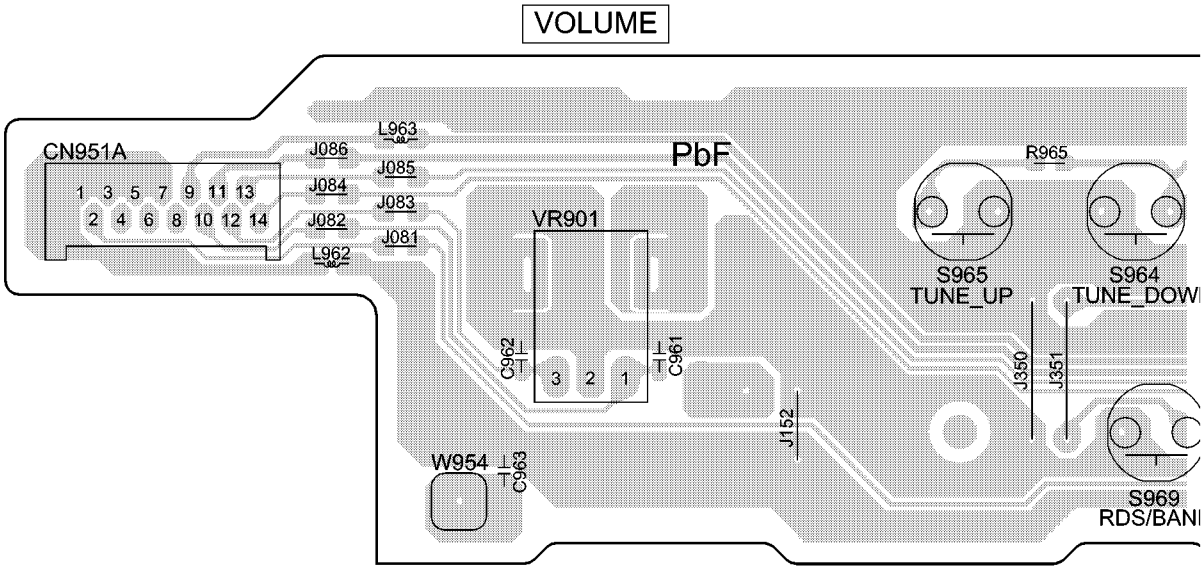
J SPEAKER TERMINAL P.C.B (REP3487B-P)



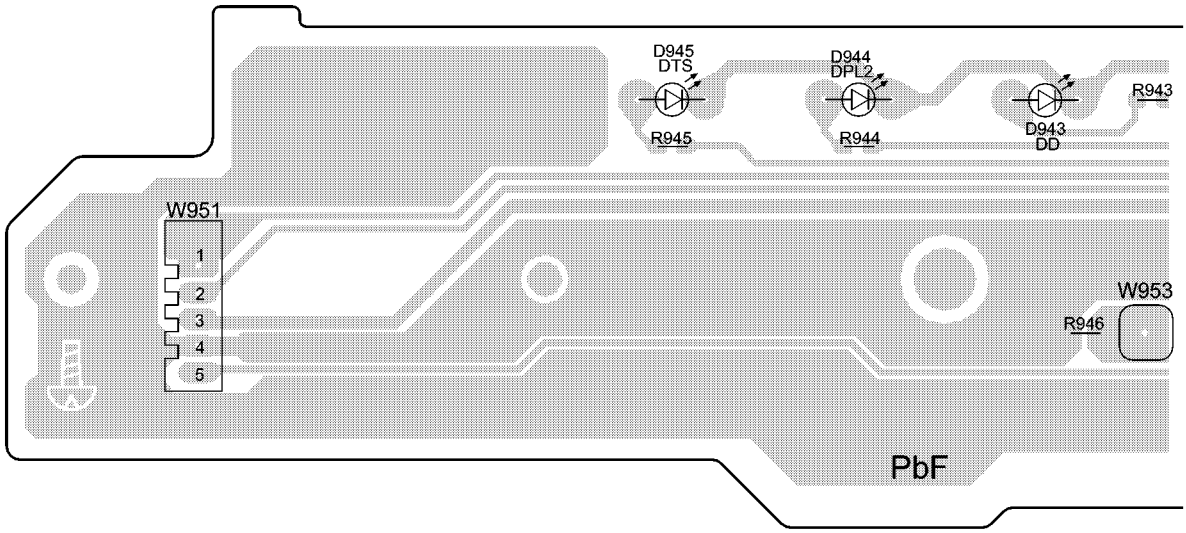
FRONT SPEAKERS

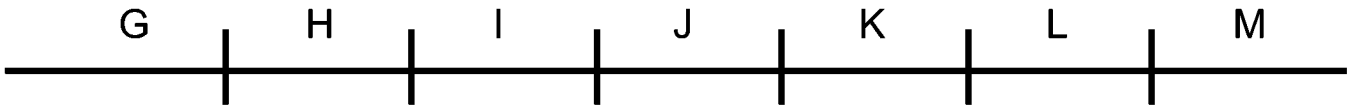

A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
E FL P.C.B (REP3486B-S)
W901
4 3 2 1
PbF
J362
C910
34
33
44
23
IC901
1
22
11
12
C909
C921
R911
R910
R909
R906
R905
R903
R907
R908
J376
J360
J668
J667
J375
J365
49
42
IC901
33
23
22
12
C909
J360
J668
J667
J375
J385
J665
J660
J373
J372
J366
J662
J663
J661
J666
J664
J368
J374
J371
J369
J367
J161
J060
J061
J062
49
42
39
36
33
24
21
18
15
12
9
FL901
J361
J364
R912
R914
R913
Q903
Q904
Q901
Q902
E C B
J160
D902
W902
1 2 3 4 5
C902
C905
C908
C906
J169
D901
R901
CN952
4
3
2
1
C901
J166
J167
J168
R902
C912
J065
J666
J664
J374
J371
J369
J367
J370
J163
J164
J165
J162
J062
15
12
9
6
3
1

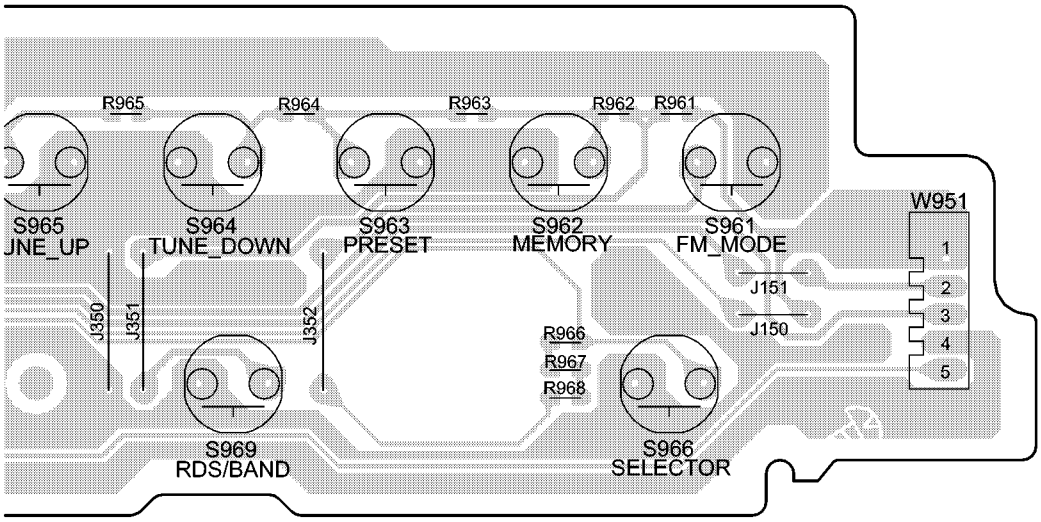
H VOLUME P.C.B (REP3486B-S)



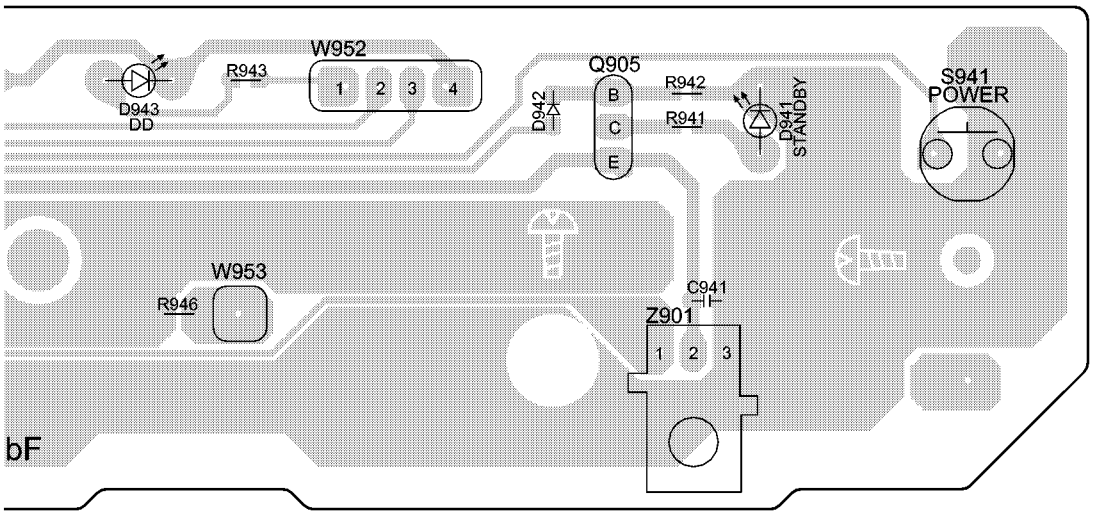
G LED P.C.B (REP3486B-S)



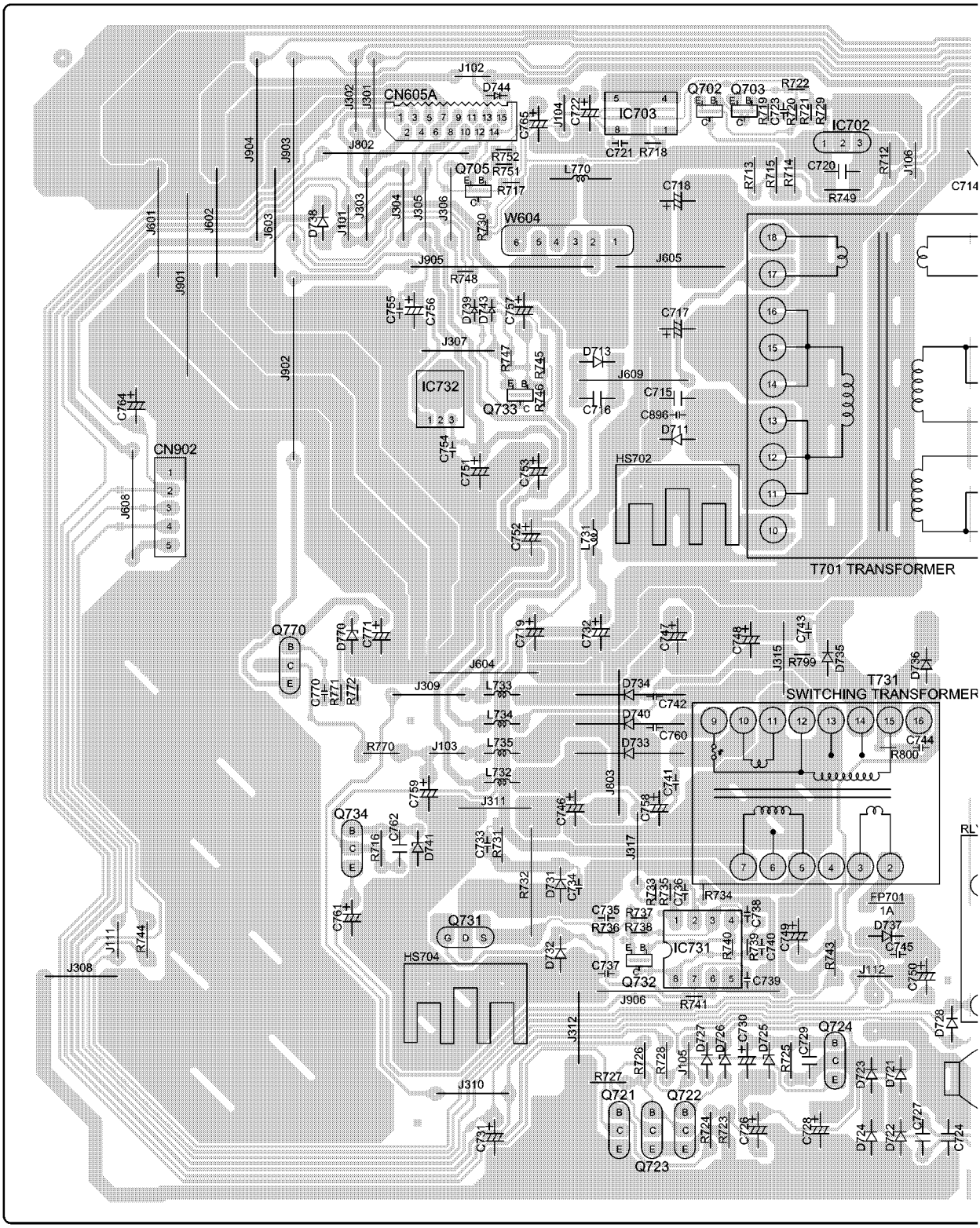

G
H
I
J
K
L
M

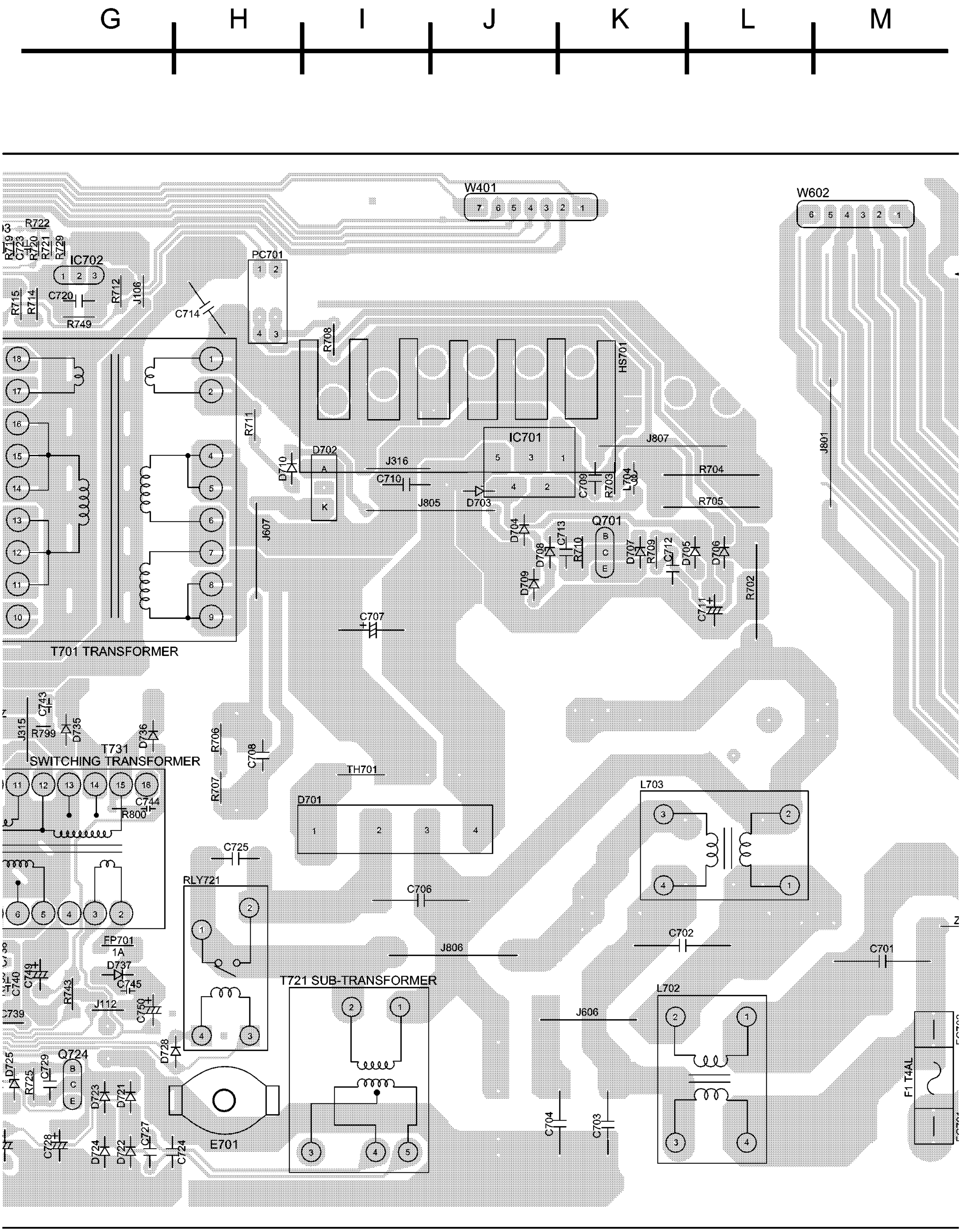

R965
R964
R963
R962
R961
S965
JNE_UP
S964
TUNE_DOWN
S963
PRESET
S962
MEMORY
S961
FM_MODE
W951
1
2
3
4
5
J151
J150
J350
J351
J352
R966
R967
R968
S969
RDS/BAND
S966
SELECTOR

SENSOR

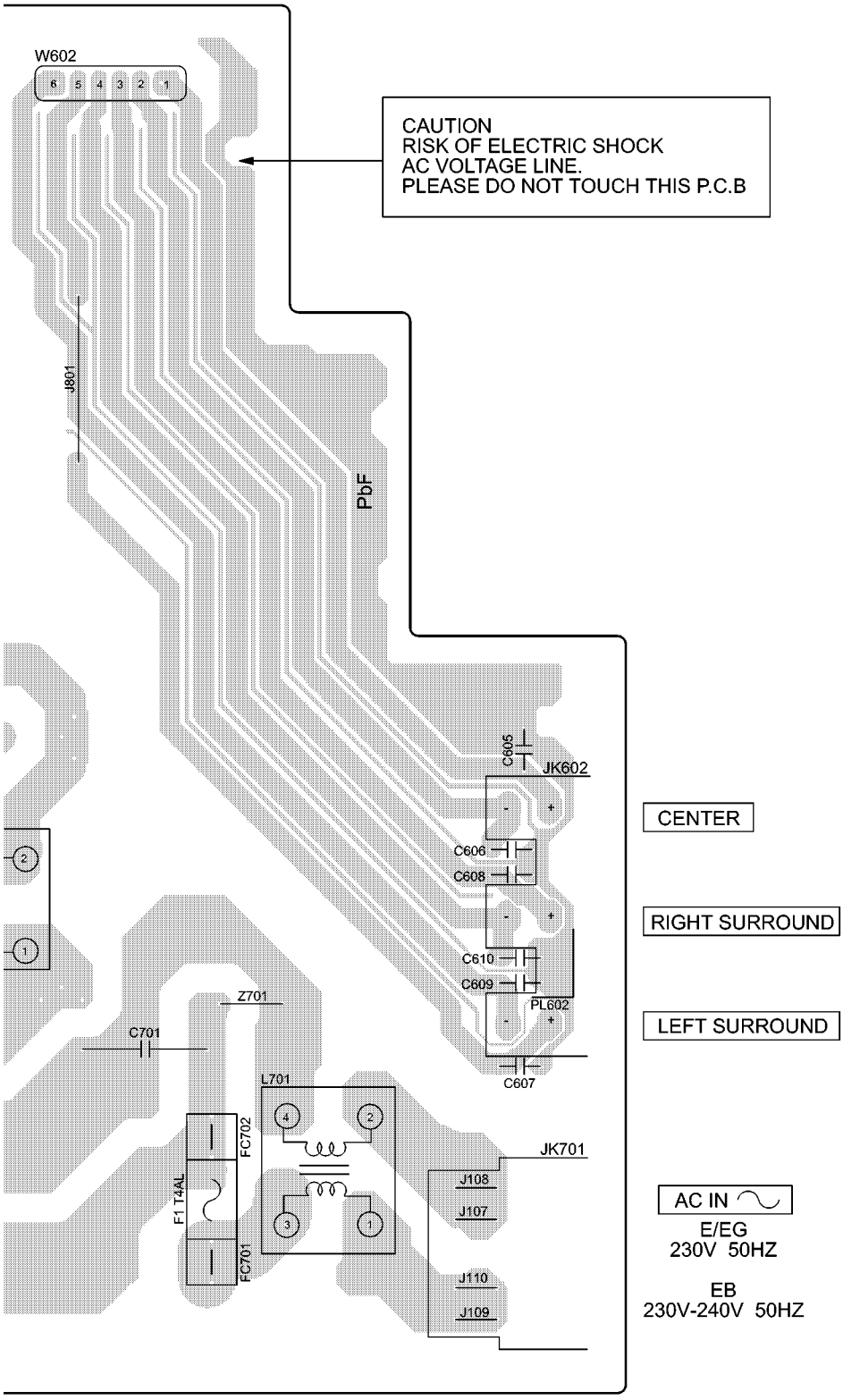

W952
1
2
3
4
R943
D943
DD
Q905
B
C
E
R942
R941
D942
D941
STANDBY
S941
POWER
W953
R946
C941
Z901
1
2
3
bF

I POWER SUPPLY P.C.B (REP3487B-P)

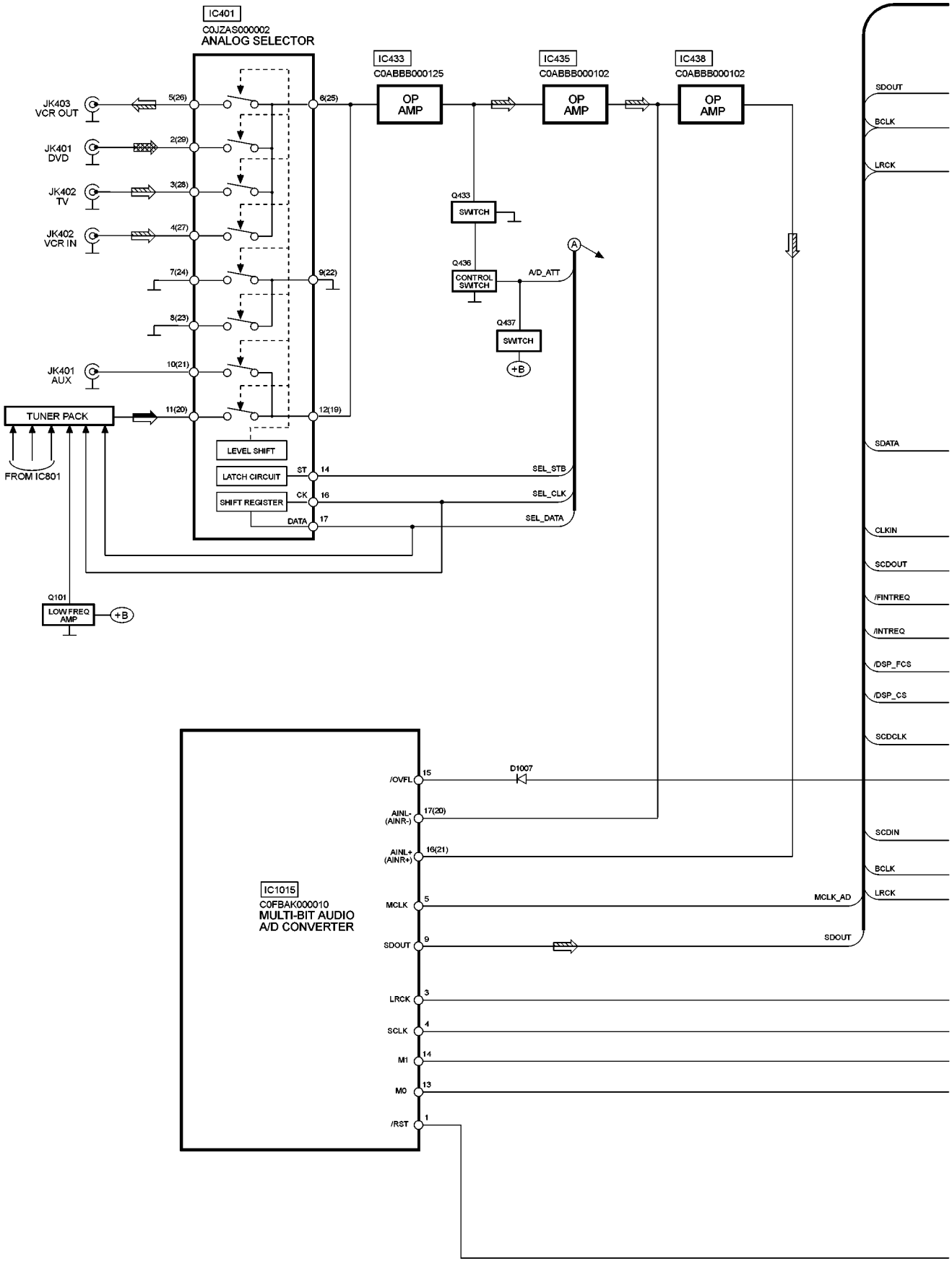


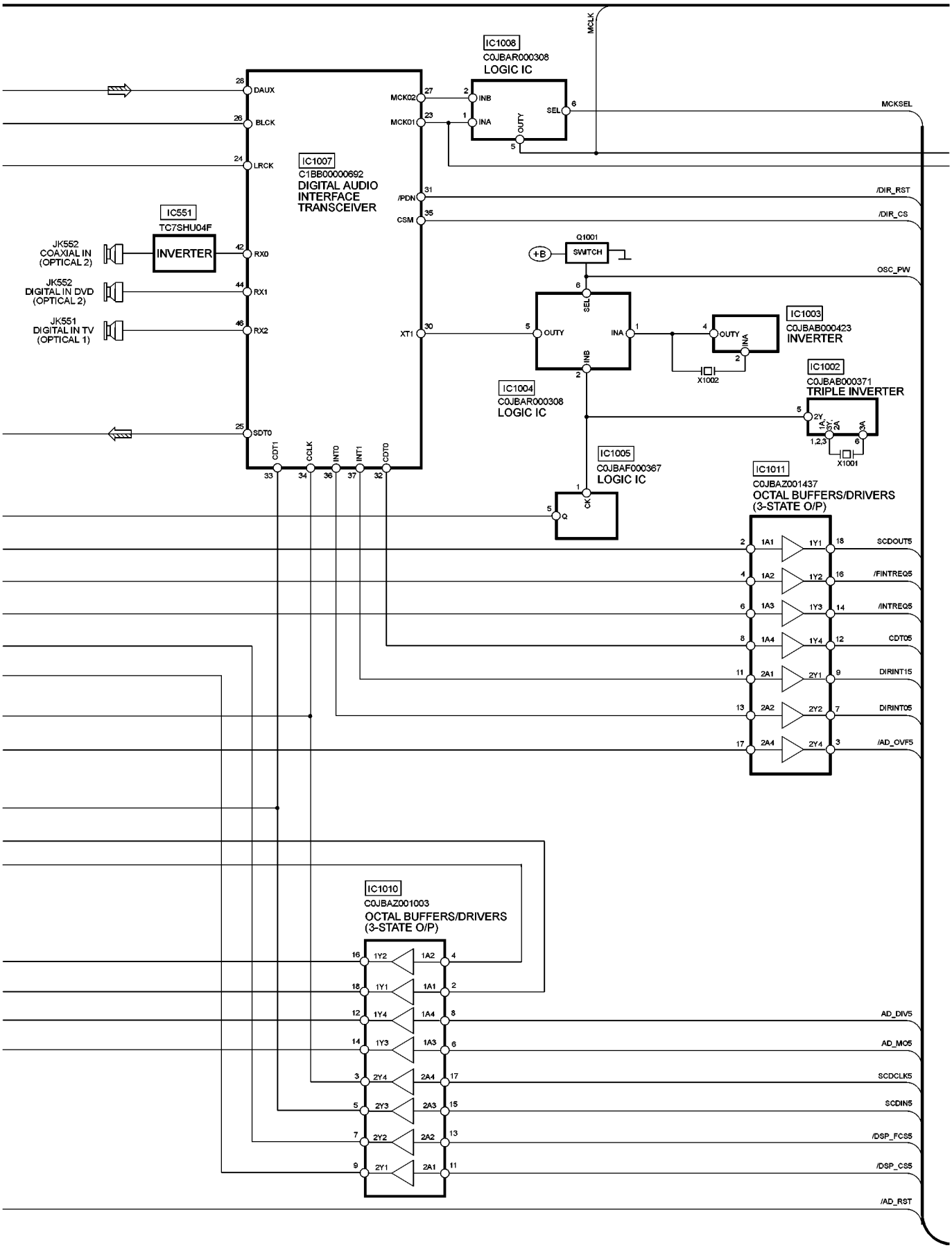

G
H
I
J
K
L
M
W401
W602
R722
IC702
R715
R714
C720
R712
J106
R749
C714
PC701
R708
HS701
J801
R711
IC701
J807
D702
J316
D710
C710
J805
D703
C709
R703
L704
R704
R705
J607
Q701
D704
D708
C713
R710
D707
R709
C712
D705
D706
D709
C711
R702
C707
T701 TRANSFORMER
C743
J315
R799
D735
D736
T731
SWITCHING TRANSFORMER
R706
C708
R707
TH701
D701
L703
C744
R800
C725
RLY721
C706
C702
FP701
1A
D737
J806
C701
C749
C740
C745
R743
J112
C750
C739
T721 SUB-TRANSFORMER
L702
J606
D728
Q724
D725
R725
C729
D723
D721
F1 T4AL
E701
C704
C703
C728
D724
D722
C727
C724

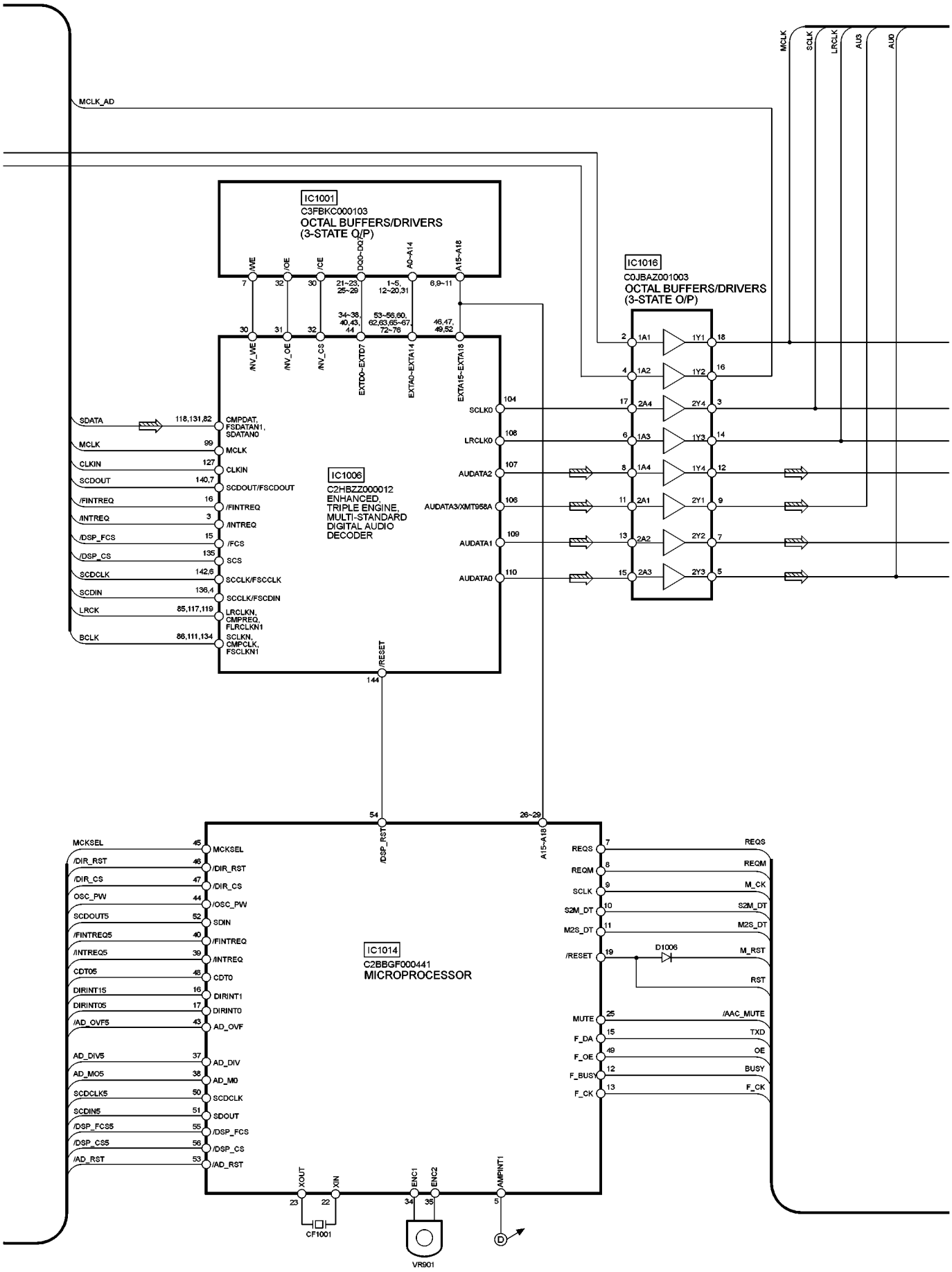
M N O P Q R S

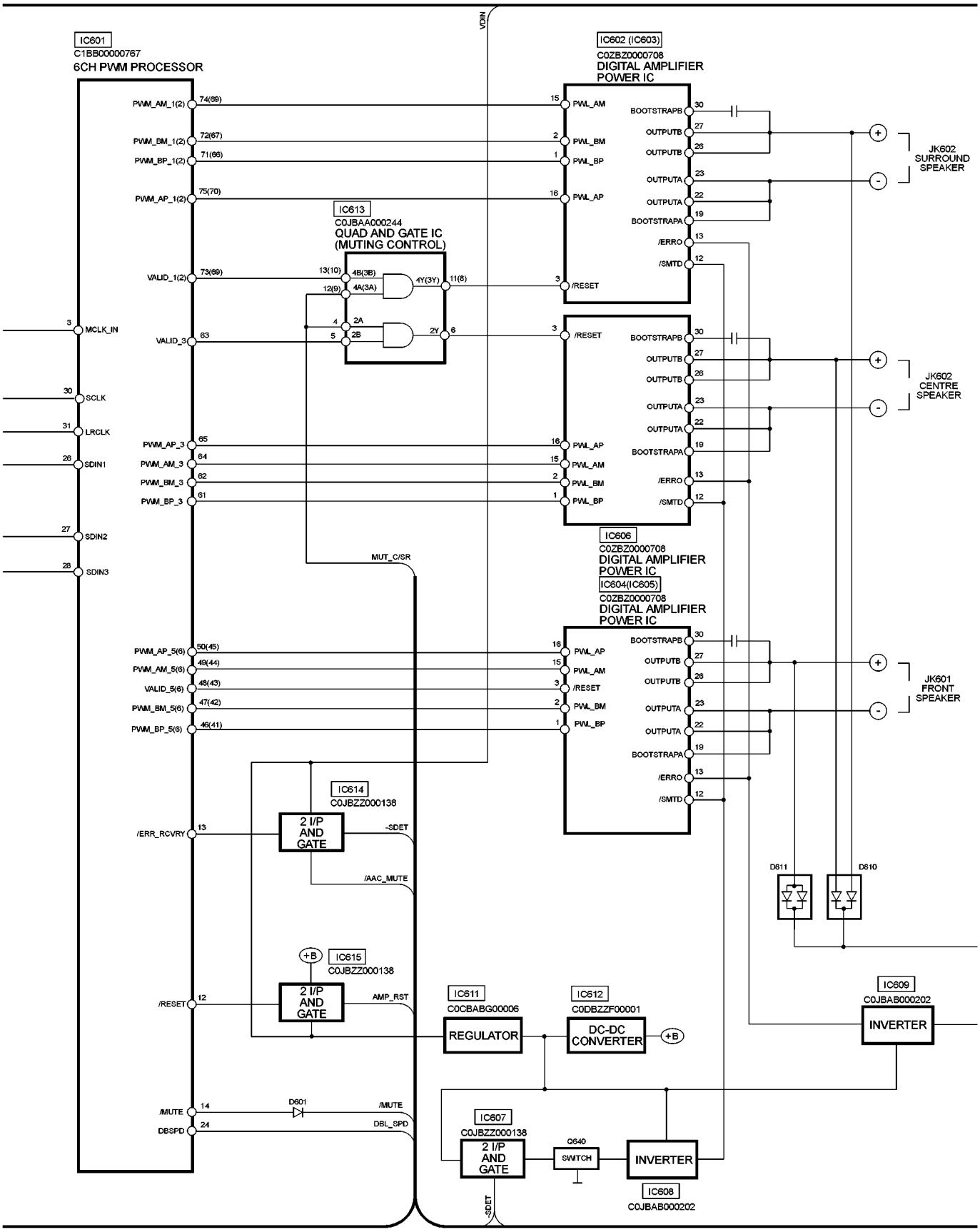

W602
6 5 4 3 2 1
CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B
J801
PbF
C605
JK602
C606
C608
C610
C609
PL602
C607
Z701
C701
L701
FC702
F1 T4AL
FC701
JK701
J108
J107
J110
J109
CENTER
RIGHT SURROUND
LEFT SURROUND
AC IN
E/EG
230V 50HZ
EB
230V-240V 50HZ

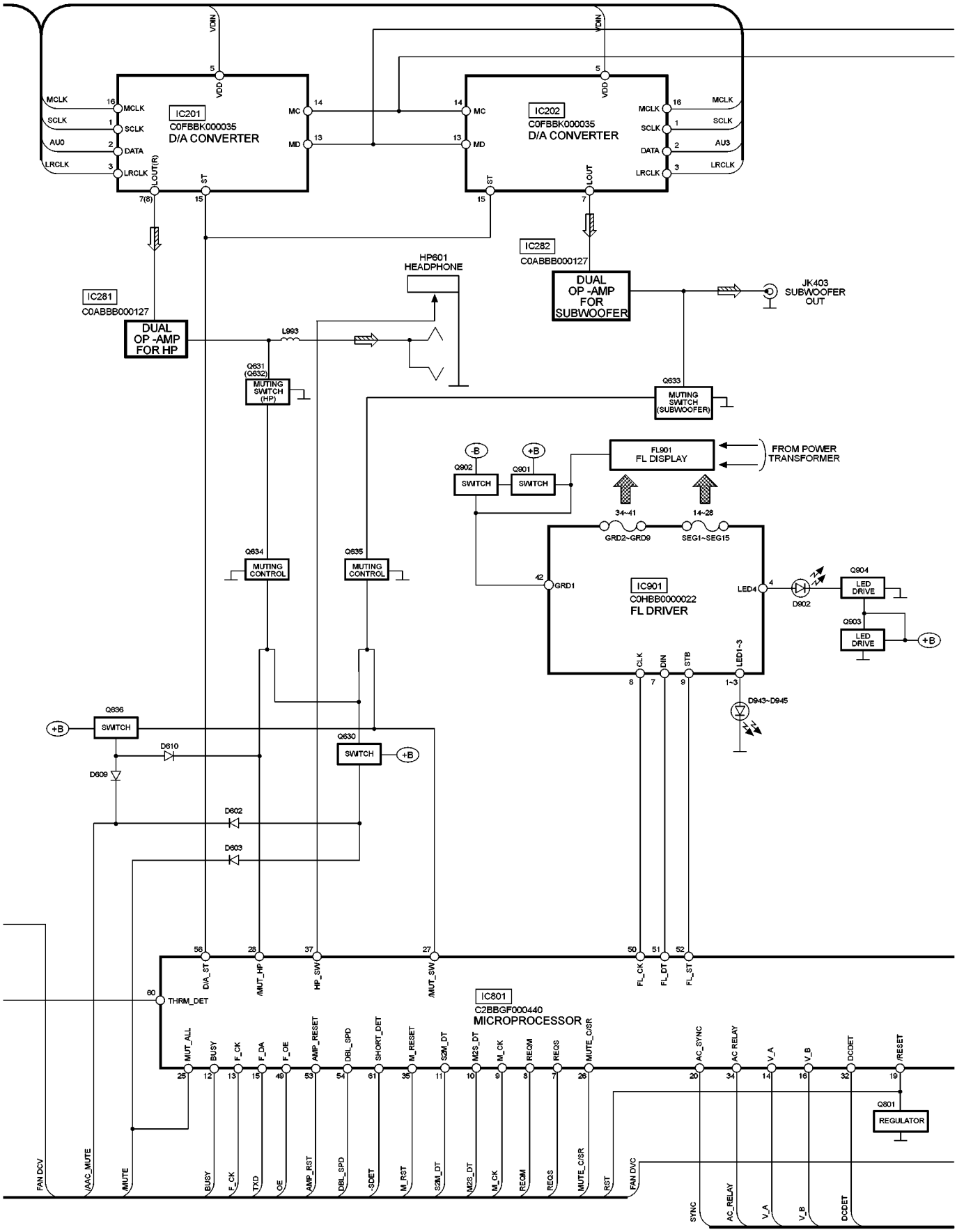
13 Block Diagram

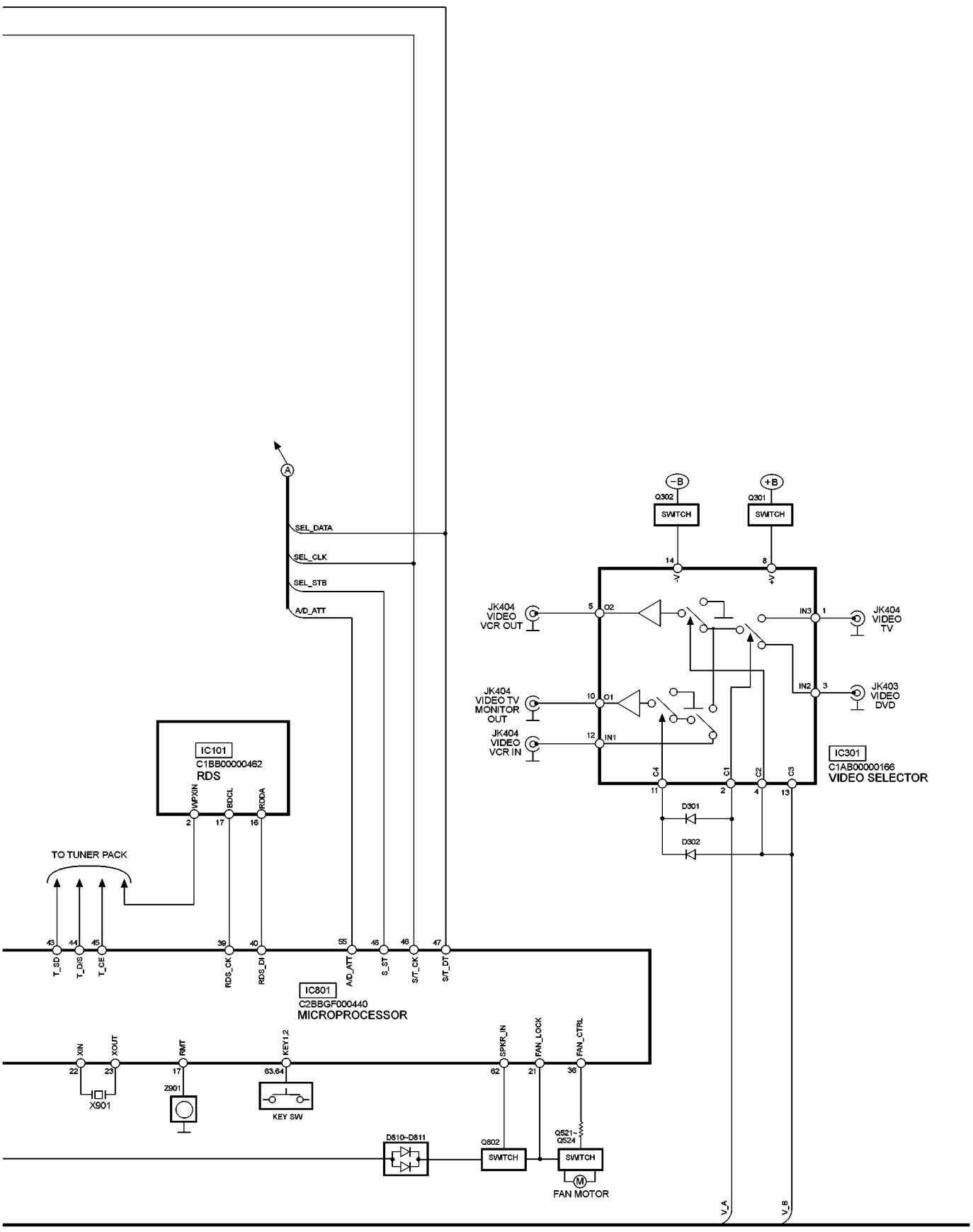



IC1008
C0JBAR000308
LOGIC IC
MCLK
MCKSEL
IC1007
C1BB00000692
DIGITAL AUDIO INTERFACE TRANSCEIVER
/DIR_RST
/DIR_CS
IC551
TC7SHU04F
INVERTER
JK552 COAXIAL IN (OPTICAL 2)
JK552 DIGITAL IN DVD (OPTICAL 2)
JK551 DIGITAL IN TV (OPTICAL 1)
Q1001
+B
SWITCH
OSC_PW
IC1003
C0JBAB000423
INVERTER
X1002
IC1002
C0JBAB000371
TRIPLE INVERTER
X1001
IC1004
C0JBAR000308
LOGIC IC
IC1005
C0JBAF000367
LOGIC IC
IC1011
C0JBAZ001437
OCTAL BUFFERS/DRIVERS (3-STATE O/P)
SCDOUT5
/FINTREQ5
/INTREQ5
CDT05
DIRINT15
DIRINT05
/AD_OVF5
IC1010
C0JBAZ001003
OCTAL BUFFERS/DRIVERS (3-STATE O/P)
AD_DIV5
AD_MO5
SCDCLK5
SCDIN5
/DSP_FCS5
/DSP_CS5
/AD_RST


MCLK_AD
IC1001
C3FBKC000103
OCTAL BUFFERS/DRIVERS
(3-STATE O/P)
/WE
/OE
/CE
DQ0~DQ7
A0~A14
A15~A18
/NV_WE
/NV_OE
/NV_CS
EXTD0~EXTD7
EXTA0~EXTA14
EXTA15~EXTA18
IC1016
C0JBAZ001003
OCTAL BUFFERS/DRIVERS
(3-STATE O/P)
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
MCLK
SCLK
LRCLK
AU3
AU0
SCLK0
LRCLK0
AUDATA2
AUDATA3/XMT958A
AUDATA1
AUDATA0
SDATA
MCLK
CLKIN
SCDOUT
/FINTREQ
/INTREQ
/DSP_FCS
/DSP_CS
SCDCLK
SCDIN
LRCK
BCLK
CMPDAT, FSDATAN1, SDATAN0
MCLK
CLKIN
SCDOUT/FSCDOUT
/FINTREQ
/INTREQ
/FCS
SCS
SCCLK/FSCCLK
SCCLK/FSCDIN
LRCLKN, CMPREQ, FLRCLKN1
SCLKN, CMPCLK, FSCLKN1
IC1006
C2HBZZ000012
ENHANCED, TRIPLE ENGINE, MULTI-STANDARD DIGITAL AUDIO DECODER
/RESET
/DSP_RST
A15~A18
MCKSEL
/DIR_RST
/DIR_CS
OSC_PW
SCDOUT5
/FINTREQ5
/INTREQ5
CDT05
DIRINT15
DIRINT05
/AD_OVF5
AD_DIV5
AD_M05
SCDCLK5
SCDIN5
/DSP_FCS5
/DSP_CS5
/AD_RST
MCKSEL
/DIR_RST
/DIR_CS
/OSC_PW
SDIN
/FINTREQ
/INTREQ
CDT0
DIRINT1
DIRINT0
AD_OVF
AD_DIV
AD_M0
SCDCLK
SDOUT
/DSP_FCS
/DSP_CS
/AD_RST
IC1014
C2BBGF000441
MICROPROCESSOR
REQS
REQM
SCLK
S2M_DT
M2S_DT
/RESET
MUTE
F_DA
F_OE
F_BUSY
F_CK
REQS
REQM
M_CK
S2M_DT
M2S_DT
M_RST
RST
/AAC_MUTE
TXD
OE
BUSY
F_CK
D1006
XOUT
XIN
ENC1
ENC2
AMPINT1
CF1001
VR901

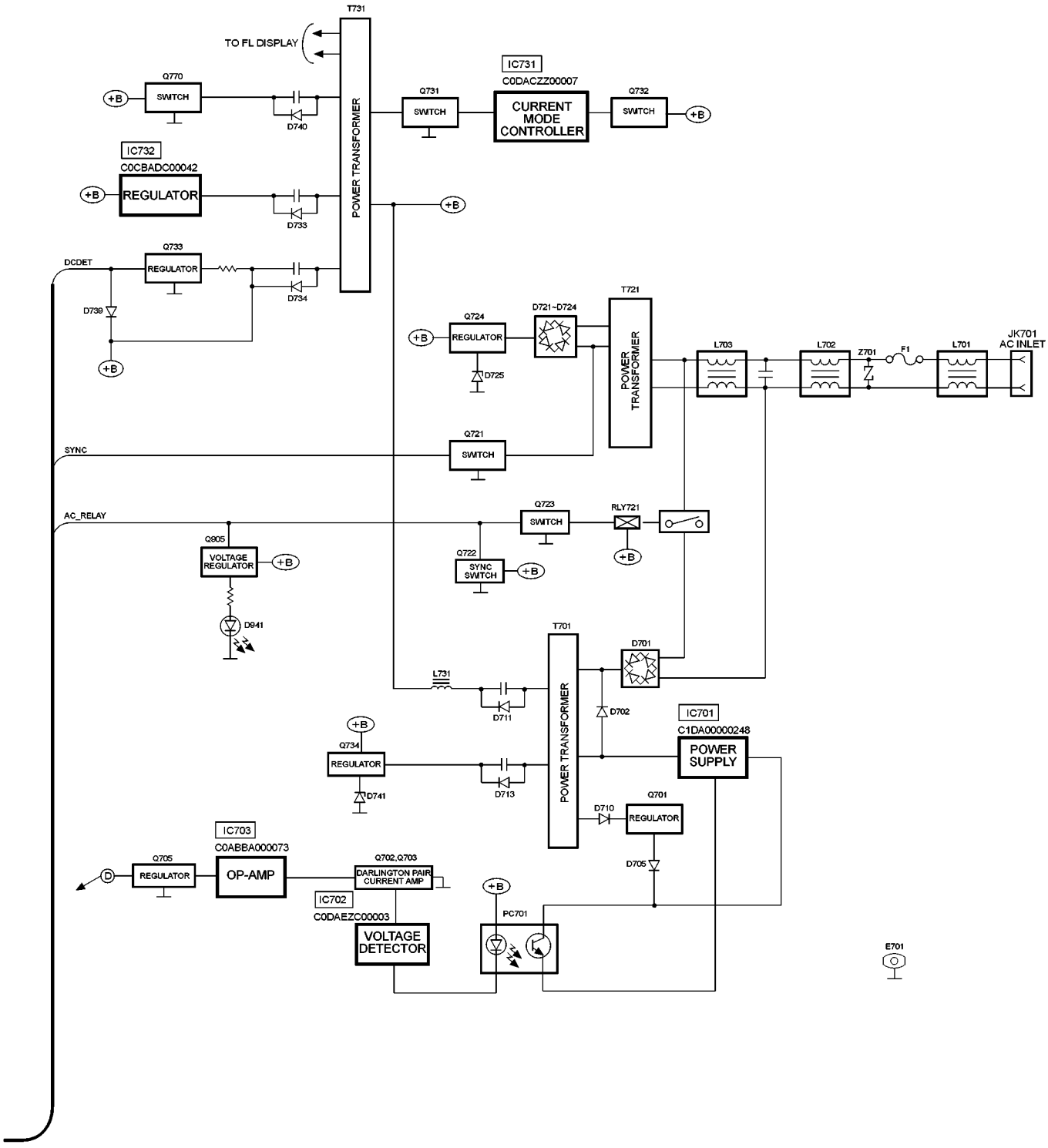

IC601
C1BB00000767
6CH PWM PROCESSOR
VDIN
IC602 (IC603)
C0ZBZ0000708
DIGITAL AMPLIFIER POWER IC
IC613
C0JBAA000244
QUAD AND GATE IC (MUTING CONTROL)
IC606
C0ZBZ0000708
DIGITAL AMPLIFIER POWER IC
IC604(IC605)
C0ZBZ0000708
DIGITAL AMPLIFIER POWER IC
JK602 SURROUND SPEAKER
JK602 CENTRE SPEAKER
JK601 FRONT SPEAKER
MCLK_IN
SCLK
LRCLK
SDIN1
SDIN2
SDIN3
PWM_AM_1(2)
PWM_BM_1(2)
PWM_BP_1(2)
PWM_AP_1(2)
VALID_1(2)
VALID_3
PWM_AP_3
PWM_AM_3
PWM_BM_3
PWM_BP_3
PWM_AP_5(6)
PWM_AM_5(6)
VALID_5(6)
PWM_BM_5(6)
PWM_BP_5(6)
PWL_AM
PWL_BM
PWL_BP
PWL_AP
/RESET
BOOTSTRAPB
OUTPUTB
OUTPUTA
BOOTSTRAPA
/ERRO
/SMTD
MUT_C/SR
IC614
C0JBZZ000138
2 I/P AND GATE
/ERR_RCVRY
-SDET
/AAC_MUTE
IC615
C0JBZZ000138
/RESET
AMP_RST
IC611
C0CBABG00006
REGULATOR
IC612
C0DBZZF00001
DC-DC CONVERTER
+B
IC609
C0JBAB000202
INVERTER
D611
D610
/MUTE
DBSPD
D601
DBL_SPD
IC607
C0JBZZ000138
2 I/P AND GATE
Q640
SWITCH
INVERTER
IC608
C0JBAB000202
-SDET


IC201
C0FBBK000035
D/A CONVERTER
IC202
C0FBBK000035
D/A CONVERTER
IC281
C0ABBB000127
DUAL OP -AMP FOR HP
IC282
C0ABBB000127
DUAL OP -AMP FOR SUBWOOFER
HP601
HEADPHONE
JK403
SUBWOOFER OUT
L993
Q631 (Q632)
MUTING SWITCH (HP)
Q633
MUTING SWITCH (SUBWOOFER)
Q634
MUTING CONTROL
Q635
MUTING CONTROL
Q636
SWITCH
Q630
SWITCH
Q902
SWITCH
Q901
SWITCH
FL901
FL DISPLAY
FROM POWER TRANSFORMER
IC901
C0HBB0000022
FL DRIVER
Q904
LED DRIVE
Q903
LED DRIVE
D902
D943~D945
D610
D609
D602
D603
IC801
C2BBGF000440
MICROPROCESSOR
Q801
REGULATOR
VDIN
VDD
MCLK
SCLK
AU0
AU3
DATA
LRCLK
LOUT(R)
LOUT
ST
MC
MD
+B
-B
GRD1
GRD2~GRD9
SEG1~SEG15
LED4
LED1~3
CLK
DIN
STB
THRM_DET
D/A_ST
/MUT_HP
HP_SW
/MUT_SW
FL_CK
FL_DT
FL_ST
MUT_ALL
BUSY
F_CK
F_DA
F_OE
AMP_RESET
DBL_SPD
SHORT_DET
M_RESET
S2M_DT
M2S_DT
M_CK
REQM
REQS
MUTE_C/SR
AC_SYNC
AC RELAY
V_A
V_B
DCDET
RESET
FAN DCV
/AAC_MUTE
/MUTE
BUSY
F_CK
TXD
OE
AMP_RST
DBL_SPD
-SDET
M_RST
S2M_DT
M2S_DT
M_CK
REQM
REQS
MUTE_C/SR
RST
FAN DVC
SYNC
AC_RELAY
V_A
V_B
DCDET

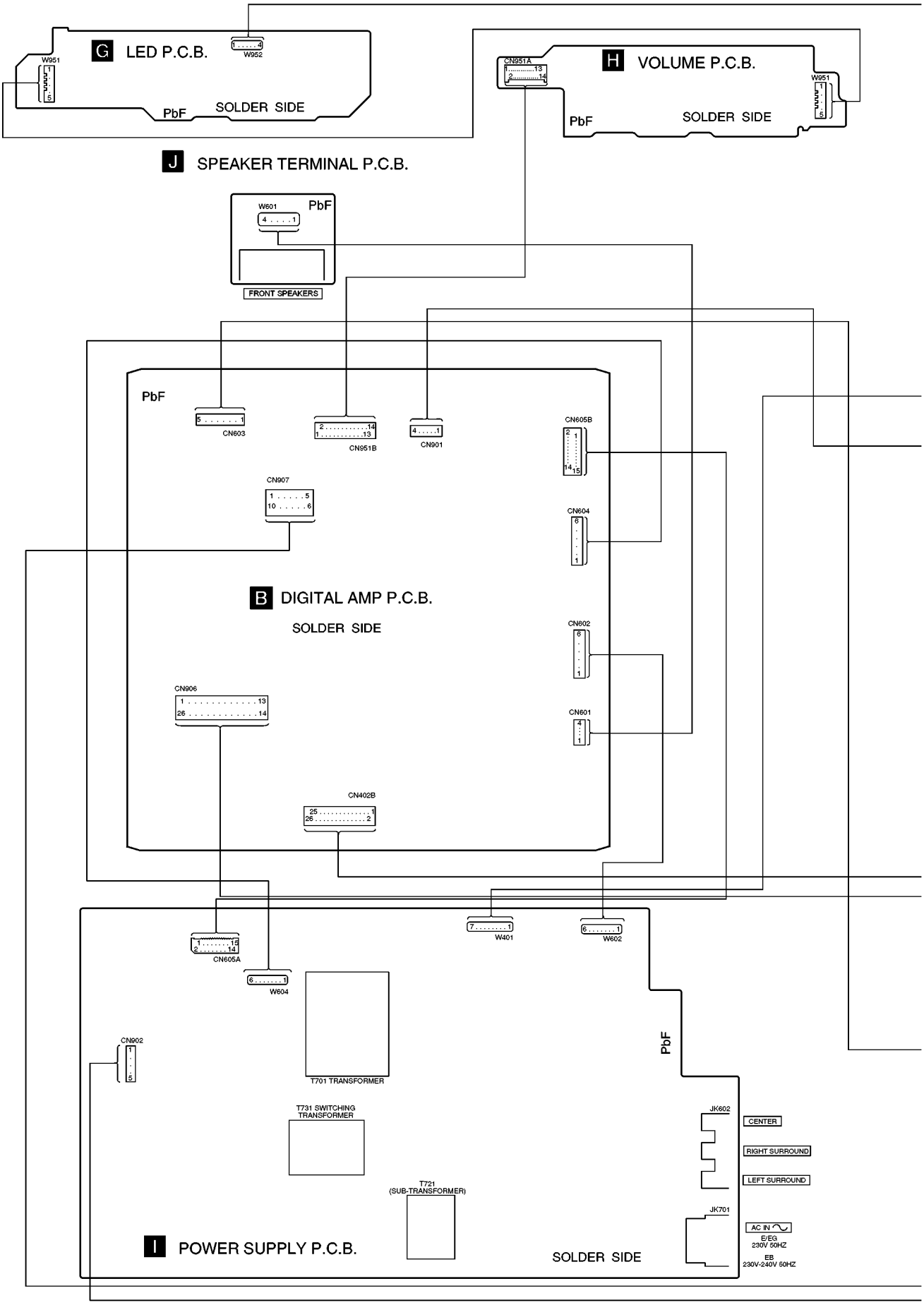

A
SEL_DATA
SEL_CLK
SEL_STB
A/D_ATT
IC101
C1BB00000462
RDS
WPXIN
BDCL
RDDA
2
17
16
TO TUNER PACK
43
44
45
39
40
55
48
46
47
T_SD
T_D/S
T_CE
RDS_CK
RDS_DI
A/D_ATT
S_ST
S/T_CK
S/T_DT
IC801
C2BBGF000440
MICROPROCESSOR
XIN
XOUT
RMT
KEY1,2
SPKR_IN
FAN_LOCK
FAN_CTRL
22
23
17
63,64
62
21
36
X901
Z901
KEY SW
D610~D611
Q802
SWITCH
Q521~Q524
SWITCH
FAN MOTOR
V_A
V_B
-B
Q302
SWITCH
+B
Q301
SWITCH
14
8
-V
+V
JK404
VIDEO
VCR OUT
5
O2
JK404
VIDEO TV
MONITOR
OUT
10
O1
JK404
VIDEO
VCR IN
12
IN1
IN3
1
JK404
VIDEO
TV
IN2
3
JK403
VIDEO
DVD
IC301
C1AB00000166
VIDEO SELECTOR
C4
C1
C2
C3
11
2
4
13
D301
D302

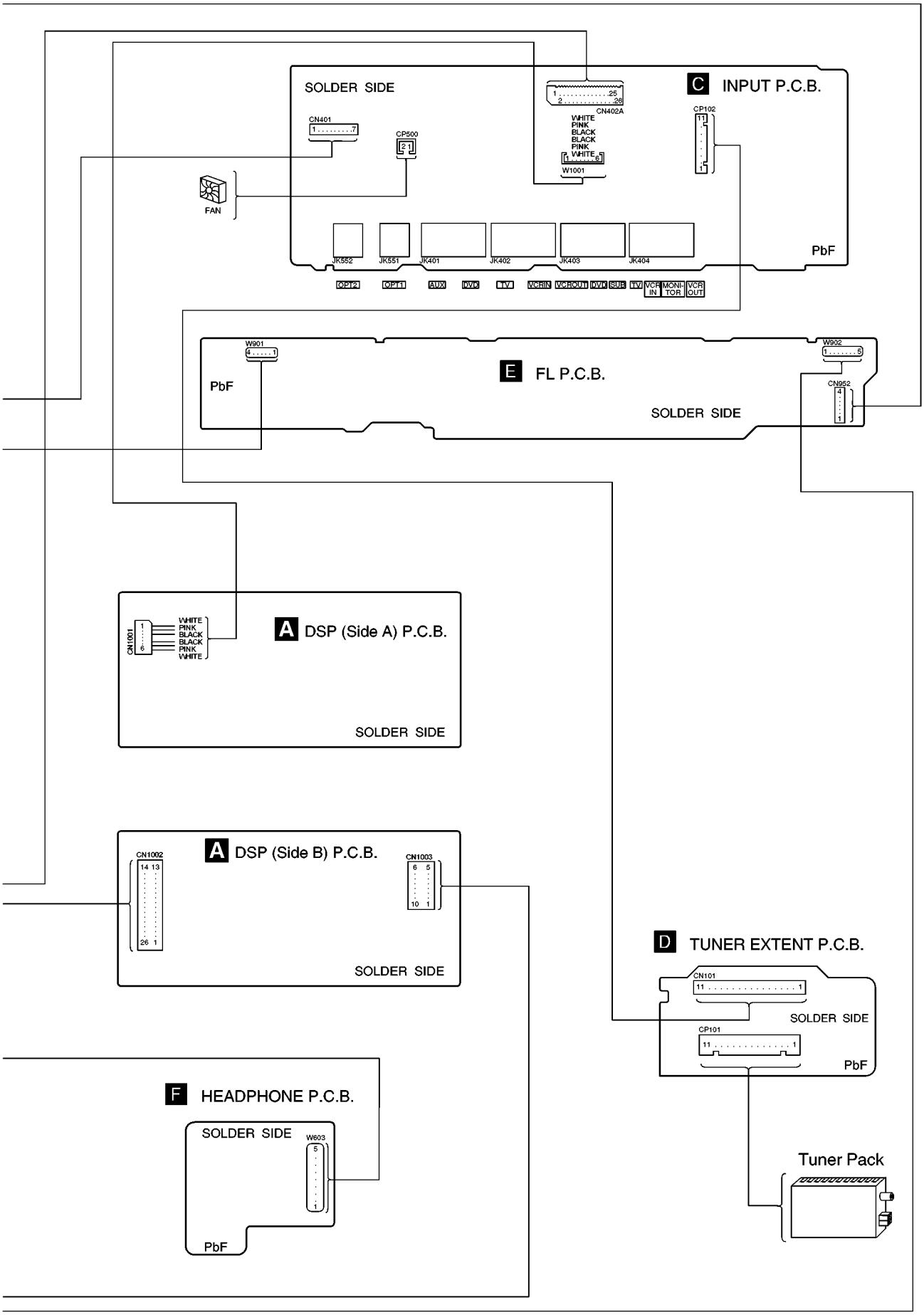
SIGNAL LINES

: MAIN SIGNAL LINE
: DVD (AUDIO) SIGNAL LINE
: FM/AM SIGNAL LINE
( ) Indicates Pin No. of Right Channel
Note : Signal Lines are applicable to the Left Channel only.



14 Wiring Connection Diagram




SOLDER SIDE
C INPUT P.C.B.
CN401
CP500
CN402A
WHITE
PINK
BLACK
BLACK
PINK
WHITE
W1001
CP102
FAN
JK552
JK551
JK401
JK402
JK403
JK404
PbF
OPT2
OPT1
AUX
DVD
TV
VCRIN
VCROUT
DVD
SUB
TV
VCR IN
MONI-TOR
VCR OUT
W901
PbF
E FL P.C.B.
W902
CN952
SOLDER SIDE
CN1001
WHITE
PINK
BLACK
BLACK
PINK
WHITE
A DSP (Side A) P.C.B.
SOLDER SIDE
CN1002
CN1003
A DSP (Side B) P.C.B.
SOLDER SIDE
D TUNER EXTENT P.C.B.
CN101
SOLDER SIDE
CP101
PbF
Tuner Pack
F HEADPHONE P.C.B.
SOLDER SIDE
W603
PbF

15 Terminal Function of ICs

15.1. IC801 (C2BBGF000440): System Control (Micro P)

Pin NO.	Terminal Name	I/O	Function
1	LED_CK	O	LED Driver Control : Clock
2	LED_DT	I	LED Driver Control : Data
3	LED_ST	I/O	LED Driver Control : Strobe
4	E_DT	O	EEPROM Control : Data
5	E_CK	O	EEPROM Control : Clock
6	E_CS	O	EEPROM Control : Chip Select
7	REQS	I/O	Communication to Sub up : Request from Sub up
8	REQM	I/O	Communication to Sub up : Request from Main up
9	M_CK	O	Communication to Main up : Clock
10	M2S_DT	O	Communication to Main up : Serial Output
11	S2M_DT	I	Communication to Main up : Serial Input
12	F_BUSY	I/O	To rewrite up ROM : BUSY
13	F_CK	O	To rewrite up ROM : CLOCK
14	V_A	I/O	Video Selector Control : A
15	F_DA	I/O	To rewrite uP ROM : DATA
16	V_B	I/O	Video Selector Control : B
17	REMOTE	I	Remote Control Signal Input
18	CNVSS (VPP)	-	12V supply to rewrite Flash ROM
19	RESET	-	Reset Input
20	AC__SYNC	-	Power Faillure Detection
21	FAN_LOCK	-	FAN LOCK Detection
22	XIN	-	10MHz Connect to Oscillator
23	XOUT	-	10MHz Connect to Oscillator
24	VSS	-	Connect to GND
25	MT_ALL	O	MUTE for all channel
26	MT_C/SR	O	MUTE for C/SURR
27	MT_SUB	O	MUTE for SUBWFR
28	MT_HP	O	MUTE for Headphones
29	OSD_CK	O	OSD Control : Clock
30	OSD_DT	I	OSD Control : Data
31	OSD_ST	I/O	OSD Control : Strobe
32	DC_DET	I	DC Short Detection
33	INI_OUT	O	Output for Initialize Setting
34	POWER_RLY	-	Power Relay Control (H ; ON)
35	M_RESET	O	RESET signal for sub up
36	FAN_CTRL	O	Cooling Fan Control Output
37	HP_SW	I	Headphone Detection
38	MT_2ND	O	MUTE for 2nd Audio
39	RDS_CK	O	RDS IC Control : Clock
40	RDS_DI	I	RDS IC Control : Data
41	INIT_IN1	I	Initialize Setting Input 1
42	INIT_IN2	I	Initialize Setting Input 2
43	TUN_SD	I	SD Input for Tuner
44	TUN_DI/ST	I	IF data/Stero detect input for tuner
45	TUN_CE	O	CE Output for tuner
46	SEL/TN/ DA_CK	O	Input Selector, Tuner and D/A Control : Clock
47	SEL/TN/ DA_DT	O	Input Selector, Tuner and D/A Control : Data
48	SEL_ST	O	Input Selector Control : Strobe
49	F_OE	O	To rewrite up ROM : ENABLE
50	FL_CK	O	FL Driver Control : Clock
51	FL_DT	I	FL Driver Control : Data
52	FL_ST	I/O	FL Driver Control : Strobe
53	AMP_RESET	O	TAS5036 Hardware Reset
54	DBL_SPD	I/O	Sample Rate Double Speed Control to the modulator IC
55	A/D_ATT	I/O	A/D attenuator Control
56	D/A_ST	I/O	D/A Control : Strobe
57	VCC	-	+5V power supply
58	VREF	-	VCC Connected
59	AVSS	-	GND Connected
60	THRM_DET	I	Thermal Warning Detection
61	SHORT_DET	I	Output Short Detection
62	SPKR_IN	O	Speaker Output Voltage Input for FAN Control
63	KEY2	I	Key input 2
64	KEY1	I	Key input 1

16 Parts Location and Replacement Parts List

Notes:

- Important safety notice:

  Components identified by ⚠ mark have special characteristics important for safety.

  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.

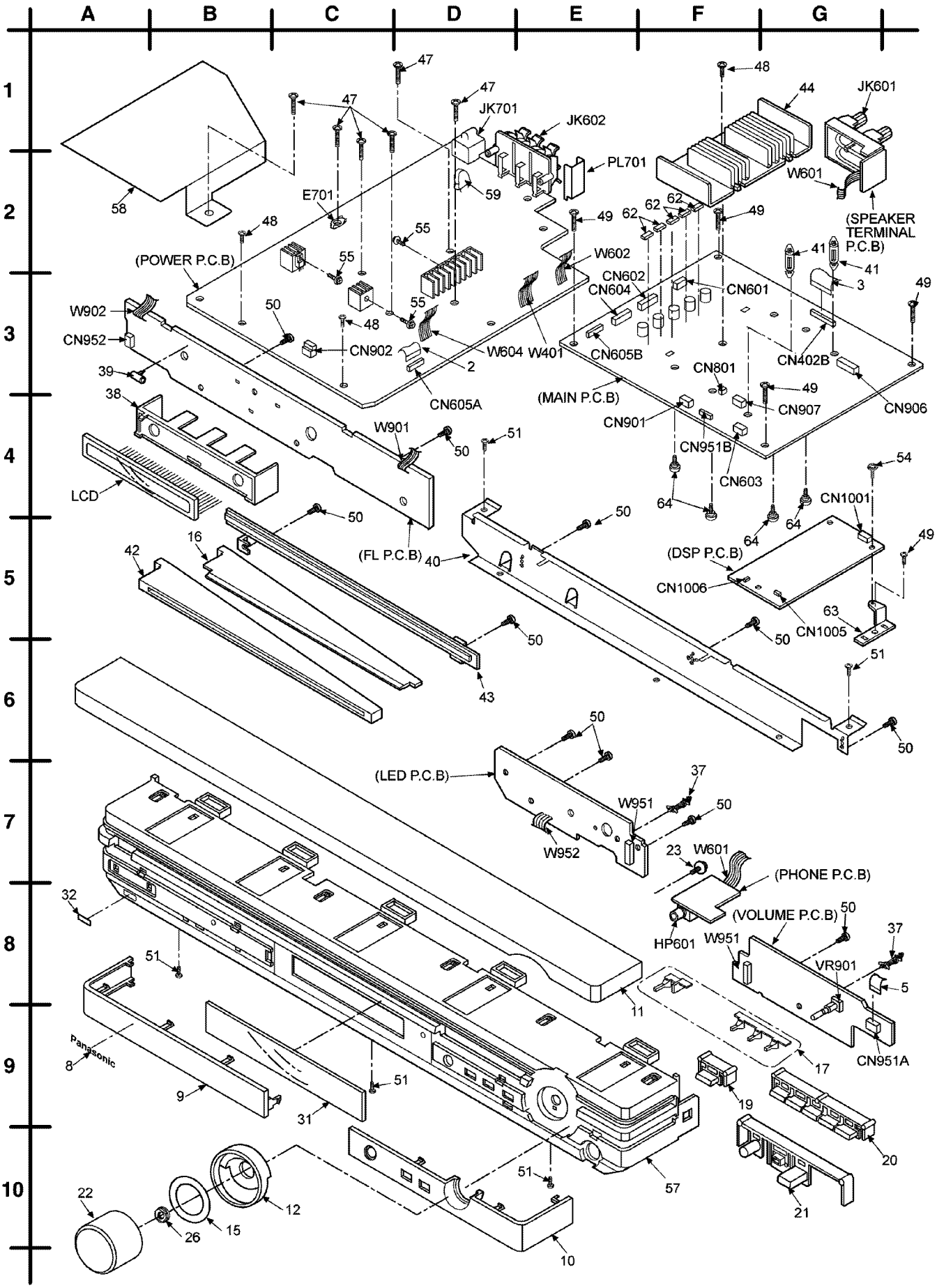
  When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)

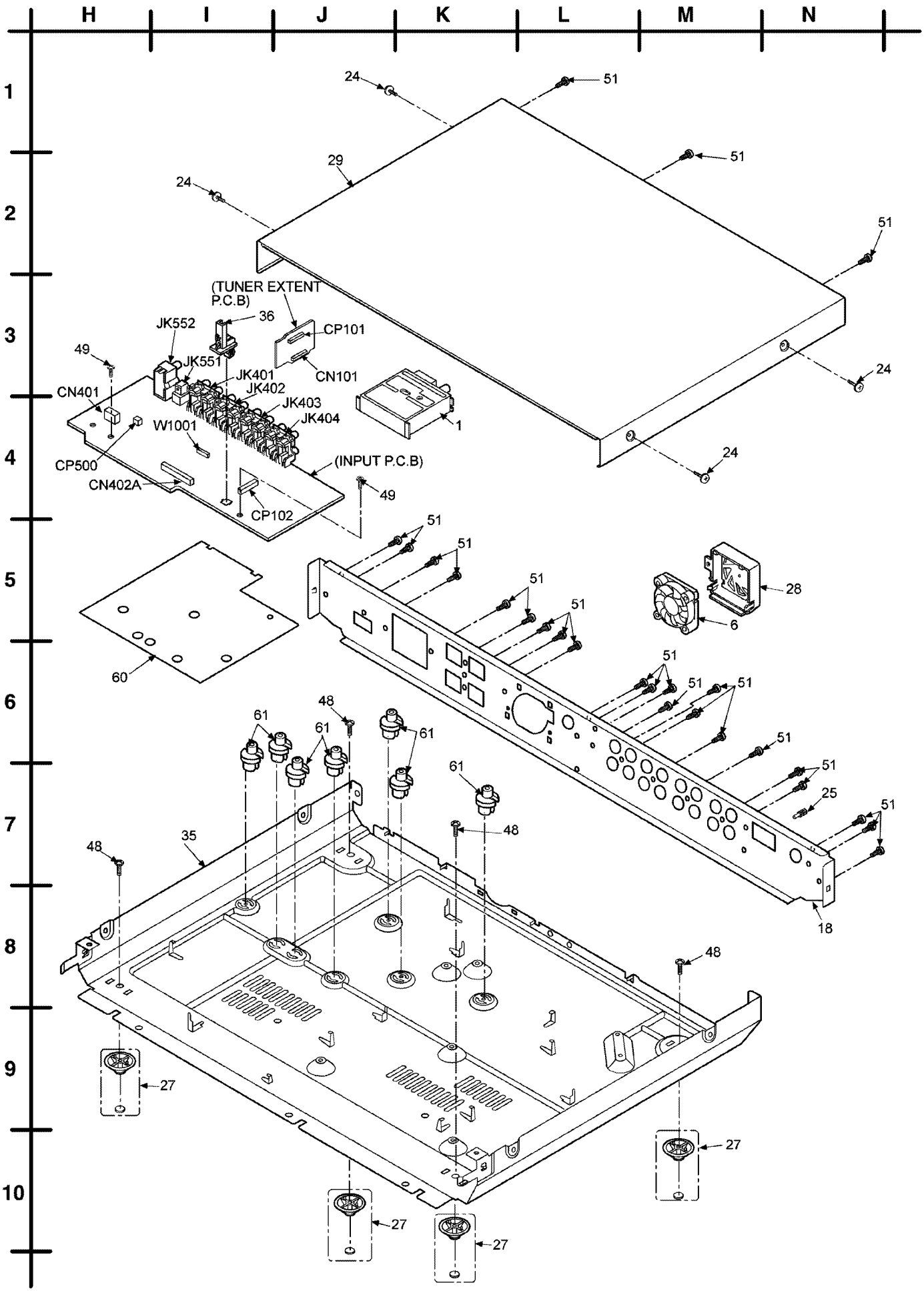
  Parts without these indications can be used for all areas.
- Capacitor values are in microfarads (μF) unless specified otherwise, P= Pico-farads (pF), F= Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- [M] Indicates in the Remarks columns indicates parts supplied by **PAVCSG.**
- Reference for O/I book languages are as follows:

Ar :	Arabic	Du :	Dutch	It :	Italian	Sp :	Spanish
Cf :	Canadian French	En :	English	Ko :	Korean	Sw :	Swedish
Cz :	Czech	Fr :	French	Po :	Polish	Co :	Traditional Chinese
Da :	Danish	Ge :	German	Ru :	Russian	Cn :	Simplified Chinese

16.1. Cabinet Parts Location

16.1.1. Cabinet




H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
10
24
51
29
(TUNER EXTENT P.C.B)
36
JK552
CP101
49
JK551
JK401
CN101
CN401
JK402
JK403
JK404
W1001
1
CP500
(INPUT P.C.B)
CN402A
CP102
60
28
6
61
48
25
18
35
27

16.1.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RAN0001MM-2	TUNER	[M]
2	REE1224	15P FFC WIRE	[M]
3	REEV0018	26P FFC	[M]
5	REEV0021	14P FFC WIRE	[M]
6	REM0104	SMALL FAN	[M]
8	RGB0145-N	PANASONIC BADGE	[M]
9	RGKV0011-K	FRONT ORNAMENT L	[M] K
9	RGKV0011-S	FRONT ORNAMENT L	[M] S
10	RGKV0012A-K	FRONT ORNAMENT R	[M] K
10	RGKV0012A-S	FRONT ORNAMENT R	[M] S
11	RGKV0013A-K	TOP ORNAMENT	[M] K
11	RGKV0013A-S	TOP ORNAMENT	[M] S
12	RGK1614-S	VOLUME RING	[M]
15	RGK1683-K	RING SHEET	[M]
16	RGL0618-Q	LIGHT GUIDE	[M]
17	RGL0621-Q	LED LIGHT GUIDE	[M]
18	RGRV0003B-A	REAR PANEL	[M] EG E
18	RGRV0003B-B	REAR PANEL	[M] EB-S
19	RGU2177A-K	POWER BUTTON	[M] S
19	RGU2177B-H	POWER BUTTON	[M] K
20	RGU2178A-K	TUNER BUTTON	[M] S
20	RGU2178B-H	TUNER BUTTON	[M] K
21	RGU2179A-K	SELECTOR BUTTON	[M] K
21	RGU2179A-S	SELECTOR BUTTON	[M] S
22	RGW0395-K	VOLUME KNOB	[M] K
22	RGW0395-S	VOLUME KNOB	[M] S
23	RHD26016	SCREW (PHONE JACK)	[M]
24	RHD30007-1S	SCREW	[M] S
24	RHD30007-K1	SCREW	[M] K
25	RHD30070	EARTH TERMINAL	[M]
26	RHN90001	M9 NUT	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
27	RKA0132-K	SET LEG UNIT	[M]
28	RKF0664-K	FAN COVER	[M]
29	RKM0481-K	TOP CABINET	[M] K
29	RKM0481-S	TOP CABINET	[M] S
31	RKWV0003-R	FL WINDOW	[M]
32	RKWV0005-K	REMOTE WINDOW	[M]
35	RFKJAXR15EGS	BOTTOM CHASSIS ASS'Y	[M] EG E
35	RFKJAXR15EBS	BOTTOM CAHSSIS ASS'Y	[M] EB-S
36	RMN0203	PCB SUPPORT	[M]
37	RMN0724	PCB HOLDER	[M]
38	RMN0740	FL HOLDER	[M]
39	RMN0747	LED HOLDER	[M]
40	RMQV0003	FRONT SHIELD ANGLE	[M]
41	RMR1359-W	PCB SUPPORT(DECODER)	[M]
42	RMR1517-W	REFLECTION PLATE A	[M]
43	RMR1518-W	REFLECTION PLATE B	[M]
44	RXXV0002	HEAT SINK UNIT	[M]
47	XTB3+12JFZ	SCREW	[M]
48	XTB3+6G	SCREW	[M]
49	XTB3+8JFZ	SCREW	[M]
50	XTBS26+10J	SCREW	[M]
51	XTBS3+8JFZ1	SCREW	[M]
54	XYB3+F8	SCREW	[M]
55	XYN3+F10	SCREW	[M]
57	RGPV0010A-H	FRONT PANEL	[M] K
57	RGPV0010A-K	FRONT PANEL	[M] S
58	RMZV0002	HEAT BARRIER 2	[M]
59	RMZ0339	RENER COVER	[M]
60	RMZV0001	HEAT BARRIER 1 [PWR]	[M]
61	RKQV0001	PCB SPACER	[M]
62	RMGV0001	RADIATION SHEET	[M]
63	RMNV0005	DECORDER ANGLE	[M]
64	RHD26038-K	SCREW	[M]

16.2. Components Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		P.C.B.	
	REP3484B-T	DSP (SIDE-A & SIDE-B) P.C.B.	[M] RTL
	REP3485B-M	DIGITAL AMP P.C.B.	[M] RTL
	REP3486B-S	INPUT P.C.B. / TUNER EXTENT P.C.B. / HEADPHONE P.C.B. / FL P.C.B. / VOLUME P.C.B. / LED P.C.B.	[M] RTL
	REP3487B-P	SPEAKER TERMINAL P.C.B. / POWER SUPPLY P.C.B.	[M] RTL
		INTEGRATED CIRCUITS	
IC101	C1BB00000462	IC RDS	[M]
IC201	C0FBBK000035	IC D/A CONVERTER	[M]
IC202	C0FBBK000035	IC D/A CONVERTER	[M]
IC281	C0ABBB000127	IC OP AMP	[M]
IC282	C0ABBB000127	IC OP AMP	[M]
IC301	C1AB00000166	IC VIDEO SELECTOR	[M]
IC401	C0JZAS000002	IC SELECTOR	[M]
IC433	C0ABBB000125	IC OP AMP	[M]
IC435	C0ABBB000102	IC OP AMP	[M]
IC438	C0ABBB000102	IC OP AMP	[M]
IC551	TC7SHU04F	IC INVERTER	[M]
IC601	C1BB00000767	IC 6CH PWM PROCESSOR	[M]
IC602	C0ZBZ0000708	IC DIGITAL AMP	[M]
IC603	C0ZBZ0000708	IC DIGITAL AMP	[M]
IC604	C0ZBZ0000708	IC DIGITAL AMP	[M]
IC605	C0ZBZ0000708	IC DIGITAL AMP	[M]
IC606	C0ZBZ0000708	IC DIGITAL AMP	[M]
IC607	C0JBZZ000138	IC AND GATE	[M]
IC608	C0JBAB000202	IC INVERTER GATE	[M]
IC609	C0JBAB000202	IC INVERTER GATE	[M]
IC611	C0CBABG00006	IC 3.3V REGULATOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC612	C0DBZZF00001	IC DC-DC CONVERTER	[M]
IC613	C0JBAA000244	IC QUAD AND GATE	[M]
IC614	C0JBZZ000138	IC AND GATE	[M]
IC615	C0JBZZ000138	IC AND GATE	[M]
IC701	C1DA00000248	IC SWITCHING POWER	[M]
IC702	C0DAEZC00003	IC DIGITAL INPUT	[M]
IC703	C0ABBA000073	IC OP AMP	[M]
IC731	C0DACZZ00007	IC PWM CONTROLLER	[M]
IC732	C0CBADC00042	IC REGULATOR	[M]
IC801	C2BBGF000440	IC MICRO PROCESSOR	[M]
IC901	C0HBB0000022	IC FL DRIVER	[M]
IC1001	C3FBKC000103	IC OCTAL BUFFERS	[M]
IC1002	C0JBAB000371	IC LOGIC INVERTER	[M]
IC1003	C0JBAB000423	IC INVERTER	[M]
IC1004	C0JBAR000308	IC LOGIC	[M]
IC1005	C0JBAF000367	IC LOGIC	[M]
IC1006	C2HBZZ000012	IC DSP	[M]
IC1007	C1BB00000692	IC DIR	[M]
IC1008	C0JBAR000308	IC LOGIC	[M]
IC1010	C0JBAZ001003	IC LEVEL SHIFTER	[M]
IC1011	C0JBAZ001437	IC BUS DRIVER	[M]
IC1014	C2BBGF000441	IC MICRO-P	[M]
IC1015	C0FBAK000010	IC A/D CONVERTER	[M]
IC1016	C0JBAZ001003	IC OCTAL BUFFERS/DRIVERS	[M]
		TRANSISTORS	
Q101	2SD592AQRSTA	TRANSISTOR	[M]
Q301	2SD592AQRSTA	TRANSISTOR	[M]
Q302	2SB621ARSTA	TRANSISTOR	[M]
Q433	B1GFGCAA0001	TRANSISTOR	[M]
Q436	UNR211500L	TRANSISTOR	[M]
Q437	B1ABEC000005	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q521	2SB621ARSTA	TRANSISTOR	[M]
Q522	2SC2412KT96R	TRANSISTOR	[M]
Q523	2SC2412KT96R	TRANSISTOR	[M]
Q524	2SC2412KT96R	TRANSISTOR	[M]
Q630	B1GDCFJJ0008	TRANSISTOR	[M]
Q631	B1GFGCAA0001	TRANSISTOR	[M]
Q632	B1GFGCAA0001	TRANSISTOR	[M]
Q633	B1GFGCAA0001	TRANSISTOR	[M]
Q634	B1GDCFJJ0008	TRANSISTOR	[M]
Q635	B1GDCFJJ0008	TRANSISTOR	[M]
Q636	B1GDCFJJ0008	TRANSISTOR	[M]
Q640	B1ABCF000079	TRANSISTOR	[M]
Q701	B1BACJ000005	TRANSISTOR	[M]
Q702	2SC2412KT96R	TRANSISTOR	[M]
Q703	2SC2412KT96R	TRANSISTOR	[M]
Q705	B1ADCF000001	TRANSISTOR	[M]
Q721	RVTDTC114EST	TRANSISTOR	[M]
Q722	RVTDTC114EST	TRANSISTOR	[M]
Q723	B1AAGC000006	TRANSISTOR	[M]
Q724	2SC3940ARA	TRANSISTOR	[M]
Q731	B1DEGL000004	TRANSISTOR	[M]
Q732	2SC2412KT96R	TRANSISTOR	[M]
Q733	B1GBCFJA0002	TRANSISTOR	[M]
Q734	2SC3940ARA	TRANSISTOR	[M]
Q770	2SD2374PQAU	TRANSISTOR	[M]
Q801	B1GBCFLL0012	TRANSISTOR	[M]
Q802	B1ABCF000079	TRANSISTOR	[M]
Q901	RVTDTA114EST	TRANSISTOR	[M]
Q902	B1GACFJN0007	TRANSISTOR	[M]
Q903	2SC3311ARTA	TRANSISTOR	[M]
Q904	2SC3311ARTA	TRANSISTOR	[M]
Q905	RVTDTA114EST	TRANSISTOR	[M]
Q1001	B1GDCFJN0001	TRANSISTOR	[M]
		DIODES	
D101	MAZ80750ML	DIODE	[M]
D102	MAZ80510LL	DIODE	[M]
D301	MA2J11100L	DIODE	[M]
D302	MA2J11100L	DIODE	[M]
D303	MAZ80560ML	DIODE	[M]
D304	MAZ80560ML	DIODE	[M]
D521	B0ADCJ000020	DIODE	[M]
D522	B0ADCJ000020	DIODE	[M]
D601	B0ACCK000005	DIODE	[M]
D602	B0ACCK000005	DIODE	[M]
D603	B0ACCK000005	DIODE	[M]
D606	B0ACCK000005	DIODE	[M]
D607	B0ACCK000005	DIODE	[M]
D609	B0ACCK000005	DIODE	[M]
D610	B0ACCK000005	DIODE	[M]
D701	B0FFAR000001	DIODE	[M]
D702	B0ZAZ0000052	DIODE	[M]
D703	B0BA03000015	DIODE	[M]
D704	B0JAMD000005	DIODE	[M]
D705	B0HAJM000005	DIODE	[M]
D706	B0HAJM000005	DIODE	[M]
D707	MTZJ39DTA	DIODE	[M]
D708	B0BA01800019	DIODE	[M]
D709	B0AACK000004	DIODE	[M]
D710	B0HAJM000005	DIODE	[M]
D711	B0HASM000005	DIODE	[M]
D713	B0HAJM000005	DIODE	[M]
D721	1SR35400V	DIODE	[M]
D722	1SR35400V	DIODE	[M]
D723	1SR35400V	DIODE	[M]
D724	1SR35400V	DIODE	[M]
D725	B0BA6R200012	DIODE	[M]
D726	B0BA01500036	DIODE	[M]
D727	B0AACK000004	DIODE	[M]
D728	B0AACK000004	DIODE	[M]
D731	B0HAJM000005	DIODE	[M]
D732	B0JAMD000005	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D733	B0HAMM000074	DIODE	[M]
D734	B0HAMM000074	DIODE	[M]
D735	B0HAJM000005	DIODE	[M]
D736	B0HAJM000005	DIODE	[M]
D737	B0HAJM000005	DIODE	[M]
D738	1SR35400V	DIODE	[M]
D739	B0ACCK000005	DIODE	[M]
D740	B0HAMM000074	DIODE	[M]
D741	B0BA01800019	DIODE	[M]
D743	MAZ80560ML	DIODE	[M]
D744	B0ACCK000005	DIODE	[M]
D770	B0BA02200021	DIODE	[M]
D801	B0ACCE000003	DIODE	[M]
D802	B0ACCE000003	DIODE	[M]
D803	B0JCCE000002	DIODE	[M]
D804	B0ACCK000005	DIODE	[M]
D805	B0ACCK000005	DIODE	[M]
D810	B0ADCJ000012	DIODE	[M]
D811	B0ADCJ000012	DIODE	[M]
D820	B0ECKP000002	DIODE	[M]
D901	MAZ80560ML	DIODE	[M]
D902	LNG08ACYBZA1	DIODE	[M]
D941	B3AAA0000487	DIODE	[M]
D942	B0ACCK000005	DIODE	[M]
D943	B3AAA0000487	DIODE	[M]
D944	B3AAA0000487	DIODE	[M]
D945	B3AAA0000487	DIODE	[M]
D1006	B0ACCK000005	DIODE	[M]
D1007	B0ACCK000005	DIODE	[M]
D1008	B0ACCK000005	DIODE	[M]
		VARIABLE RESISTORS	
VR901	EVEKD2F3024B	VR ROTARY ENCODER	[M]
		SWITCHES	
S941	EVQ21405RJ	SW POWER	[M]
S961	EVQ21405RJ	SW BAND	[M]
S962	EVQ21405RJ	SW MEMORY	[M]
S963	EVQ21405RJ	SW PRESET	[M]
S964	EVQ21405RJ	SW TUNE DOWN	[M]
S965	EVQ21405RJ	SW TUNE UP	[M]
S966	EVQ21405RJ	SW SELECTOR	[M]
S969	EVQ21405RJ	SW ENCHANCE SURROUND	[M]
		CONNECTORS	
CN101	K1KB11A00020	11P CONNECTOR	[M]
CN401	K1MP07A00006	7P CONNECTOR	[M]
CN402A	K1MN26A00043	26P FFC CONNECTOR	[M]
CN402B	K1MN26A00043	26P FFC CONNECTOR	[M]
CN601	K1MP04A00007	4P CONNECTOR	[M]
CN602	K1MP06A00008	6P CONNECTOR	[M]
CN603	K1MP05A00009	5P CONNECTOR	[M]
CN604	K1MP06A00008	6P CONNECTOR	[M]
CN605A	K1MN15A00018	15P FFC CONNECTOR	[M]
CN605B	K1MN15A00018	15P FFC CONNECTOR	[M]
CN801	K1MN10A00030	10P FLT CONNECTOR	[M]
CN901	K1MP04A00007	4P CONNECTOR	[M]
CN902	K1MP05A00010	5P CONNECTOR	[M]
CN906	K1KA26A00089	26P CONNECTOR	[M]
CN907	K1KA10A00278	10P CONNECTOR	[M]
CN951A	K1MN14B00066	14P CONNECTOR	[M]
CN951B	K1MN14A00047	14P FFC CONNECTOR	[M]
CN952	K1MP04B00006	4P CONNECTOR	[M]
CN1001	K1KA06B00054	6P CONNECTOR	[M]
CN1002	K1KB26A00027	26P CONNECTOR	[M]
CN1003	K1KB10A00092	10P CONNECTOR	[M]
CN1005	K1MN10A00030	10P CONNECTOR	[M]
CN1006	K1MN10A00030	10P CONNECTOR	[M]
CP101	K1KA11A00093	11P CONNECTOR	[M]
CP102	K1KA11A00093	11P CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CP500	K1KA02A00008	FAN CONNECTOR	[M]
		COILS	
L101	G0A200D00002	RF CHOKE COIL	[M]
L102	J0JBC0000041	CHIP INDUCTOR	[M]
L103	J0JBC0000041	CHIP INDUCTOR	[M]
L301	J0JBC0000014	CHIP COIL	[M]
L302	J0JBC0000014	CHIP COIL	[M]
L303	J0JBC0000014	CHIP COIL	[M]
L304	J0JBC0000014	CHIP COIL	[M]
L305	J0JBC0000014	CHIP COIL	[M]
L551	VLQ0855M1R0T	CHIP INDUCTOR	[M]
L552	RLQZ150M-0	CHOKE COIL	[M]
L601	G0A100K00005	COIL	[M]
L602	G0A100K00005	COIL	[M]
L603	G0A100K00005	COIL	[M]
L604	G0A100K00005	COIL	[M]
L605	G0A100K00005	COIL	[M]
L606	G0A100K00005	COIL	[M]
L607	G0A100K00005	COIL	[M]
L608	G0A100K00005	COIL	[M]
L609	G0A100K00005	COIL	[M]
L610	G0A100K00005	COIL	[M]
L701	ELF15N050A	COMMON MODE COIL	[M] ⚠
L702	ELF21N015A	COMMON MODE COIL	[M] ⚠
L703	ELF21N015A	COMMON MODE COIL	[M] ⚠
L704	J0JKB0000020	EMI BEAD CORE	[M]
L731	G0A200D00002	RF CHOKE COIL	[M]
L732	G0A200D00002	RF CHOKE COIL	[M]
L733	G0A200D00002	RF CHOKE COIL	[M]
L734	G0A200D00002	RF CHOKE COIL	[M]
L735	G0A200D00002	RF CHOKE COIL	[M]
L770	G0A2R7L00001	COIL	[M]
L801	G1C4R7M00022	CHIP COIL	[M]
L962	J0JBC0000041	CHIP INDUCTOR	[M]
L963	J0JBC0000041	CHIP INDUCTOR	[M]
L991	J0JBC0000033	CHIP INDUCTOR	[M]
L992	J0JBC0000033	CHIP INDUCTOR	[M]
L993	J0JBC0000033	CHIP INDUCTOR	[M]
L994	J0JBC0000033	CHIP INDUCTOR	[M]
L1001	G1C2R2K00008	CHIP INDUCTOR	[M]
L1002	G1C2R2K00008	CHIP INDUCTOR	[M]
L1003	G1C2R2K00008	CHIP INDUCTOR	[M]
L1005	G1C2R2K00008	CHIP INDUCTOR	[M]
L1006	G1C2R2K00008	CHIP INDUCTOR	[M]
L1007	G1C2R2K00008	CHIP INDUCTOR	[M]
L1008	G1C2R2K00008	CHIP INDUCTOR	[M]
L1009	G1C2R2K00008	CHIP INDUCTOR	[M]
L1010	G1C2R2K00008	CHIP INDUCTOR	[M]
L1011	G1C2R2K00008	CHIP INDUCTOR	[M]
L1014	G1C2R2K00008	CHIP INDUCTOR	[M]
L1015	G1C2R2K00008	CHIP INDUCTOR	[M]
L1016	G1C2R2K00008	CHIP INDUCTOR	[M]
L1017	G1C2R2K00008	CHIP INDUCTOR	[M]
L1018	G1C2R2K00008	CHIP INDUCTOR	[M]
		TRANSFORMER	
T701	ETS42AT146AH	SW TRANSFORMER	[M] ⚠
T721	ETP28KBZ21JU	TRANSFORMER	[M] ⚠
T731	ETS28AU219AD	SWITCHING TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z202	J0JBC0000041	CHIP INDUCTOR	[M]
Z203	J0JBC0000041	CHIP INDUCTOR	[M]
Z204	J0JBC0000041	CHIP INDUCTOR	[M]
Z205	J0JBC0000041	CHIP INDUCTOR	[M]
Z206	J0JBC0000041	CHIP INDUCTOR	[M]
Z207	J0JBC0000041	CHIP INDUCTOR	[M]
Z208	J0JBC0000041	CHIP INDUCTOR	[M]
Z209	J0JBC0000041	CHIP INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Z210	J0JBC0000041	CHIP INDUCTOR	[M]
Z211	J0JBC0000041	CHIP INDUCTOR	[M]
Z212	J0JBC0000041	CHIP INDUCTOR	[M]
Z213	J0JBC0000041	CHIP INDUCTOR	[M]
Z214	J0JBC0000041	CHIP INDUCTOR	[M]
Z215	J0JBC0000041	CHIP INDUCTOR	[M]
Z216	J0JBC0000041	CHIP INDUCTOR	[M]
Z217	J0JBC0000041	CHIP INDUCTOR	[M]
Z218	J0JBC0000041	CHIP INDUCTOR	[M]
Z219	J0JBC0000041	CHIP INDUCTOR	[M]
Z220	J0JBC0000041	CHIP INDUCTOR	[M]
Z221	J0JBC0000041	CHIP INDUCTOR	[M]
Z701	ERZV10V511CS	ZENER	[M] ⚠
Z801	J0JGC0000017	FERRITE BEAD	[M]
Z802	J0JGC0000017	FERRITE BEAD	[M]
Z901	B3RAD0000035	REMOTE SENSOR	[M]
Z1001	ERJ3GEY0R00Z	0 1/16W	[M]
Z1002	ERJ3GEY0R00Z	0 1/16W	[M]
Z1003	ERJ3GEY0R00Z	0 1/16W	[M]
Z1004	ERJ3GEY0R00Z	0 1/16W	[M]
Z1005	ERJ3GEY0R00Z	0 1/16W	[M]
Z1006	ERJ3GEY0R00Z	0 1/16W	[M]
Z1007	J0JCC0000119	FERRITE BEAD	[M]
Z1163	ERJ3GEY0R00Z	0 1/16W	[M]
PC701	B3PAA0000175	OPTICAL COUPLER	[M] ⚠
		HEAT SINK	
HS701	RMY0316	POWER HEAT SINK	[M]
HS702	RMY0281	POWER HEATSINK	[M]
HS704	RMY0281	POWER HEATSINK	[M]
		CERAMIC FILTERS	
CF1001	H2D163500001	CERAMIC RESONATOR	[M]
		RELAY	
RLY721	RSY0040M-0	POWER RELAY	[M] ⚠
		OSCILLATORS	
X101	H0H433400001	CRYSTAL OSCILLATOR	[M]
X901	H2D100500004	CHIP RESONATOR	[M]
X1001	H0J245500035	CRYSTAL OSCILLATOR	[M]
X1002	H0J240500015	CRYSTAL OSCILLATOR	[M]
		DISPLAY TUBE	
FL901	A2BB00000110	FL DISPLAY	[M]
		FUSES	
F1	XBA2C40TB0	FUSE	[M] ⚠
		FUSE HOLDERS	
FC701	EYF52BC	FUSE HOLDER	[M]
FC702	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP701	K5G102AA0002	FUSE PROTECTOR	[M] ⚠
		THERMISTOR	
TH701	D4CAC8R00002	POWER THERMISTOR	[M]
		JACKS	
JK401	K4BK04H00008	JK 4P RCA	[M]
JK402	K4BK04H00008	JK 4P RCA	[M]
JK403	K4BK04B00007	JK 4P RCA	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
JK404	K4BK04H00007	JK 4P RCA	[M]
JK551	K7ABBB000002	JK OPTICAL JACK [IN]	[M]
JK552	K2YZ02000028	JK DIGITAL INPUT	[M]
JK601	K4BB04B00003	JK SPEAKER TERMINAL	[M]
JK602	K4BC06B00025	JK SPEAKER TERMINAL	[M]
JK701	K2AA2B000004	JK AC INLET	[M] ⚠
HP601	K2HB106B0001	HEAD PHONE JACK	[M]
		EARTH TERMINAL	
E701	SNE1004-2	EARTH TERMINAL	[M]
PL602	RSCV0015	SPEAKER EARTH	[M]
		WIRES	
W401	RWJ1807100SQ	7P WIRE	[M]
W601	RWJ1804160SQ	4P FLAT WIRE	[M]
W602	REZ1372	EARTH WIRE	[M]
W602	RWJ1806160SQ	6P (POWER-DIGITAL)	[M]
W603	RWJ1805090SQ	5P FLAT (FL-MAIN)	[M]
W604	RWJ1806090SQ	6P FLAT WIRE	[M]
W901	RWJ1804100SQ	4P (FL-PANEL)	[M]
W902	RWJ1805090SQ	5P FLAT (FL-MAIN)	[M]
W951	REXV0012	5P (VOLUME-PANEL)	[M]
W952	RWJ1804100SQ	4P (FL-PANEL)	[M]
W953	REZ1372	EARTH WIRE	[M]
W954	REZ1372	EARTH WIRE	[M]
W1001	REX1149	SHIELD WIRE	[M]
		RESISTORS	
R101	ERJ3GEYJ222V	2.2K 1/16W	[M]
R102	ERJ3GEYJ473V	47K 1/16W	[M]
R103	ERJ3GEYJ473V	47K 1/16W	[M]
R104	ERJ3GEYJ471V	470 1/16W	[M]
R105	ERJ3GEYJ102V	1K 1/16W	[M]
R106	ERJ3GEYJ102V	1K 1/16W	[M]
R107	ERJ3GEYJ102V	1K 1/16W	[M]
R108	ERJ3GEYJ104V	100K 1/16W	[M]
R109	ERJ3GEYJ104V	100K 1/16W	[M]
R110	ERJ3GEYJ470V	47 1/16W	[M]
R111	ERDS1FVJ560T	56 1/2W	[M]
R112	ERDS1FVJ560T	56 1/2W	[M]
R191	ERJ3GEYJ102V	1K 1/16W	[M]
R196	ERJ3GEYJ102V	1K 1/16W	[M]
R197	ERJ3GEYJ102V	1K 1/16W	[M]
R198	ERJ3GEYJ102V	1K 1/16W	[M]
R200	ERJ3GEYJ334V	330K 1/16W	[M]
R201	ERJ3GEYJ221V	220 1/16W	[M]
R202	ERJ3GEYJ220V	22 1/16W	[M]
R203	ERJ3GEYJ1R0V	1 1/16W	[M]
R204	ERJ3GEYJ220V	22 1/16W	[M]
R205	ERJ3GEYJ101V	100 1/16W	[M]
R206	ERJ3GEYJ101V	100 1/16W	[M]
R207	ERJ3GEYJ101V	100 1/16W	[M]
R208	ERJ3GEYJ101V	100 1/16W	[M]
R209	ERJ3GEYJ101V	100 1/16W	[M]
R210	ERJ3GEYJ101V	100 1/16W	[M]
R211	ERJ3GEYJ473V	47K 1/16W	[M]
R212	ERJ3GEYJ103V	10K 1/16W	[M]
R213	ERJ3GEYJ103V	10K 1/16W	[M]
R214	ERJ3GEYJ103V	10K 1/16W	[M]
R215	ERJ3GEYJ101V	100 1/16W	[M]
R216	ERJ3GEYJ101V	100 1/16W	[M]
R217	ERJ3GEYJ103V	10K 1/16W	[M]
R218	ERJ3GEYJ103V	10K 1/16W	[M]
R219	ERJ3GEYJ103V	10K 1/16W	[M]
R220	ERJ3GEYJ103V	10K 1/16W	[M]
R221	ERJ3GEYJ101V	100 1/16W	[M]
R222	ERJ3GEYJ101V	100 1/16W	[M]
R223	ERJ3GEYJ101V	100 1/16W	[M]
R224	ERJ3GEYJ101V	100 1/16W	[M]
R225	ERJ3GEYJ101V	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R226	ERJ3GEYJ101V	100 1/16W	[M]
R227	ERJ3GEYJ101V	100 1/16W	[M]
R228	ERJ3GEYJ101V	100 1/16W	[M]
R229	ERJ3GEYJ101V	100 1/16W	[M]
R230	ERJ3GEYJ101V	100 1/16W	[M]
R231	ERJ3GEYJ101V	100 1/16W	[M]
R232	ERJ3GEYJ101V	100 1/16W	[M]
R233	ERJ3GEYJ101V	100 1/16W	[M]
R234	ERJ3GEYJ101V	100 1/16W	[M]
R235	ERJ3GEYJ101V	100 1/16W	[M]
R236	ERJ3GEYJ220V	22 1/16W	[M]
R237	ERJ3GEYJ151V	150 1/16W	[M]
R238	ERJ3GEYJ151V	150 1/16W	[M]
R240	ERJ3GEYJ100V	10 1/16W	[M]
R241	ERJ3GEYJ100V	10 1/16W	[M]
R242	ERJ3GEYJ100V	10 1/16W	[M]
R243	ERJ3GEYJ100V	10 1/16W	[M]
R244	ERJ3GEYJ100V	10 1/16W	[M]
R245	ERJ3GEYJ100V	10 1/16W	[M]
R246	ERJ3GEYJ100V	10 1/16W	[M]
R247	ERJ3GEYJ100V	10 1/16W	[M]
R248	ERJ3GEYJ100V	10 1/16W	[M]
R249	ERJ3GEYJ100V	10 1/16W	[M]
R250	ERJ3GEYJ133V	13K 1/16W	[M]
R251	ERJ3GEYJ133V	13K 1/16W	[M]
R252	ERJ3GEYJ133V	13K 1/16W	[M]
R253	ERJ3GEYJ133V	13K 1/16W	[M]
R254	ERJ3GEYJ133V	13K 1/16W	[M]
R255	ERJ3GEYJ133V	13K 1/16W	[M]
R256	ERJ3GEYJ133V	13K 1/16W	[M]
R257	ERJ3GEYJ133V	13K 1/16W	[M]
R258	ERJ3GEYJ133V	13K 1/16W	[M]
R259	ERJ3GEYJ133V	13K 1/16W	[M]
R260	ERJ3GEYJ224V	220K 1/16W	[M]
R265	ERJ3GEYJ151V	150 1/16W	[M]
R266	ERJ3GEYJ151V	150 1/16W	[M]
R267	ERJ3GEYJ151V	150 1/16W	[M]
R268	ERJ3GEYJ151V	150 1/16W	[M]
R269	ERJ3GEYJ151V	150 1/16W	[M]
R270	ERJ3GEYJ151V	150 1/16W	[M]
R271	ERJ3GEYJ103V	10K 1/16W	[M]
R272	ERJ3GEYJ103V	10K 1/16W	[M]
R273	ERJ3GEYJ562V	5.6K 1/16W	[M]
R274	ERJ3GEYJ562V	5.6K 1/16W	[M]
R275	ERJ3GEYJ562V	5.6K 1/16W	[M]
R276	ERJ3GEYJ562V	5.6K 1/16W	[M]
R277	ERJ3GEYJ151V	150 1/16W	[M]
R278	ERJ3GEYJ151V	150 1/16W	[M]
R279	ERJ3GEYJ104V	100K 1/16W	[M]
R280	ERJ3GEYJ104V	100K 1/16W	[M]
R281	ERJ3GEYJ473V	47K 1/16W	[M]
R282	ERJ3GEYJ473V	47K 1/16W	[M]
R283	ERJ3GEYJ151V	150 1/16W	[M]
R284	ERJ3GEYJ151V	150 1/16W	[M]
R285	ERJ3GEYJ103V	10K 1/16W	[M]
R286	ERJ3GEYJ472V	4.7K 1/16W	[M]
R287	ERJ3GEYJ103V	10K 1/16W	[M]
R288	ERJ3GEYJ473V	47K 1/16W	[M]
R289	ERJ3GEYJ334V	330K 1/16W	[M]
R290	ERJ3GEYJ473V	47K 1/16W	[M]
R291	ERJ3GEYJ102V	1K 1/16W	[M]
R292	ERJ3GEYJ474V	470K 1/16W	[M]
R293	ERJ3GEYJ474V	470K 1/16W	[M]
R294	ERJ3GEYJ101V	100 1/16W	[M]
R295	ERJ3GEYJ222V	2.2K 1/16W	[M]
R296	ERJ3GEYJ102V	1K 1/16W	[M]
R297	ERJ3GEYJ102V	1K 1/16W	[M]
R298	ERJ3GEYJ102V	1K 1/16W	[M]
R299	ERJ3GEYJ470V	47 1/16W	[M]
R301	ERJ3GEYJ750V	75 1/16W	[M]
R302	ERJ3GEYJ750V	75 1/16W	[M]
R303	ERJ3GEYJ750V	75 1/16W	[M]
R304	ERJ3GEYJ750V	75 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R305	ERJ3GEYJ750V	75 1/16W	[M]
R306	ERJ3GEYJ103V	10K 1/16W	[M]
R307	ERJ3GEYJ103V	10K 1/16W	[M]
R308	ERJ3GEYJ103V	10K 1/16W	[M]
R309	ERJ3GEYJ102V	1K 1/16W	[M]
R310	ERJ3GEYJ102V	1K 1/16W	[M]
R311	ERJ3GEYJ182V	1.8K 1/16W	[M]
R312	ERJ3GEYJ182V	1.8K 1/16W	[M]
R401	ERJ3GEYJ102V	1K 1/16W	[M]
R402	ERJ3GEYJ102V	1K 1/16W	[M]
R403	ERJ3GEYJ102V	1K 1/16W	[M]
R404	ERJ3GEYJ102V	1K 1/16W	[M]
R405	ERJ3GEYJ102V	1K 1/16W	[M]
R406	ERJ3GEYJ102V	1K 1/16W	[M]
R407	ERJ3GEYJ102V	1K 1/16W	[M]
R408	ERJ3GEYJ102V	1K 1/16W	[M]
R409	ERJ3GEYJ102V	1K 1/16W	[M]
R410	ERJ3GEYJ102V	1K 1/16W	[M]
R411	ERJ3GEYJ102V	1K 1/16W	[M]
R420	ERJ3GEYJ103V	10K 1/16W	[M]
R421	ERJ3GEYJ103V	10K 1/16W	[M]
R422	ERJ3GEYJ103V	10K 1/16W	[M]
R437	ERJ3GEYJ102V	1K 1/16W	[M]
R438	ERJ3GEYJ102V	1K 1/16W	[M]
R445	ERJ3GEYJ104V	100K 1/16W	[M]
R446	ERJ3GEYJ104V	100K 1/16W	[M]
R453	ERJ3GEYJ473V	47K 1/16W	[M]
R454	ERJ3GEYJ473V	47K 1/16W	[M]
R461	ERJ3GEYJ332V	3.3K 1/16W	[M]
R462	ERJ3GEYJ332V	3.3K 1/16W	[M]
R465	ERJ3GEYJ182V	1.8K 1/16W	[M]
R468	ERJ3GEYJ182V	1.8K 1/16W	[M]
R471	ERJ3GEYJ102V	1K 1/16W	[M]
R474	ERJ3GEYJ824V	820K 1/16W	[M]
R477	ERJ3GEYJ564V	560K 1/16W	[M]
R480	ERJ3GEYJ222V	2.2K 1/16W	[M]
R482	ERJ3GEYJ822V	8.2K 1/16W	[M]
R485	ERJ3GEYJ822V	8.2K 1/16W	[M]
R488	ERJ3GEYJ472V	4.7K 1/16W	[M]
R491	ERJ3GEYJ472V	4.7K 1/16W	[M]
R495	ERJ3GEYJ103V	10K 1/16W	[M]
R496	ERJ3GEYJ103V	10K 1/16W	[M]
R500	ERJ3GEYJ103V	10K 1/16W	[M]
R503	ERJ3GEYJ103V	10K 1/16W	[M]
R506	ERJ3GEYJ103V	10K 1/16W	[M]
R509	ERJ3GEYJ103V	10K 1/16W	[M]
R510	ERG3SJ470P	47 3W	[M]
R511	ERG3SJ470P	47 3W	[M]
R512	ERJ3GEYJ222V	2.2K 1/16W	[M]
R513	ERJ3GEYJ4R7V	4.7 1/16W	[M]
R521	ERJ6GEYJ100V	10 1/10W	[M]
R522	ERDS1FVJ220T	22 1/2W	[M]
R523	ERJ3GEYJ563V	56K 1/16W	[M]
R524	ERJ3GEYJ103V	10K 1/16W	[M]
R525	ERJ3GEYJ103V	10K 1/16W	[M]
R526	ERJ3GEYJ101V	100 1/16W	[M]
R527	ERJ3GEYJ563V	56K 1/16W	[M]
R528	ERJ3GEYJ562V	5.6K 1/16W	[M]
R529	ERJ3GEYJ563V	56K 1/16W	[M]
R530	ERJ3GEYJ563V	56K 1/16W	[M]
R531	ERJ3GEYJ563V	56K 1/16W	[M]
R551	ERJ3GEYJ470V	47 1/16W	[M]
R552	ERJ3GEYJ470V	47 1/16W	[M]
R553	ERJ3GEYJ750V	75 1/16W	[M]
R554	ERJ3GEYJ100V	10 1/16W	[M]
R555	ERJ3GEYJ103V	10K 1/16W	[M]
R601	ERJ8GEYJ1R5V	1.5 1/8W	[M]
R602	ERJ8GEYJ1R5V	1.5 1/8W	[M]
R603	ERJ8GEYJ1R5V	1.5 1/8W	[M]
R604	ERJ8GEYJ1R5V	1.5 1/8W	[M]
R605	ERJ8GEYJ1R5V	1.5 1/8W	[M]
R606	ERJ8GEYJ1R5V	1.5 1/8W	[M]
R607	ERJ8GEYJ1R5V	1.5 1/8W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R608	ERJ8GEYJ1R5V	1.5 1/8W	[M]
R609	ERJ8GEYJ1R5V	1.5 1/8W	[M]
R610	ERJ8GEYJ1R5V	1.5 1/8W	[M]
R611	D0GB4R7JA002	4.7 1/16W	[M]
R612	D0GB4R7JA002	4.7 1/16W	[M]
R613	D0GB4R7JA002	4.7 1/16W	[M]
R614	D0GB4R7JA002	4.7 1/16W	[M]
R615	D0GB4R7JA002	4.7 1/16W	[M]
R616	D0GB4R7JA002	4.7 1/16W	[M]
R617	D0GB4R7JA002	4.7 1/16W	[M]
R618	D0GB4R7JA002	4.7 1/16W	[M]
R619	D0GB4R7JA002	4.7 1/16W	[M]
R620	D0GB4R7JA002	4.7 1/16W	[M]
R621	ERJ3GEYJ1R0V	1 1/16W	[M]
R622	ERJ3GEYJ1R0V	1 1/16W	[M]
R623	ERJ3GEYJ1R0V	1 1/16W	[M]
R624	ERJ3GEYJ1R0V	1 1/16W	[M]
R625	ERJ3GEYJ1R0V	1 1/16W	[M]
R702	ERG2SJ683P	68K 2W	[M]
R703	ERDS2TJ681T	680 1/4W	[M]
R704	ERX2LJ82MP	0.82 2W	[M]
R705	ERX2LJ82MP	0.82 2W	[M]
R706	ERDS2TJ104T	100K 1/4W	[M]
R707	ERDS2TJ104T	100K 1/4W	[M]
R708	ERDS2TJ332T	3.3K 1/4W	[M]
R709	ERDS2TJ222T	2.2K 1/4W	[M]
R710	ERDS2TJ103T	10K 1/4W	[M]
R711	ERDS2TJ220T	22 1/4W	[M]
R712	ERDS2TJ272T	2.7K 1/4W	[M]
R713	ERDS2TJ102T	1K 1/4W	[M]
R714	ER0S2THF4701	47 1/4W	[M]
R715	ER0S2THF2201	22 1/4W	[M]
R716	ERDS2TJ152T	1.5K 1/4W	[M]
R717	ERJ3EKF3902V	39 3W	[M]
R718	ERJ3EKF6802V	68 3W	[M]
R719	ERJ3GEYJ473V	47K 1/16W	[M]
R720	ERJ3GEYJ332V	3.3K 1/16W	[M]
R721	ERJ3EKF6800V	68 3W	[M]
R722	ERJ3EKF6800V	68 3W	[M]
R723	ERDS2TJ103T	10K 1/4W	[M]
R724	ERDS2TJ103T	10K 1/4W	[M]
R725	ERDS2TJ222T	2.2K 1/4W	[M]
R726	ERDS2TJ332T	3.3K 1/4W	[M]
R727	ERDS2TJ102T	1K 1/4W	[M]
R728	ERDS2TJ220T	22 1/4W	[M]
R729	ERJ3EKF3901V	39 3W	[M]
R730	ERJ3GEYJ472V	4.7K 1/16W	[M]
R731	ERDS1FVJ222T	2.2K 1/2W	[M]
R732	ERX2LJ82MP	0.82 2W	[M]
R733	ERJ3EKF6801V	68 3W	[M]
R734	ERJ3EKF4701V	47 3W	[M]
R735	ERJ3GEYJ154V	150K 1/16W	[M]
R736	ERJ3GEYJ102V	1K 1/16W	[M]
R737	ERJ3GEYJ103V	10K 1/16W	[M]
R738	ERJ3GEYJ683V	68K 1/16W	[M]
R739	D0GB823JA002	82K 1/16W	[M]
R740	ERJ3GEYJ682V	6.8K 1/16W	[M]
R741	ERJ3GEYJ101V	100 1/16W	[M]
R743	ERDS1FVJ220T	22 1/2W	[M]
R744	ERDS1FVJ4R7T	4.7 1/2W	[M]
R745	ERJ3GEYJ223V	22K 1/16W	[M]
R746	ERJ3GEYJ683V	68K 1/16W	[M]
R747	D0GB124JA002	120K 1/16W	[M]
R748	ERJ3GEYJ223V	22K 1/16W	[M]
R749	ERDS2TJ154T	150K 1/4W	[M]
R750	ERJ3GEYJ222V	2.2K 1/16W	[M]
R751	ERJ3GEYJ473V	47K 1/16W	[M]
R752	ERJ3GEYJ473V	47K 1/16W	[M]
R770	ERQ16NKW2R2E	2.2 1/6W	[M]
R771	ERJ3GEYJ222V	2.2K 1/16W	[M]
R772	ERJ3GEYJ471V	470 1/16W	[M]
R799	ERJ3GEYJ101V	100 1/16W	[M]
R800	ERJ3GEYJ101V	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R801	ERJ3GEYJ681V	680 1/16W	[M]
R802	ERJ3GEYJ331V	330 1/16W	[M]
R803	ERJ3GEYJ473V	47K 1/16W	[M]
R804	ERJ3GEYJ104V	100K 1/16W	[M]
R805	ERJ3GEYJ472V	4.7K 1/16W	[M]
R806	ERJ3GEYJ223V	22K 1/16W	[M]
R807	ERJ3GEYJ472V	4.7K 1/16W	[M]
R808	ERJ3GEYJ103V	10K 1/16W	[M]
R809	ERJ3GEYJ103V	10K 1/16W	[M]
R810	ERJ3GEYJ103V	10K 1/16W	[M]
R811	ERJ3GEYJ223V	22K 1/16W	[M]
R813	ERJ3GEYJ473V	47K 1/16W	[M]
R814	ERJ3GEYJ223V	22K 1/16W	[M]
R815	ERJ3GEYJ103V	10K 1/16W	[M]
R816	ERJ3GEYJ103V	10K 1/16W	[M]
R817	ERJ3GEYJ473V	47K 1/16W	[M]
R818	ERJ3GEYJ473V	47K 1/16W	[M]
R819	ERJ3GEYJ473V	47K 1/16W	[M]
R820	ERJ3GEYJ470V	47 1/16W	[M]
R821	ERJ3GEYJ470V	47 1/16W	[M]
R822	ERJ3GEYJ470V	47 1/16W	[M]
R823	ERJ3GEYJ470V	47 1/16W	[M]
R824	ERJ3GEYJ470V	47 1/16W	[M]
R825	ERJ3GEYJ470V	47 1/16W	[M]
R826	ERJ3GEYJ470V	47 1/16W	[M]
R827	ERJ3GEYJ470V	47 1/16W	[M]
R830	ERJ3GEYJ101V	100 1/16W	[M]
R831	ERJ3GEYJ101V	100 1/16W	[M]
R832	ERJ3GEYJ101V	100 1/16W	[M]
R833	ERJ3GEYJ101V	100 1/16W	[M]
R834	ERJ3GEYJ101V	100 1/16W	[M]
R835	ERJ3GEYJ101V	100 1/16W	[M]
R836	ERJ3GEYJ101V	100 1/16W	[M]
R837	ERJ3GEYJ101V	100 1/16W	[M]
R838	ERJ3GEYJ101V	100 1/16W	[M]
R839	ERJ3GEYJ101V	100 1/16W	[M]
R840	ERJ3GEYJ101V	100 1/16W	[M]
R841	ERJ3GEYJ101V	100 1/16W	[M]
R842	ERJ3GEYJ101V	100 1/16W	[M]
R843	ERJ3GEYJ101V	100 1/16W	[M]
R844	ERJ3GEYJ101V	100 1/16W	[M]
R845	ERJ3GEYJ101V	100 1/16W	[M]
R846	ERJ3GEYJ101V	100 1/16W	[M]
R847	ERJ3GEYJ101V	100 1/16W	[M]
R848	ERJ3GEYJ101V	100 1/16W	[M]
R849	ERJ3GEYJ101V	100 1/16W	[M]
R850	ERJ3GEYJ101V	100 1/16W	[M]
R851	ERJ3GEYJ101V	100 1/16W	[M]
R852	ERJ3GEYJ101V	100 1/16W	[M]
R853	ERJ3GEYJ101V	100 1/16W	[M]
R854	ERJ3GEYJ101V	100 1/16W	[M]
R855	ERJ3GEYJ101V	100 1/16W	[M]
R856	ERJ3GEYJ101V	100 1/16W	[M]
R857	ERJ3GEYJ101V	100 1/16W	[M]
R858	ERJ3GEYJ101V	100 1/16W	[M]
R859	ERJ3GEYJ101V	100 1/16W	[M]
R860	ERJ3GEYJ101V	100 1/16W	[M]
R861	ERJ3GEYJ101V	100 1/16W	[M]
R862	ERJ3GEYJ101V	100 1/16W	[M]
R863	ERJ3GEYJ101V	100 1/16W	[M]
R864	ERJ3GEYJ101V	100 1/16W	[M]
R865	ERJ3GEYJ101V	100 1/16W	[M]
R866	ERJ3GEYJ101V	100 1/16W	[M]
R867	ERJ3GEYJ101V	100 1/16W	[M]
R868	ERJ3GEYJ101V	100 1/16W	[M]
R869	ERJ3GEYJ101V	100 1/16W	[M]
R870	ERJ3GEYJ101V	100 1/16W	[M]
R871	ERJ3GEYJ101V	100 1/16W	[M]
R872	ERJ3GEYJ101V	100 1/16W	[M]
R874	ERJ3GEYJ102V	1K 1/16W	[M]
R875	ERJ3GEYJ103V	10K 1/16W	[M]
R876	ERJ3GEYJ101V	100 1/16W	[M]
R877	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R878	ERJ3GEYJ101V	100 1/16W	[M]
R879	ERJ3GEYJ473V	47K 1/16W	[M]
R880	ERJ3GEYJ224V	220K 1/16W	[M]
R881	ERJ3GEYJ183V	18K 1/16W	[M]
R882	ERJ3GEYJ183V	18K 1/16W	[M]
R883	ERJ3GEYJ473V	47K 1/16W	[M]
R884	ERJ3GEYJ473V	47K 1/16W	[M]
R885	ERJ3GEYJ183V	18K 1/16W	[M]
R886	ERJ3GEYJ183V	18K 1/16W	[M]
R887	ERJ3GEYJ473V	47K 1/16W	[M]
R888	ERJ3GEYJ473V	47K 1/16W	[M]
R893	ERJ3GEYJ473V	47K 1/16W	[M]
R894	ERJ3GEYJ752V	7.5K 1/16W	[M]
R895	ERJ3GEYJ101V	100 1/16W	[M]
R896	ERJ3GEYJ101V	100 1/16W	[M]
R901	ERJ3GEYJ101V	100 1/16W	[M]
R902	ERJ3GEYJ104V	100K 1/16W	[M]
R903	ERJ6GEY0R00V	0 1/10W	[M]
R905	D0GB823JA002	82K 1/16W	[M]
R906	ERJ3GEYJ102V	1K 1/16W	[M]
R907	ERJ3GEYJ102V	1K 1/16W	[M]
R908	ERJ3GEYJ102V	1K 1/16W	[M]
R909	ERJ3GEYJ101V	100 1/16W	[M]
R910	ERJ3GEYJ101V	100 1/16W	[M]
R911	ERJ3GEYJ101V	100 1/16W	[M]
R912	ERJ3GEYJ271V	270 1/16W	[M]
R913	ERJ3GEYJ150V	15 1/16W	[M]
R914	ERJ3GEYJ150V	15 1/16W	[M]
R941	ERJ3GEYJ271V	270 1/16W	[M]
R942	ERJ3GEYJ822V	8.2K 1/16W	[M]
R943	ERJ3GEYJ271V	270 1/16W	[M]
R944	ERJ3GEYJ271V	270 1/16W	[M]
R945	ERJ3GEYJ271V	270 1/16W	[M]
R946	ERJ3GEYJ221V	220 1/16W	[M]
R961	ERJ3GEYJ102V	1K 1/16W	[M]
R962	ERJ3GEYJ122V	1.2K 1/16W	[M]
R963	ERJ3GEYJ152V	1.5K 1/16W	[M]
R964	ERJ3GEYJ182V	1.8K 1/16W	[M]
R965	ERJ3GEYJ222V	2.2K 1/16W	[M]
R966	ERJ3GEYJ102V	1K 1/16W	[M]
R967	ERJ3GEYJ122V	1.2K 1/16W	[M]
R968	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1001	ERJ3GEYJ103V	10K 1/16W	[M]
R1002	ERJ3GEYJ101V	100 1/16W	[M]
R1003	ERJ3GEYJ101V	100 1/16W	[M]
R1004	ERJ3GEYJ101V	100 1/16W	[M]
R1005	ERJ3GEYJ101V	100 1/16W	[M]
R1006	ERJ3GEYJ101V	100 1/16W	[M]
R1007	ERJ3GEYJ101V	100 1/16W	[M]
R1008	ERJ3GEYJ101V	100 1/16W	[M]
R1009	ERJ3GEYJ101V	100 1/16W	[M]
R1010	ERJ3GEYJ681V	680 1/16W	[M]
R1011	ERJ3GEYJ105V	1M 1/16W	[M]
R1012	ERJ3GEYJ105V	1M 1/16W	[M]
R1013	ERJ3GEYJ471V	470 1/16W	[M]
R1014	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1015	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1016	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1017	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1018	ERJ3GEYJ330V	33 1/16W	[M]
R1019	ERJ3GEYJ103V	10K 1/16W	[M]
R1020	ERJ3GEYJ103V	10K 1/16W	[M]
R1021	ERJ3GEYJ330V	33 1/16W	[M]
R1022	ERJ3GEYJ330V	33 1/16W	[M]
R1023	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1024	ERJ3GEYJ103V	10K 1/16W	[M]
R1025	ERJ3GEYJ103V	10K 1/16W	[M]
R1026	ERJ3GEYJ103V	10K 1/16W	[M]
R1027	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1028	ERJ3GEYJ103V	10K 1/16W	[M]
R1029	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1030	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1031	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1032	ERJ3GEYJ103V	10K 1/16W	[M]
R1033	ERJ3GEYJ103V	10K 1/16W	[M]
R1034	ERJ3GEYJ103V	10K 1/16W	[M]
R1035	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1036	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1037	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1038	ERJ3GEYJ103V	10K 1/16W	[M]
R1039	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1040	ERJ3GEYJ330V	33 1/16W	[M]
R1041	ERJ3GEYJ330V	33 1/16W	[M]
R1042	ERJ3GEYJ330V	33 1/16W	[M]
R1043	ERJ3GEYJ330V	33 1/16W	[M]
R1044	ERJ3GEYJ103V	10K 1/16W	[M]
R1045	ERJ3GEYJ103V	10K 1/16W	[M]
R1046	ERJ3GEYJ330V	33 1/16W	[M]
R1047	ERJ3GEYJ103V	10K 1/16W	[M]
R1048	ERJ3GEYJ330V	33 1/16W	[M]
R1049	ERJ3GEYJ103V	10K 1/16W	[M]
R1050	ERJ3GEYJ330V	33 1/16W	[M]
R1051	ERJ3GEYJ101V	100 1/16W	[M]
R1052	ERJ3GEYJ101V	100 1/16W	[M]
R1053	ERJ3GEYJ101V	100 1/16W	[M]
R1054	ERJ3GEYJ103V	10K 1/16W	[M]
R1055	ERJ3GEYJ103V	10K 1/16W	[M]
R1056	ERJ3GEYJ101V	100 1/16W	[M]
R1057	ERJ3GEYJ471V	470 1/16W	[M]
R1058	ERJ3GEYJ471V	470 1/16W	[M]
R1059	ERJ3GEYJ471V	470 1/16W	[M]
R1060	ERJ3GEYJ470V	47 1/16W	[M]
R1061	ERJ3GEYJ183V	18K 1/16W	[M]
R1062	ERJ3GEYJ302V	3K 1/16W	[M]
R1063	ERJ3GEYJ103V	10K 1/16W	[M]
R1064	ERJ3GEYJ103V	10K 1/16W	[M]
R1065	ERJ3GEYJ103V	10K 1/16W	[M]
R1066	ERJ3GEYJ103V	10K 1/16W	[M]
R1067	ERJ3GEYJ103V	10K 1/16W	[M]
R1068	ERJ3GEYJ103V	10K 1/16W	[M]
R1069	ERJ3GEYJ103V	10K 1/16W	[M]
R1070	ERJ3GEYJ103V	10K 1/16W	[M]
R1071	ERJ3GEYJ330V	33 1/16W	[M]
R1072	ERJ3GEYJ103V	10K 1/16W	[M]
R1073	ERJ3GEYJ330V	33 1/16W	[M]
R1074	ERJ3GEYJ330V	33 1/16W	[M]
R1075	ERJ3GEYJ103V	10K 1/16W	[M]
R1076	ERJ3GEYJ330V	33 1/16W	[M]
R1077	ERJ3GEYJ330V	33 1/16W	[M]
R1078	ERJ3GEYJ330V	33 1/16W	[M]
R1079	ERJ3GEYJ330V	33 1/16W	[M]
R1080	ERJ3GEYJ330V	33 1/16W	[M]
R1081	ERJ3GEYJ330V	33 1/16W	[M]
R1082	ERJ3GEYJ103V	10K 1/16W	[M]
R1083	ERJ3GEYJ103V	10K 1/16W	[M]
R1084	ERJ3GEYJ103V	10K 1/16W	[M]
R1085	ERJ3GEYJ103V	10K 1/16W	[M]
R1086	ERJ3GEYJ103V	10K 1/16W	[M]
R1087	ERJ3GEYJ103V	10K 1/16W	[M]
R1088	ERJ3GEYJ103V	10K 1/16W	[M]
R1089	ERJ3GEYJ103V	10K 1/16W	[M]
R1090	ERJ3GEYJ103V	10K 1/16W	[M]
R1091	ERJ3GEYJ330V	33 1/16W	[M]
R1092	ERJ3GEYJ330V	33 1/16W	[M]
R1093	ERJ3GEYJ330V	33 1/16W	[M]
R1094	ERJ3GEYJ330V	33 1/16W	[M]
R1095	ERJ3GEYJ330V	33 1/16W	[M]
R1096	ERJ3GEYJ330V	33 1/16W	[M]
R1098	ERJ3GEYJ104V	100K 1/16W	[M]
R1099	ERJ3GEYJ104V	100K 1/16W	[M]
R1103	ERJ3GEYJ102V	1K 1/16W	[M]
R1104	ERJ3GEYJ103V	10K 1/16W	[M]
R1105	ERJ3GEYJ103V	10K 1/16W	[M]
R1108	ERJ3GEYJ101V	100 1/16W	[M]
R1109	ERJ3GEYJ101V	100 1/16W	[M]
R1110	ERJ3GEYJ101V	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1111	ERJ3GEYJ101V	100 1/16W	[M]
R1112	ERJ3GEYJ101V	100 1/16W	[M]
R1113	ERJ3GEYJ101V	100 1/16W	[M]
R1114	ERJ3GEYJ101V	100 1/16W	[M]
R1115	ERJ3GEYJ101V	100 1/16W	[M]
R1118	ERJ3GEYJ102V	1K 1/16W	[M]
R1119	ERJ3GEYJ101V	100 1/16W	[M]
R1120	ERJ3GEYJ101V	100 1/16W	[M]
R1121	ERJ3GEYJ101V	100 1/16W	[M]
R1122	ERJ3GEYJ101V	100 1/16W	[M]
R1123	ERJ3GEYJ101V	100 1/16W	[M]
R1124	ERJ3GEYJ104V	100K 1/16W	[M]
R1125	ERJ3GEYJ101V	100 1/16W	[M]
R1126	ERJ3GEYJ102V	1K 1/16W	[M]
R1127	ERJ3GEYJ102V	1K 1/16W	[M]
R1128	ERJ3GEYJ101V	100 1/16W	[M]
R1129	ERJ3GEYJ102V	1K 1/16W	[M]
R1130	ERJ3GEYJ101V	100 1/16W	[M]
R1131	ERJ3GEYJ102V	1K 1/16W	[M]
R1132	ERJ3GEYJ102V	1K 1/16W	[M]
R1133	ERJ3GEYJ101V	100 1/16W	[M]
R1134	ERJ3GEYJ102V	1K 1/16W	[M]
R1135	ERJ3GEYJ101V	100 1/16W	[M]
R1136	ERJ3GEYJ101V	100 1/16W	[M]
R1137	ERJ3GEYJ101V	100 1/16W	[M]
R1138	ERJ3GEYJ101V	100 1/16W	[M]
R1139	ERJ3GEYJ101V	100 1/16W	[M]
R1140	ERJ3GEYJ101V	100 1/16W	[M]
R1141	ERJ3GEYJ103V	10K 1/16W	[M]
R1142	ERJ3GEYJ102V	1K 1/16W	[M]
R1143	ERJ3GEYJ101V	100 1/16W	[M]
R1144	ERJ3GEYJ102V	1K 1/16W	[M]
R1145	ERJ3GEYJ101V	100 1/16W	[M]
R1146	ERJ3GEYJ103V	10K 1/16W	[M]
R1147	ERJ3GEYJ101V	100 1/16W	[M]
R1148	ERJ3GEYJ151V	150 1/16W	[M]
R1149	ERJ3GEYJ101V	100 1/16W	[M]
R1150	ERJ3GEYJ101V	100 1/16W	[M]
R1151	ERJ3GEYJ151V	150 1/16W	[M]
R1156	ERJ3GEYJ101V	100 1/16W	[M]
R1157	ERJ3GEYJ103V	10K 1/16W	[M]
R1158	ERJ3GEYJ330V	33 1/16W	[M]
R1159	ERJ3GEYJ151V	150 1/16W	[M]
R1160	ERJ3GEYJ151V	150 1/16W	[M]
R1166	ERJ3GEYJ104V	100K 1/16W	[M]
R1167	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1168	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1169	ERJ3GEYJ330V	33 1/16W	[M]
R1170	ERJ3GEYJ330V	33 1/16W	[M]
R1171	ERJ3GEYJ103V	10K 1/16W	[M]
R1172	ERJ3GEYJ103V	10K 1/16W	[M]
R1182	ERJ3GEYJ330V	33 1/16W	[M]
R1183	ERJ3GEYJ330V	33 1/16W	[M]
R1184	ERJ3GEYJ330V	33 1/16W	[M]
R1185	ERJ3GEYJ330V	33 1/16W	[M]
R1186	ERJ3GEYJ330V	33 1/16W	[M]
R1187	ERJ3GEYJ330V	33 1/16W	[M]
		CAPACITORS	
C103	ECUV1H103KBV	0.01 50V	[M]
C104	ECA1CAK470XB	47 16V	[M]
C105	ECA1EAK100XB	10 25V	[M]
C106	ECJ1VB1H331K	330P 50V	[M]
C107	ECA1CAK470XB	47 16V	[M]
C108	ECJ1VB1H561K	560P 50V	[M]
C109	ECJ1VB1H102K	1000P 50V	[M]
C110	ECA1CAK470XB	47 16V	[M]
C111	ECJ1VB1H102K	1000P 50V	[M]
C112	ECUV1H103KBV	0.01 50V	[M]
C113	ECJ1VC1H470J	47P 50V	[M]
C114	ECJ1VC1H470J	47P 50V	[M]
C200	ECUV1H102JCV	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C201	ECUV1E473KBV	0.047 25V	[M]
C202	ECJ1VB1H472K	4700P 50V	[M]
C203	ECUV1C104KBV	0.1 16V	[M]
C204	ECUV1C104KBV	0.1 16V	[M]
C205	ECUV1C104KBV	0.1 16V	[M]
C206	ECUV1C104KBV	0.1 16V	[M]
C207	ECUV1C104KBV	0.1 16V	[M]
C208	ECUV1C104KBV	0.1 16V	[M]
C209	ECEV1CA100SR	10 16V	[M]
C212	ECST0GY106R	10 4V	[M]
C213	ECST0GY106R	10 4V	[M]
C214	ECUV1H102JCV	1000P 50V	[M]
C215	ECUV1H102JCV	1000P 50V	[M]
C216	ECUV1H102JCV	1000P 50V	[M]
C217	ECUV1C104KBV	0.1 16V	[M]
C218	ECUV1C104KBV	0.1 16V	[M]
C219	ECUV1C104KBV	0.1 16V	[M]
C220	ECEV1CA470SP	47 16V	[M]
C221	ECUV1C104KBV	0.1 16V	[M]
C222	ECEV1CA470SP	47 16V	[M]
C223	ECUV1C104KBV	0.1 16V	[M]
C224	ECUV1C104KBV	0.1 16V	[M]
C225	ECEV1HA2R2SR	2.2 50V	[M]
C226	ECEV1AA220WR	22 10V	[M]
C227	ECEV1AA220WR	22 10V	[M]
C228	ECEV1AA220WR	22 10V	[M]
C229	ECJ1VB0J105K	10 6.3V	[M]
C231	ECEV1CA100SR	10 16V	[M]
C232	ECUV1C104KBV	0.1 16V	[M]
C233	ECEV1CA100SR	10 16V	[M]
C234	ECEV1CA100SR	10 16V	[M]
C235	ECEV1CA100SR	10 16V	[M]
C236	ECUV1C104KBV	0.1 16V	[M]
C237	ECEV1CA100SR	10 16V	[M]
C238	ECEV1CA100SR	10 16V	[M]
C240	ECUV1H101JCV	100P 50V	[M]
C241	ECUV1H101JCV	100P 50V	[M]
C242	ECUV1C104KBV	0.1 16V	[M]
C243	ECUV1C104KBV	0.1 16V	[M]
C244	ECUV1H101JCV	100P 50V	[M]
C245	ECUV1C104KBV	0.1 16V	[M]
C246	ECUV1H101JCV	100P 50V	[M]
C247	ECUV1H101JCV	100P 50V	[M]
C248	ECUV1C104KBV	0.1 16V	[M]
C249	ECUV1C104KBV	0.1 16V	[M]
C271	ECEV1CA100SR	10 16V	[M]
C272	ECEV1CA100SR	10 16V	[M]
C273	ECUV1C104KBV	0.1 16V	[M]
C274	ECUV1C104KBV	0.1 16V	[M]
C275	ECUV1H102JCV	1000P 50V	[M]
C276	ECUV1H102JCV	1000P 50V	[M]
C277	ECUV1H220JCV	22P 50V	[M]
C278	ECUV1H220JCV	22P 50V	[M]
C279	ECEV1CA470SP	47 16V	[M]
C280	ECEV1CA470SP	47 16V	[M]
C281	ECJ1VB1H102K	1000P 50V	[M]
C282	ECJ1VB1H102K	1000P 50V	[M]
C283	ECUVNH103KBV	0.01 50V	[M]
C284	ECUVNH103KBV	0.01 50V	[M]
C285	ECEV1CA100SR	10 16V	[M]
C286	ECUV1C104KBV	0.1 16V	[M]
C287	ECUV1C104KBV	0.1 16V	[M]
C288	ECJ1VC1H331J	330P 50V	[M]
C289	ECUV1H561JCV	560P 50V	[M]
C290	ECEV1CA470SP	47 16V	[M]
C291	ECJ1VB1H102K	1000P 50V	[M]
C292	ECUVNH103KBV	0.01 50V	[M]
C295	ECUVNH103KBV	0.01 50V	[M]
C296	ECUVNH103KBV	0.01 50V	[M]
C298	ECUV1H104KBV	0.1 50V	[M]
C299	ECUV1H101JCV	100P 50V	[M]
C301	ECJ1VC1H470J	47P 50V	[M]
C302	ECJ1VC1H470J	47P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C303	ECA1CAK470XB	47 16V	[M]
C304	ECA1CAK470XB	47 16V	[M]
C305	ECA1CAK470XB	47 16V	[M]
C306	ECUV1H104KBV	0.1 50V	[M]
C307	ECUV1H104KBV	0.1 50V	[M]
C308	ECA0JAK101XB	100 6.3V	[M]
C309	ECA0JAK101XB	100 6.3V	[M]
C310	ECUV1H103KBV	0.01 50V	[M]
C311	ECA0JAK101XB	100 6.3V	[M]
C312	ECA0JAK101XB	100 6.3V	[M]
C313	ECUV1H103KBV	0.01 50V	[M]
C401	ECUV1H101JCV	100P 50V	[M]
C402	ECUV1H101JCV	100P 50V	[M]
C403	ECUV1H101JCV	100P 50V	[M]
C404	ECUV1H101JCV	100P 50V	[M]
C405	ECJ1VB1H331K	330P 50V	[M]
C406	ECJ1VB1H331K	330P 50V	[M]
C407	ECJ1VB1H331K	330P 50V	[M]
C408	ECJ1VB1H331K	330P 50V	[M]
C409	ECUV1H101JCV	100P 50V	[M]
C410	ECUV1H101JCV	100P 50V	[M]
C411	ECUV1H101JCV	100P 50V	[M]
C412	ECUV1H101JCV	100P 50V	[M]
C413	ECUV1H101JCV	100P 50V	[M]
C414	ECUV1H101JCV	100P 50V	[M]
C415	ECUV1H101JCV	100P 50V	[M]
C416	ECUV1H101JCV	100P 50V	[M]
C417	ECUV1H101JCV	100P 50V	[M]
C418	ECUV1H101JCV	100P 50V	[M]
C419	ECUV1H101JCV	100P 50V	[M]
C420	ECUV1H101JCV	100P 50V	[M]
C421	ECUV1H103KBV	0.01 50V	[M]
C422	ECJ1VB1H331K	330P 50V	[M]
C439	ECUV1H104KBV	0.1 50V	[M]
C440	ECUV1H104KBV	0.1 50V	[M]
C441	ECUV1H101JCV	100P 50V	[M]
C442	ECUV1H101JCV	100P 50V	[M]
C444	ECUV1H101JCV	100P 50V	[M]
C457	ECUV1H101JCV	100P 50V	[M]
C458	ECUV1H101JCV	100P 50V	[M]
C465	ECA1EAK100XB	10 25V	[M]
C466	ECA1EAK100XB	10 25V	[M]
C473	ECUV1H104KBV	0.1 50V	[M]
C474	ECUV1H104KBV	0.1 50V	[M]
C477	ECUV1H104KBV	0.1 50V	[M]
C479	ECUV1H104KBV	0.1 50V	[M]
C482	ECA1EAK100XB	10 25V	[M]
C485	ECA1EAK100XB	10 25V	[M]
C488	ECUV1H101JCV	100P 50V	[M]
C491	ECUV1H101JCV	100P 50V	[M]
C494	ECUV1H104KBV	0.1 50V	[M]
C497	ECA1EAK100XB	10 25V	[M]
C500	ECUV1H101JCV	100P 50V	[M]
C503	ECUV1H101JCV	100P 50V	[M]
C504	ECA1CAK470XB	47 16V	[M]
C505	ECA1CAK470XB	47 16V	[M]
C506	ECA1CAK470XB	47 16V	[M]
C521	ECA1CAK330XB	33 16V	[M]
C522	ECJ1VF1C474Z	0.47 16V	[M]
C523	ECA1VM221B	220 35V	[M]
C524	ECA1VM221B	220 35V	[M]
C551	ECUV1H104KBV	0.1 50V	[M]
C552	ECUV1H104KBV	0.1 50V	[M]
C553	ECUV1H104KBV	0.1 50V	[M]
C554	ECUV1H104KBV	0.1 50V	[M]
C555	ECUV1H104KBV	0.1 50V	[M]
C556	ECA0JAK101XB	100 6.3V	[M]
C557	ECUV1H104KBV	0.1 50V	[M]
C558	ECUV1H103KBV	0.01 50V	[M]
C601	ECUV1H104KBV	0.1 50V	[M]
C601	F1D1H102A012	1000P 50V	[M]
C602	ECUV1H104KBV	0.1 50V	[M]
C602	F1D1H102A012	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C603	ECJ2VB1H333K	0.033 50V	[M]
C603	F1D1H102A012	1000P 50V	[M]
C604	ECJ2VB1H333K	0.033 50V	[M]
C604	F1D1H102A012	1000P 50V	[M]
C605	ECJ2VB1H333K	0.033 50V	[M]
C605	F1D1H102A012	1000P 50V	[M]
C606	ECJ2VB1H333K	0.033 50V	[M]
C606	F1D1H102A012	1000P 50V	[M]
C607	ECUV1H104KBV	0.1 50V	[M]
C607	F1D1H102A012	1000P 50V	[M]
C608	ECUV1H104KBV	0.1 50V	[M]
C608	F1D1H102A012	1000P 50V	[M]
C609	ECUV1H104KBV	0.1 50V	[M]
C609	F1D1H102A012	1000P 50V	[M]
C610	ECJ2VB1H333K	0.033 50V	[M]
C610	F1D1H102A012	1000P 50V	[M]
C611	ECJ2VB1H333K	0.033 50V	[M]
C612	ECUV1H104KBV	0.1 50V	[M]
C613	ECUV1H104KBV	0.1 50V	[M]
C614	ECUV1H104KBV	0.1 50V	[M]
C615	ECJ2VB1H333K	0.033 50V	[M]
C616	ECJ2VB1H333K	0.033 50V	[M]
C617	ECJ2VB1H333K	0.033 50V	[M]
C618	ECJ2VB1H333K	0.033 50V	[M]
C619	ECUV1H104KBV	0.1 50V	[M]
C620	ECUV1H104KBV	0.1 50V	[M]
C621	ECUV1H104KBV	0.1 50V	[M]
C622	ECUV1H104KBV	0.1 50V	[M]
C623	ECUV1H104KBV	0.1 50V	[M]
C624	ECUV1H104KBV	0.1 50V	[M]
C625	ECUV1H104KBV	0.1 50V	[M]
C626	ECUV1H104KBV	0.1 50V	[M]
C627	ECUV1H104KBV	0.1 50V	[M]
C628	ECUV1H104KBV	0.1 50V	[M]
C629	ECUV1H104KBV	0.1 50V	[M]
C630	ECUV1H104KBV	0.1 50V	[M]
C631	ECJ2YB1H104K	0.1 50V	[M]
C632	ECJ2YB1H104K	0.1 50V	[M]
C633	ECJ2YB1H104K	0.1 50V	[M]
C634	ECJ2YB1H104K	0.1 50V	[M]
C635	ECJ2YB1H104K	0.1 50V	[M]
C636	ECJ2YB1H104K	0.1 50V	[M]
C637	ECJ2YB1H104K	0.1 50V	[M]
C638	ECJ2YB1H104K	0.1 50V	[M]
C639	ECJ2YB1H104K	0.1 50V	[M]
C640	ECJ2YB1H104K	0.1 50V	[M]
C641	ECQE1105KF	1 100V	[M]
C642	ECQE1105KF	1 100V	[M]
C643	ECQE1105KF	1 100V	[M]
C644	ECQE1105KF	1 100V	[M]
C645	ECQE1105KF	1 100V	[M]
C646	ECJ2YB1H104K	0.1 50V	[M]
C647	ECJ2YB1H104K	0.1 50V	[M]
C648	ECJ2YB1H104K	0.1 50V	[M]
C649	ECJ2YB1H104K	0.1 50V	[M]
C650	ECJ2YB1H104K	0.1 50V	[M]
C651	ECJ2YB1H104K	0.1 50V	[M]
C652	ECJ2YB1H104K	0.1 50V	[M]
C653	ECJ2YB1H104K	0.1 50V	[M]
C654	ECJ2YB1H104K	0.1 50V	[M]
C655	ECJ2YB1H104K	0.1 50V	[M]
C656	ECUV1H681KBV	680P 50V	[M]
C657	ECUV1H681KBV	680P 50V	[M]
C658	ECUV1H681KBV	680P 50V	[M]
C659	ECUV1H681KBV	680P 50V	[M]
C660	ECUV1H681KBV	680P 50V	[M]
C661	ECUV1H681KBV	680P 50V	[M]
C662	ECUV1H681KBV	680P 50V	[M]
C663	ECUV1H681KBV	680P 50V	[M]
C664	ECUV1H681KBV	680P 50V	[M]
C665	ECUV1H681KBV	680P 50V	[M]
C666	EEUPF1V102XE	1V0P 35V	[M]
C667	EEUPF1V102XE	1V0P 35V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C668	EEUPF1V102XE	1V0P 35V	[M]
C669	EEUPF1V102XE	1V0P 35V	[M]
C670	EEUPF1V102XE	1V0P 35V	[M]
C671	ECJ2YB1H104K	0.1 50V	[M]
C672	ECJ2YB1H104K	0.1 50V	[M]
C673	ECJ2YB1H104K	0.1 50V	[M]
C674	ECJ2YB1H104K	0.1 50V	[M]
C675	ECJ2YB1H104K	0.1 50V	[M]
C676	ECUV1H333KBV	0.033 50V	[M]
C677	ECUV1H333KBV	0.033 50V	[M]
C678	ECUV1H333KBV	0.033 50V	[M]
C679	ECUV1H333KBV	0.033 50V	[M]
C680	ECUV1H333KBV	0.033 50V	[M]
C681	ECQE1105KF	1 100V	[M]
C682	ECQE1105KF	1 100V	[M]
C683	ECQE1105KF	1 100V	[M]
C684	ECQE1105KF	1 100V	[M]
C685	ECQE1105KF	1 100V	[M] ⚠
C701	ECQU2A224MLC	0.22 100V	[M] ⚠
C702	ECQU2A224MLC	0.22 100V	[M] ⚠
C703	F1BAF471A013	470P 10V	[M] ⚠
C704	F1BAF471A013	470P 10V	[M] ⚠
C706	ECQU2A224MLC	0.22 100V	[M]
C707	EETBA2G181EA	180P 400V	[M]
C708	ECKR2H103ZU	0.01 500V	[M]
C709	F1D1H471A012	470P 50V	[M]
C710	ECKE3D821KBP	820 2000V	[M]
C711	ECA1EPX470B	47 25V	[M]
C712	F1D1H221A012	220P 50V	[M]
C713	F1D1H102A012	1000P 50V	[M]
C714	F1BAF1020011	1000P 10V	[M] ⚠
C715	ECKR2H103ZU	0.01 500V	[M]
C716	ECKR2H103ZU	0.01 500V	[M]
C717	EEUPF1V102XE	1000P 35V	[M]
C718	EEUPF1V102XE	1000P 35V	[M]
C719	ECA1HAM470XB	47 50V	[M]
C720	F1D1H102A012	1000P 50V	[M]
C721	ECJ1VF1C104Z	0.1 16V	[M]
C722	ECA1CAK220XB	22 16V	[M]
C723	ECJ1VB1H102K	1000P 50V	[M]
C724	ECBT1H103KB5	0.01 50V	[M]
C725	ECKWRS102MBC	1000P 400V	[M] ⚠
C726	ECA1HAK4R7XB	4.7 50V	[M]
C727	ECBT1H103KB5	0.01 50V	[M]
C728	ECA1CAM102XB	1000 16V	[M]
C729	ECBT1H103KB5	0.01 50V	[M]
C730	ECA1CAK100XB	10 16V	[M]
C731	ECA1HAK010XB	1 50V	[M]
C732	EEUFC1C102SE	1000P 16V	[M]
C733	ECUV1H332KBV	3300P 50V	[M]
C734	ECUV1H471KBV	470P 50V	[M]
C735	ECUV1H221KBV	220P 50V	[M]
C736	ECJ1VC1H102J	1000P 50V	[M]
C737	ECUV1H471KBV	470P 50V	[M]
C738	ECJ1VB1H472K	4700P 50V	[M]
C739	ECUV1H103KBV	0.01 50V	[M]
C740	ECUV1H103KBV	0.01 50V	[M]
C741	ECJ1VB1H102K	1000P 50V	[M]
C742	F1J2A1020002	1000P 100V	[M]
C743	F1J2A1020002	1000P 100V	[M]
C744	F1J2A1020002	1000P 100V	[M]
C745	ECJ1VB1H102K	1000P 50V	[M]
C746	EEUFC1A102B	1000P 10V	[M]
C747	ECA1HM471E	470 50V	[M]
C748	ECA1CPXS471B	470 16V	[M]
C749	ECA1VAM101XB	100 35V	[M]
C750	ECA1AAK221XB	220 10V	[M]
C751	ECA1CPX101B	100 16V	[M]
C752	ECA1CPX101B	100 16V	[M]
C753	ECA1CPX101B	100 16V	[M]
C754	ECJ1VF1C104Z	0.1 16V	[M]
C755	ECJ1VF1C104Z	0.1 16V	[M]
C756	ECA1HAK010XB	1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C757	ECA1HAK4R7XB	4.7 50V	[M]
C758	ECA1VAM101XB	100 35V	[M]
C759	ECA1EAM101XB	100 25V	[M]
C760	ECJ1VB1H102K	1000P 50V	[M]
C761	ECA1EAM331XB	330 25V	[M]
C762	ECBT1H103KB5	0.01 50V	[M]
C764	ECA1HAM101XB	100 50V	[M]
C765	ECA1HAK010XB	1 50V	[M]
C770	ECUV1H103KBV	0.01 50V	[M]
C771	ECA1EAK100XB	10 25V	[M]
C801	ECA0JAM102XE	1000 6.3V	[M]
C802	ECA0JAM102XE	1000 6.3V	[M]
C803	ECUV1C104KBV	0.1 16V	[M]
C804	ECUV1H102JCV	1000P 50V	[M]
C805	ECEV0JA101SP	100 6.3V	[M]
C806	ECEV1AA220WR	22 10V	[M]
C807	ECUV1H561JCV	560P 50V	[M]
C808	ECJ1VC1H561J	560P 50V	[M]
C809	ECUV1H102JCV	1000P 50V	[M]
C810	ECUVNH103KBV	0.01 50V	[M]
C811	ECUVNH103KBV	0.01 50V	[M]
C812	ECUVNH103KBV	0.01 50V	[M]
C813	ECEV1HA2R2SR	2.2 50V	[M]
C814	ECUVNH103KBV	0.01 50V	[M]
C815	ECUV1H103KBV	0.01 50V	[M]
C821	ECEV1HA2R2SR	2.2 50V	[M]
C822	ECEV1HA2R2SR	2.2 50V	[M]
C823	ECJ2YB1H104K	0.1 50V	[M]
C824	ECJ2YB1H104K	0.1 50V	[M]
C825	ECJ2YB1H104K	0.1 50V	[M]
C826	ECJ2YB1H104K	0.1 50V	[M]
C855	ECUV1H220JCV	22P 50V	[M]
C856	ECUV1H220JCV	22P 50V	[M]
C857	ECUV1H220JCV	22P 50V	[M]
C858	ECUV1H220JCV	22P 50V	[M]
C859	ECUV1H220JCV	22P 50V	[M]
C860	ECUV1H220JCV	22P 50V	[M]
C861	ECUV1H220JCV	22P 50V	[M]
C862	ECUV1H220JCV	22P 50V	[M]
C863	ECUV1H220JCV	22P 50V	[M]
C864	ECUV1H220JCV	22P 50V	[M]
C865	ECUV1H220JCV	22P 50V	[M]
C867	ECUV1H220JCV	22P 50V	[M]
C868	ECUV1H220JCV	22P 50V	[M]
C869	ECUV1H220JCV	22P 50V	[M]
C877	ECUV1C104KBV	0.1 16V	[M]
C896	F1J2E1030004	0.01 250V	[M]
C901	ECA1HAK220XB	22 50V	[M]
C902	ECA1HAK220XB	22 50V	[M]
C905	ECA1HAK100XB	10 50V	[M]
C906	ECA1HAK100XB	10 50V	[M]
C908	ECUV1H104KBV	0.1 50V	[M]
C909	ECUV1H104KBV	0.1 50V	[M]
C910	ECUV1H104KBV	0.1 50V	[M]
C912	ECJ1VB1H331K	330P 50V	[M]
C921	ECA1HAM101XB	100 50V	[M]
C941	ECUV1H103KBV	0.01 50V	[M]
C961	ECUV1H101JCV	100P 50V	[M]
C962	ECUV1H101JCV	100P 50V	[M]
C963	ECUV1H103KBV	0.01 50V	[M]
C993	F1H1H473A748	0.047 50V	[M]
C994	F1H1H473A748	0.047 50V	[M]
C998	ECJ1VC1H102J	1000P 50V	[M]
C1001	ECUVNC104KBV	0.1 16V	[M]
C1002	ECUVNC104KBV	0.1 16V	[M]
C1003	ECUVNC104KBV	0.1 16V	[M]
C1004	ECJ1VC1H120J	12P 50V	[M]
C1005	ECUVNC104KBV	0.1 16V	[M]
C1006	ECEV0JA470SR	47 6.3V	[M]
C1007	ECUV1H180JCV	18P 50V	[M]
C1008	ECJ1VC1H120J	12P 50V	[M]
C1009	ECUVNC104KBV	0.1 16V	[M]
C1010	ECUV1H180JCV	18P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1011	ECEV1CA100SR	10 16V	[M]
C1012	ECEV1CA100SR	10 16V	[M]
C1013	ECUV1H101JCV	100P 50V	[M]
C1014	ECUVNC104KBV	0.1 16V	[M]
C1015	ECUVNC104KBV	0.1 16V	[M]
C1016	ECUV1H330JCV	33P 50V	[M]
C1017	ECUVNC104KBV	0.1 16V	[M]
C1018	ECUV1H101JCV	100P 50V	[M]
C1019	ECUV1H100DCV	10P 50V	[M]
C1020	ECUVNC104KBV	0.1 16V	[M]
C1021	ECUVNC104KBV	0.1 16V	[M]
C1022	ECEV1CA100SR	10 16V	[M]
C1023	ECEV1CA100SR	10 16V	[M]
C1024	ECUVNC104KBV	0.1 16V	[M]
C1025	ECUV1H101JCV	100P 50V	[M]
C1026	ECUV1H101JCV	100P 50V	[M]
C1027	ECEV1CA100SR	10 16V	[M]
C1028	ECUVNC104KBV	0.1 16V	[M]
C1029	ECUVNC104KBV	0.1 16V	[M]
C1030	ECEV1CA100SR	10 16V	[M]
C1031	ECUV1H101JCV	100P 50V	[M]
C1032	ECUV1H101JCV	100P 50V	[M]
C1033	ECUV1H101JCV	100P 50V	[M]
C1034	ECUV1H101JCV	100P 50V	[M]
C1035	ECUVNC104KBV	0.1 16V	[M]
C1036	ECEV0JA470SR	47 6.3V	[M]
C1037	ECUV1H100DCV	10P 50V	[M]
C1038	F1H1A474A028	0.47 10V	[M]
C1039	ECUVNC104KBV	0.1 16V	[M]
C1040	ECEV1CA100SR	10 16V	[M]
C1041	ECUV1H220JCV	22P 50V	[M]
C1042	ECUVNC104KBV	0.1 16V	[M]
C1043	ECJ1VC1H680K	68P 50V	[M]
C1044	F1K1C2250005	22 16V	[M]
C1045	ECUVNC104KBV	0.1 16V	[M]
C1046	ECEV1CA100SR	10 16V	[M]
C1047	ECJ1VB1H122K	1200P 50V	[M]
C1048	ECEV1CA100SR	10 16V	[M]
C1049	ECUVNC104KBV	0.1 16V	[M]
C1050	ECEV1CA100SR	10 16V	[M]
C1051	ECUVNC104KBV	0.1 16V	[M]
C1053	ECUVNC104KBV	0.1 16V	[M]
C1054	ECUVNC104KBV	0.1 16V	[M]
C1055	ECEV1CA100SR	10 16V	[M]
C1056	ECUVNC104KBV	0.1 16V	[M]
C1057	ECUV1H100DCV	10P 50V	[M]
C1058	ECEV1CA100SR	10 16V	[M]
C1059	ECUVNC104KBV	0.1 16V	[M]
C1060	ECUVNC104KBV	0.1 16V	[M]
C1061	ECUVNC104KBV	0.1 16V	[M]
C1062	ECEV1CA100SR	10 16V	[M]
C1063	ECEV1CA100SR	10 16V	[M]
C1064	ECUV1H103KBV	0.01 50V	[M]
C1065	ECUVNC104KBV	0.1 16V	[M]
C1069	ECJ1VB1H102K	1000P 50V	[M]
C1071	ECJ1VB1H102K	1000P 50V	[M]
C1073	ECUVNC104KBV	0.1 16V	[M]
C1074	ECUVNC104KBV	0.1 16V	[M]
C1080	ECUVNC104KBV	0.1 16V	[M]
C1081	ECUVNC104KBV	0.1 16V	[M]
C1088	ECUV1H101JCV	100P 50V	[M]
C1089	ECUV1H101JCV	100P 50V	[M]
C1090	ECUV1H101JCV	100P 50V	[M]
C1091	ECUV1H101JCV	100P 50V	[M]
C1094	ECUV1H103KBV	0.01 50V	[M]
C1098	ECEV0JA101SP	100 6.3V	[M]
C1104	ECUVNC104KBV	0.1 16V	[M]
C1106	ECUVNC104KBV	0.1 16V	[M]
C1107	ECUVNC104KBV	0.1 16V	[M]
C1113	ECEV1HA010SR	1 50V	[M]
C1114	ECEV0JA470SR	47 6.3V	[M]
C1115	ECUVNC104KBV	0.1 16V	[M]
C1116	ECUVNC104KBV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1117	ECEV1CA100SR	10 16V	[M]
C1118	ECJ1VB1H102K	1000P 50V	[M]
C1119	ECUV1H100DCV	10P 50V	[M]
C1120	ECUV1H101JCV	100P 50V	[M]
C1121	ECUV1H101JCV	100P 50V	[M]
C1122	ECEV1CA100SR	10 16V	[M]
C1123	ECUVNC104KBV	0.1 16V	[M]
C1124	ECUVNC104KBV	0.1 16V	[M]
C1125	ECUVNC104KBV	0.1 16V	[M]
C1126	ECUVNC104KBV	0.1 16V	[M]
C1127	ECJ1VB1H102K	1000P 50V	[M]
C1128	ECEV1CA100SR	10 16V	[M]
C1129	ECUV1H103KBV	0.01 50V	[M]
C1130	ECUV1H101JCV	100P 50V	[M]
C1131	ECUV1H101JCV	100P 50V	[M]
C1132	ECEV1CA100SR	10 16V	[M]
C1133	ECUVNC104KBV	0.1 16V	[M]
C1134	ECUV1H100DCV	10P 50V	[M]
C1135	ECUV1H103KBV	0.01 50V	[M]
C1136	ECEV1CA100SR	10 16V	[M]
C1137	ECUV1H100DCV	10P 50V	[M]
C1138	ECUV1H100DCV	10P 50V	[M]
C1139	ECUV1H100DCV	10P 50V	[M]
C1140	ECUV1H100DCV	10P 50V	[M]
C1141	ECUVNC104KBV	0.1 16V	[M]
C1142	ECUV1H100DCV	10P 50V	[M]
C1143	ECEV1CA100SR	10 16V	[M]
C1144	ECUV1H100DCV	10P 50V	[M]
C1145	ECUVNC104KBV	0.1 16V	[M]
C1146	ECUVNC104KBV	0.1 16V	[M]
C1147	ECUVNC104KBV	0.1 16V	[M]
C1148	ECUV1H101JCV	100P 50V	[M]

16.3. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG6316	PACKING CASE	[M] EG EB E-S
P1	RPG6317	PACKING CASE	[M] E EG-K
P2	RPN1589	POLYFOAM	[M]
P3	RPHV0001	MIRAMAT SHEET	[M]
		ACCESSORIES	
A1	EUR7622050	REMOTE CONTROL	[M]
A1-1	UR76EC1503A	R/C BATTERY COVER	[M]
A2	RJA0019-2K	AC CORD	[M] EG E ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
A2	VJA0733	AC CORD	[M] EB ⚠
A3	RQT6842-R	O/I BOOK (Sp/Po/Cz)	[M] E
A3	RQT6843-B	O/I BOOK (En)	[M] EB E
A3	RQT6844-D	O/I BOOK (Ge/It/Fr)	[M] EG
A3	RQT6966-B	O/I BOOK FOR R/C (En)	[M] EB E
A3	RQT6967-R	O/I BOOK FOR R/C (Sp/Po/Cz)	[M] E
A3	RQT6968-R	O/I BOOK FOR R/C (Sp/Po/Cz)	[M] E
A3	RQT6969-D	O/I BOOK FOR R/C (Ge/It/Fr)	[M] EG
A3	RQT6970-D	O/I BOOK FOR R/C (Ge/It/Fr)	[M] EG
A3	RQT6971-D	O/I BOOK FOR R/C (Ge/It/Fr)	[M] EG
A4	RSA0007-L	FM ANTENNA WIRE	[M]
A5	RSA0037	AM LOOP ANTENNA	[M]
A6	K1YZ02000013	ANT ADAPTER	[M] EB

16.4. Packaging

ACCESSORIES CASE

A1 : REMOTE CONTROL

A2 : AC CORD

A3 : O/I BOOK

A4 : FM ANTENNA WIRE

A5 : AM LOOP ANTENNA

A6 : ANTENNA PLUG ADAPTER