ORDER NO. MD0604121C3

Service Manual

Home Theater Audio System

*DOLBY DIGITAL PRO LOGIC II **DIGITAL dts SURROUND

SA-HT40EE

Colour

(S).....Silver Type

Specification

nAMPLIFIER SECTION

RMS output power of each channel driven

10% total harmonic distortion

1 kHz front CH

90 W per channel (4 Ω)

1 kHz surround CH

90 W per channel (4 Ω)

1 kHz center CH

220 W per channel (6 Ω)

100 Hz subwoofer CH

220 W per channel (6 Ω)

Total RMS output power 800 W

Rated minimum sine wave RMS power output

1% total harmonic distortion (Dolby Digital mode)

1 kHz front CH

50 W per channel (4 Ω)

1 kHz surround CH

50 W per channel (4 Ω)

1 kHz center CH

150 W per channel (6 Ω)

100 Hz subwoofer CH

150 W per channel (6 Ω)

Total RMS output power 500 W

Total harmonic distortion

Half power at 1 kHz (Front CH) 0.5% (4 Ω)

Input sensitivity

GAME/AUX, TV, DVR/DVD-P 450 mV, IHF'66

MUSIC PORT 250 mV, IHF'66

S/N at rated power (4 Ω)

GAME/AUX, TV, DVR/DVD-P 80 dB, (85 dB, IHF'66)

MUSIC PORT 70 dB, (85 dB, IHF'66)

Input impedance

GAME/AUX, TV, DVR/DVD-P, MUSIC PORT

47 kΩ

Tone controls

BASS 50 Hz, +10 to -10 dB

TREBLE 20 kHz, +10 to -10 dB

Digital input

OPTICAL 2

COAXIAL 1

nFM TUNER SECTION

Frequency range

87.50 MHz to 108.00 MHz

Sensitivity

S/N 30 dB 1.9 µV/75 Ω

S/N 26 dB 1.8 µV/75 Ω

S/N 20 dB 1.6 µV/75 Ω

IHF usable sensitivity (IHF'58) 2.2 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 (71 dB, IHF)

STEREO 58 dB (65 dB, IHF)

Frequency response

20 Hz to 15 kHz, +1 dB, -2 dB

Image rejection at 98 MHz 40 dB

IF rejection at 98 MHz 70 dB

Stereo separation (1 kHz) 40 dB

Panasonic

Antenna terminal	75 Ω (unbalanced)
nAM TUNER SECTION	
Frequency range	
	522 kHz to 1611 kHz (9 kHz steps)
	530 kHz to 1620 kHz (10 kHz steps)
Sensitivity	500 µV/m
Selectivity (at 999 kHz)	30 dB
nGENERAL	
Power supply	
	AC 230 to 240 V, 50 Hz
Power consumption	120 W
Dimensions (W × H × D)	
	430 mm x 105 mm x 385 mm
Mass	3.8 kg
Power consumption in standby mode:	1 W
nSYSTEM	

System: SC-HT40 (EE)

Main unit: SA-HT40 (EE)
Front speakers: SB-PF41 (GN)
Surround speakers: SB-PS41 (GN)
Center speaker: SB-PC40 (P)
Subwoofer: SB-W40 (P)

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.

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** Manufactured under license from Digital Theater System.
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⚠ 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 ∞.

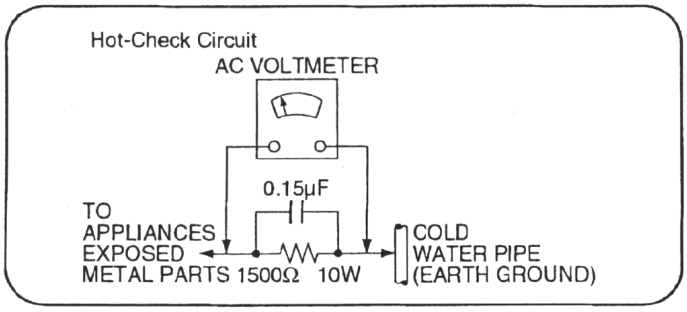


Fig. 1

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.

1.2. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C707 & C1706 through a 10 Ω, 1W 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.

Current consumption at AC 230 V - 240 V, 50Hz in NO SIGNAL mode should be 200 ~ 800 mA.

1.3. 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.

2 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

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

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

   Caution

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

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3 Handling the Lead Solder

3.1. About Lead Free Solder (PbF)

Distinction of PbF P.C.B. :

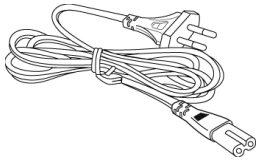
P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

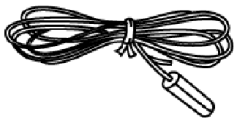
- Pb free solder has a higher melting point that standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to 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.

4 Accessories

Note: Refer to Packing Materials & Accessories (Section 18) for part number.



AC power cord



FM indoor antenna

AM loop antenna

Remote control

5 Operation Procedures

5.1. Remote Control Operation

Remote control

This page describes the buttons used to control this unit.

[⏻, RECEIVER]
Standby/on button.

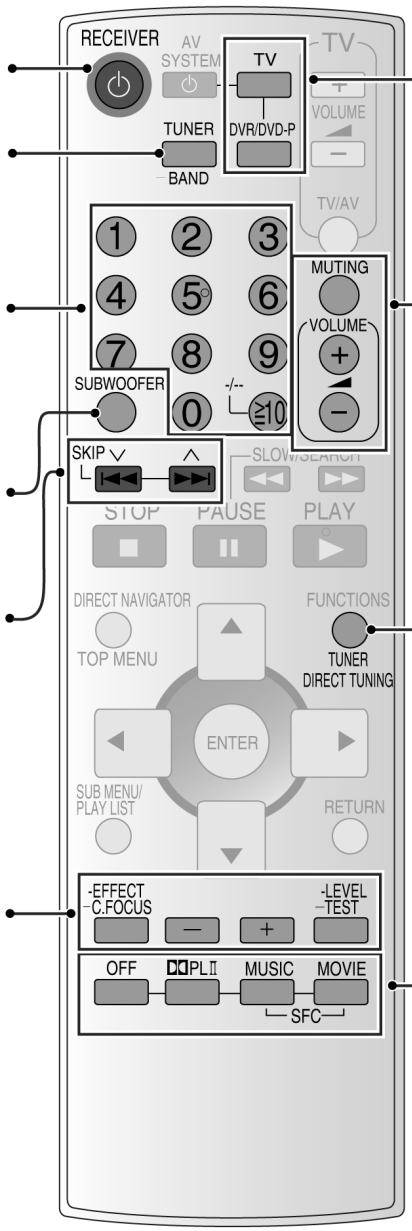
[TUNER, –BAND]
For switching the remote control to TUNER mode and selecting TUNER.
After selecting TUNER, press and hold to switch between FM and AM.

[1, 2, 3, 4, 5, 6, 7, 8, 9, 0]
To enter radio frequencies and channels.
[≧10, -/--]
To enter two digit channels.

[SUBWOOFER]
For selecting subwoofer level.

[⏮, ∨, ⏭, ∧, SKIP]
For selecting preset radio channels.

[-EFFECT, –C.FOCUS]
Use when adjusting Dolby Pro Logic II or SFC effects.
Press and hold to select center focus mode.
[-, +]
First select [-EFFECT] or [-LEVEL, –TEST], then press [-] or [+] to adjust.
[-LEVEL, –TEST]
Use when adjusting speaker level.
Press and hold to start the speaker test signal.



[TV] [DVR/DVD-P]
Input mode and remote control mode buttons.

[MUTING]
To mute the volume.
[+, -, VOLUME]
To adjust the volume.

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

[OFF]
To cancel Dolby Pro Logic II and SFC.
[PL II]
For selecting a Dolby Pro Logic II mode: MOVIE, MUSIC or PANORAMA.
[MUSIC]
For selecting SFC modes: LIVE, POP/ ROCK, VOCAL, JAZZ, DANCE or PARTY.
[MOVIE]
For selecting SFC modes: DRAMA, ACTION, SPORTS, MUSICAL, GAME or MONO.

5.2. Main Unit Operation

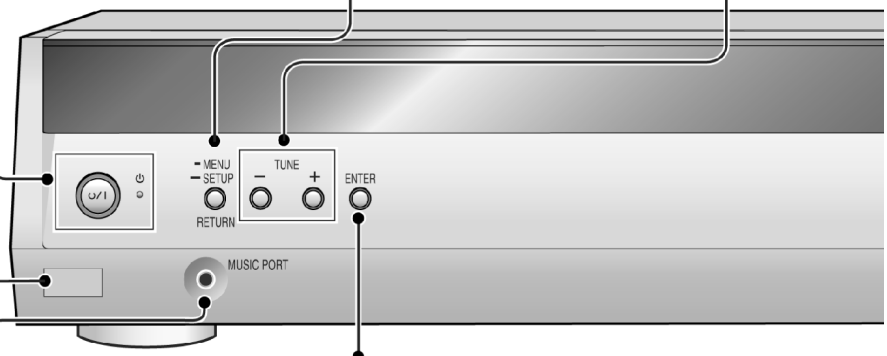
Main unit

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.

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.

[-MENU, –SETUP, RETURN]
- For entering menus to make various settings.
- For returning to previous menus.

[TUNE, −, +]
For tuning the radio and selecting menu or setup items.



Remote control signal sensor

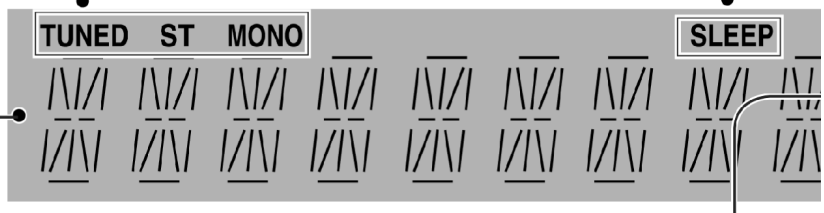
[MUSIC PORT]
- You can playback sound from portable audio equipment.
- Reduce the volume to minimum before connecting and disconnecting the equipment.
- Use an audio cord for connection.

[ENTER]
Used during menu or setup operations.

Display

[TUNED, ST, MONO]
Radio indicators
TUNED: A station is tuned
ST: A stereo FM broadcast is tuned
MONO: You have switched to monaural mode to improve reception

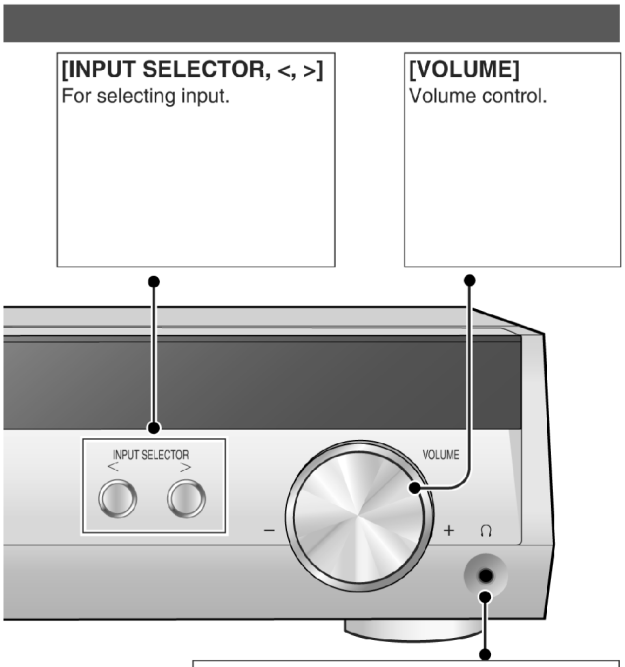
[SLEEP]
Sleep timer indicator.

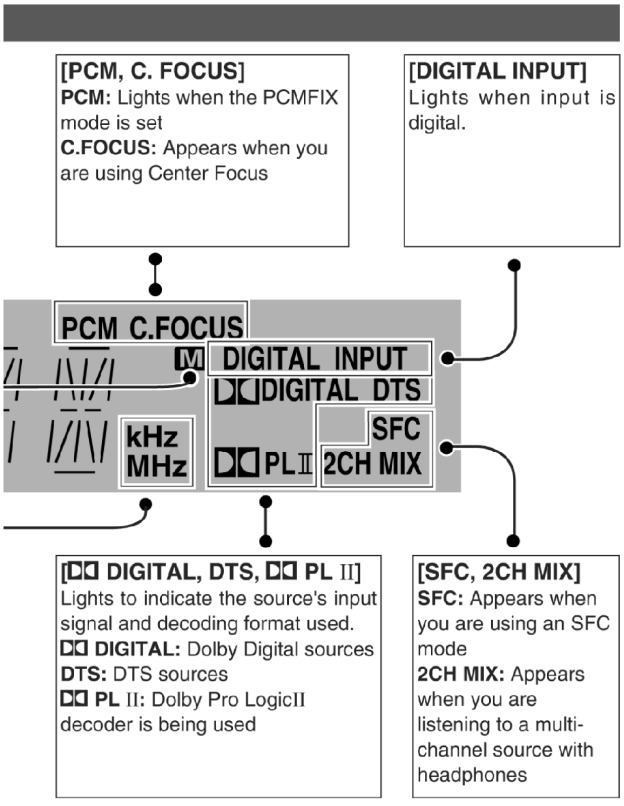


General display
Shows the input mode, radio frequency and other general information.

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

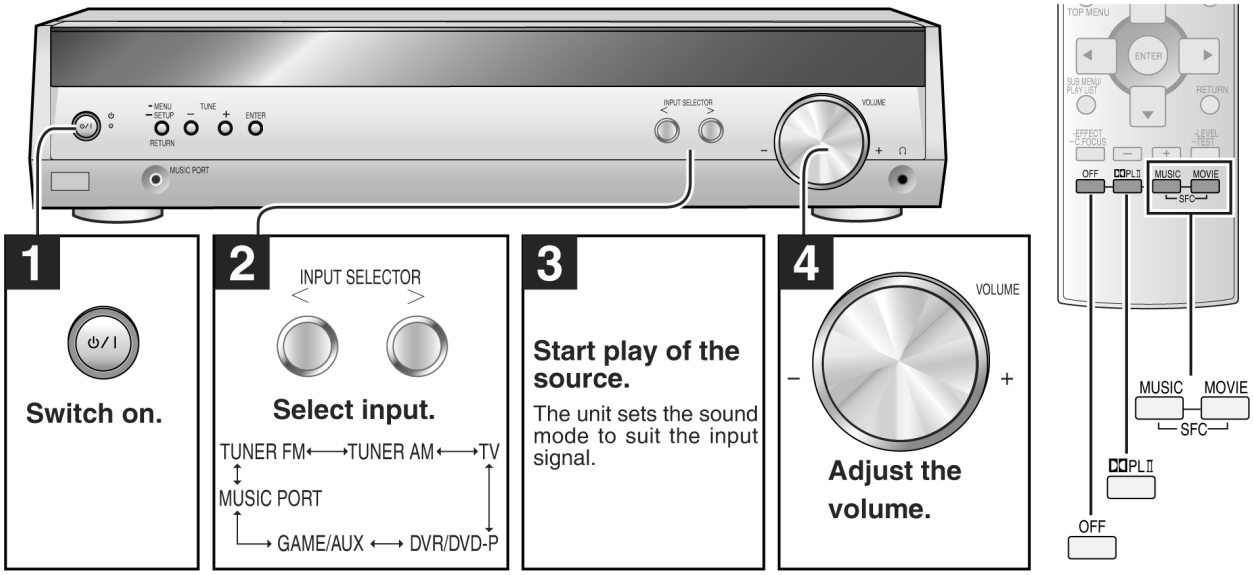
[M]
Flashes or lights during presetting.


[INPUT SELECTOR, <, >]
For selecting input.
[VOLUME]
Volume control.
INPUT SELECTOR
VOLUME
[∩]
Headphone jack
Plug type: 3.5 mm stereo
• Sound does not come from the speakers if you connect headphones.
• Avoid listening for prolonged periods of time to prevent hearing damage.


[PCM, C. FOCUS]
PCM: Lights when the PCMFIX mode is set
C.FOCUS: Appears when you are using Center Focus
[DIGITAL INPUT]
Lights when input is digital.
PCM C.FOCUS
DIGITAL INPUT
DIGITAL DTS
SFC
PLII
2CH MIX
kHz
MHz
[DIGITAL, DTS, PL II]
Lights to indicate the source's input signal and decoding format used.
DIGITAL: Dolby Digital sources
DTS: DTS sources
PL II: Dolby Pro LogicII decoder is being used
[SFC, 2CH MIX]
SFC: Appears when you are using an SFC mode
2CH MIX: Appears when you are listening to a multi-channel source with headphones

6 New Features

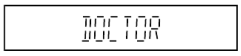
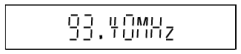
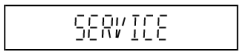
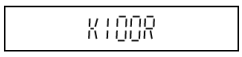
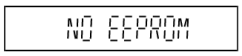
6.1. Music Port



7 Self Diagnosis and Special Mode Setting

This unit is equipped with function for checking and inspecting namely: Self-Diagnostic and Test Mode.

7.1. Doctor & Service Mode (Special Mode setting)

Item		FL Display	Key Operation
Mode Name	**Description**		**Front Key**
Doctor Mode	To enter into Doctor Mode for checking of various items. (For more information, refer to section 7.1.1.)	1. FL will display as below for 3s:  2. Initialization of all settings & the tuner frequency is set as below. 	1. Press & hold **[INPUT SELECTOR, <]** and **[-MENU]** button on main unit follow by the **[⏻/I, POWER]** button at the same time. To exit, press the **[⏻/I, POWER]** button on the main unit or remote control.
Service Mode	To enter into Service Mode for checking of uP software Version and displaying EEPROM checksum.	1. FL will display as below:  2. Next is the micro-processor firmware version no.  3. This is follow by checking of EEPROM:-  **Notes:** 1. When NO EEPROM, it will display “NO EEPROM”. 2. When there is EEPROM, it will display “SUM****” whereby **** refers to check sum no. (ROM Correction).	For Service mode: 1. Press & hold **[INPUT SELECTOR, <]** and **[TUNE, −]** button on main unit follow by the **[⏻/I, POWER]** button at the same time. To check uP software Version: 1. Press **[TUNE, +]** button on main unit. To check EEPROM: 1. Press **[TUNE, −]** button on main unit. To exit, press the **[⏻/I, POWER]** button on main unit or remote control.

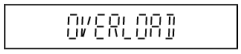
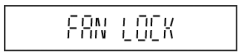
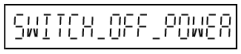
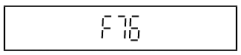
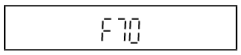
7.1.1. Inspection & Checking Items

After entering into doctor mode, the main unit can be used for checking of various items using the remote control.

Remote Control	Test Mode Function and settings			
	Selector	**Sound Mode**	**Other setting**	**Vol/Tone**
CH 1	TV	STEREO	Analog	-18dB/0dB
CH 2	DVR/DVD-P	STEREO	Analog	-18dB/0dB
CH 3	REAR MUSIC PORT	STEREO	Analog	-18dB/0dB
CH 4	FRONT MUSIC PORT	STEREO	Analog	-18dB/0dB
CH 5	TV	STEREO	Digital (OPT 1)	-48dB/0dB
CH 6	DVR/DVD-P	STEREO	Digital (OPT 2)	-48dB/0dB
CH 7	TV	STEREO	Digital (COAX)	-48dB/0dB
CH 8	If the input selector is TUNER, auto tuning function is started to upward on current frequency.			
CH 9	If the input selector is TUNER, auto tuning function is started to downward on current frequency.			
CH 0	If the input selector is TUNER in E2 mode, Display Mode (PS/PTY) is changed.			
≧10	TUNER	STEREO	Frequency: FM max FM Mode: MONO	-48dB/0dB
MUTING	All indicators of FL are displayed. All LED are off. Note: After this setting, only ‘POWER’ button by the remote control can be entered.			
Volume Up	Check Main uP software Version. Display [K 100R **]; **is current version. * Volume is still increased but not displayed.			
Volume Down	Check for EEPROM & Check Sum. Display [SUM ****]; **** is checksum. If no ROM correction, and when EEPROM is not attach, display [NO_EEPROM] * Volume is still reduced but not displayed.			
SUBW	DVR/DVD-P	----------	All CH printed out	-18dB/0dB
LEVEL	No change	SURROUND	Scan the test noise output channel with 500ms intervals.	-18dB/0dB
-/L	TV	STEREO	Balance is set to leftmost.	-18dB/0dB
+/R	TV	STEREO	Balance is set to rightmost	-18dB/0dB

7.2. Error Code Table

Self- Diagnosis Function provides information on any problems occuring for the units and its respective parts by displaying error codes.

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
OVERLOAD	Speaker short, power amplifier failure Digital amplifier abnormal operation	Both [SHORT_DET] & [FAN_LOCK] signal is detected as active high while [DC_DET] signal is active low.		
FAN LOCK	Detection of FAN LOCK	Both [SHORT_DET] & [DC_DET] signal is detected as active high while [FAN_LOCK] signal is active low.	  * When any button is next press when in this condition.	All channels into muting.
F76	Detection of POWER MALFUNCTION & abnormal operation	Both [FAN_LOCK] & [DC_DET] signal is detected as active high while [SHORT_DET] is active low.		
F70	Detection of POWER MALFUNCTION & abnormal operation			

8 Assembling and Disassembling

8.1. Caution

“Attention Servicer”

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures.
   Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer to the Parts No. on the page of “Replacement Parts List” (Section 18), if necessary.

Below is the list of disassembly procedures

- **Disassembly of Top Cabinet**
- **Disassembly of Rear Panel**
- **Disassembly of Front Panel**
- **Disassembly of Panel P.C.B., Music Port P.C.B. & Volume P.C.B.**
- **Disassembly of Main P.C.B.**
- **Disassembly of DSP P.C.B.**
- **Disassembly of AC In P.C.B.**
- **Disassembly of Power P.C.B.**
- **Disassembly of Digital Amp P.C.B.**

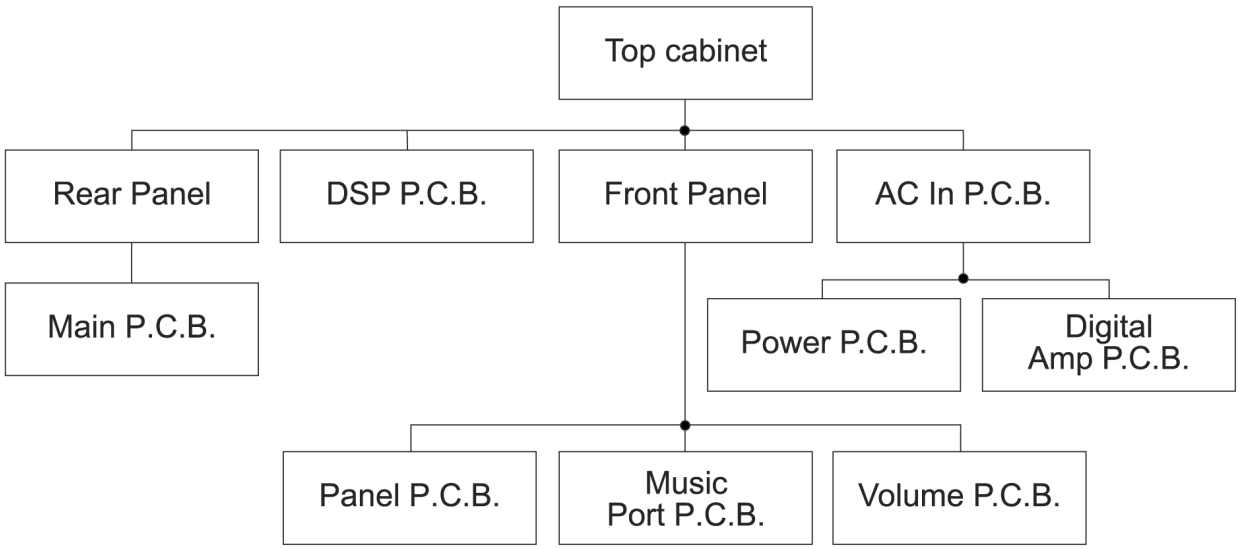
Caution

Do ensure the correct screw is uses.

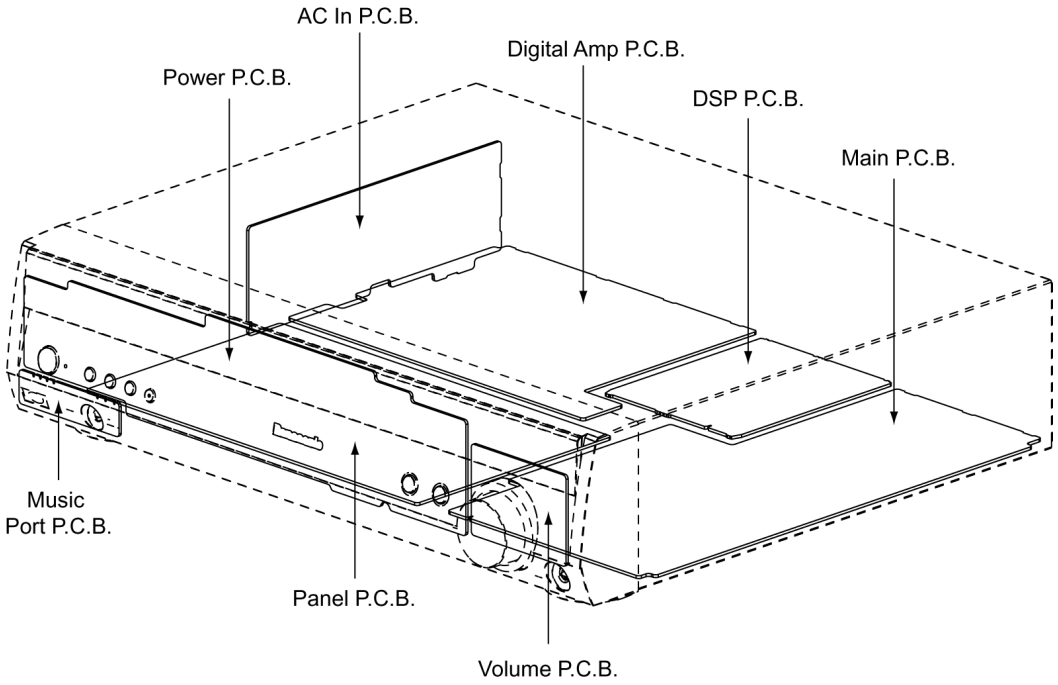
8.2. Disassembly Flow Chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart as below.

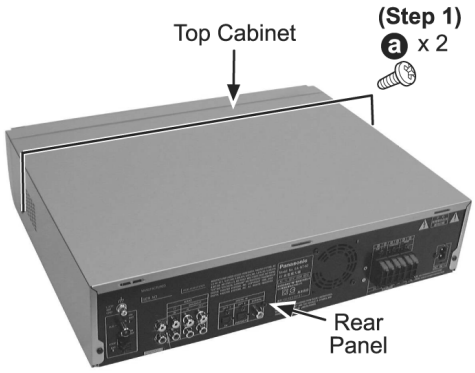


8.3. Main Parts Location

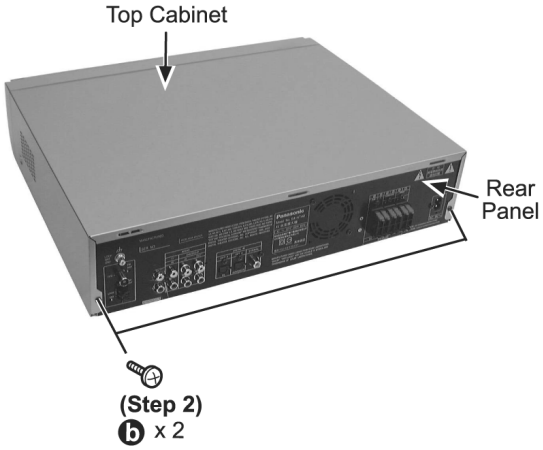


8.4. Disassembly of Top Cabinet

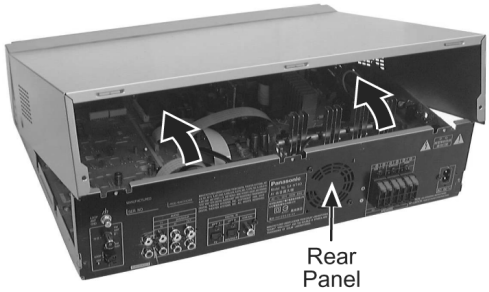
Step 1: Remove 2 screws.



Step 2 : Remove 2 screws at rear panel.



Step 3 : Open and lift up the top cabinet as arrow shown.

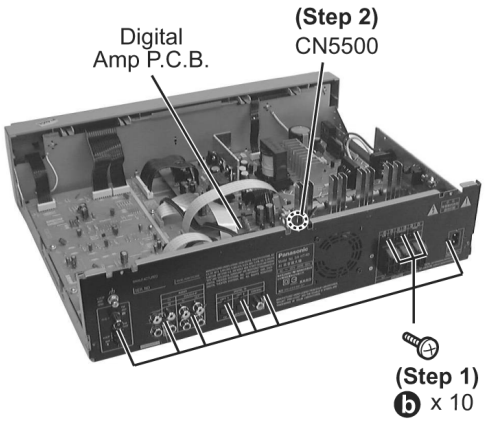


8.5. Disassembly of Rear Panel

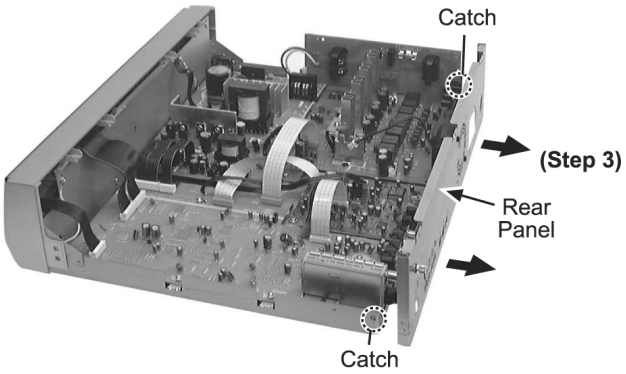
・Follow the **(Step 1)** - **(Step 3)** of item 8.4. - Disassembly of Top Cabinet

Step 1 : Remove 10 screws at rear panel.

Step 2 : Detach wire connector (CN5500) at Digital Amp P.C.B..



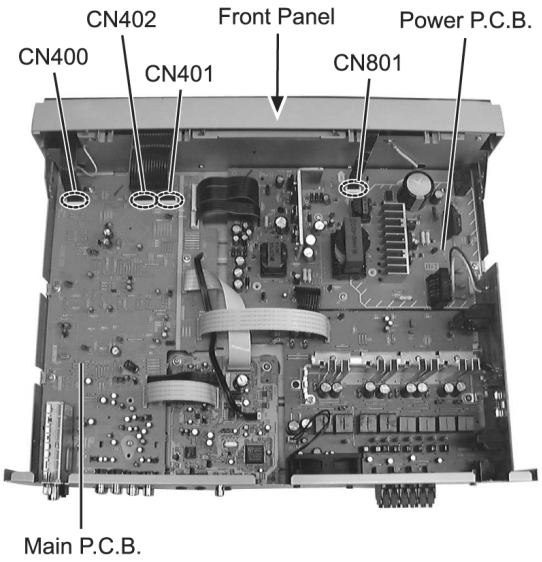
Step 3 : Release 2 catches and pull the rear panel backwards as the arrow shown.



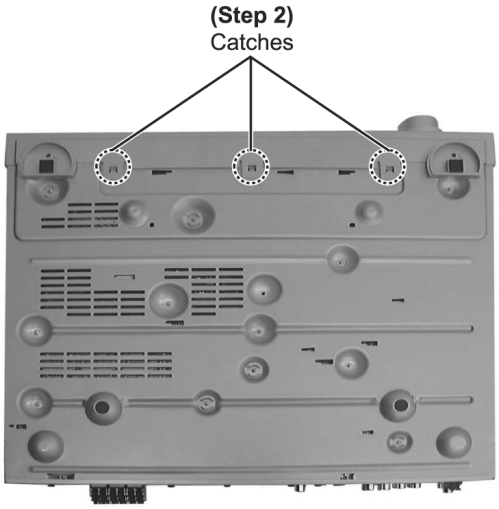
8.6. Disassembly of Front Panel

・Follow the **(Step 1)** - **(Step 3)** of item 8.4. - Disassembly of Top Cabinet

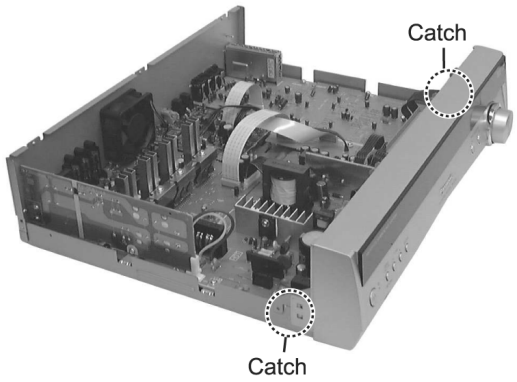
Step 1 : Detach the wire connections (CN400, CN402 & CN401) at Main P.C.B. and (CN801) at Power P.C.B..



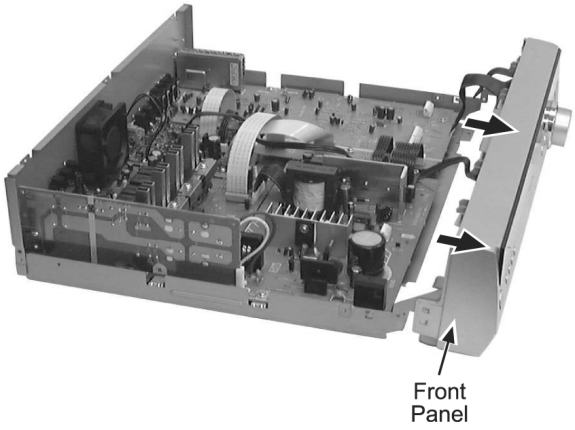
Step 2 : Release 3 catches.



Step 3 : Release 2 catches.



Step 4 : Push forward front panel as the arrow shown.



8.7. Disassembly of Panel P.C.B., Music Port P.C.B. & Volume P.C.B.

・Follow the **(Step 1)** - **(Step 3)** of item 8.4. - Disassembly of Top Cabinet

・Follow the **(Step 1) - (Step 4)** of item 8.6. - Disassembly of Front Panel

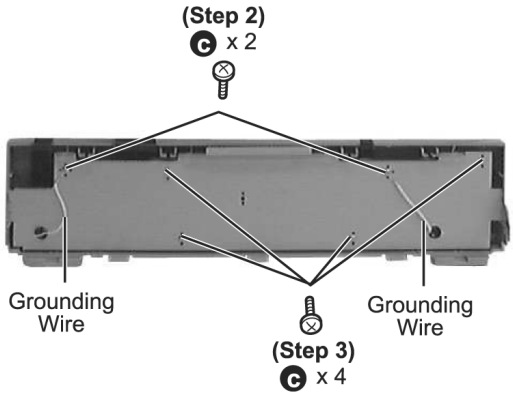
Step 1 : Remove the volume knob as picture shown.

Step 2 : Remove 2 screws grounding wires as picture shown.

Caution:

Remember to screw the 2 grounding wires during assembly.

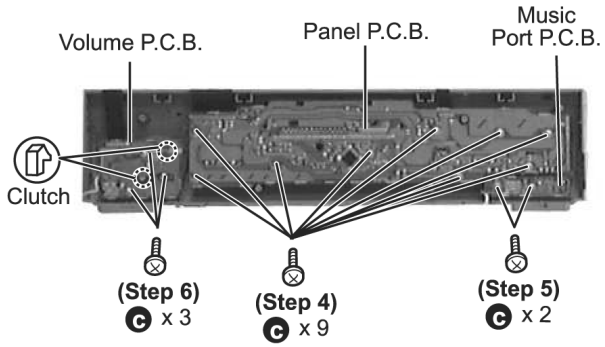
Step 3 : Remove 4 screws as picture shown.



· Disassembly of Panel P.C.B. and Music Port P.C.B.

Step 4 : Remove 9 screws at Panel P.C.B..

Step 5 : Remove 2 screws at Music Port P.C.B..



· Disassembly of Volume P.C.B.

Step 6 : Remove 3 screws at Volume P.C.B..

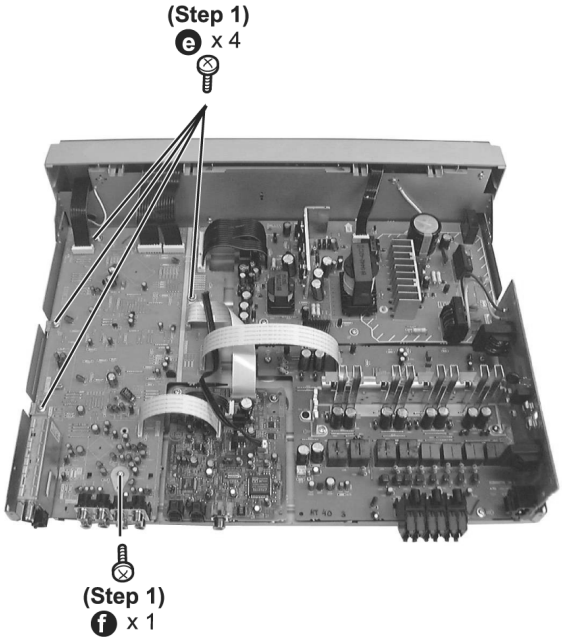
Step 7 : Release 2 clutchs.

8.8. Disassembly of Main P.C.B.

· Follow the **(Step 1)** - **(Step 3)** of item 8.4. - Disassembly of Top Cabinet

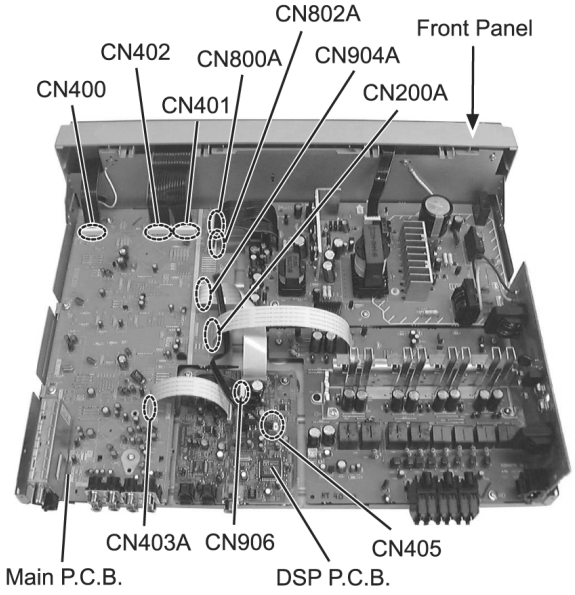
· Follow the **(Step 1)** - **(Step 3)** of item 8.5. - Disassembly of Rear Panel

Step 1 : Remove 5 screws at Main P.C.B..

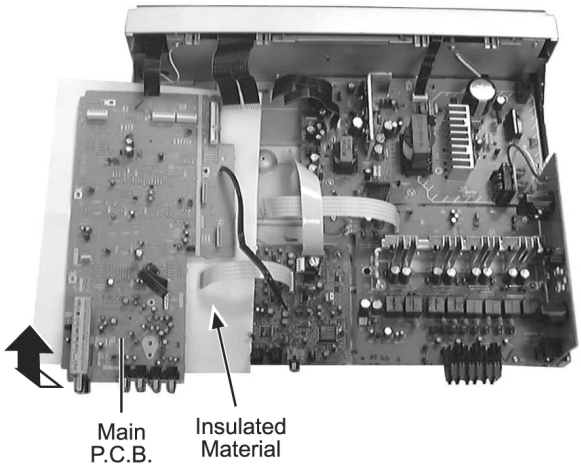


Step 2 : Disconnect FFC cables (CN400, CN402, CN401, CN800A, CN802A, CN904A, CN200A and CN403A) at Main P.C.B. .

Step 3 : Disconnect 2 connectors (CN906 & CN405) at DSP P.C.B..



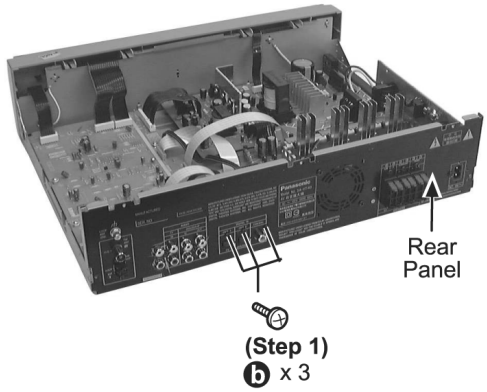
Step 4 : Lift up and remove the Main P.C.B. as picture shown.



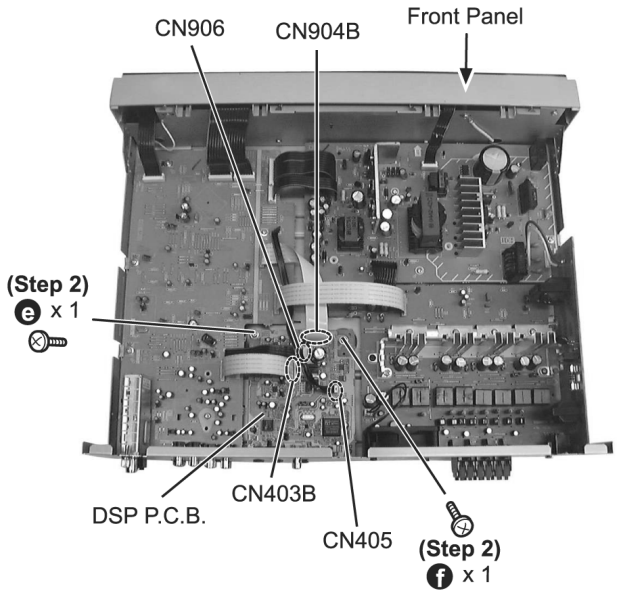
8.9. Disassembly of DSP P.C.B.

・Follow the **(Step 1)** - **(Step 3)** of item 8.4. - Disassembly of Top Cabinet

Step 1 : Remove 3 screws at rear panel.

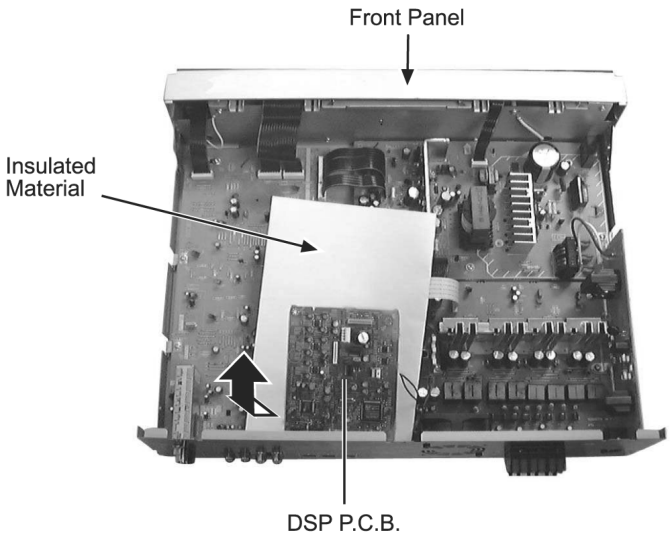


Step 2 : Remove 2 screws at DSP P.C.B..



Step 3 : Disconnect 4 connectors (CN906, CN904B, CN405 &CN403B) at DSP P.C.B..

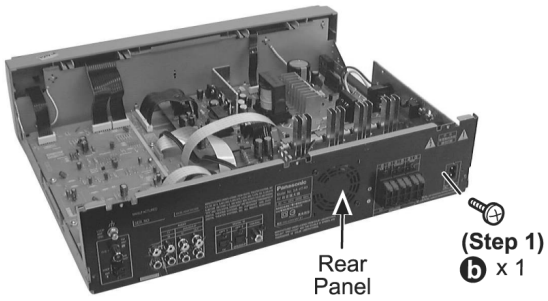
Step 4 : Lift up and remove the DSP P.C.B. as the arrow shown.



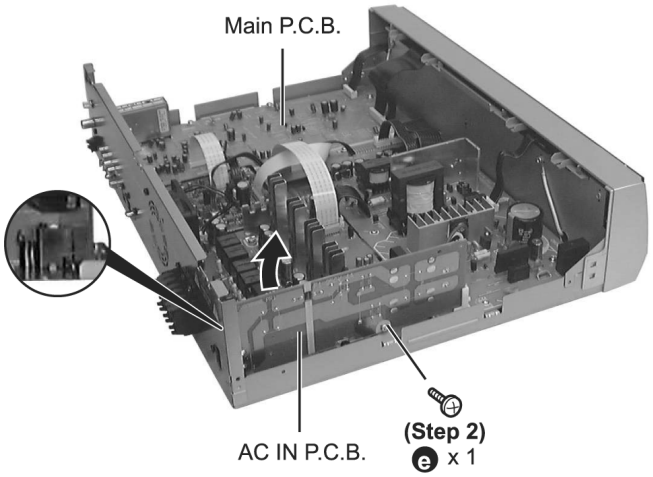
8.10. Disassembly of AC In P.C.B.

・Follow the **(Step 1)** - **(Step 3)** of item 8.4. - Disassembly of Top Cabinet

Step 1 : Remove 1 screw at rear panel.



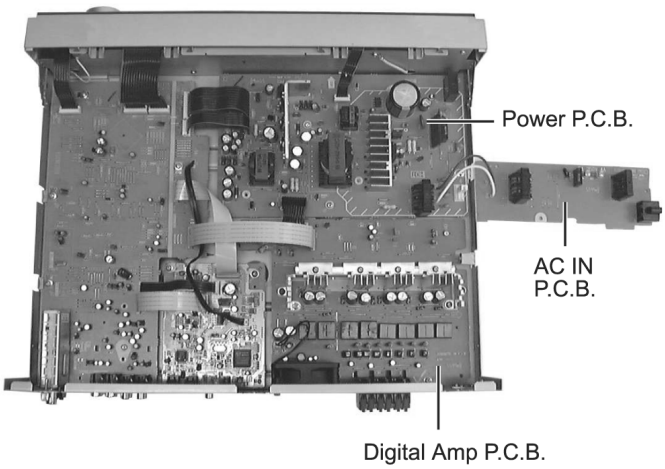
Step 2 : Remove 1 screw at AC In P.C.B..



Caution:

Remember to use tie wraps to tie red/ white wires between (AC In P.C.B. and Power P.C.B.) to the side of AC In P.C.B. after repair or troubleshooting.

Step 3 : Lift up and place AC In P.C.B. as picture shown.



Note:

Caution when lift up the AC In P.C.B..

8.11. Disassembly of Power P.C.B.

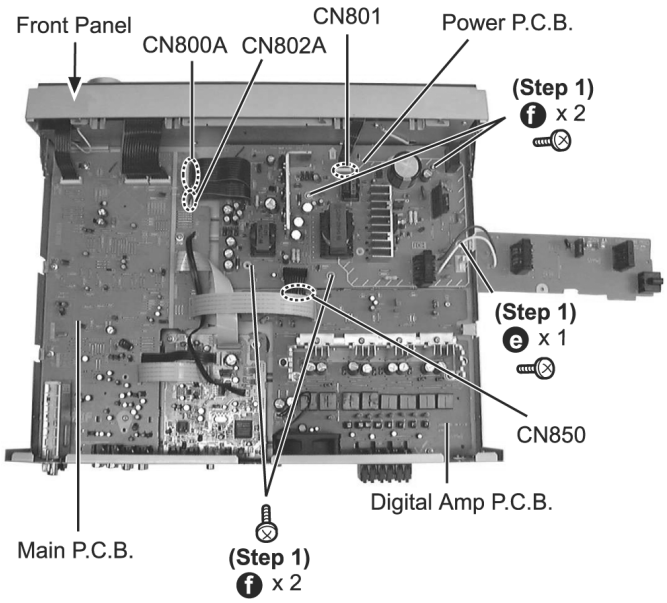
- Follow the **(Step 1)** - **(Step 3)** of item 8.4. - Disassembly of Top Cabinet
- Follow the **(Step 1)** - **(Step 3)** of item 8.10. - Disassembly of AC In P.C.B.

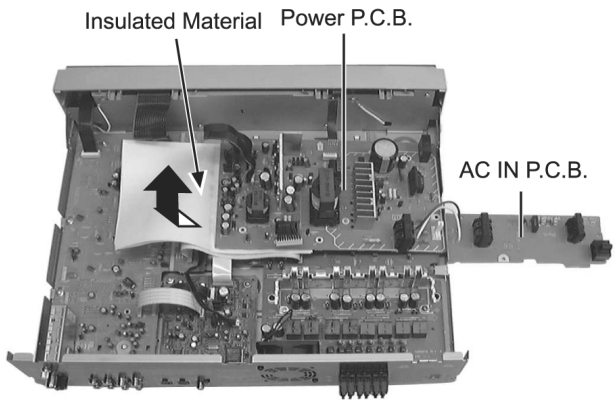
Step 1 : Remove 5 screws at Power P.C.B..

Step 2 : Disconnect 2 connectors (CN800A & CN802A) at Main P.C.B..

Step 3 : Disconnect 1 connector (CN801) at Power P.C.B..

Step 4 : Disconnect 1 connector (CN850) at Digital Amp P.C.B..

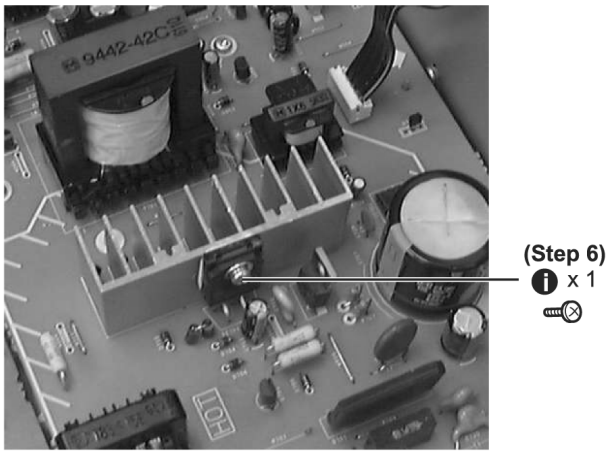




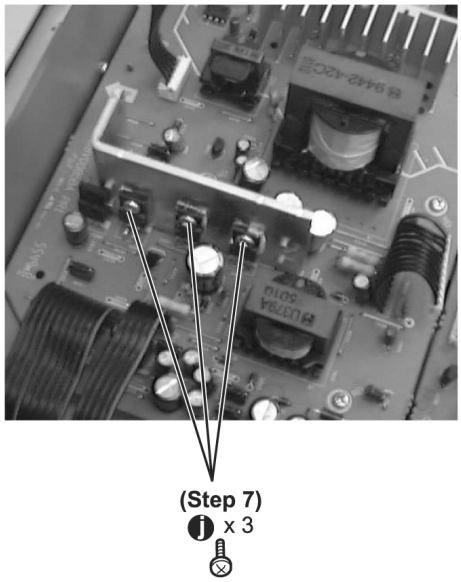
Step 5 : Lift up the Power P.C.B. as picture shown.

· Replacement of the Power Supply IC and Diode

Step 6 : Remove 1 screw (from IC701).

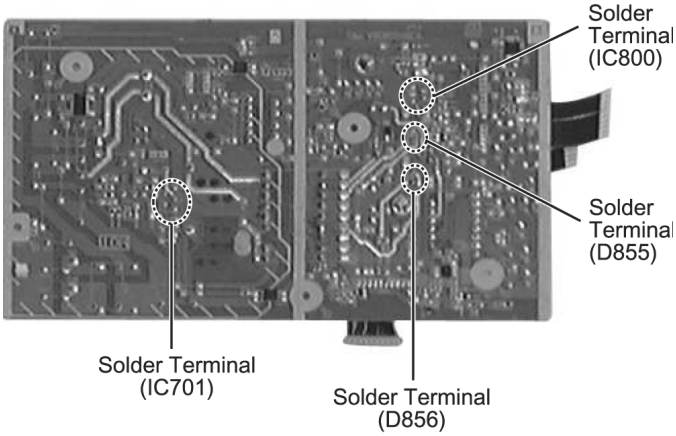


Step 7 : Remove 3 screws (from IC800, D855 and D856).



Step 8 : Flip over the Power P.C.B..

Step 9 : Desolder the terminal to replace the components.

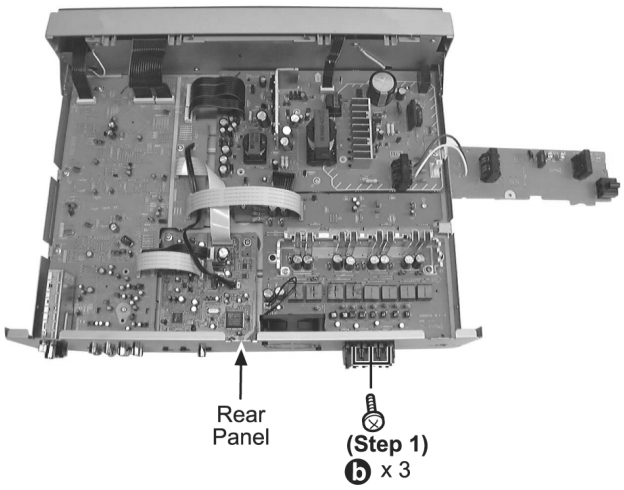


8.12. Disassembly of Digital Amp P.C.B.

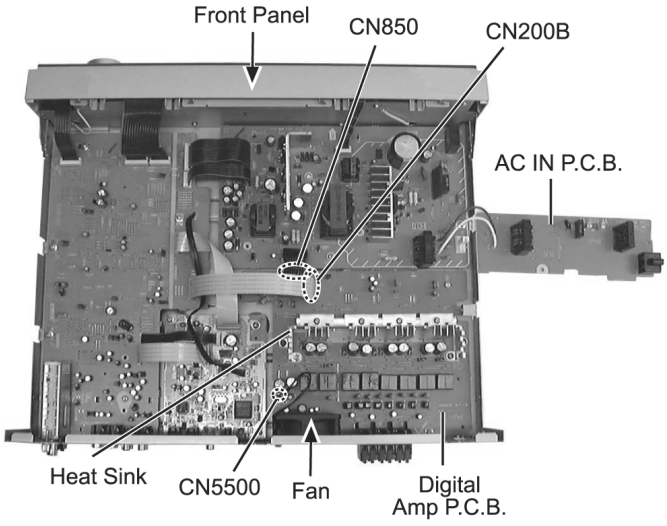
· Follow the **(Step 1)** - **(Step 3)** of item 8.4. - Disassembly of Top Cabinet

· Follow the **(Step 1)** - **(Step 3)** of item 8.10. - Disassembly of AC In P.C.B.

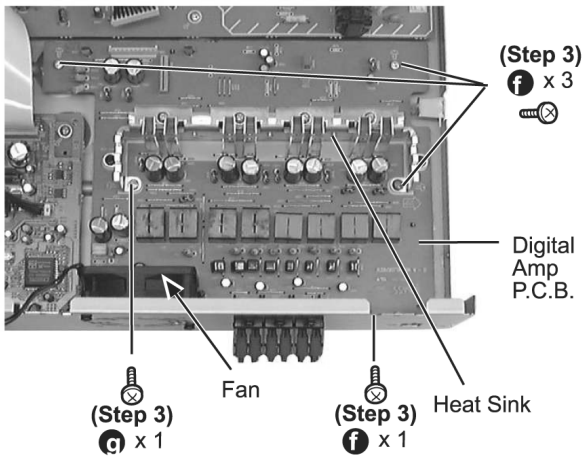
Step 1 : Remove 3 screws at rear panel.



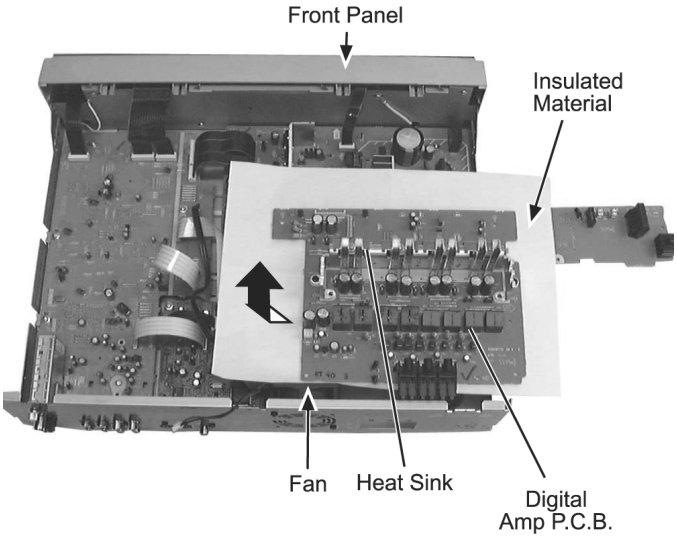
Step 2 : Detach FFC cables (CN5500, CN200B & CN850) at Digital Amp P.C.B..



Step 3 : Remove 5 screws at Digital Amp P.C.B..

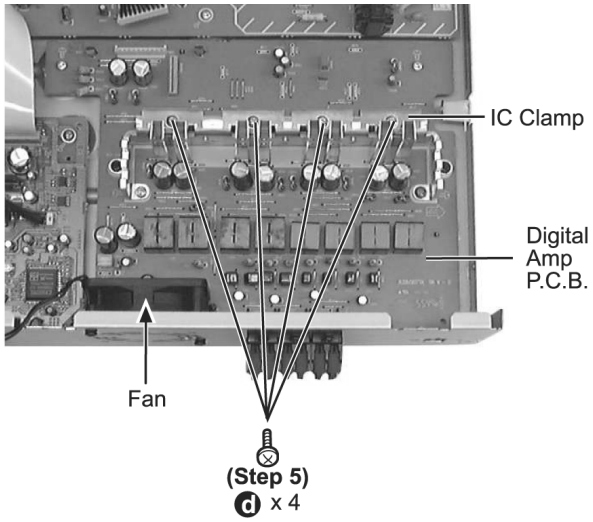


Step 4 : Lift up and remove the Digital Amp P.C.B. as arrow shown.



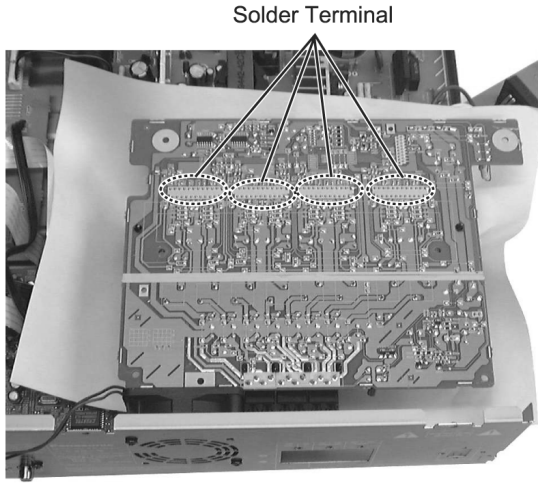
· Replacement of the Power Amp IC

Step 5 : Remove 4 screws at the IC Clamp.



Step 6 : Flip over Digital Amp P.C.B..

Step 7 : Desolder the terminal to replace the components.



9 Service Position

Note:

Checking of all Major P.C.B. (Main P.C.B., DSP P.C.B., AC In P.C.B., Digital Amp P.C.B., Power P.C.B., Panel P.C.B., Music Port P.C.B. & Volume P.C.B.) can be carried out using below procedures.

For the disassembling procedure, see Section 8.

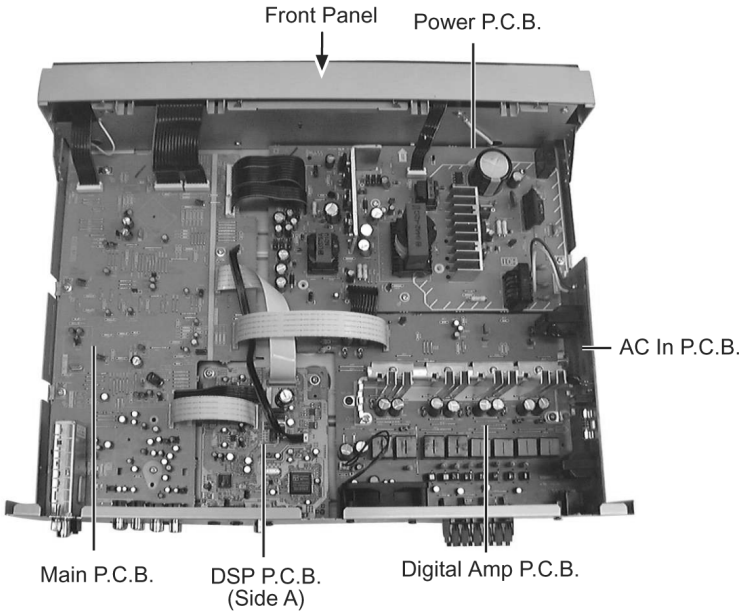
9.1. Checking the DSP P.C.B. (Side A) & AC In P.C.B.

1. Remove Top Cabinet

Remove 2 screws at the side cabinet.

Remove 2 screws at the rear cabinet.

Remove top cabinet.



9.2. Checking the DSP P.C.B. (Side B)

1. Remove Top Cabinet

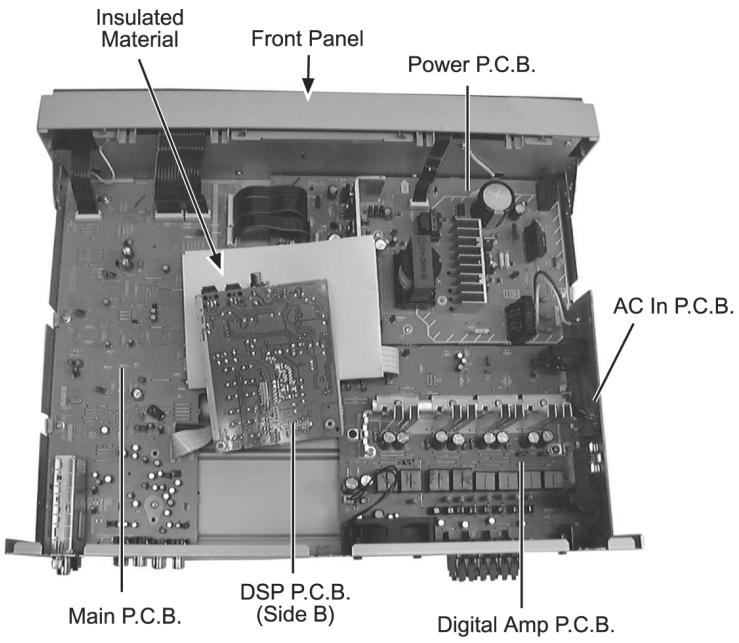
Remove 2 screws at the side cabinet.

Remove 2 screws at the rear cabinet.

Remove top cabinet.

2. Flip Over

Flip over the DSP P.C.B..



9.3. Checking the Panel P.C.B., Music Port P.C.B. and Volume P.C.B.

1. Remove Top Cabinet

- Remove 2 screws at the side cabinet.
- Remove 2 screws at the rear cabinet.
- Remove top cabinet.

2. Disassemble of Front Panel

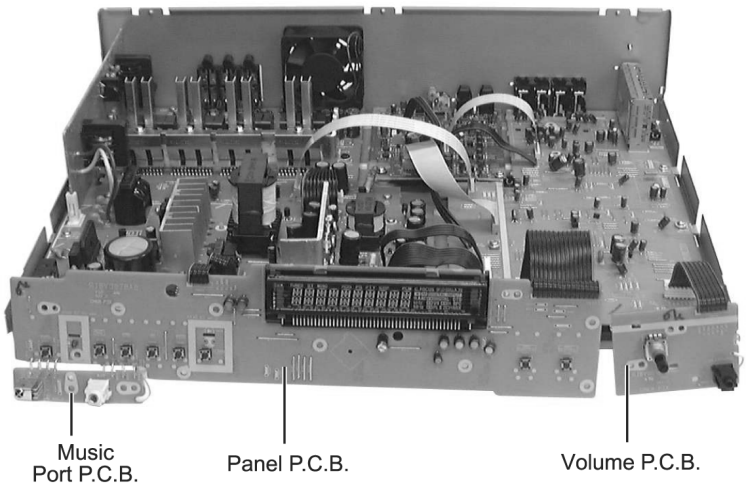
- Detach 4 wire connections CN400, CN402, CN401 & CN801.
- Release 3 catches at the bottom of the unit.
- Release 2 claws.

3. Disassemble of Panel P.C.B., Music Port P.C.B. & Volume P.C.B.

- Remove the volume knob.
- Remove 6 screws.
- Remove 9 screws at Panel P.C.B..
- Remove 2 screws at Music Port P.C.B..
- Remove 3 screws at Volume P.C.B..

4. Connect Panel P.C.B. & Volume P.C.B.

- Connect 7P cable between JW400 to CN400.
- Connect 15P cable between JW401 to (CN402 & CN401).
- Connect 5P cable between JW801 to CN801.



9.4. Checking the Main P.C.B., Power P.C.B. & Digital Amp P.C.B.

1. Remove Top Cabinet

Remove 2 screws at the side cabinet.

Remove 2 screws at the rear cabinet.

Remove top cabinet.

2. Remove Rear Panel

Remove 10 screws at rear panel, detach wire connector CN5500.

Remove 2 claws.

3. Disassemble of Main P.C.B.

Remove 5 screws.

4. Disassemble of DSP P.C.B.

Remove 2 screws.

5. Disassemble of AC In P.C.B.

Remove 1 screw.

Lift up AC In P.C.B..

6. Disassemble of Power P.C.B.

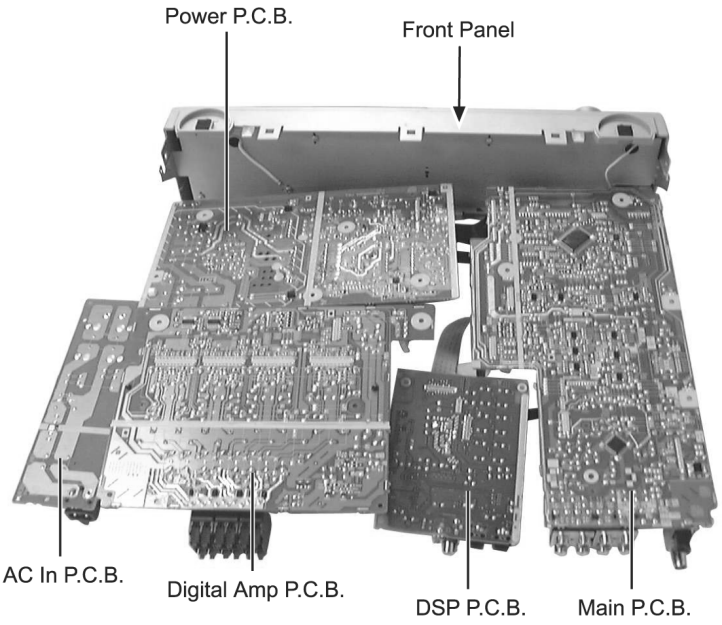
Remove 5 screws.

7. Disassemble of Digital Amp P.C.B.

Remove 5 screws.

8. Flip Over

Flip all the PCBs over. (See as shown in picture below.)



10 Voltage Measurement and Waveform Chart

Notes:

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (higher-impedance) with the chassis taken as standard.

  Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point, because it may differ from an actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

10.1. Voltage Measurement

10.1.1. DSP P.C.B.

DSP P.C.B																					
Ref No.	IC1001																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
CD PLAY	2.5	0	0.9	0	2.5	0.3	0.4	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
STANDBY	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0.1	0	0	
Ref No.	IC1001																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
CD PLAY	2.5	0.9	0	2.5	1.2	1.3	0.9	1.2	1.2	1.2	0	2.5	1.2	2.5	0	2.5	2.5	2.5	2	2	
STANDBY	0	0.1	0	0	0.1	0	0.1	0.1	0.1	0.1	0	-0.3	0	0	0	0.1	0	0	0.1	0.1	
Ref No.	IC1001																				
MODE	41	42	43	44																	
CD PLAY	2.2	1.3	1.2	1.2																	
STANDBY	0.1	0.1	0.1	0.1																	
Ref No.	IC1003																				
MODE	1	2	3	4	5	6	7	8													
CD PLAY	1.2	1.2	1.3	0	1.2	1.2	1.2	2.5													
STANDBY	0.1	0.1	0.1	0	0.2	0.1	0.1	0													
Ref No.	IC1004																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14							
CD PLAY	0	0.6	0.3	0	0.7	0.4	0	2.5	4.7	0	2.5	4.7	0	2.5							
STANDBY	0	2.1	2.1	0	2.1	2.1	0	0	0	0	0	0	0	0							
Ref No.	IC1005																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14							
CD PLAY	0	1.1	5	0	0	0	0	5	2.5	0	5	2.5	0	0							
STANDBY	0	0	0.1	0	0	0.1	0	0.1	0	0	0.1	0	0	0							
Ref No.	IC1101																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
CD PLAY	0.9	1.2	1.2	5	0	5	0.7	0.1	0.7	3.6	5	4.7	2.8	2.8	2.8	2.8	2.8	4.8	0	0	
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	
Ref No.	IC1101																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
CD PLAY	0	0	0	0	0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5	0	0	
STANDBY	0	0	0	0	0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0	0	0	
Ref No.	IC1101																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
CD PLAY	5.1	2.5	0	0	0	1.1	0	0	2.5	0	5	0	2.5	0.9	1.2	0.9	0	0	1.2	1.2	
STANDBY	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0.1	0	0	0	0	0.1	
Ref No.	IC1101																				
MODE	61	62	63	64																	
CD PLAY	0	0	0	0																	
STANDBY	0.1	0	0.1	0.1																	
Ref No.	IC1201																				
MODE	1	2	3	4	5	6	7	8													
CD PLAY	2.7	2.8	2.8	-7.6	2.8	2.8	2.8	7.3													
STANDBY	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.6													
Ref No.	IC1202																				
MODE	1	2	3	4	5	6	7	8													
CD PLAY	2.7	2.8	2.8	-7.6	2.8	2.8	2.8	7.3													
STANDBY	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.6													
Ref No.	IC1203																				
MODE	1	2	3	4	5	6	7	8													
CD PLAY	2.7	2.8	2.8	-7.6	2.8	2.8	2.8	7.3													
STANDBY	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.6													
Ref No.	IC1701																				
MODE	1	2	3																		
CD PLAY	5	-	2.5																		
STANDBY	0	-	0																		
Ref No.	Q1001				Q1701				Q1702				Q1703								
MODE	E	C	B		E	C	B		E	C	B		E	C	B						
CD PLAY	2.5	2.5	2.5		6.7	6.3	5.6		5.6	6.3	5		5.6	6.3	5.6						
STANDBY	0	0	0		0.1	0.6	0.6		0.1	0.6	0		0	0	0.1						

10.1.2. Main P.C.B.

MAIN P.C.B

Ref No.	IC150																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	-7.7	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0.1	0	0	0	0	0	0
Ref No.																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	5	7.5	0	0	0	0	-7.6	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0.5	0.6	0	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0.1
Ref No.																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56				
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.3	-0.3	-0.4				
STANDBY	0.1	0.1	0	0	0	0	0.1	0.1	0.1	0.1	0	0	0.5	0.5	0.5	0.5				
Ref No.	IC151																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.7	0	0	0	7.5												
STANDBY	0.1	0.1	0	0.5	0.1	0.1	0.1	0.6												
Ref No.	IC152																			
MODE	1	2																		
CD PLAY	9	10.3																		
STANDBY	0	0.6																		
Ref No.	IC200																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	-0.2	0	-	-7.7	0	0	0	7.5												
STANDBY	0	0	0	0.4	0	0	0	0.6												
Ref No.	IC201																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.7	0	0	0	7.5												
STANDBY	0.1	0.1	0.5	0	0	0.1	0.1	0.6												
Ref No.	IC202																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.7	0	0	0	7.5												
STANDBY	0	0	0.1	0.4	0.1	0	0	0.6												
Ref No.	IC204																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.7	0	0	0	7.5												
STANDBY	0.1	0.1	0.5	0	0	0.1	0.1	0.6												
Ref No.	IC205																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	-0.1	0	0	-7.7	0	0	0	7.5												
STANDBY	0	0	0.1	0.4	0	0	0.1	0.6												
Ref No.	IC207																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.7	0	0	0	7.5												
STANDBY	0.2	0.1	0	0.5	0	0.1	0.1	0.5												
Ref No.	IC208																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0.2	0.2	0.2	-7.7	0.2	0.2	0.2	7.5												
STANDBY	0.1	0.1	0.4	0	0	0.1	0.1	0.6												
Ref No.	IC301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	5	5	0	0	0	0	0	0	0	0	4.7	2.7	0	2.3	4.7	4.7	0	4.9	3.4
STANDBY	0	0	0	0	0	0	0	0	0	0	0	4.8	2.4	0	2.2	4.7	4.8	0	4.7	4.7
Ref No.	IC301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	5	0	4.7	4.9	0	0	0	4.9	4.9	0	5	0	4.7	4.7	0	0	0	0	0
STANDBY	3.4	0	0	0	0	0	0	0	4.7	4.7	0	0	0	0	0	0	0	0	0	0
Ref No.	IC301																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC301																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	0	0	0	0	0	0	0	4.7	4.7	4.9	0	4.9	5	5.1	0	4.7	0	0	0
STANDBY	0	4.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.7
Ref No.	IC301																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	4.9	4.9	0	0	0	0	0	0	0	0	4.7	4.6	4.9	4.9	4.9	0	2.4	4.7	4.9	5
STANDBY	4.7	4.7	0	0	0	0	0	0	0	0	0	0	0	4.7	1.1	0	2.4	4.8	4.7	0
Ref No.	IC302																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	4.9	4.9	0	5.5	5.5	5.5	0	0												
STANDBY	5.5	5.5	0	0	4.8	4.8	0	5.5												
Ref No.	Q200				Q201				Q202				Q203				Q204			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	5.5	-7.3	-4.7		5.6	5.5	0		0	0	0		0	0	4.6		0.2	0	-7.3	
STANDBY	5.6	5.5	0		5.6	5.6	0		0	0	0		0	0	4.7		0	0	0.7	
Ref No.	Q205				Q206				Q207				Q208				Q209			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0.2	0	-7.3		0	0	-7.3		0	0	-7.3		5.6	-7.3	5.6		0	5.5	0	
STANDBY	0	0	0.7		0	0	0.7		0	0	0.7		5.6	0.4	5.5		0	5.6	0	
Ref No.	Q211				Q212				Q213				Q301				Q302			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	0.7		0	0	0.7		0	0	-7.3		0	4.7	0		4.9	3.4	4	
STANDBY	0	0	0.7		0	0	0.7		0	0	0.3		0	4.7	0		4..8	3.4	3.9	
Ref No.	Q303																			
MODE	E	C	B																	
CD PLAY	0	4.9	-3.4																	
STANDBY	0	1.2	0.5																	

10.1.3. Power P.C.B.

POWER P.C.B																				
Ref No.	IC701																			
MODE	1	2	3	4	5															
CD PLAY	-41.5	-40.6	-70	-32.7	-40.5															
STANDBY	-0.1	-0.1	0.1	0	-0.1															
Ref No.	IC721																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	-38	-41.4	-40.4	-36.8	60	-	-41.9	-41.9												
STANDBY	-1.4	0	-1.3	-1.2	-1..3	-	-1.3	-1.2												
Ref No.	IC800																			
MODE	1	2	3	4	5															
CD PLAY	28.2	0	0	28.2	0.2															
STANDBY	7.7	0	0	7.7	0															
Ref No.	IC801																			
MODE	1	2	3																	
CD PLAY	24.5	0	2.3																	
STANDBY	7.7	0	0.1																	
Ref No.	IC802.																			
MODE	1	2																		
CD PLAY	5	5.5																		
STANDBY	0.5	0.5																		
Ref No.	IC850																			
MODE	1	2	3																	
CD PLAY	22.1	0.2	2.7																	
STANDBY	0	0	0																	
Ref No.	IC880																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	-29.8	-29.8	-29.8	-29.8	-14.8	-16	0	0												
STANDBY	0	0	0	0	0	0	0	0												
Ref No.	Q701				Q723				Q800				Q802				Q803			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	-37.9	-37.1	-37.9		0	0	0.7		26.5	0.2	26		-7.7	-10.4	-8.3		7.5	10.3	8.2	
STANDBY	0	0	0		0	5.6	0		7.7	0	7.7		0.1	0.1	0.4		0.6	0.1	0.1	
Ref No.	Q804				Q880				Q881											
MODE	E	C	B		E	C	B		E	C	B									
CD PLAY	7.5	10.4	8.1		-28.5	21.7	-29.8		23.2	22.2	21.7									
STANDBY	0.6	0.6	0.6		0	3	0		0	0	3.1									

10.1.4. Panel P.C.B.

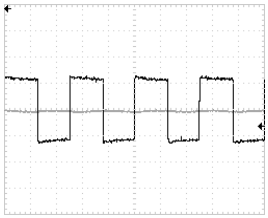
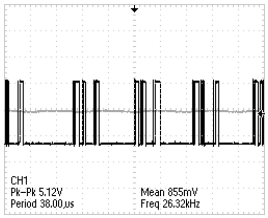
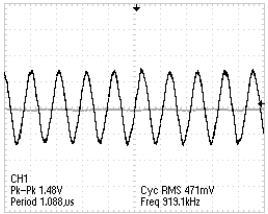
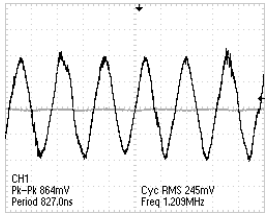
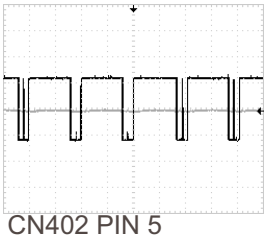
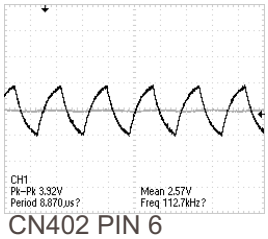
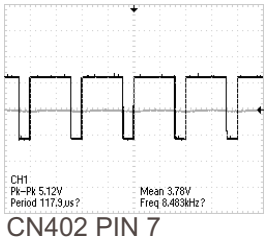
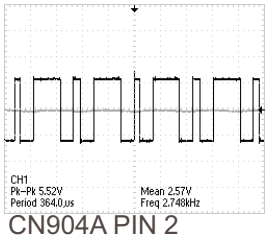
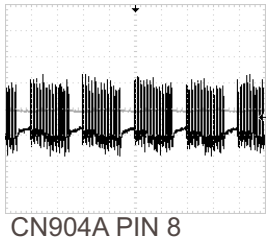
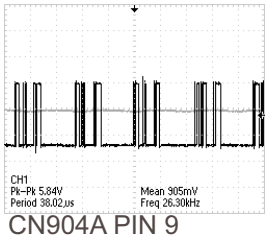
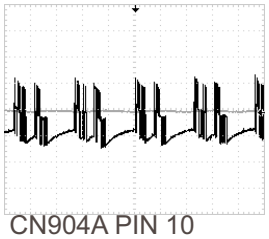
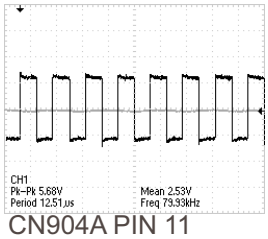
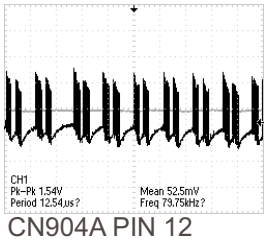
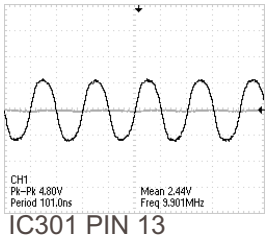
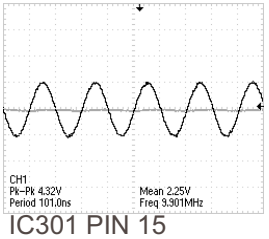
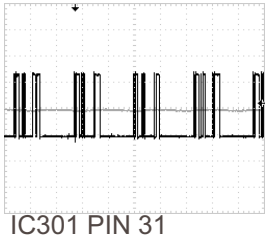
PANEL P.C.B																				
Ref No.	IC401																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	3.9	0	3.8	3.4	3.7	1.6	1.6	0	5.6	-24.3	-21.3	-18.8	-24.3	-25.8	-24.3	-26.4
STANDBY	0.4	0.4	0.4	0.4	0	0	0	0	0	0.2	0.2	0	0.4	-18.6	-18.5	-18.5	-18.6	-18.6	-1	8.7
Ref No.	IC401																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	-26.5	-26.5	-26.5	-26.5	-26.5	-24.6	-26.5	-27	-26.5	-28.3	-26.9	-24.5	-24.5	-24.5	-23.9	-23.9	-23.9	-24.5	-23.9	-24.6
STANDBY	-18.5	-18.5	-18.5	-18.5	-18.6	-18.6	-18.7	-18.7	-18.8	-18.8	-18.8	-18.7	-18.7	-18.8	-18.7	-18.7	-18.8	-18.8	-18.8	-18.7
Ref No.	IC401																			
MODE	41	42	43	44																
CD PLAY	-24.6	-24.6	5	0																
STANDBY	-18.7	-18.8	0.5	0																
Ref No.	Q402				Q403				Q404											
MODE	E	C	B		E	C	B		E	C	B									
CD PLAY	0	4.9	0		-26.9	2.6	-24.5		5	-24.1	2.6									
STANDBY	0	4.8	0		-18.4	0.5	-18.3		0.5	-18.1	0.5									

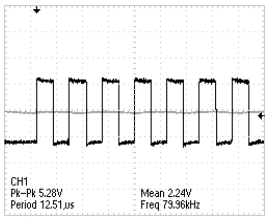
10.1.5. Digital Amp P.C.B.

DIGITAL AMP P.C.B

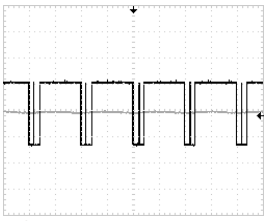
Ref No.	IC551																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.7	0	0	29.4	0	-29.8	-28.7	-29.2	0	0	-29.8	-28.7	-29.3	0	0	29.3	-29.8	-29.8	0	28.9
STANDBY	0.1	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC551.																			
MODE	21	22	23																	
CD PLAY	0	0	-0.1																	
STANDBY	0	0	-0.3																	
Ref No.	IC552																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.7	0	0	29.4	0	-29.8	-28.7	-29.2	0	0	-29.8	-28.7	-29.3	0	0	29.3	-29.8	-29.8	0	28.9
STANDBY	0.2	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC552.																			
MODE	21	22	23																	
CD PLAY	0	0	0																	
STANDBY	0	0	-0.2																	
Ref No.	IC563																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.7	0	0	29.4	0	-29.8	-28.7	-29.2	0	0	-29.8	-28.7	-29.3	0	0	29.3	-29.8	-29.8	0	28.9
STANDBY	0.2	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC563																			
MODE	21	22	23																	
CD PLAY	0	0	0																	
STANDBY	0	0	-0.3																	
Ref No.	IC564																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.7	0	0	29.4	0	-29.8	-28.7	-29.2	0	0	-29.8	-28.7	-29.3	0	0	29.3	-29.8	-29.8	0	28.9
STANDBY	0.2	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC564																			
MODE	21	22	23																	
CD PLAY	0	0	-0.1																	
STANDBY	0	0	-0.2																	
Ref No.	IC5400																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	5.6	2.6	2.8	2.6	2.7	0	5.5	2.1	2.6	2.8	5	2.1	5.6						
STANDBY	0	0.7	0.2	0	0.1	0	0	0.2	0.1	0.1	0.1	0.1	0.1	0.3						
Ref No.	IC5401																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	2.7	2.8	2.7	0	2.8	0	0	1.8	1.8	1.7	1.7	5.4	0	5.7						
STANDBY	0.1	0.1	0.1	0	0.1	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.4						
Ref No.	Q591				Q592				Q5001				Q5002				Q5003			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	4.9	0		0	4.9	0		5.8	0	5.8		0	-0.1	0		0	0	4.1	
STANDBY	0	4.8	0		0	4.8	0		0.1	-0.2	0.1		0	-0.2	0		0	-0.2	0	
Ref No.	Q5004				Q5005				Q5006				Q5007				Q5400			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	4.1		5.8	29.3	6.3		0	5.7	0		0	29.3	0		2.8	0	5.6	
STANDBY	0	-0.2	0		0	0	0		0	0.1	0		0	0	0		0	4.5	0.1	
Ref No.	Q5401				Q5500				Q5501				Q5502				Q5503			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	2.8	2.6	2.8		0	10.3	0		10.3	0	10.3		0	0	0.3		0	4.9	0	
STANDBY	0	-4.5	0.1		0	0.1	0		0.1	0	0.1		0	0	0		0	0.5	0	

10.2. Waveform Chart

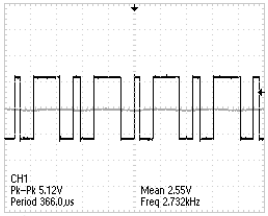
 CN105 PIN 3 CD PLAY 5.52Vp-p (5usec.div)	 CH1 Pk-Pk 5.12V Period 38.00µs Mean 855mV Freq 26.32kHz CN105 PIN 10 CD PLAY 5.12Vp-p (500usec.div)	 CH1 Pk-Pk 1.48V Period 1.088µs Cyc RMS 471mV Freq 919.1kHz CN400 PIN 5 CD PLAY 1.48Vp-p (1usec.div)	 CH1 Pk-Pk 864mV Period 827.0ns Cyc RMS 245mV Freq 1.209MHz CN400 PIN 8 CD PLAY 864mVp-p (500nsec.div)
 CN402 PIN 5 CD PLAY 5.12Vp-p (10msec.div)	 CH1 Pk-Pk 3.92V Period 8.870µs? Mean 2.57V Freq 112.7kHz? CN402 PIN 6 CD PLAY 3.92Vp-p (5usec.div)	 CH1 Pk-Pk 5.12V Period 117.9µs? Mean 3.78V Freq 8.483kHz? CN402 PIN 7 CD PLAY 5.12Vp-p (10msec.div)	 CH1 Pk-Pk 5.52V Period 364.0µs Mean 2.57V Freq 2.748kHz CN904A PIN 2 CD PLAY 5.52Vp-p (500usec.div)
 CN904A PIN 8 CD PLAY 1.56Vp-p (10msec.div)	 CH1 Pk-Pk 5.84V Period 38.02µs Mean 905mV Freq 26.30kHz CN904A PIN 9 CD PLAY 5.84Vp-p (500usec.div)	 CN904A PIN 10 CD PLAY 2.8Vp-p (500usec.div)	 CH1 Pk-Pk 5.68V Period 12.51µs Mean 2.53V Freq 79.93kHz CN904A PIN 11 CD PLAY 5.68Vp-p (10usec.div)
 CH1 Pk-Pk 1.54V Period 12.54µs? Mean 52.5mV Freq 79.75kHz? CN904A PIN 12 CD PLAY 1.54Vp-p (1msec.div)	 CH1 Pk-Pk 4.80V Period 101.0ns Mean 2.44V Freq 9.901MHz IC301 PIN 13 CD PLAY 4.8Vp-p (50nsec.div)	 CH1 Pk-Pk 4.32V Period 101.0ns Mean 2.25V Freq 9.901MHz IC301 PIN 15 CD PLAY 4.32Vp-p (50nsec.div)	 IC301 PIN 31 CD PLAY 5.36Vp-p (500usec.div)



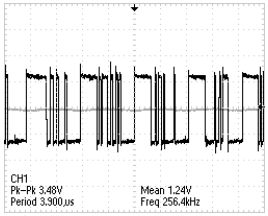
IC301 PIN 33
CD PLAY
5.28Vp-p (10usec.div)



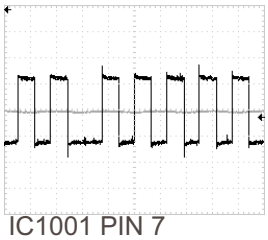
IC301 PIN 69
CD PLAY
5.04Vp-p (10msec.div)



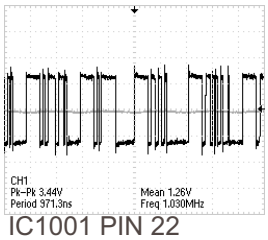
IC301 PIN 76
CD PLAY
5.12Vp-p (500usec.div)



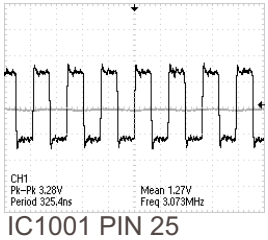
IC1001 PIN 3
CD PLAY
3.48Vp-p (5usec.div)



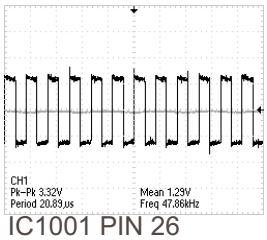
IC1001 PIN 7
CD PLAY
3.52Vp-p (10usec.div)



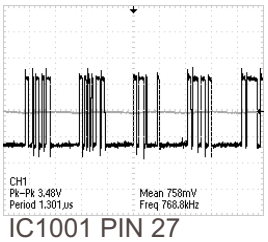
IC1001 PIN 22
CD PLAY
3.44Vp-p (5usec.div)



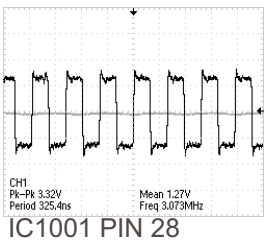
IC1001 PIN 25
CD PLAY
3.28Vp-p (250nsec.div)



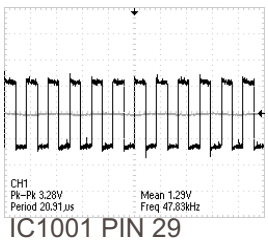
IC1001 PIN 26
CD PLAY
3.32Vp-p (25usec.div)



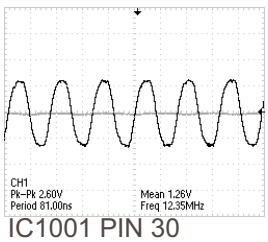
IC1001 PIN 27
CD PLAY
3.48Vp-p (5usec.div)



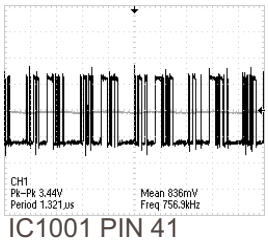
IC1001 PIN 28
CD PLAY
3.32Vp-p (250nsec.div)



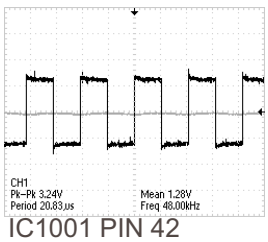
IC1001 PIN 29
CD PLAY
3.28Vp-p (25usec.div)



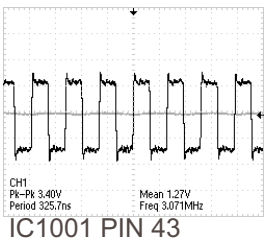
IC1001 PIN 30
CD PLAY
2.6Vp-p (50nsec.div)



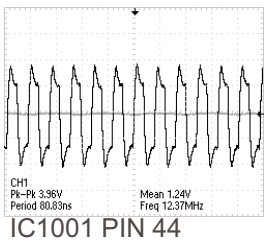
IC1001 PIN 41
CD PLAY
3.44Vp-p (10usec.div)



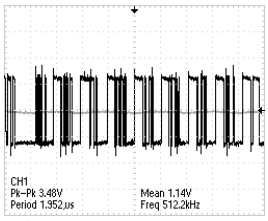
IC1001 PIN 42
CD PLAY
3.24Vp-p (10usec.div)



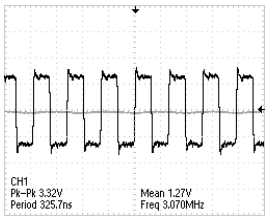
IC1001 PIN 43
CD PLAY
3.4Vp-p (250nsec.div)



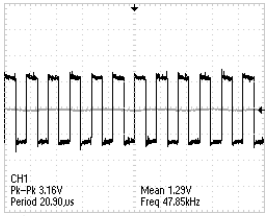
IC1001 PIN 44
CD PLAY
3.96Vp-p (100nsec.div)



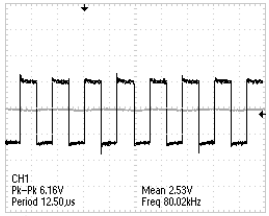
IC1101 PIN 1
CD PLAY
3.48Vp-p (10usec.div)



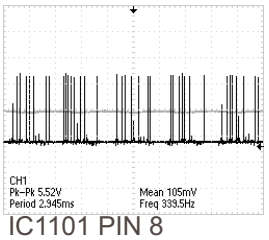
IC1101 PIN 2
CD PLAY
3.32Vp-p (250nsec.div)



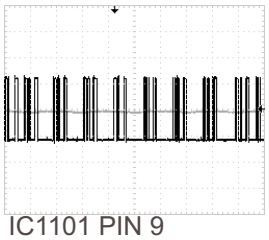
IC1101 PIN 3
CD PLAY
3.16Vp-p (25usec.div)



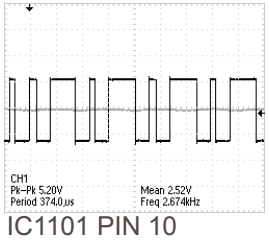
IC1101 PIN 7
CD PLAY
6.16Vp-p (10usec.div)



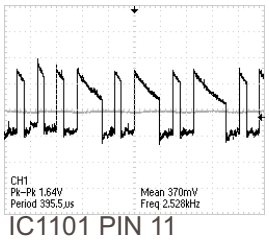
IC1101 PIN 8
CD PLAY
5.52Vp-p (10msec.div)



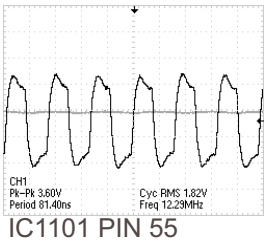
IC1101 PIN 9
CD PLAY
5.2Vp-p (1msec.div)



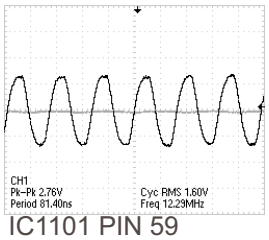
IC1101 PIN 10
CD PLAY
5.2Vp-p (500usec.div)



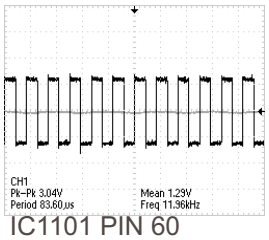
IC1101 PIN 11
CD PLAY
1.64Vp-p (500usec.div)



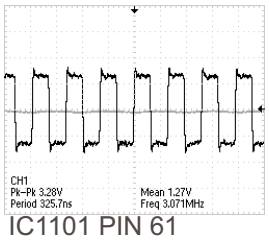
IC1101 PIN 55
CD PLAY
3.6Vp-p (50nsec.div)



IC1101 PIN 59
CD PLAY
2.76Vp-p (50nsec.div)

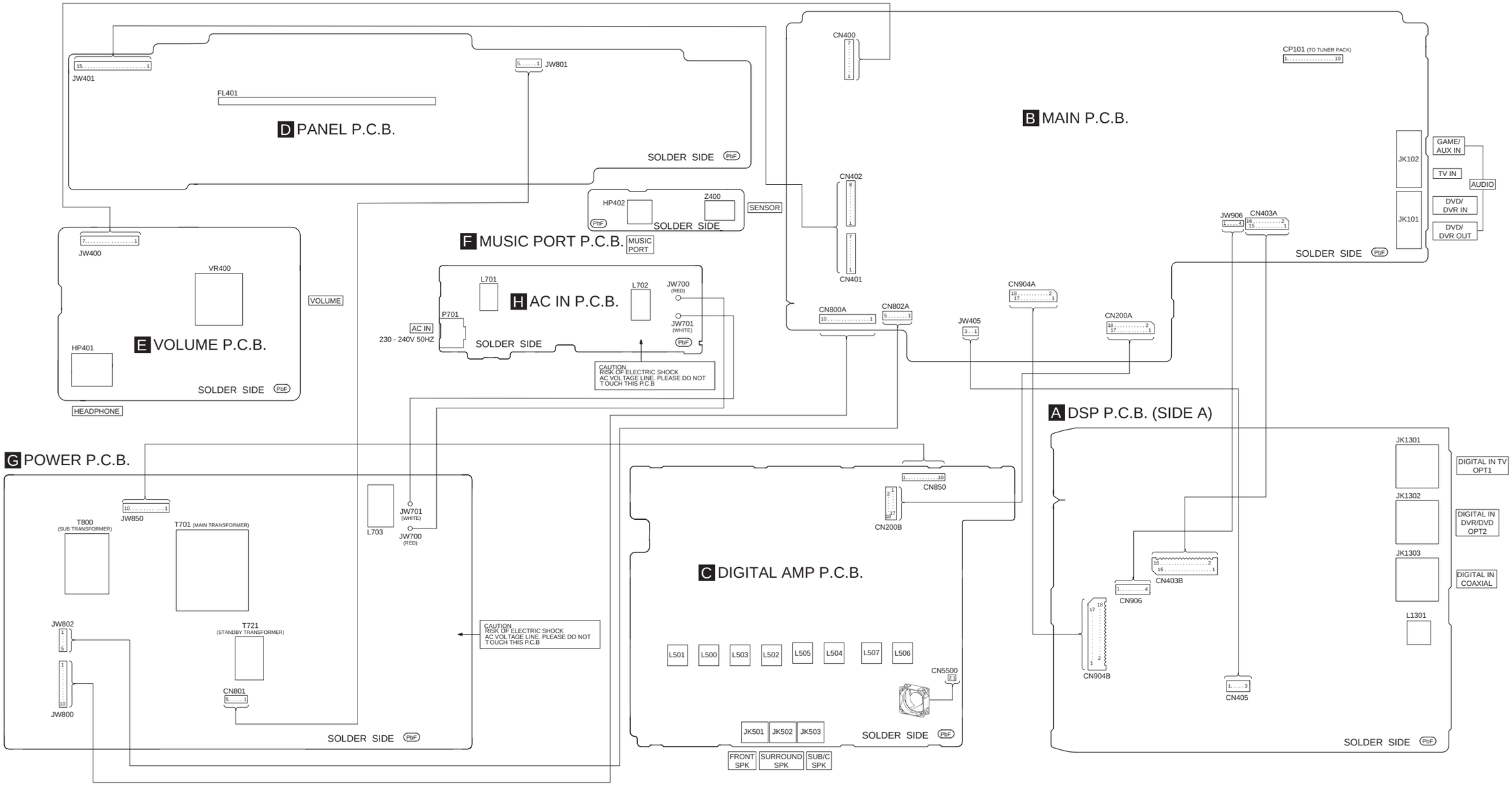


IC1101 PIN 60
CD PLAY
3.04Vp-p (100usec.div)

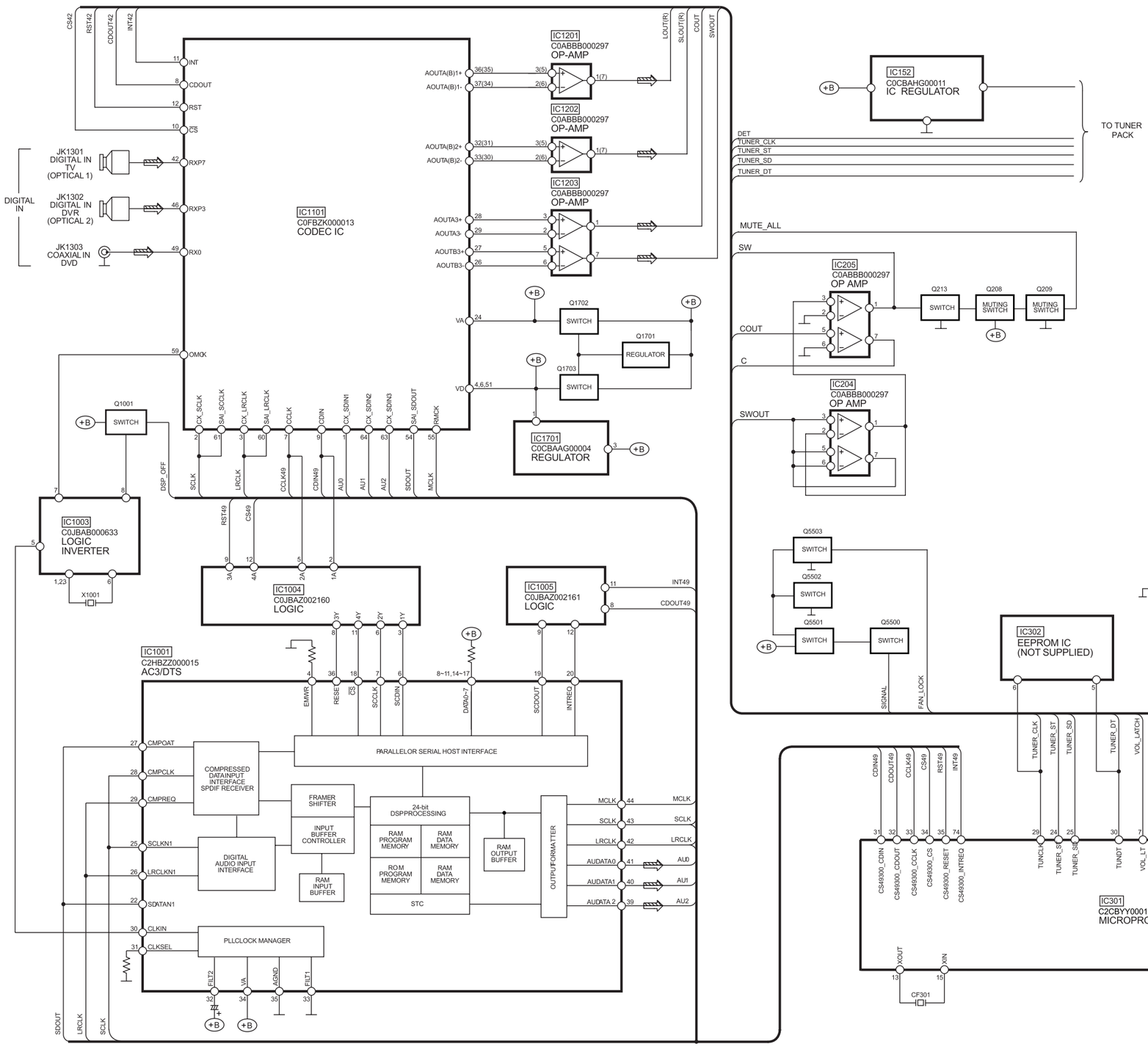


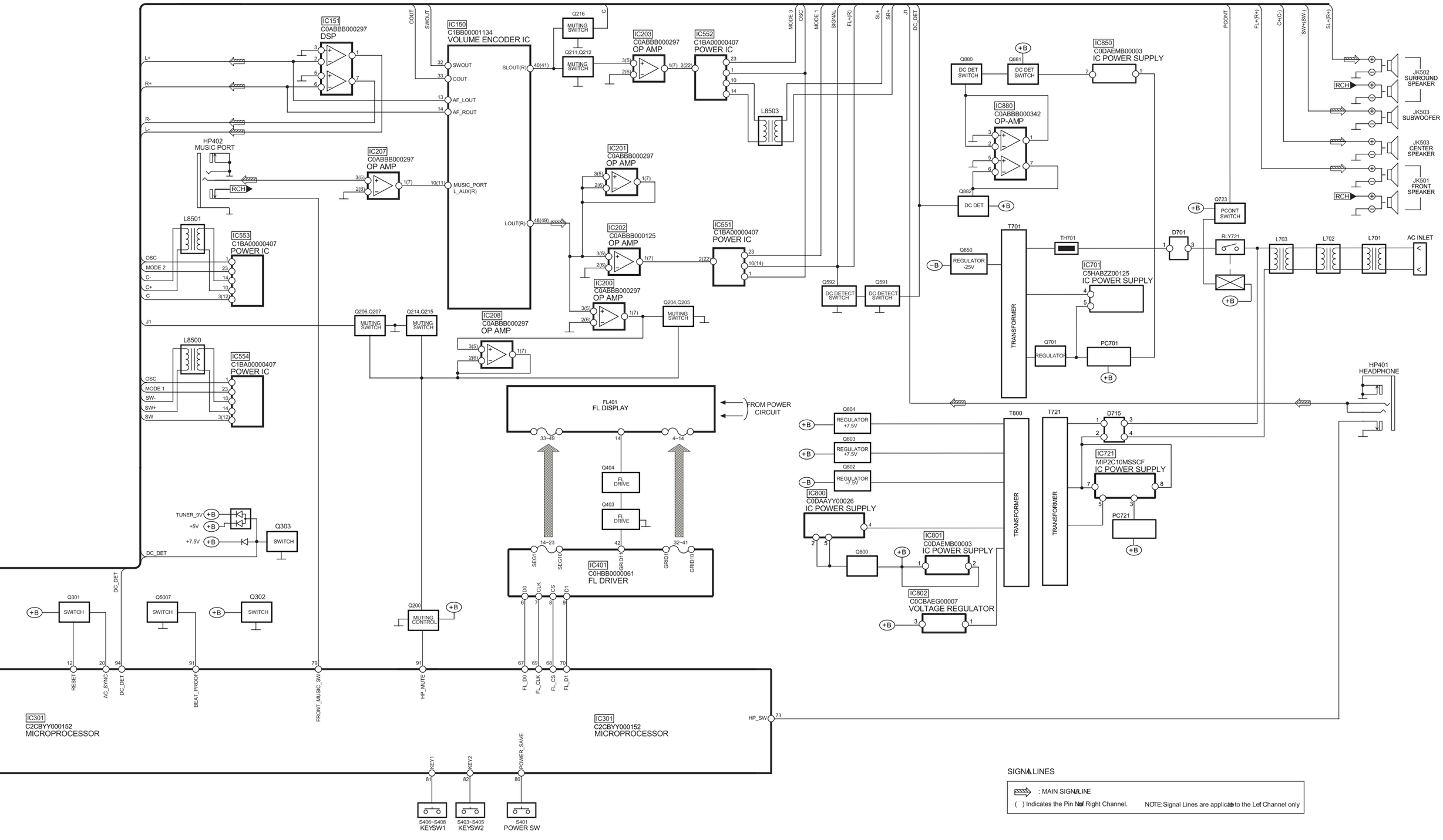
IC1101 PIN 61
CD PLAY
3.28Vp-p (250nsec.div)

11 Wiring Diagrams



12 Block Diagram





SIGNAL LINES

: MAIN SIGNAL LINE

( ) Indicates the Pin No. of Right Channel. NOTE: Signal Lines are applicable to the Left Channel only

13 Schematic Diagram

13.1. Notes of Schematic Diagram

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

Note:

S401 : Power switch
S402 : < I/P Select switch
S403 : I/P Select > switch
S404 : Enter switch
S406 : Menu/-Setup switch
S407 : Tune_down switch
S408 : Tune_up 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.

13.2. (A) DSP Circuit

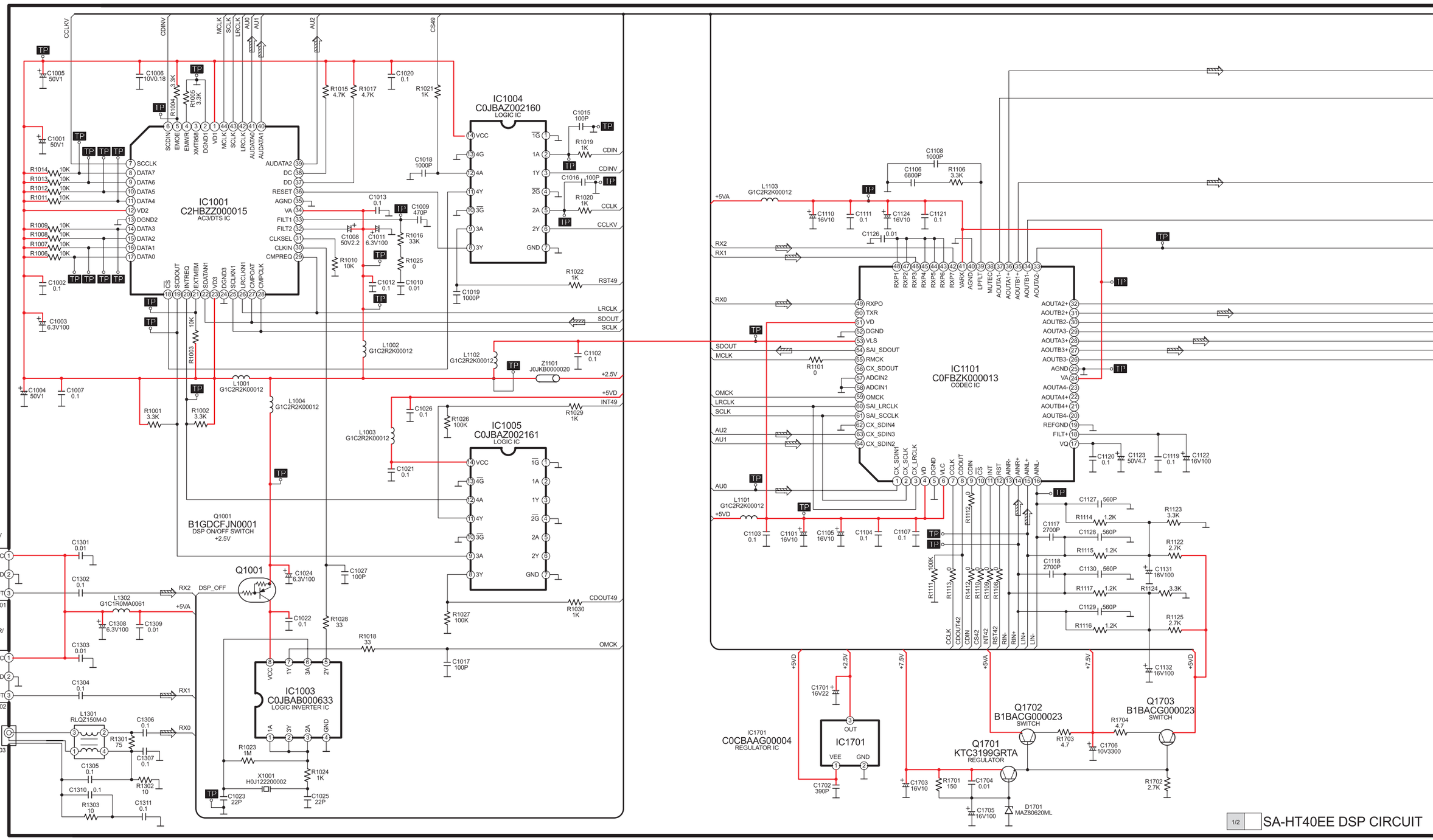
SCHEMATIC DIAGRAM - 1

A DSP CIRCUIT

: +B SIGNAL LINE

: -B SIGNAL LINE

: MAIN SIGNAL LINE



1/2 SA-HT40EE DSP CIRCUIT

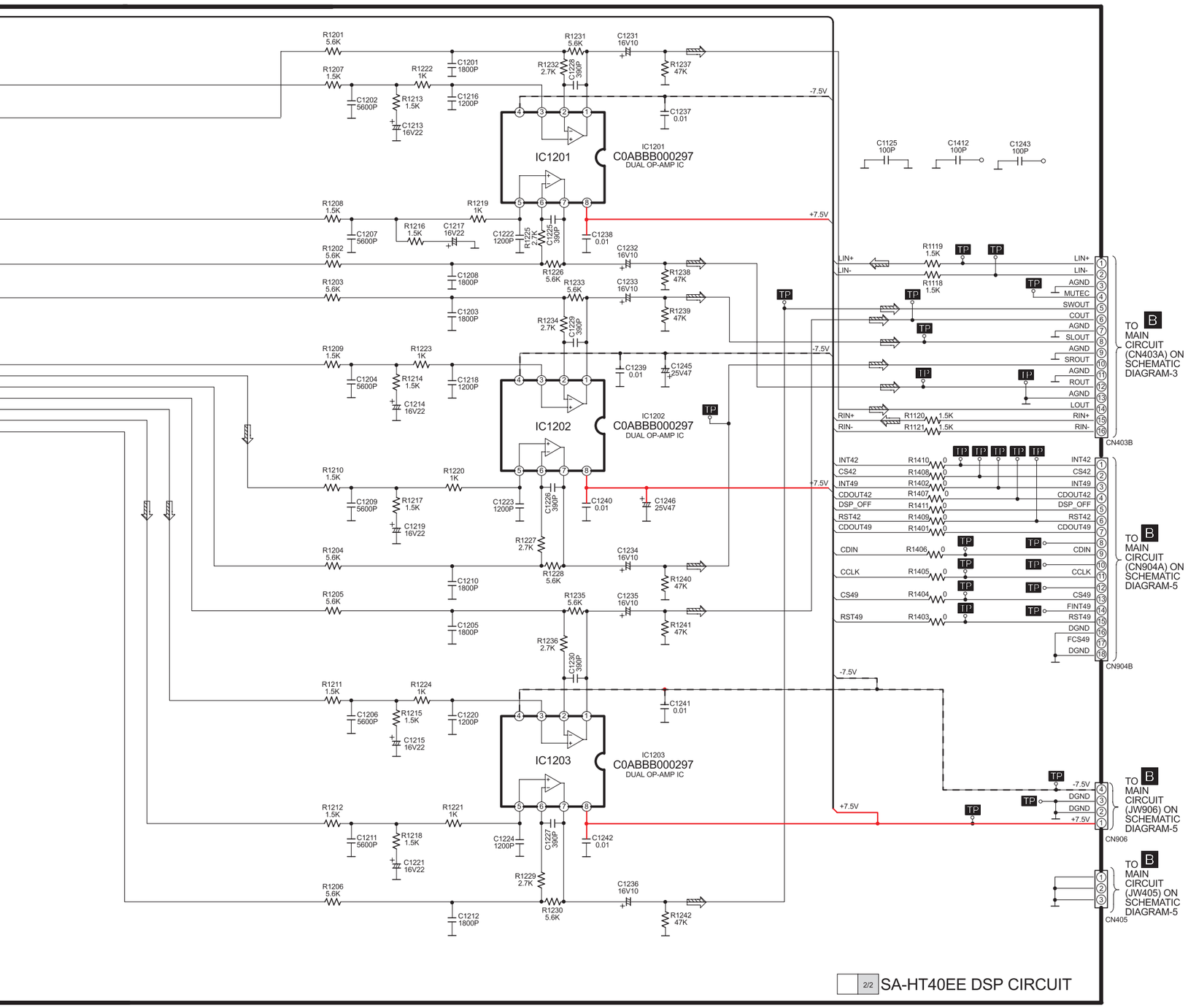
SCHEMATIC DIAGRAM - 2

A DSP CIRCUIT

: +B SIGNAL LINE

: -B SIGNAL LINE

: MAIN SIGNAL LINE



2/2 SA-HT40EE DSP CIRCUIT

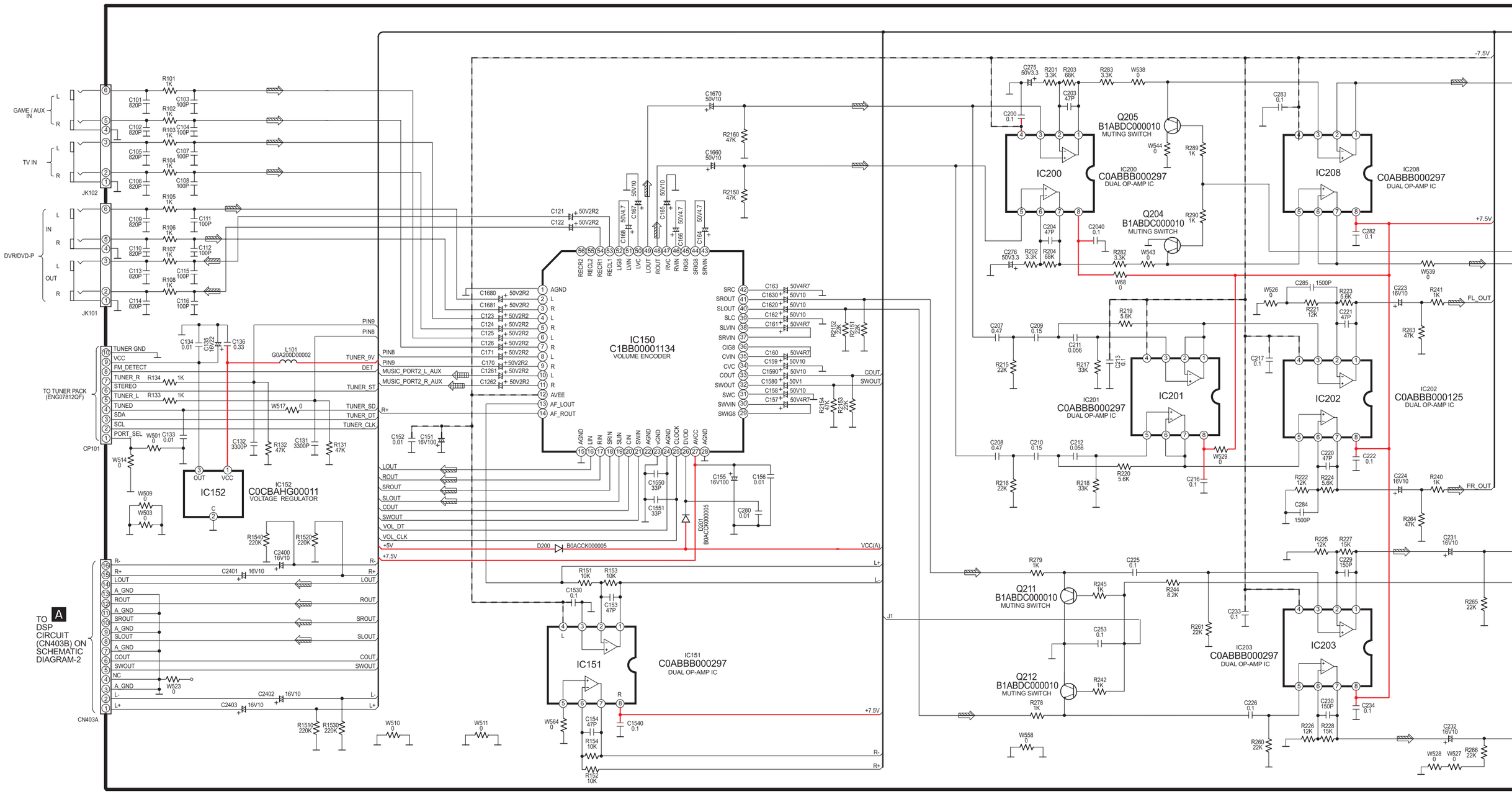
13.3. (B) Main Circuit

SCHEMATIC DIAGRAM - 3

B MAIN CIRCUIT

: +B SIGNAL LINE : -B SIGNAL LINE

: MAIN SIGNAL LINE : AUX SIGNAL LINE



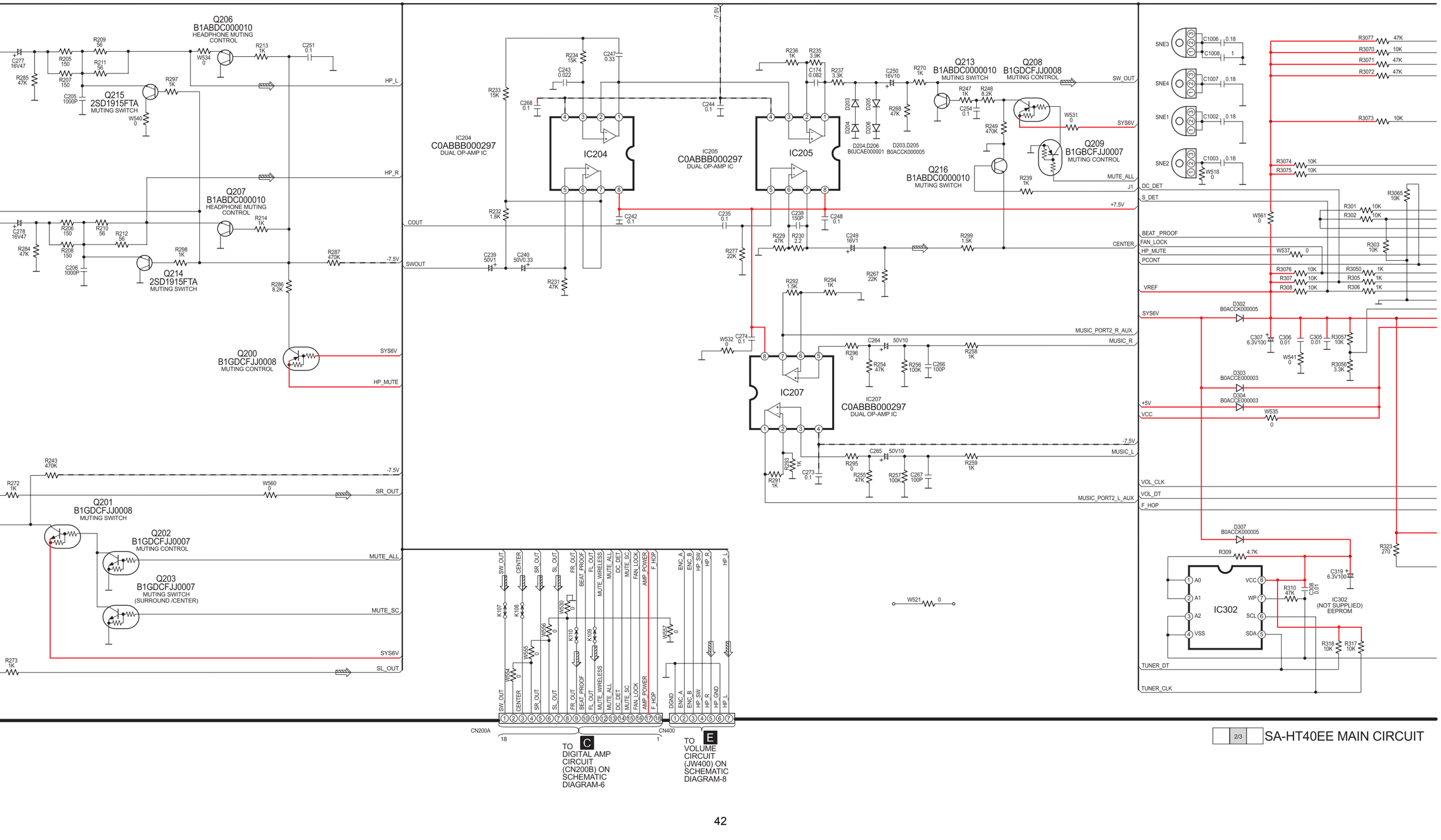
1/3 SA-HT40EE MAIN CIRCUIT

SCHEMATIC DIAGRAM - 4

B MAIN CIRCUIT

: +B SIGNAL LINE : -B SIGNAL LINE

: MAIN SIGNAL LINE : AUX SIGNAL LINE

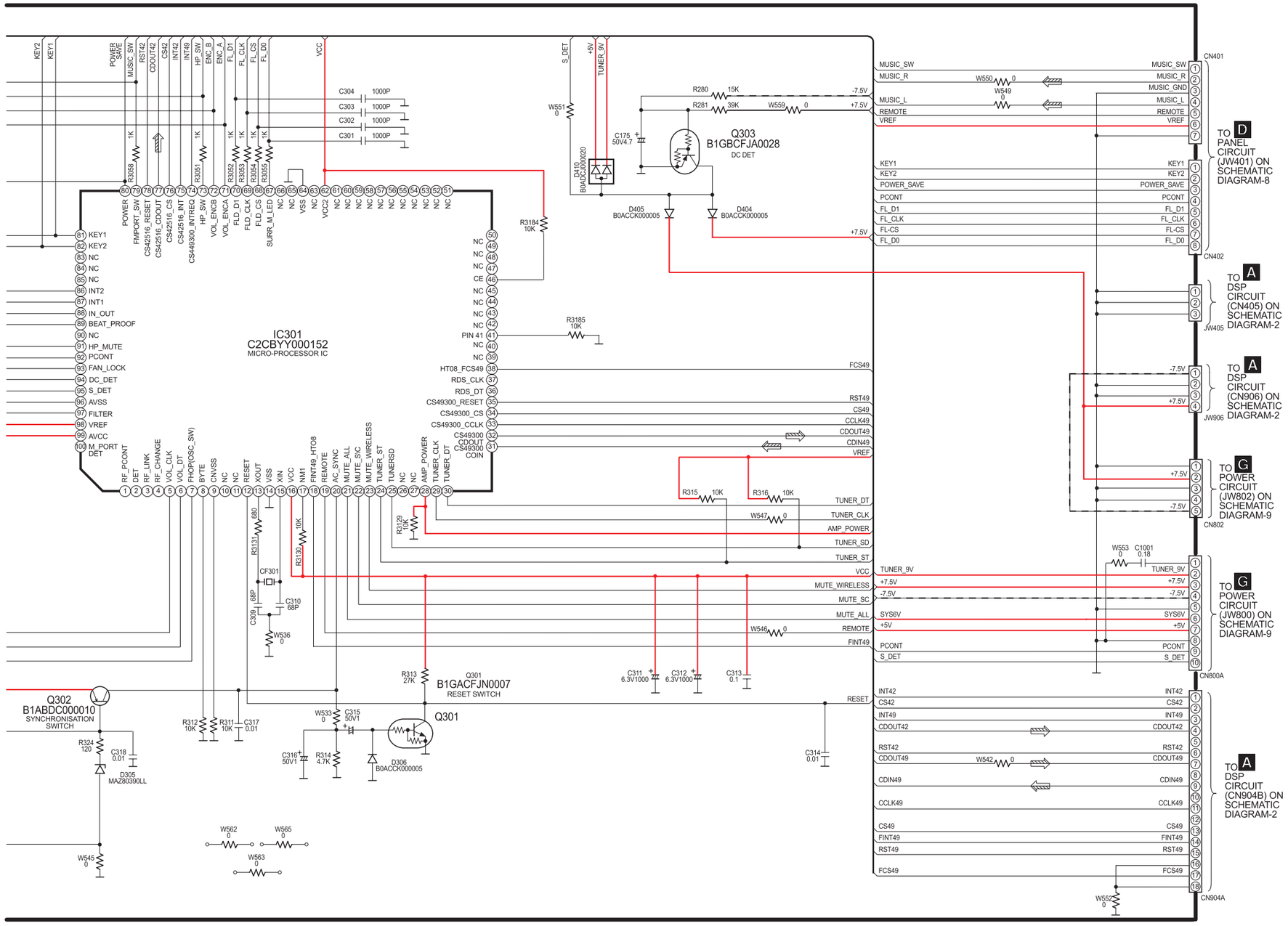


SCHEMATIC DIAGRAM - 5

B MAIN CIRCUIT

: +B SIGNAL LINE : -B SIGNAL LINE

: MAIN SIGNAL LINE : AUX SIGNAL LINE



3/3 SA-HT40EE MAIN CIRCUIT

SA-HT40EE

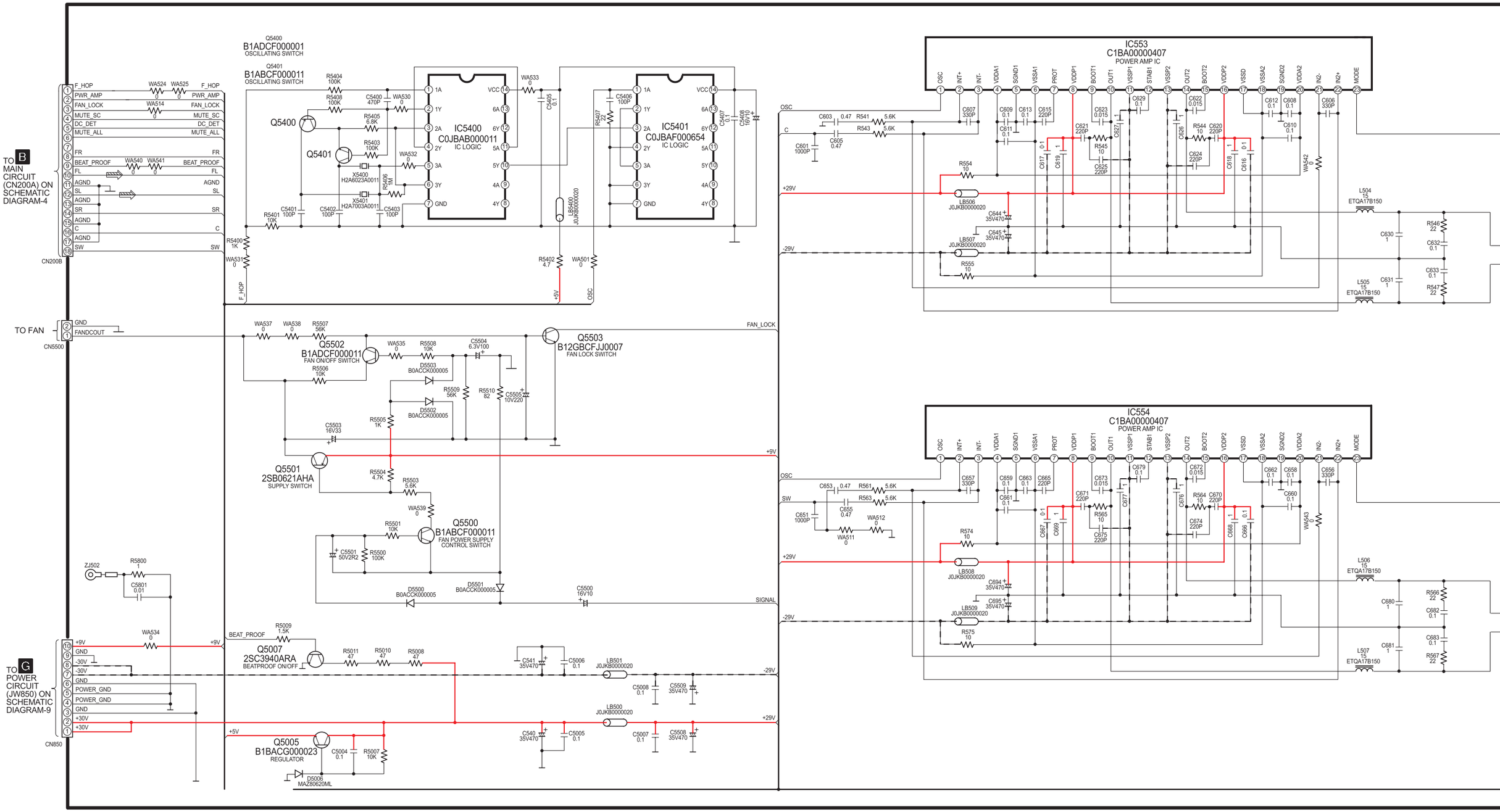
13.4. (C) Digital Amp Circuit

SCHEMATIC DIAGRAM - 6

C DIGITAL AMP CIRCUIT

: +B SIGNAL LINE : -B SIGNAL LINE

: MAIN SIGNAL LINE



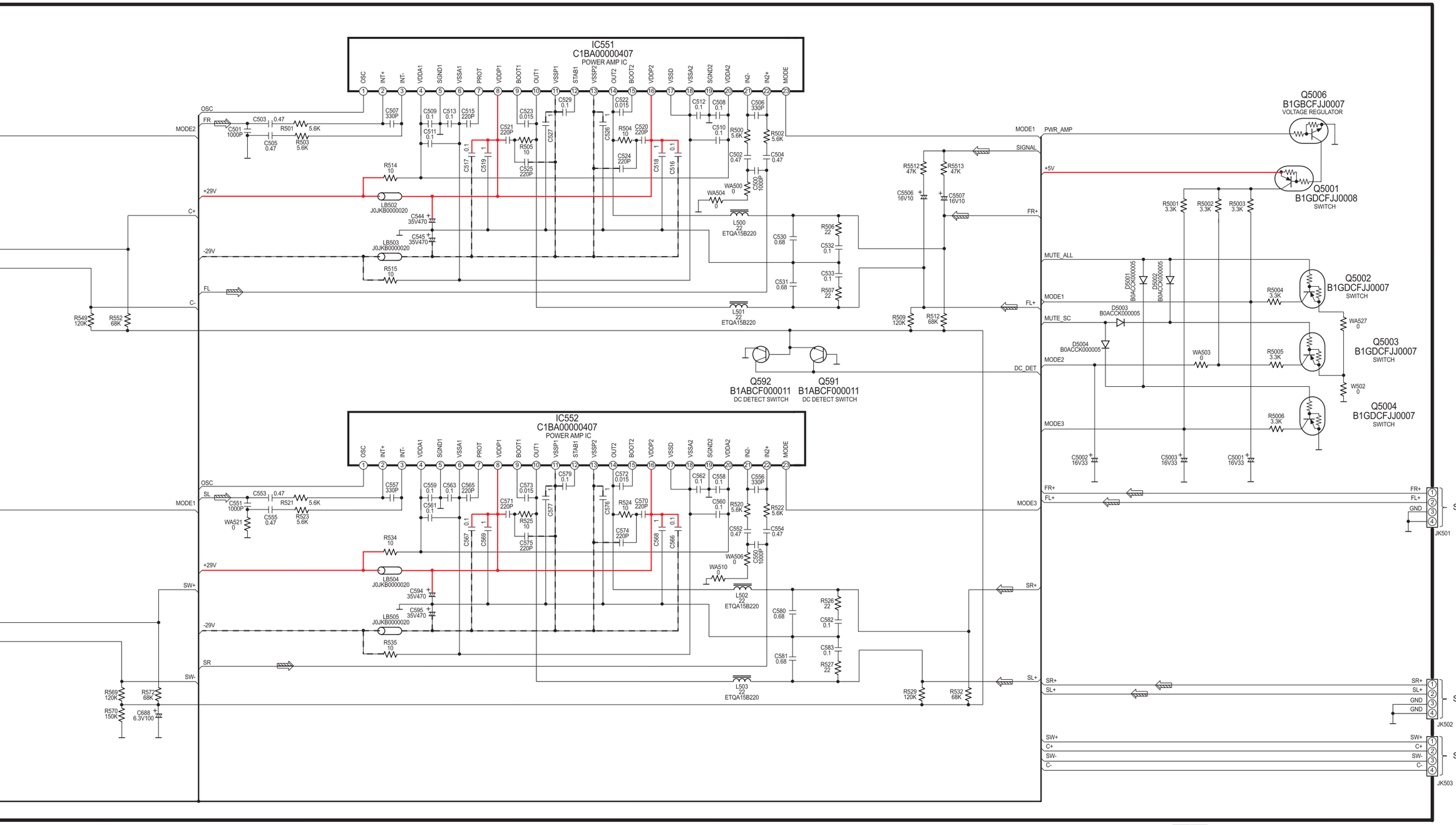
1/2 SA-HT40EE DIGITAL AMP CIRCUIT

SCHEMATIC DIAGRAM - 7

C DIGITAL AMP CIRCUIT

: +B SIGNAL LINE - - - : -B SIGNAL LINE

: MAIN SIGNAL LINE



2/2 SA-HT40EE DIGITAL AMP CIRCUIT

13.5. (D) Panel Circuit, (E) Volume Circuit & (F) Music Port Circuit

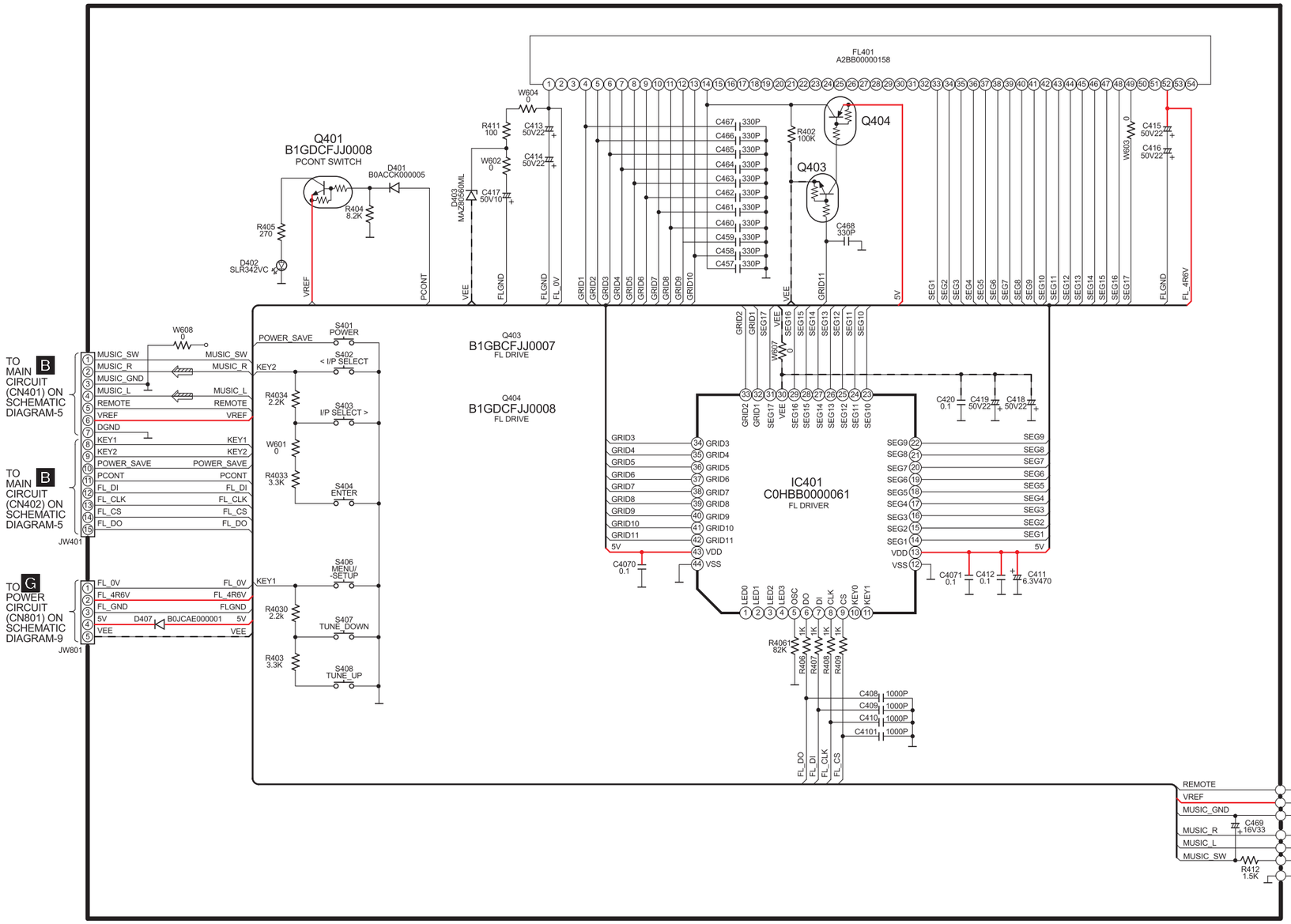
SCHEMATIC DIAGRAM - 8

: +B SIGNAL LINE

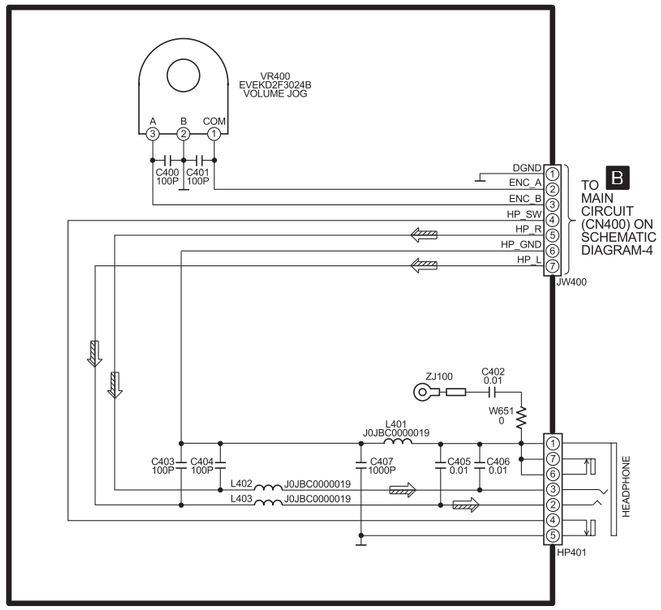
: -B SIGNAL LINE

: MAIN SIGNAL LINE

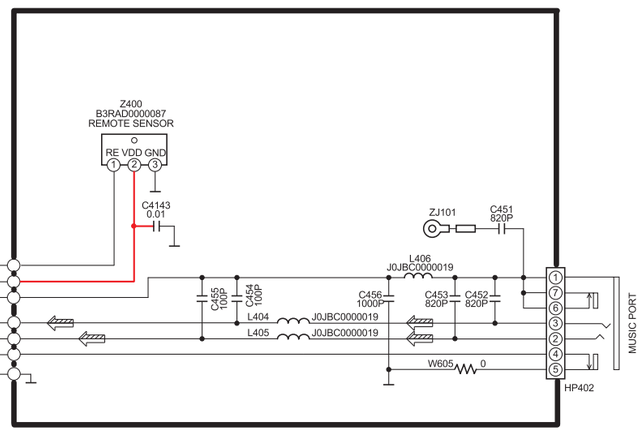
D PANEL CIRCUIT



E VOLUME CIRCUIT



F MUSIC PORT CIRCUIT



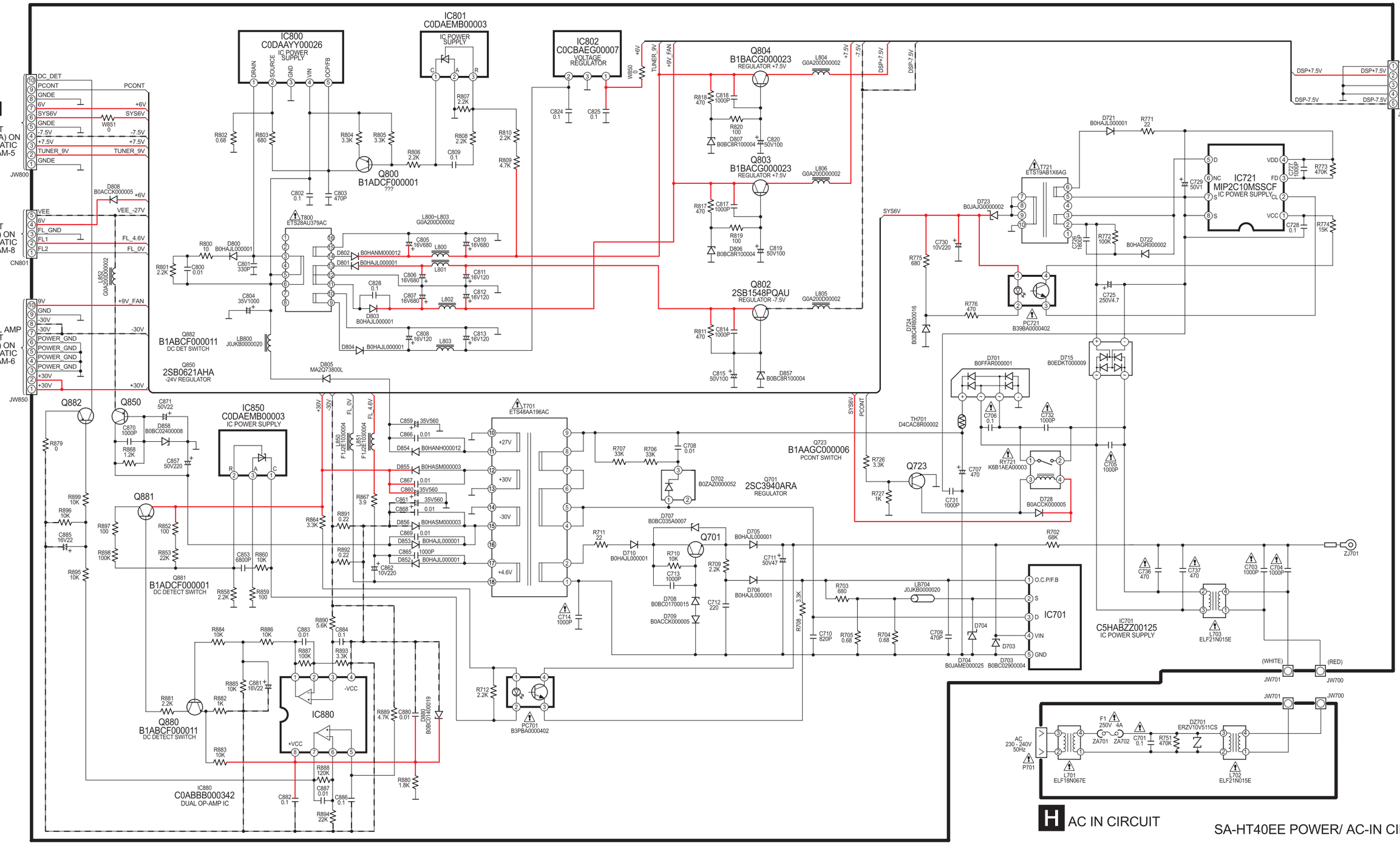
SA-HT40EE PANEL CIRCUIT / VOLUME CIRCUIT / MUSIC PORT CIRCUIT

13.6. (G) Power Circuit & (H) AC In Circuit

SCHEMATIC DIAGRAM - 9

G POWER CIRCUIT

: +B SIGNAL LINE : -B SIGNAL LINE



H AC IN CIRCUIT

SA-HT40EE POWER/ AC-IN CIRCUIT

14 Printed Circuit Board Diagram

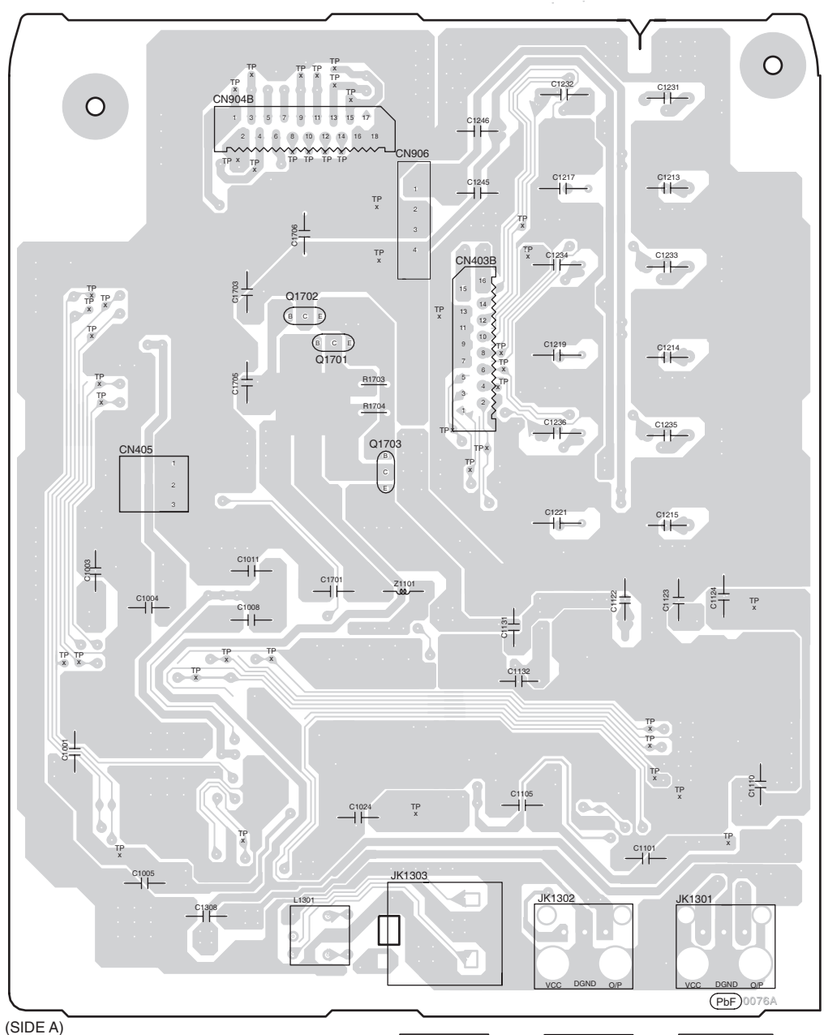
Note: Circuit board diagrams may be modified at any time with the development of new technology.

14.1. (A) DSP P.C.B.

A B C D E F G H I J K L M N O P

1 2 3 4 5 6 7 8 9

A DSP P.C.B (REPV0076A-T)

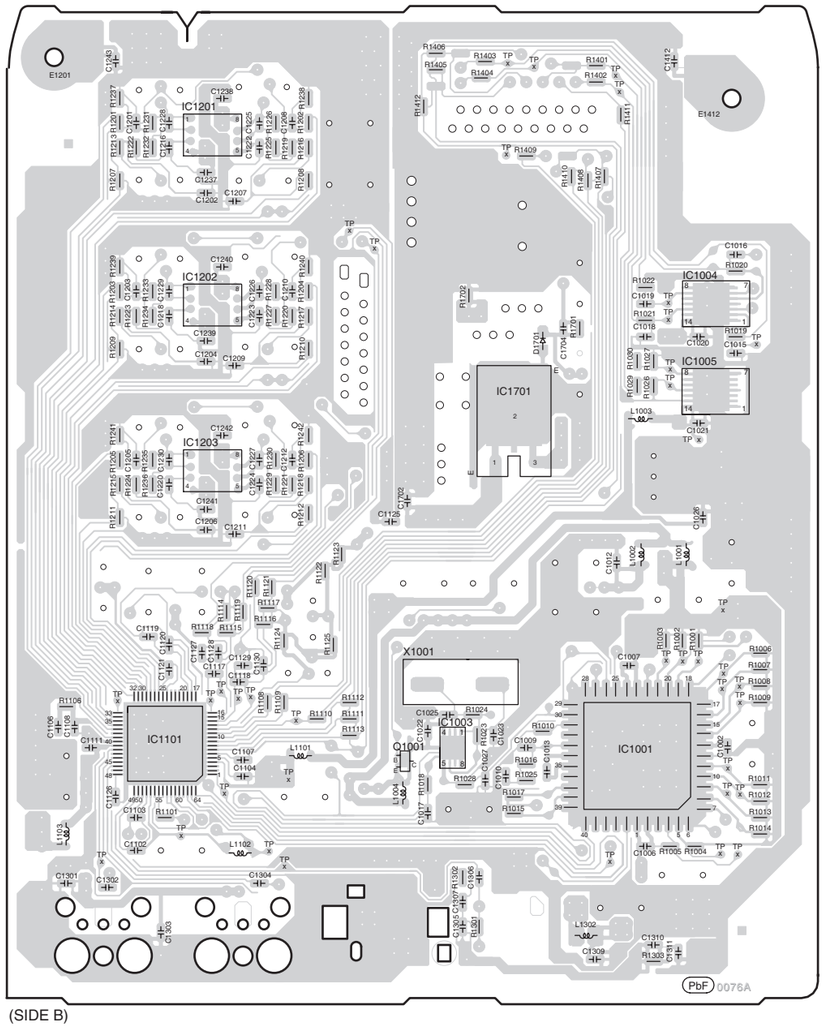


(SIDE A)

DIGITAL IN COAXIAL

DIGITAL IN DVR/DVD OPT 2

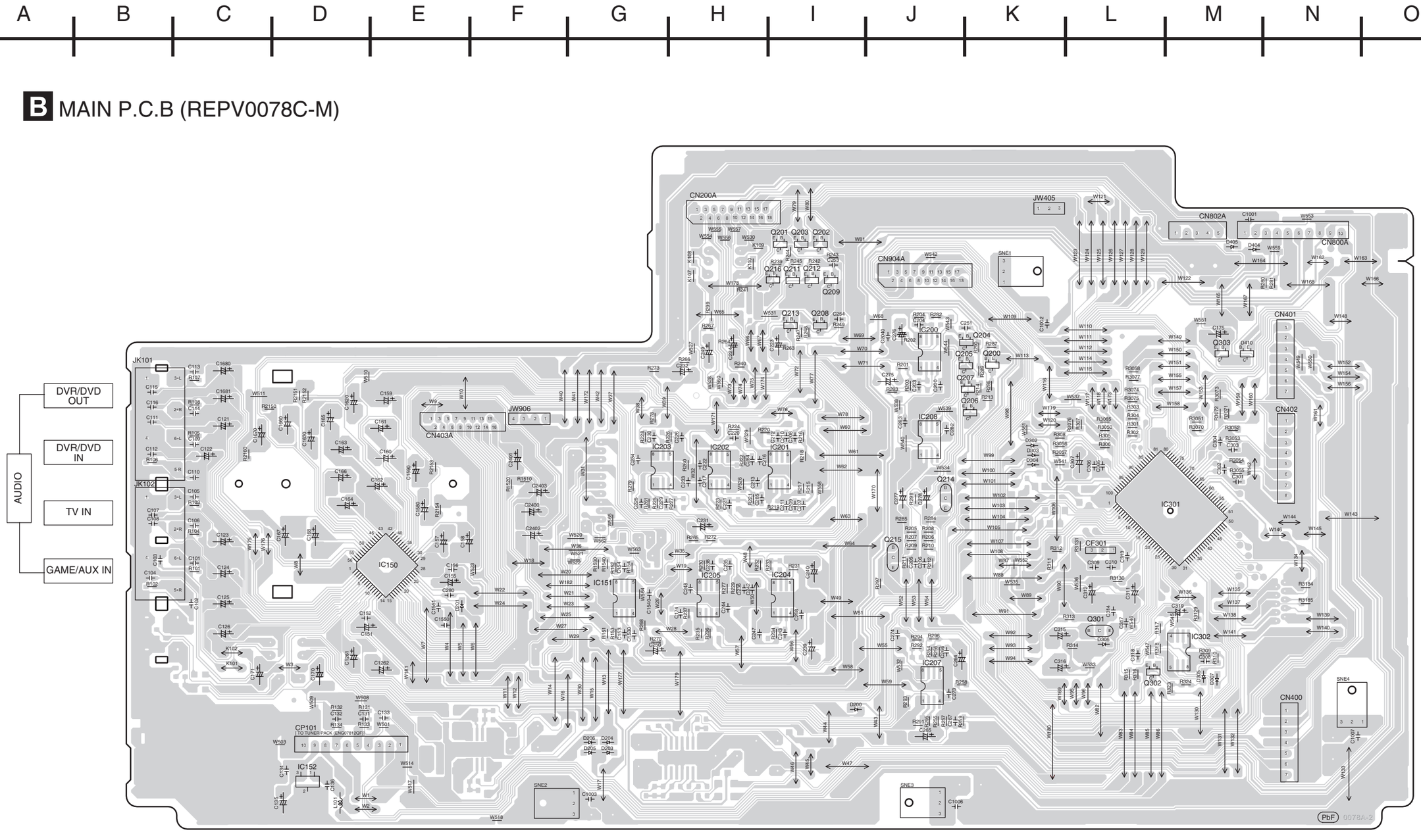
DIGITAL IN TV OPT 1



(SIDE B)

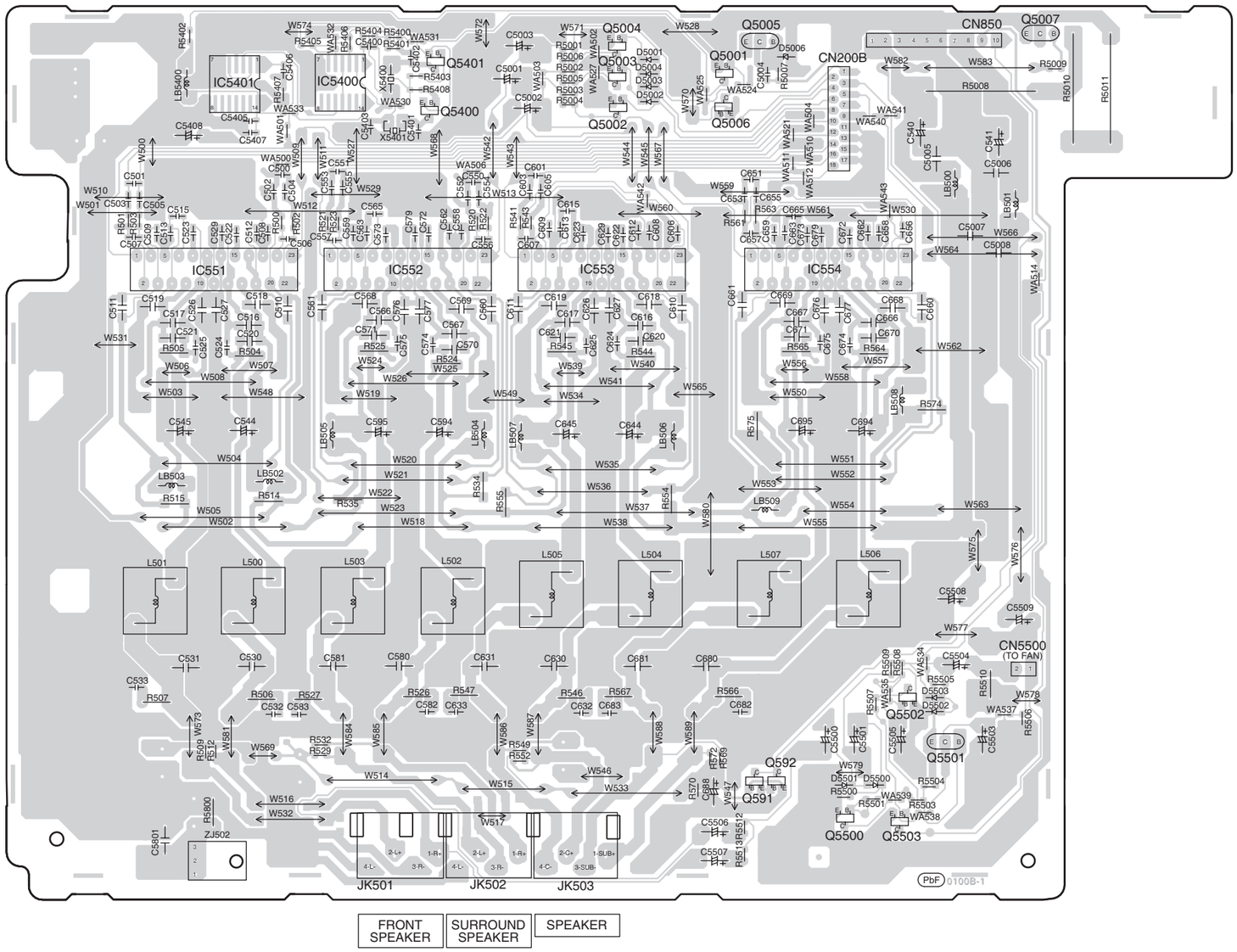
14.2. (B) Main P.C.B.

B MAIN P.C.B (REPV0078C-M)



14.3. (C) Digital Amp P.C.B.

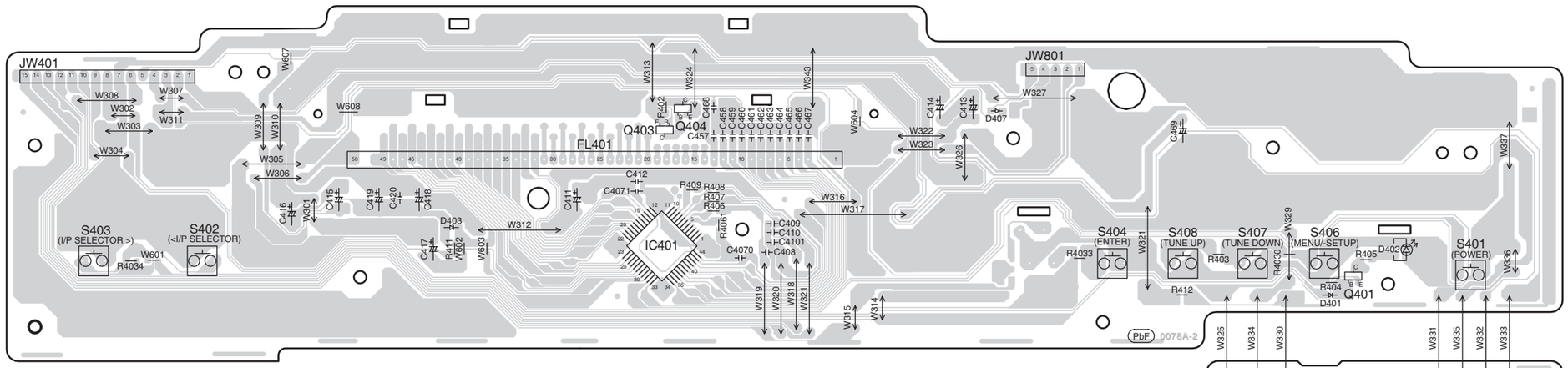
C DIGITAL AMP P.C.B (REPV0077C-T)



FRONT SPEAKER	SURROUND SPEAKER	SPEAKER

14.4. (D) Panel P.C.B., (E) Volume P.C.B. & (F) Music Port P.C.B.

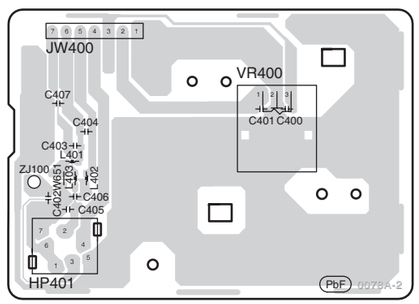
D PANEL P.C.B (REPV0078C-M)



SENSOR

MUSIC PORT

E VOLUME P.C.B (REPV0078C-M)

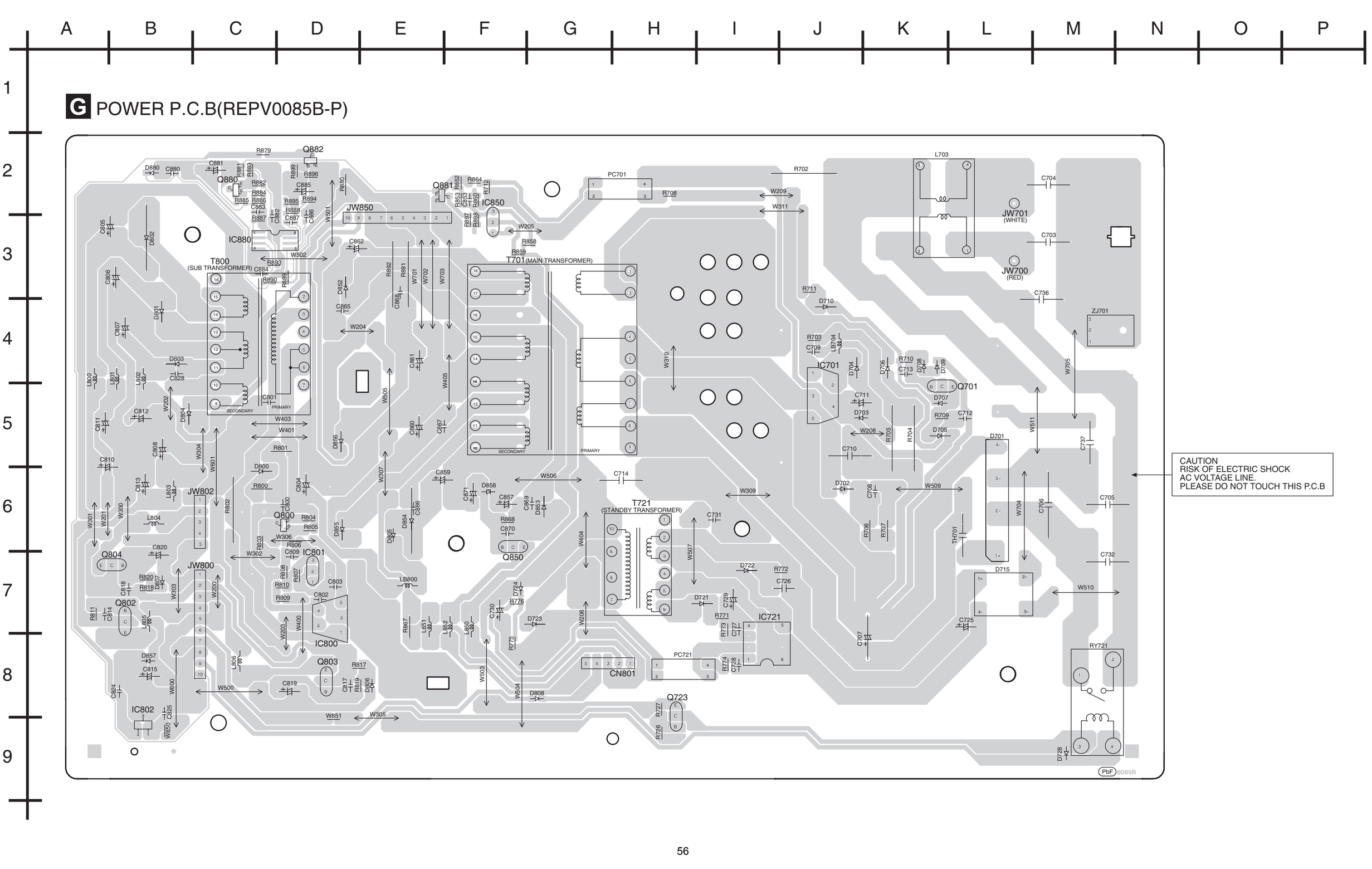


VOLUME

HEADPHONE

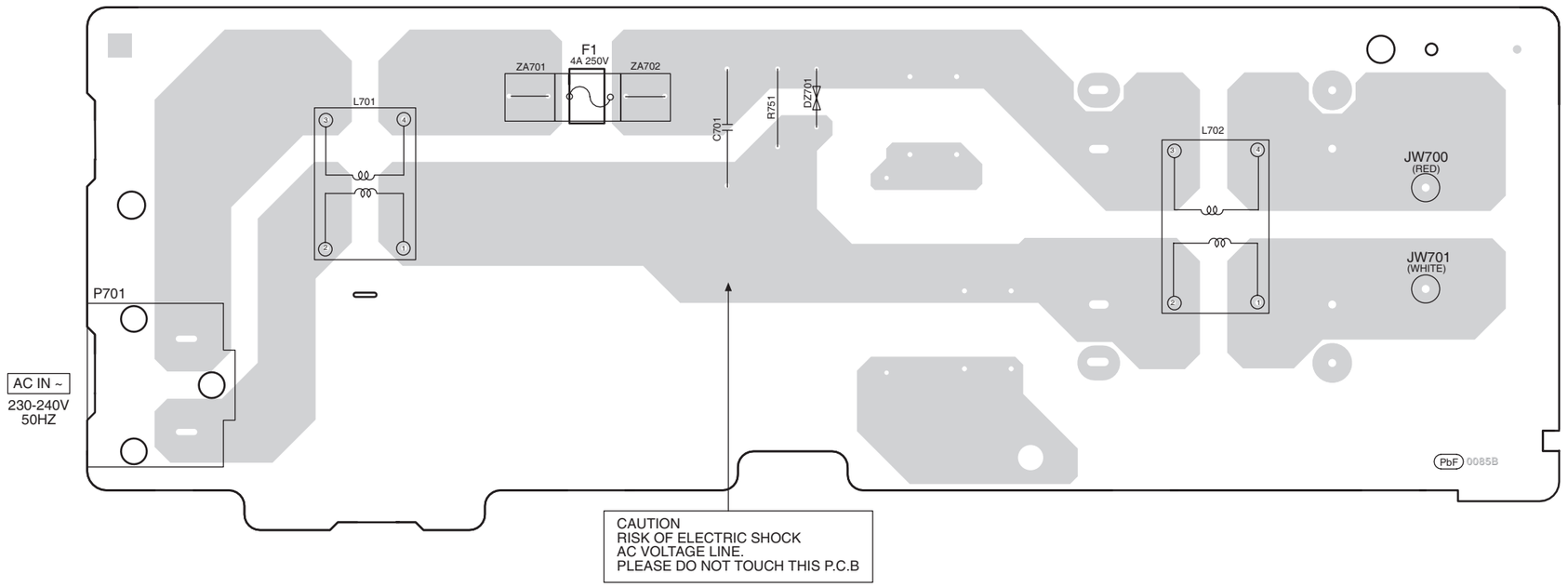
F MUSIC PORT P.C.B (REPV0078C-M)

14.5. (G) Power P.C.B.



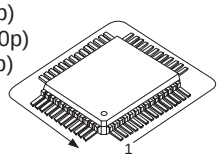
14.6. (H) AC In P.C.B.

H AC IN P.C.B (REPV0085B-P)

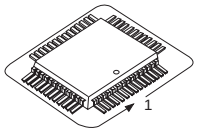


15 Illustrations of IC's, Transistors & Diodes

C1BB00001134 (56p)
C0HBB0000061 (44p)
C2CBYY000152 (100p)
C0FBZK000013 (64p)



C2HBZZ000015 (44p)



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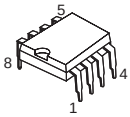
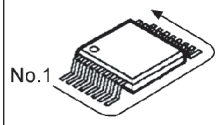
C0ABBB000297



C0JBAZ002160 (14p)
C0JBAZ002161 (14p)



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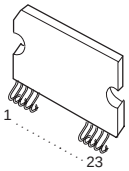
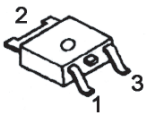


C0CBAAG00004 (3p)
C0CBAEG00007



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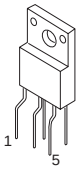

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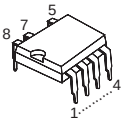

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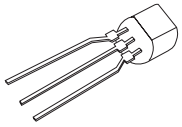
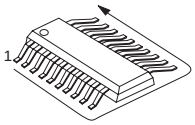


C0JBAB000633 (8p)
C0JBAB000011 (14p)
C0JBAF000654 (14p)
C0ABBB000125 (8p)



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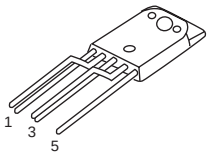

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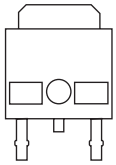

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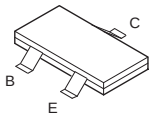

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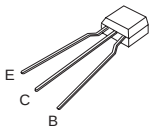

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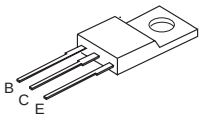

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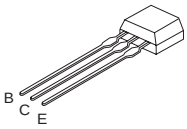

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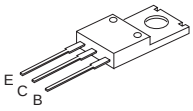

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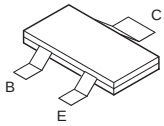

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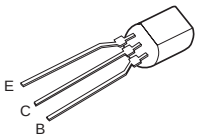

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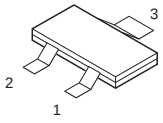

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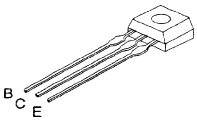

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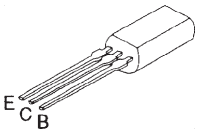

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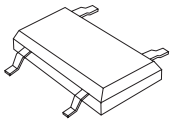

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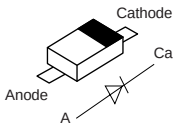

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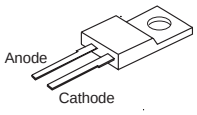

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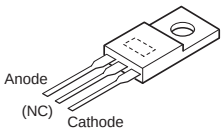

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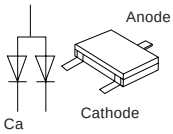

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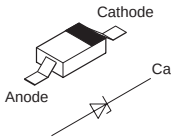

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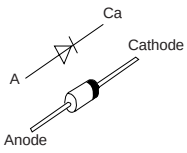

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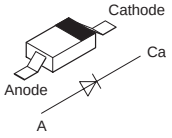

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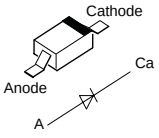

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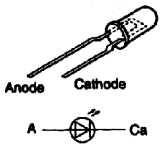

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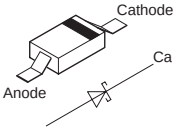
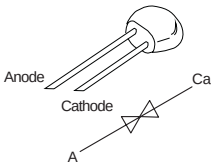


ERZV10V511CS



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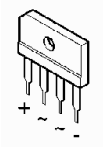


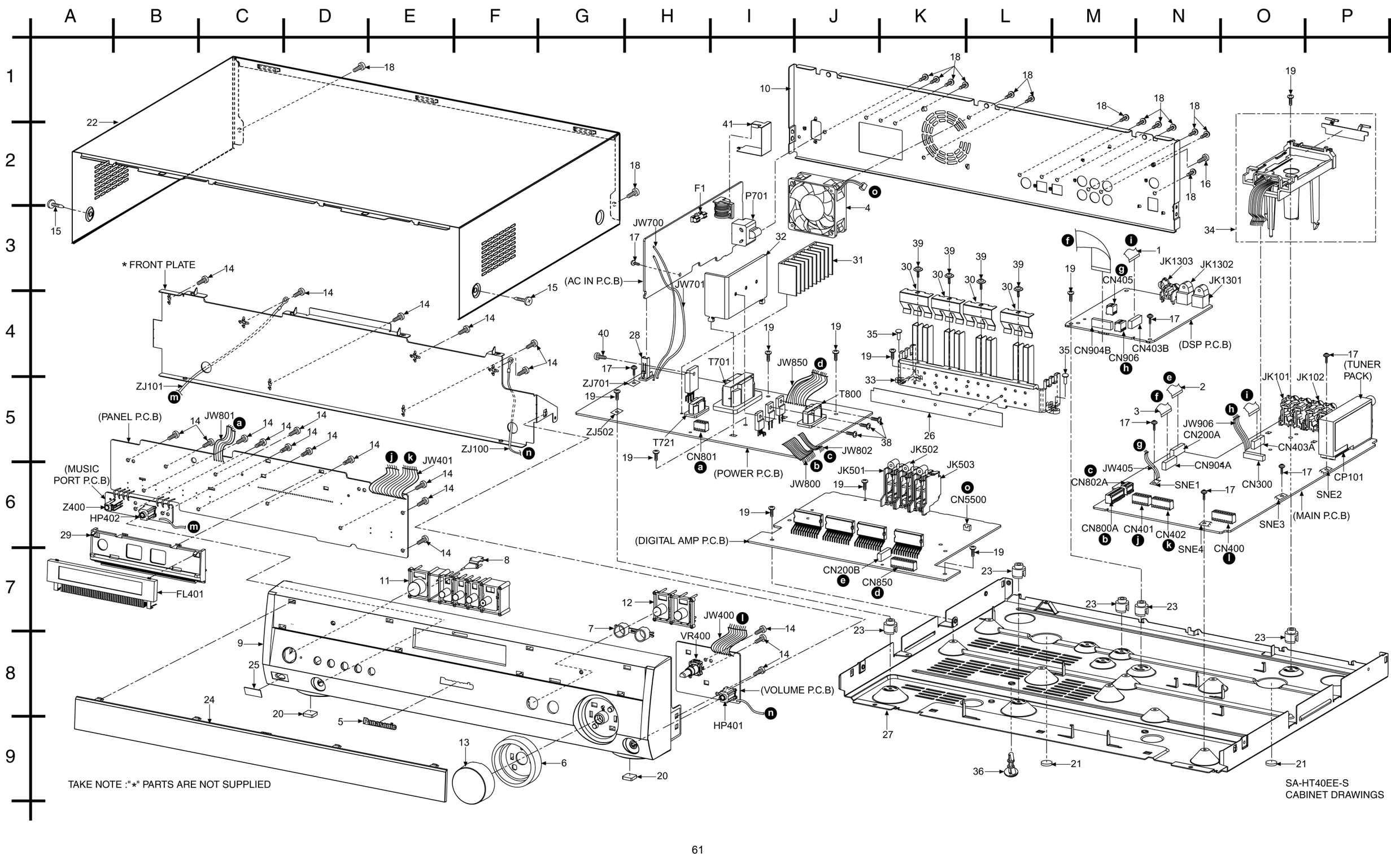
16 Terminal Functions of Integrated Circuits

16.1. IC301 (C2CBYY000152): Microprocessor

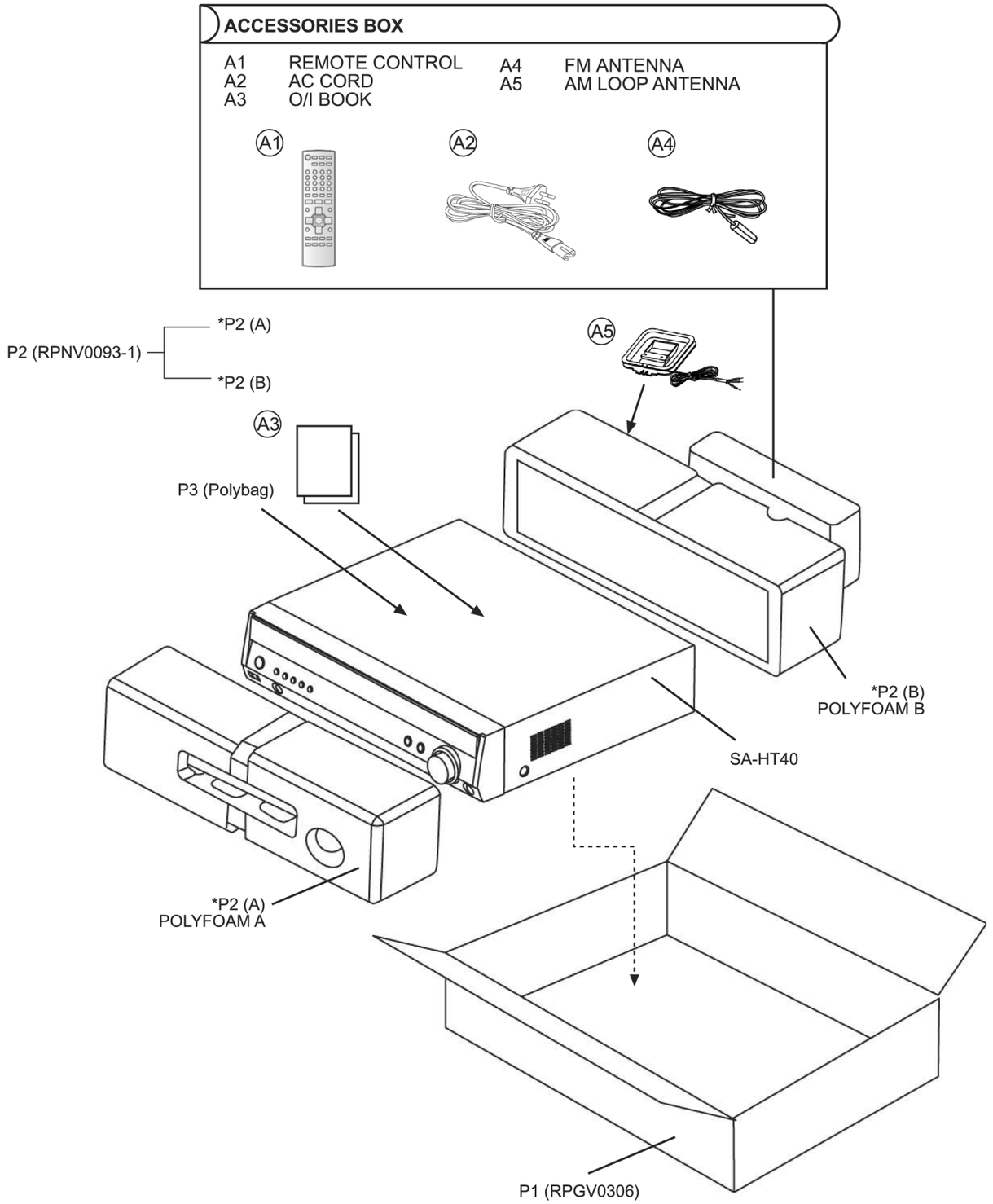
Pin No.	Terminal Name	I/O	Function
1	RF_PCONT	O	Wireless Module PCONT
2	RF_DET	I	Wireless Module Detection
3	RF_LINK	I	Wireless Module Link Detection
4	RF_CHANGE	O	Wireless Module Role Change (TX←→RX)
5	VOL_CLK	O	Volume + Selector control
6	VOL_DT	O	Volume + Selector control
7	FHOP(OSC_SW)	-	Osc switching for Digital Amplifier
8	BYTE	-	GND
9	CNVss	I	CNVss
10	N.C.	-	No Connection
11	N.C.	-	No Connection
12	RESET	I	Reset input pin for active “L”
13	XOUT	-	Clock output [10.00MHz]
14	VSS	-	GND
15	XIN	-	Clock input [10.00MHz]
16	VCC	-	Power source [5v]
17	NMI	-	Pull-up resistance
18	N.C.	-	No Connection
19	REMOTE	I/O	Remote Control signal
20	AC_SYNC	-	Power Failure Detection
21	MUTE_ALL	O	MUTE all Channel
22	MUTE_S/C	O	MUTE Surround Channel
23	MUTE_WIRELESS	O	MUTE Wireless Channel
24	TUNER	I	New Tuner Stereo Detect
25	TUNER	I	New Tuner SD Detect
26	N.C.	-	No Connection
27	N.C.	-	No Connection
28	AMP_POWER	O	Amplifier Power Shut Down
29	TUNER_CLK	I/O	New Tuner (12C Clock)
30	TUNER_DT	I	New Tuner (12C Data)
31	CS49300_CDIN	O	DSP/CODEC serial Data IN (uP-->DSP/CODEC)
32	CS49300_SCDOUT	I	DSP serial DATA OUT (DSP-->uP)
33	CS49300_CCLK	O	DSP/CODEC Clock
34	CS49300_CS	O	DSP Chip Select
35	CS49300_RESET	O	DSP Reset
36	RDS_DATA	I	RDS: DATA
37	RDS_CLK	I	RDS: Clock
38	N.C.	-	No Connection
39	N.C.	-	No Connection
40	N.C.	-	No Connection
41	N.C.	-	No Connection
42	N.C.	-	No Connection
43	N.C.	-	No Connection
44	N.C.	-	No Connection
45	N.C.	-	No Connection
46	N.C.	-	No Connection
47	N.C.	-	No Connection
48	N.C.	-	No Connection
49	N.C.	-	No Connection
50	N.C.	-	No Connection
51	N.C.	-	No Connection
52	N.C.	-	No Connection
53	N.C.	-	No Connection
54	N.C.	-	No Connection
55	N.C.	-	No Connection
56	N.C.	-	No Connection
57	N.C.	-	No Connection
58	N.C.	-	No Connection
59	N.C.	-	No Connection
60	N.C.	-	No Connection
61	N.C.	-	No Connection
62	Vcc2	-	Vcc2
63	N.C.	-	No Connection
64	Vss	-	Vss
65	N.C.	-	No Connection
66	N.C.	-	No Connection
67	SURR_M_LED	O	Led for SURROUND MUSIC mode
68	FLD_CS	O	FLD Dr CS
69	FLD_CLK	O	FLD Dr Serial Clock
70	FLD_D1	O	FLD Dr serial data output
71	VOL_ENCD_A	I	Volume Encoder Input A
72	VOL_ENCD_B	I	Volume Encoder Input B
73	HP_SWITCH	I	Detect H/Phone Connection
74	CS49300_INTREQ	I	DSP Interrupt Request
75	CS42516_INT	I	CODEC interrupt Request
76	CS42516_CS	I/O	CODEC Chip Select
77	CS42516_CDOUT	O	CODEC Data OUT
78	CS42516_RESET	O	CODEC RESET
79	FMPORT_SW	I	Front Music Port Detect
80	POWER	I	Power Key Detection
81	KEY1	I	Key Input1
82	KEY2	I	Key Input2
83	N.C.	-	No Connection
84	N.C.	-	No Connection
85	N.C.	-	No Connection
86	INIT2	I	INITIAL SETTING 2
87	INIT1	I	INITIAL SETTING 1
88	INIT_OUT	O	INITIAL SETTING OUTPUT
89	BEAT_PROOF	I/O	Beat Proof Control
90	N.C.	-	No Connection
91	HP_MUTE	O	MUTE for Headphones
92	PCONT	O	Power Relay Control
93	FAN_LOCK	I	FAN LOCK Detection
94	DC_DET	I	Power Amp Failure
95	S_DET	I	Power supply Short detection
96	Avss	-	Avss
97	FILTER	-	Filter setting
98	VREF	-	Reference power supply of the A/D converter [5v]
99	Avcc	-	Avcc
100	M_PORTDET	I	Wireless Module MPORT detection

17 Exploded Views

17.1. Cabinet Parts Location



17.2. Packaging



18 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-retardent (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
Pe :	Persian	Ur:	Ukraine				

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEV0092	16P FFC (DSP)	[M]
2	REEV0093	18P FFC (DAMP)	[M]
3	REEV0094	18P FFC (DSP)	[M]
4	REM0094	COOLING FAN	[M]
5	RGB0164-S	PANASONIC BADGE	[M]
6	RGKV0135-S	VOLUME RING	[M]
7	RGKV0147-S	INPUT SELECTOR ORN	[M]
8	RGLV0063-Q1	LED LIGHT GUIDE	[M]
9	RGPV0078B-S2	FRONT PANEL	[M]
10	RGRV0043D-C	REAR PANEL	[M]
11	RGUV0132A-S	FUNCTION BUTTON	[M]
12	RGUV0133-S	INPUT SELECTOR BTN	[M]
13	RGWV0038-S1	VOLUME KNOB	[M]
14	RHD26046-L	SCREW	[M]
15	RHD30007-1SJ	SCREW	[M]
16	RHD30070	EARTH TERMINAL SCREW	[M]
17	RHD30111-3	SCREW	[M]
18	RHD30119-K	SCREW	[M]
19	RHDV30006	SCREW	[M]
20	RHGV0008	LEG CUSHION	[M]
21	RKAV0005-K	LEG CUSHION	[M]
22	RKMV0052-S2	TOP CABINET	[M]
23	RKQV0001	PCB SPACER	[M]
24	RKWV0055-R	FL WINDOW	[M]
25	RKWV0057-S	REMOTE SENSOR WINDOW	[M]
26	RMGV0029	SILICON PAD	[M]
27	RMKV0041A-1	CHASSIS FRAME	[M]
28	RMN0203	PCB HOLDER	[M]
29	RMNV0063-K	FL FOLDER	[M]
30	RMQV0052	IC CLAMP	[M]
31	RMY0316	POWER HEATSINK	[M]
32	RXXV0020	L-SHAPE HEATSINK UNIT	[M]
33	RXXV0044	HEAT SINK UNIT	[M]
35	SHR411	PLASTIC RIVET	[M]
36	RMNV0076	PCB SPACER	[M]
38	XTB3+8JFJ	SCREW	[M]
39	XTW3+8TFJ	SCREW	[M]
40	XYN3+F10FJ	SCREW	[M]
41	RSC0777	SHIELD PLATE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARDS	
	REPV0076A-T	DSP P.C.B.	[M] (RTL)
	REPV0078C-M	MAIN P.C.B.	[M] (RTL)
	REPV0077C-T	DIGITAL AMP P.C.B.	[M] (RTL)
	REPV0078C-M	PANEL P.C.B.	[M] (RTL)
	REPV0078C-M	VOLUME P.C.B.	[M] (RTL)
	REPV0078C-M	MUSIC PORT P.C.B.	[M] (RTL)
	REPV0085B-P	POWER P.C.B.	[M] (RTL)
	REPV0085B-P	AC IN P.C.B.	[M] (RTL)
		INTEGRATED CIRCUITS	
IC150	C1BB00001134	IC VOLUME ENCODER	[M]
IC151	C0ABBB000297	IC DUAL OP-AMP	[M]
IC152	C0CBAHG00011	IC VOLTAGE REGULATOR	[M]
IC200	C0ABBB000297	IC DUAL OP-AMP	[M]
IC201	C0ABBB000297	IC DUAL OP-AMP	[M]
IC202	C0ABBB000125	IC DUAL OP-AMP	[M]
IC203	C0ABBB000297	IC DUAL OP-AMP	[M]
IC204	C0ABBB000297	IC DUAL OP-AMP	[M]
IC205	C0ABBB000297	IC DUAL OP-AMP	[M]
IC207	C0ABBB000297	IC DUAL OP-AMP	[M]
IC208	C0ABBB000297	IC DUAL OP-AMP	[M]
IC301	C2CBYY000152	IC MICRO-PROCESSOR	[M]
IC401	C0HBB0000061	IC FL DRIVER	[M]
IC551	C1BA00000407	IC POWER AMP	[M]
IC552	C1BA00000407	IC POWER AMP	[M]
IC553	C1BA00000407	IC POWER AMP	[M]
IC554	C1BA00000407	IC POWER AMP	[M]
IC701	C5HABZZ00125	IC POWER SUPPLY	[M]
IC721	MIP2C10MSSCF	IC POWER SUPPLY	[M]
IC800	C0DAAYY00026	IC POWER SUPPLY	[M]
IC801	C0DAEMB00003	IC POWER SUPPLY	[M]
IC802	C0CBAEG00007	IC VOLTAGE REGULATOR	[M]
IC850	C0DAEMB00003	IC POWER SUPPLY	[M]
IC880	C0ABBB000342	IC DUAL OP-AMP	[M]
IC1001	C2HBZZ000015	IC AC3/DTS	[M]
IC1003	C0JBAB000633	IC LOGIC INVERTER	[M]
IC1004	C0JBAZ002160	IC LOGIC	[M]
IC1005	C0JBAZ002161	IC LOGIC	[M]
IC1101	C0FBZK000013	IC CODEC	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC1201	C0ABBB000297	IC DUAL OP-AMP	[M]
IC1202	C0ABBB000297	IC DUAL OP-AMP	[M]
IC1203	C0ABBB000297	IC DUAL OP-AMP	[M]
IC1701	C0CBAAG00004	IC REGULATOR	[M]
IC5400	C0JBAB000011	IC LOGIC	[M]
IC5401	C0JBAF000654	IC LOGIC	[M]
		TRANSISTORS	
Q200	B1GDCFJJ0008	TRANSISTOR	[M]
Q201	B1GDCFJJ0008	TRANSISTOR	[M]
Q202	B1GBCFJJ0007	TRANSISTOR	[M]
Q203	B1GBCFJJ0007	TRANSISTOR	[M]
Q204	B1ABDC000010	TRANSISTOR	[M]
Q205	B1ABDC000010	TRANSISTOR	[M]
Q206	B1ABDC000010	TRANSISTOR	[M]
Q207	B1ABDC000010	TRANSISTOR	[M]
Q208	B1GDCFJJ0008	TRANSISTOR	[M]
Q209	B1GBCFJJ0007	TRANSISTOR	[M]
Q211	B1ABDC000010	TRANSISTOR	[M]
Q212	B1ABDC000010	TRANSISTOR	[M]
Q213	B1ABDC000010	TRANSISTOR	[M]
Q214	2SD1915FTA	TRANSISTOR	[M]
Q215	2SD1915FTA	TRANSISTOR	[M]
Q216	B1ABDC000010	TRANSISTOR	[M]
Q301	B1GACFJN0007	TRANSISTOR	[M]
Q302	B1ABDC000010	TRANSISTOR	[M]
Q303	B1GBCFJA0028	TRANSISTOR	[M]
Q401	B1GDCFJJ0008	TRANSISTOR	[M]
Q403	B1GBCFJJ0007	TRANSISTOR	[M]
Q404	B1GDCFJJ0008	TRANSISTOR	[M]
Q591	B1ABCF000011	TRANSISTOR	[M]
Q592	B1ABCF000011	TRANSISTOR	[M]
Q701	2SC3940ARA	TRANSISTOR	[M]
Q723	B1AAGC000006	TRANSISTOR	[M]
Q800	B1ADCF000001	TRANSISTOR	[M]
Q802	2SB1548PQAU	TRANSISTOR	[M]
Q803	B1BACG000023	TRANSISTOR	[M]
Q804	B1BACG000023	TRANSISTOR	[M]
Q850	2SB0621AHA	TRANSISTOR	[M]
Q880	B1ABCF000011	TRANSISTOR	[M]
Q881	B1ADCF000001	TRANSISTOR	[M]
Q882	B1ABCF000011	TRANSISTOR	[M]
Q1001	B1GDCFJN0001	TRANSISTOR	[M]
Q1701	KTC3199GRTA	TRANSISTOR	[M]
Q1702	B1BACG000023	TRANSISTOR	[M]
Q1703	B1BACG000023	TRANSISTOR	[M]
Q5001	B1GDCFJJ0008	TRANSISTOR	[M]
Q5002	B1GBCFJJ0007	TRANSISTOR	[M]
Q5003	B1GBCFJJ0007	TRANSISTOR	[M]
Q5004	B1GBCFJJ0007	TRANSISTOR	[M]
Q5005	B1BACG000023	TRANSISTOR	[M]
Q5006	B1GBCFJJ0007	TRANSISTOR	[M]
Q5007	2SC3940ARA	TRANSISTOR	[M]
Q5400	B1ADCF000001	TRANSISTOR	[M]
Q5401	B1ABCF000011	TRANSISTOR	[M]
Q5500	B1ABCF000011	TRANSISTOR	[M]
Q5501	2SB0621AHA	TRANSISTOR	[M]
Q5502	B1ABCF000011	TRANSISTOR	[M]
Q5503	B1GBCFJJ0007	TRANSISTOR	[M]
		DIODES	
D200	B0JCAE000001	DIODE	[M]
D201	B0ACCK000005	DIODE	[M]
D203	B0ACCK000005	DIODE	[M]
D204	B0JCAE000001	DIODE	[M]
D205	B0ACCK000005	DIODE	[M]
D206	B0JCAE000001	DIODE	[M]
D302	B0ACCK000005	DIODE	[M]
D303	B0ACCE000003	DIODE	[M]
D304	B0ACCE000003	DIODE	[M]
D305	MAZ80390LL	DIODE	[M]
D306	B0ACCK000005	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D307	B0ACCK000005	DIODE	[M]
D401	B0ACCK000005	DIODE	[M]
D402	SLR342VC	DIODE	[M]
D403	MAZ80560ML	DIODE	[M]
D404	B0ACCK000005	DIODE	[M]
D405	B0ACCK000005	DIODE	[M]
D407	B0JCAE000001	DIODE	[M]
D410	B0ADCJ000020	DIODE	[M]
D701	B0FFAR000001	DIODE	[M]
D702	B0ZAZ0000052	DIODE	[M]
D703	B0BC02900004	DIODE	[M]
D704	B0JAME000025	DIODE	[M]
D705	B0HAJL000001	DIODE	[M]
D706	B0HAJL000001	DIODE	[M]
D707	B0BC035A0007	DIODE	[M]
D708	B0BC01700015	DIODE	[M]
D709	B0ACCK000005	DIODE	[M]
D710	B0HAJL000001	DIODE	[M]
D715	B0EDKT000009	DIODE	[M]
D721	B0HAJL000001	DIODE	[M]
D722	B0HAGR000002	DIODE	[M]
D723	B0JAJG000002	DIODE	[M]
D724	B0BC4R600016	DIODE	[M]
D728	B0ACCK000005	DIODE	[M]
D800	B0HAJL000001	DIODE	[M]
D801	B0HAJL000001	DIODE	[M]
D802	B0HANM000012	DIODE	[M]
D803	B0HAJL000001	DIODE	[M]
D804	B0HAJL000001	DIODE	[M]
D805	MA2Q73800L	DIODE	[M]
D806	B0BC8R100004	DIODE	[M]
D807	B0BC8R100004	DIODE	[M]
D808	B0ACCK000005	DIODE	[M]
D852	B0HAJL000001	DIODE	[M]
D853	B0HAJL000001	DIODE	[M]
D854	B0HANM000012	DIODE	[M]
D855	B0HASM000003	DIODE	[M]
D856	B0HASM000003	DIODE	[M]
D857	B0BC8R100004	DIODE	[M]
D858	B0BC02400011	DIODE	[M]
D880	B0BC01400019	DIODE	[M]
D1701	MAZ80620ML	DIODE	[M]
D5001	B0ACCK000005	DIODE	[M]
D5002	B0ACCK000005	DIODE	[M]
D5003	B0ACCK000005	DIODE	[M]
D5004	B0ACCK000005	DIODE	[M]
D5006	MAZ80620ML	DIODE	[M]
D5500	B0ACCK000005	DIODE	[M]
D5501	B0ACCK000005	DIODE	[M]
D5502	B0ACCK000005	DIODE	[M]
D5503	B0ACCK000005	DIODE	[M]
DZ701	ERZV10V511CS	ZNR	[M] ⚠
		VARIABLE RESISTOR	
VR400	EVEKD2F3024B	VR ROTARY ENCODER	[M]
		SWITCHES	
S401	EVQ21405RJ	SW POWER	[M]
S402	EVQ21405RJ	SW < I/P SELECT	[M]
S403	EVQ21405RJ	SW I/P SELECT >	[M]
S404	EVQ21405RJ	SW ENTER	[M]
S406	EVQ21405RJ	SW MENU/-SETUP	[M]
S407	EVQ21405RJ	SW TUNE_DOWN	[M]
S408	EVQ21405RJ	SW TUNE_UP	[M]
		CONNECTORS	
CN200A	K1MN18A00046	18P CONNECTOR	[M]
CN200B	K1MN18A00046	18P CONNECTOR	[M]
CN400	K1MP07A00002	7P CONNECTOR	[M]
CN401	K1MP07A00002	7P CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CN402	K1MP08A00003	8P CONNECTOR	[M]
CN403A	K1MN16AA0003	16P FFC CONNECTOR	[M]
CN403B	K1MN16AA0003	16P FFC CONNECTOR	[M]
CN405	K1MP03A00012	3P CONNECTOR	[M]
CN800A	K1MP10A00007	10P MOLEX CONNECTOR	[M]
CN801	K1MP05A00009	5P CONNECTOR	[M]
CN802A	K1MP05A00009	5P CONNECTOR	[M]
CN850	K1KA10AA0319	10P CONNECTOR	[M]
CN904A	K1MN18A00046	18P CONNECTOR	[M]
CN904B	K1MN18A00046	18P CONNECTOR	[M]
CN906	K1MP04A00007	4P CONNECTOR	[M]
CN5500	K1KA02AA0186	2P FAN CONNECTOR	[M]
CP101	ENG07812QF	TUNER PACK	[M]
		THERMISTOR	
TH701	D4CAC8R00002	THERMISTOR	[M]
		COILS & TRANSFORMERS	
L101	G0A200D00002	RF CHOKE COIL	[M]
L401	J0JBC0000019	CHIP INDUCTOR	[M]
L402	J0JBC0000019	CHIP INDUCTOR	[M]
L403	J0JBC0000019	CHIP INDUCTOR	[M]
L404	J0JBC0000019	CHIP INDUCTOR	[M]
L405	J0JBC0000019	CHIP INDUCTOR	[M]
L406	J0JBC0000019	CHIP INDUCTOR	[M]
L500	ETQA15B220	CHOKE COIL	[M]
L501	ETQA15B220	CHOKE COIL	[M]
L502	ETQA15B220	CHOKE COIL	[M]
L503	ETQA15B220	CHOKE COIL	[M]
L504	ETQA17B150	CHOKE COIL	[M]
L505	ETQA17B150	CHOKE COIL	[M]
L506	ETQA17B150	CHOKE COIL	[M]
L507	ETQA17B150	CHOKE COIL	[M]
L701	ELF18N067E	COMMON MODE COIL	[M] ⚠
L702	ELF21N015E	COMMON MODE COIL	[M] ⚠
L703	ELF21N015E	COMMON MODE COIL	[M] ⚠
L800	G0A200D00002	RF CHOKE COIL	[M]
L801	G0A200D00002	RF CHOKE COIL	[M]
L802	G0A200D00002	RF CHOKE COIL	[M]
L803	G0A200D00002	RF CHOKE COIL	[M]
L804	G0A200D00002	RF CHOKE COIL	[M]
L805	G0A200D00002	RF CHOKE COIL	[M]
L806	G0A200D00002	RF CHOKE COIL	[M]
L850	G0A200D00002	RF CHOKE COIL	[M]
L851	G0A200D00002	RF CHOKE COIL	[M]
L852	G0A200D00002	RF CHOKE COIL	[M]
L1001	G1C2R2K00012	CHIP INDUCTOR	[M]
L1002	G1C2R2K00012	CHIP INDUCTOR	[M]
L1003	G1C2R2K00012	CHIP INDUCTOR	[M]
L1004	G1C2R2K00012	CHIP INDUCTOR	[M]
L1101	G1C2R2K00012	CHIP INDUCTOR	[M]
L1102	G1C2R2K00012	CHIP INDUCTOR	[M]
L1103	G1C2R2K00012	CHIP INDUCTOR	[M]
L1301	RLQZ150M-0	CHOKE COIL	[M]
L1302	G1C1R0MA0061	CHIP INDUCTOR	[M]
LB500	J0JKB0000020	EMI BEAD CORE	[M]
LB501	J0JKB0000020	EMI BEAD CORE	[M]
LB502	J0JKB0000020	EMI BEAD CORE	[M]
LB503	J0JKB0000020	EMI BEAD CORE	[M]
LB504	J0JKB0000020	EMI BEAD CORE	[M]
LB505	J0JKB0000020	EMI BEAD CORE	[M]
LB506	J0JKB0000020	EMI BEAD CORE	[M]
LB507	J0JKB0000020	EMI BEAD CORE	[M]
LB508	J0JKB0000020	EMI BEAD CORE	[M]
LB509	J0JKB0000020	EMI BEAD CORE	[M]
LB704	J0JKB0000020	EMI BEAD CORE	[M]
LB800	J0JKB0000020	EMI BEAD CORE	[M]
LB5400	J0JKB0000020	EMI BEAD CORE	[M]
T701	ETS48AA196AC	MAIN TRANSFORMER	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
T721	ETS19AB1X6AG	STANDBY TRANSFORMER	[M] ⚠
T800	ETS28AU379AC	SUB TRANSFORMER	[M] ⚠
		COMPONENT COMBINATIONS	
Z400	B3RAD0000087	REMOTE SENSOR	[M]
Z1101	J0JKB0000020	EMI BEAD CORE	[M]
ZA701	EYF52BCY	FUSE CLIP	[M]
ZA702	EYF52BCY	FUSE CLIP	[M]
ZJ502	K9ZZ00001279	EARTH PLATE	[M]
ZJ701	K4CZ01000027	EARTH LUG	[M]
PC701	B3PBA0000402	PHOTO COUPLER	[M] ⚠
PC721	B3PBA0000402	PHOTO COUPLER	[M] ⚠
SNE1	K9ZZ00001279	EARTH PLATE	[M]
SNE2	K9ZZ00001279	EARTH PLATE	[M]
SNE3	K9ZZ00001279	EARTH PLATE	[M]
SNE4	K9ZZ00001279	EARTH PLATE	[M]
		CERAMIC FILTER	
CF301	H2A1005A0005	10MHZ RESONATOR	[M]
		RELAY	
RY721	K6B1AEA00003	PC POWER RELAY	[M] ⚠
		OSCILLATORS	
X1001	H0J122200002	CYRSTAL	[M]
X5400	H2A6023A0011	CERAMIC RESONATOR	[M]
X5401	H2A7003A0011	CERAMIC RESONATOR	[M]
		DISPLAY TUBE	
FL401	A2BB00000158	FL DISPLAY	[M]
		FUSE	
F1	K5D402BLA013	FUSE	[M] ⚠
		FUSE PROTECTORS	
HP401	K2HC103A0024	JK HP	[M]
HP402	K2HC1YYA0005	JK MUSIC PORT	[M]
P701	K2AA2B000015	JK AC INLET	[M] ⚠
		JACKS	
JK101	K4BK04H00008	JK 4P RCA	[M]
JK102	K4BK04H00008	JK 4P RCA	[M]
JK501	K4BC04B00107	JK SPEAKER	[M]
JK502	K4BC04B00107	JK SPEAKER	[M]
JK503	K4BC04B00107	JK SPEAKER	[M]
JK1301	B3RAB0000048	JK OPTICAL	[M]
JK1302	B3RAB0000048	JK OPTICAL	[M]
JK1303	K4BK01H00010	JK COAX INPUT	[M]
		WIRES	
JW400	RWJ1807100SQ	7P WIRE (POWER-I/O)	[M]
JW401	RWJ1815130SQ	15P WIRE(PANEL-MAIN)	[M]
JW405	RWJ1803220SQ	3P WIRE	[M]
JW700	REEV0122	PRIMARY WIRE (RED)	[M]
JW701	REEV0123	PRIMARY WIRE (WHITE)	[M]
JW800	RWJ1810100SQ	10P WIRE	[M]
JW801	RWJ1805110SQ	5P WIRE(PANEL-POWER)	[M]
JW802	RWJ1805110SQ	5P WIRE(PANEL-POWER)	[M]
JW850	REXV0069	10P WIRE (POWER-DAM)	[M]
JW906	RWJ1804110SQ	4P MAIN-DSP	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
ZJ100	REX1161-1	WIRE	[M]
ZJ101	REXV0071-1	GROUNDING WIRE	[M]
		PACKING MATERIALS	
P1	RPGV0306	PACKING CASE	[M]
P2	RPNV0093-1	POLYFOAM	[M]
P3	VPF1122-1	POLYBAG	[M]
		ACCESSORIES	
A1	N2QAYB000010	REMOTE CONTROL	[M]
A1-1	RKK-HTR0051K	R/C BATTERY COVER	[M]
A2	K2CQ2CA00006	AC CORD	[M] ⚠
A3	RQTV0111-R	O/I BOOK (Ru)	[M]
A4	RSA0007-L	FM ANTENNA WIRE	[M]
A5	N1DAAAA00002	AM LOOP ANTENNA	[M]
		RESISTORS	
R101	ERJ3GEYJ102V	1K 1/16W	[M]
R102	ERJ3GEYJ102V	1K 1/16W	[M]
R103	ERJ3GEYJ102V	1K 1/16W	[M]
R104	ERJ3GEYJ102V	1K 1/16W	[M]
R105	ERJ3GEYJ102V	1K 1/16W	[M]
R106	ERJ3GEYJ102V	1K 1/16W	[M]
R107	ERJ3GEYJ102V	1K 1/16W	[M]
R108	ERJ3GEYJ102V	1K 1/16W	[M]
R131	D0GB473JA041	47K 1/16W	[M]
R132	D0GB473JA041	47K 1/16W	[M]
R133	ERJ3GEYJ102V	1K 1/16W	[M]
R134	ERJ3GEYJ102V	1K 1/16W	[M]
R151	ERJ3GEYJ103V	10K 1/16W	[M]
R152	ERJ3GEYJ103V	10K 1/16W	[M]
R153	ERJ3GEYJ103V	10K 1/16W	[M]
R154	ERJ3GEYJ103V	10K 1/16W	[M]
R201	D0GB332JA007	3.3K 1/16W	[M]
R202	D0GB332JA007	3.3K 1/16W	[M]
R203	D0GB683JA007	68K 1/16W	[M]
R204	D0GB683JA007	68K 1/16W	[M]
R205	D0GB151JA007	150 1/16W	[M]
R206	D0GB151JA007	150 1/16W	[M]
R207	D0GB151JA007	150 1/16W	[M]
R208	D0GB151JA007	150 1/16W	[M]
R209	D0GB560JA007	56 1/16W	[M]
R210	D0GB560JA007	56 1/16W	[M]
R211	D0GB560JA007	56 1/16W	[M]
R212	D0GB560JA007	56 1/16W	[M]
R213	ERJ3GEYJ102V	1K 1/16W	[M]
R214	ERJ3GEYJ102V	1K 1/16W	[M]
R215	D0GB223JA041	22K 1/16W	[M]
R216	D0GB223JA041	22K 1/16W	[M]
R217	D0GB333JA007	33K 1/16W	[M]
R218	D0GB333JA007	33K 1/16W	[M]
R219	D0GB562JA007	5.6K 1/16W	[M]
R220	D0GB562JA007	5.6K 1/16W	[M]
R221	D0GB123JA007	12K 1/16W	[M]
R222	D0GB123JA007	12K 1/16W	[M]
R223	D0GB562JA007	5.6K 1/16W	[M]
R224	D0GB562JA007	5.6K 1/16W	[M]
R225	D0GB123JA007	12K 1/16W	[M]
R226	D0GB123JA007	12K 1/16W	[M]
R227	D0GB153JA007	15K 1/16W	[M]
R228	D0GB153JA007	15K 1/16W	[M]
R229	D0GB473JA041	47K 1/16W	[M]
R230	D0GB222JA041	2.2K 1/16W	[M]
R231	D0GB473JA041	47K 1/16W	[M]
R232	D0GB182JA007	1.8K 1/16W	[M]
R233	D0GB153JA007	15K 1/16W	[M]
R234	D0GB153JA007	15K 1/16W	[M]
R235	D0GB392JA007	3.9K 1/16W	[M]
R236	ERJ3GEYJ102V	1K 1/16W	[M]
R237	D0GB332JA007	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R239	ERJ3GEYJ102V	1K 1/16W	[M]
R240	ERJ3GEY0R00V	1K 1/16W	[M]
R241	ERJ3GEY0R00V	1K 1/16W	[M]
R242	ERJ3GEYJ102V	1K 1/16W	[M]
R243	D0GB474JA041	470K 1/16W	[M]
R244	ERJ3GEYJ822V	8.2K 1/16W	[M]
R245	ERJ3GEYJ102V	1K 1/16W	[M]
R247	ERJ3GEYJ102V	1K 1/16W	[M]
R248	ERJ3GEYJ822V	8.2K 1/16W	[M]
R249	D0GB474JA041	470K 1/16W	[M]
R254	D0GB473JA041	47K 1/16W	[M]
R255	D0GB473JA041	47K 1/16W	[M]
R256	D0GB104JA007	100K 1/16W	[M]
R257	D0GB104JA007	100K 1/16W	[M]
R258	ERJ3GEYJ102V	1K 1/16W	[M]
R259	ERJ3GEYJ102V	1K 1/16W	[M]
R260	D0GB223JA041	22K 1/16W	[M]
R261	D0GB223JA041	22K 1/16W	[M]
R263	D0GB473JA041	47K 1/16W	[M]
R264	D0GB473JA041	47K 1/16W	[M]
R265	D0GB223JA041	22K 1/16W	[M]
R266	D0GB223JA041	22K 1/16W	[M]
R267	D0GB223JA041	22K 1/16W	[M]
R268	D0GB473JA041	47K 1/16W	[M]
R270	ERJ3GEYJ102V	1K 1/16W	[M]
R272	ERJ3GEYJ102V	1K 1/16W	[M]
R273	ERJ3GEYJ102V	1K 1/16W	[M]
R277	D0GB223JA041	22K 1/16W	[M]
R278	ERJ3GEYJ102V	1K 1/16W	[M]
R279	ERJ3GEYJ102V	1K 1/16W	[M]
R280	D0GB153JA007	15K 1/16W	[M]
R281	D0GB393JA007	39K 1/16W	[M]
R282	D0GB332JA007	3.3K 1/16W	[M]
R283	D0GB332JA007	3.3K 1/16W	[M]
R284	D0GB473JA041	47K 1/16W	[M]
R285	D0GB473JA041	47K 1/16W	[M]
R286	ERJ3GEYJ822V	8.2K 1/16W	[M]
R287	D0GB474JA041	470K 1/16W	[M]
R289	ERJ3GEYJ102V	1K 1/16W	[M]
R290	ERJ3GEYJ102V	1K 1/16W	[M]
R291	ERJ3GEYJ102V	1K 1/16W	[M]
R292	ERJ3GEYJ102V	1K 1/16W	[M]
R293	ERJ3GEYJ102V	1K 1/16W	[M]
R294	ERJ3GEYJ102V	1K 1/16W	[M]
R295	ERJ3GEY0R00V	0 1/16W	[M]
R296	ERJ3GEY0R00V	0 1/16W	[M]
R297	ERJ3GEYJ102V	1K 1/16W	[M]
R298	ERJ3GEYJ102V	1K 1/16W	[M]
R299	D0GB152JA007	1.5K 1/16W	[M]
R301	ERJ3GEYJ103V	10K 1/16W	[M]
R302	ERJ3GEYJ103V	10K 1/16W	[M]
R303	ERJ3GEYJ103V	10K 1/16W	[M]
R305	ERJ3GEYJ102V	1K 1/16W	[M]
R306	ERJ3GEYJ102V	1K 1/16W	[M]
R307	ERJ3GEYJ103V	10K 1/16W	[M]
R308	ERJ3GEYJ103V	10K 1/16W	[M]
R309	D0GB472JA041	4.7K 1/16W	[M]
R310	D0GB473JA041	47K 1/16W	[M]
R311	ERJ3GEYJ103V	10K 1/16W	[M]
R312	ERJ3GEYJ103V	10K 1/16W	[M]
R313	D0GB273JA007	27K 1/16W	[M]
R314	D0GB472JA041	4.7K 1/16W	[M]
R315	ERJ3GEYJ103V	10K 1/16W	[M]
R316	ERJ3GEYJ103V	10K 1/16W	[M]
R317	ERJ3GEYJ103V	10K 1/16W	[M]
R318	ERJ3GEYJ103V	10K 1/16W	[M]
R323	D0GB271JA007	270 1/16W	[M]
R324	D0GB121JA007	120 1/16W	[M]
R402	D0GB104JA007	100K 1/16W	[M]
R403	D0GB332JA007	3.3K 1/16W	[M]
R404	ERJ3GEYJ822V	8.2K 1/16W	[M]
R405	D0GB271JA007	270 1/16W	[M]
R406	ERJ3GEYJ102V	1K 1/16W	[M]
R407	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R408	ERJ3GEYJ102V	1K 1/16W	[M]
R409	ERJ3GEYJ102V	1K 1/16W	[M]
R411	D0GB101JA007	100 1/16W	[M]
R412	D0GB152JA007	1.5K 1/16W	[M]
R500	D0GB562JA007	5.6K 1/16W	[M]
R501	D0GB562JA007	5.6K 1/16W	[M]
R502	D0GB562JA007	5.6K 1/16W	[M]
R503	D0GB562JA007	5.6K 1/16W	[M]
R504	ERJ8GEYJ100V	10 1/8W	[M]
R505	ERJ8GEYJ100V	10 1/8W	[M]
R506	ERG2SJ220E	22 2W	[M]
R507	ERG2SJ220E	22 2W	[M]
R509	D0GB124JA007	120K 1/16W	[M]
R512	D0GB683JA007	68K 1/16W	[M]
R514	ERJ8GEYJ100V	10 1/8W	[M]
R515	ERJ8GEYJ100V	10 1/8W	[M]
R520	D0GB562JA007	5.6K 1/16W	[M]
R521	D0GB562JA007	5.6K 1/16W	[M]
R522	D0GB562JA007	5.6K 1/16W	[M]
R523	D0GB562JA007	5.6K 1/16W	[M]
R524	ERJ8GEYJ100V	10 1/8W	[M]
R525	ERJ8GEYJ100V	10 1/8W	[M]
R526	ERG2SJ220E	22 2W	[M]
R527	ERG2SJ220E	22 2W	[M]
R529	D0GB124JA007	120K 1/16W	[M]
R532	D0GB683JA007	68K 1/16W	[M]
R534	ERJ8GEYJ100V	10 1/8W	[M]
R535	ERJ8GEYJ100V	10 1/8W	[M]
R541	D0GB562JA007	5.6K 1/16W	[M]
R543	D0GB562JA007	5.6K 1/16W	[M]
R544	ERJ8GEYJ100V	10 1/8W	[M]
R545	ERJ8GEYJ100V	10 1/8W	[M]
R546	ERG2SJ220E	22 2W	[M]
R547	ERG2SJ220E	22 2W	[M]
R549	D0GB124JA007	120K 1/16W	[M]
R552	D0GB683JA007	68K 1/16W	[M]
R554	ERJ8GEYJ100V	10 1/8W	[M]
R555	ERJ8GEYJ100V	10 1/8W	[M]
R561	D0GB562JA007	5.6K 1/16W	[M]
R563	D0GB562JA007	5.6K 1/16W	[M]
R564	ERJ8GEYJ100V	10 1/8W	[M]
R565	ERJ8GEYJ100V	10 1/8W	[M]
R566	ERG2SJ220E	22 2W	[M]
R567	ERG2SJ220E	22 2W	[M]
R569	D0GB124JA007	120K 1/16W	[M]
R570	D0GB154JA007	150K 1/16W	[M]
R572	D0GB683JA007	68K 1/16W	[M]
R574	ERJ8GEYJ100V	10 1/8W	[M]
R575	ERJ8GEYJ100V	10 1/8W	[M]
R702	ERG2SJ683P	68K 2W	[M]
R703	ERJ6GEYJ681V	680 1/10W	[M]
R704	ERX2LJ68MP	0.68 2W	[M]
R705	ERX2LJ56MP	0.68 2W	[M]
R706	D0AF333JA039	33K 1/4W	[M]
R707	D0AF333JA039	33K 1/4W	[M]
R708	ERJ6GEYJ332V	3.3K 1/10W	[M]
R709	ERJ6GEYJ222V	2.2K 1/10W	[M]
R710	ERJ6GEYJ103V	10K 1/10W	[M]
R711	ERJ6GEYJ220V	22 1/10W	[M]
R712	ERJ6GEYJ222V	2.2K 1/10W	[M]
R726	ERJ6GEYJ332V	3.3K 1/10W	[M]
R727	ERJ6GEYJ102V	1K 1/10W	[M]
R751	ERDS1TJ474T	470K 1/2W	[M]
R771	ERJ6GEYJ220V	22 1/10W	[M]
R772	ERJ6GEYJ104V	100K 1/10W	[M]
R773	D0GB474JA041	470K 1/16W	[M]
R774	D0GB153JA007	15K 1/16W	[M]
R775	ERJ3GEYJ681V	680 1/16W	[M]
R776	D0GB471JA041	470 1/16W	[M]
R800	D0AF100JA039	10 1/4W	[M]
R801	ERDS1FVJ222T	2.2K 1/2W	[M]
R802	ERX2LJ68MP	0.68 2W	[M]
R803	ERJ3GEYJ681V	680 1/16W	[M]
R804	D0GB332JA007	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R805	D0GB332JA007	3.3K 1/16W	[M]
R806	D0GB222JA041	2.2K 1/16W	[M]
R807	D0GB222JA041	2.2K 1/16W	[M]
R808	D0GB222JA041	2.2K 1/16W	[M]
R809	D0GB472JA041	4.7K 1/16W	[M]
R810	D0GB222JA041	2.2K 1/16W	[M]
R811	D0GB471JA041	470 1/16W	[M]
R817	D0GB471JA041	470 1/16W	[M]
R818	D0GB471JA041	470 1/16W	[M]
R819	D0GB101JA007	100 1/16W	[M]
R820	D0GB101JA007	100 1/16W	[M]
R852	D0GB101JA007	100 1/16W	[M]
R853	ERJ3GEYG223V	22K 1/16W	[M]
R858	ERJ3GEYG222V	2.2K 1/16W	[M]
R859	D0GB101JA007	100 1/16W	[M]
R860	ERJ3GEYJ103V	10K 1/16W	[M]
R864	ERJ6GEYJ332V	3.3K 1/10W	[M]
R867	ERDS1FVJ3R9T	3.9 1/2W	[M]
R868	ERJ3GEYJ122V	1.2K 1/16W	[M]
R879	ERJ3GEY0R00V	0 1/16W	[M]
R880	ERDS1FVJ182T	1.8K 1/2W	[M]
R881	D0GB222JA041	2.2K 1/16W	[M]
R882	ERJ3GEYJ102V	1K 1/16W	[M]
R883	ERJ3GEYJ103V	10K 1/16W	[M]
R884	ERJ3GEYJ103V	10K 1/16W	[M]
R885	ERJ3GEYJ103V	10K 1/16W	[M]
R886	ERJ3GEYJ103V	10K 1/16W	[M]
R887	D0GB104JA007	100K 1/16W	[M]
R888	D0GB124JA007	120K 1/16W	[M]
R889	D0GB472JA041	4.7K 1/16W	[M]
R890	D0GB562JA007	5.6K 1/16W	[M]
R891	ERX2LJ22MP	0.22 2W	[M]
R892	ERX2LJ22MP	0.22 2W	[M]
R893	D0GB332JA007	3.3K 1/16W	[M]
R894	D0GB223JA041	22K 1/16W	[M]
R895	ERJ3GEYJ103V	10K 1/16W	[M]
R896	ERJ3GEYJ103V	10K 1/16W	[M]
R897	D0GB101JA007	100 1/16W	[M]
R898	D0GB104JA007	100K 1/16W	[M]
R899	ERJ3GEYJ103V	10K 1/16W	[M]
R1001	D0GB332JA007	3.3K 1/16W	[M]
R1002	D0GB332JA007	3.3K 1/16W	[M]
R1003	ERJ3GEYJ103V	10K 1/16W	[M]
R1004	D0GB332JA007	3.3K 1/16W	[M]
R1005	D0GB332JA007	3.3K 1/16W	[M]
R1006	ERJ3GEYJ103V	10K 1/16W	[M]
R1007	ERJ3GEYJ103V	10K 1/16W	[M]
R1008	ERJ3GEYJ103V	10K 1/16W	[M]
R1009	ERJ3GEYJ103V	10K 1/16W	[M]
R1010	ERJ3GEYJ103V	10K 1/16W	[M]
R1011	ERJ3GEYJ103V	10K 1/16W	[M]
R1012	ERJ3GEYJ103V	10K 1/16W	[M]
R1013	ERJ3GEYJ103V	10K 1/16W	[M]
R1014	ERJ3GEYJ103V	10K 1/16W	[M]
R1015	D0GB472JA041	4.7K 1/16W	[M]
R1016	D0GB333JA007	33K 1/16W	[M]
R1017	D0GB472JA041	4.7K 1/16W	[M]
R1018	D0GB330JA007	33 1/16W	[M]
R1019	ERJ3GEYJ102V	1K 1/16W	[M]
R1020	ERJ3GEYJ102V	1K 1/16W	[M]
R1021	ERJ3GEYJ102V	1K 1/16W	[M]
R1022	ERJ3GEYJ102V	1K 1/16W	[M]
R1023	D0GB105JA007	1M 1/16W	[M]
R1024	ERJ3GEYJ102V	1K 1/16W	[M]
R1025	ERJ3GEY0R00V	0 1/16W	[M]
R1026	D0GB104JA007	100K 1/16W	[M]
R1027	D0GB104JA007	100K 1/16W	[M]
R1028	D0GB330JA007	33 1/16W	[M]
R1029	ERJ3GEYJ102V	1K 1/16W	[M]
R1030	ERJ3GEYJ102V	1K 1/16W	[M]
R1101	ERJ3GEY0R00V	0 1/16W	[M]
R1106	D0GB332JA007	3.3K 1/16W	[M]
R1108	ERJ3GEY0R00V	0 1/16W	[M]
R1109	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1110	ERJ3GEY0R00V	0 1/16W	[M]
R1111	D0GB104JA007	100K 1/16W	[M]
R1112	ERJ3GEY0R00V	0 1/16W	[M]
R1113	ERJ3GEY0R00V	0 1/16W	[M]
R1114	ERJ3GEYJ122V	1.2K 1/16W	[M]
R1115	ERJ3GEYJ122V	1.2K 1/16W	[M]
R1116	ERJ3GEYJ122V	1.2K 1/16W	[M]
R1117	ERJ3GEYJ122V	1.2K 1/16W	[M]
R1118	D0GB152JA007	1.5K 1/16W	[M]
R1119	D0GB152JA007	1.5K 1/16W	[M]
R1120	D0GB152JA007	1.5K 1/16W	[M]
R1121	D0GB152JA007	1.5K 1/16W	[M]
R1122	D0GB272JA007	2.7K 1/16W	[M]
R1123	D0GB332JA007	3.3K 1/16W	[M]
R1124	D0GB332JA007	3.3K 1/16W	[M]
R1125	D0GB272JA007	2.7K 1/16W	[M]
R1201	D0GB562JA007	5.6K 1/16W	[M]
R1202	D0GB562JA007	5.6K 1/16W	[M]
R1203	D0GB562JA007	5.6K 1/16W	[M]
R1204	D0GB562JA007	5.6K 1/16W	[M]
R1205	D0GB562JA007	5.6K 1/16W	[M]
R1206	D0GB562JA007	5.6K 1/16W	[M]
R1207	D0GB152JA007	1.5K 1/16W	[M]
R1208	D0GB152JA007	1.5K 1/16W	[M]
R1209	D0GB152JA007	1.5K 1/16W	[M]
R1210	D0GB152JA007	1.5K 1/16W	[M]
R1211	D0GB152JA007	1.5K 1/16W	[M]
R1212	D0GB152JA007	1.5K 1/16W	[M]
R1213	D0GB152JA007	1.5K 1/16W	[M]
R1214	D0GB152JA007	1.5K 1/16W	[M]
R1215	D0GB152JA007	1.5K 1/16W	[M]
R1216	D0GB152JA007	1.5K 1/16W	[M]
R1217	D0GB152JA007	1.5K 1/16W	[M]
R1218	D0GB152JA007	1.5K 1/16W	[M]
R1219	ERJ3GEYJ102V	1K 1/16W	[M]
R1220	ERJ3GEYJ102V	1K 1/16W	[M]
R1221	ERJ3GEYJ102V	1K 1/16W	[M]
R1222	ERJ3GEYJ102V	1K 1/16W	[M]
R1223	ERJ3GEYJ102V	1K 1/16W	[M]
R1224	ERJ3GEYJ102V	1K 1/16W	[M]
R1225	D0GB272JA007	2.7K 1/16W	[M]
R1226	D0GB562JA007	5.6K 1/16W	[M]
R1227	D0GB272JA007	2.7K 1/16W	[M]
R1228	D0GB562JA007	5.6K 1/16W	[M]
R1229	D0GB272JA007	2.7K 1/16W	[M]
R1230	D0GB562JA007	5.6K 1/16W	[M]
R1231	D0GB562JA007	5.6K 1/16W	[M]
R1232	D0GB272JA007	2.7K 1/16W	[M]
R1233	D0GB562JA007	5.6K 1/16W	[M]
R1234	D0GB272JA007	2.7K 1/16W	[M]
R1235	D0GB562JA007	5.6K 1/16W	[M]
R1236	D0GB272JA007	2.7K 1/16W	[M]
R1237	D0GB473JA041	47K 1/16W	[M]
R1238	D0GB473JA041	47K 1/16W	[M]
R1239	D0GB473JA041	47K 1/16W	[M]
R1240	D0GB473JA041	47K 1/16W	[M]
R1241	D0GB473JA041	47K 1/16W	[M]
R1242	D0GB473JA041	47K 1/16W	[M]
R1301	ERJ3GEYJ750V	75 1/16W	[M]
R1302	D0GB100JA007	10 1/16W	[M]
R1303	D0GB100JA007	10 1/16W	[M]
R1401	ERJ3GEY0R00V	0 1/16W	[M]
R1402	ERJ3GEY0R00V	0 1/16W	[M]
R1403	ERJ3GEY0R00V	0 1/16W	[M]
R1404	ERJ3GEY0R00V	0 1/16W	[M]
R1405	ERJ3GEY0R00V	0 1/16W	[M]
R1406	ERJ3GEY0R00V	0 1/16W	[M]
R1407	ERJ3GEY0R00V	0 1/16W	[M]
R1408	ERJ3GEY0R00V	0 1/16W	[M]
R1409	ERJ3GEY0R00V	0 1/16W	[M]
R1410	ERJ3GEY0R00V	0 1/16W	[M]
R1411	ERJ3GEY0R00V	0 1/16W	[M]
R1412	ERJ3GEY0R00V	0 1/16W	[M]
R1510	D0GB224JA007	220K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1520	D0GB224JA007	220K 1/16W	[M]
R1530	D0GB224JA007	220K 1/16W	[M]
R1540	D0GB224JA007	220K 1/16W	[M]
R1701	D0GB151JA007	150 1/16W	[M]
R1702	D0GB272JA007	2.7K 1/16W	[M]
R1703	D0AF4R7JA039	4.7 1/4W	[M]
R1704	D0AF4R7JA039	4.7 1/4W	[M]
R2150	D0GB473JA041	47K 1/16W	[M]
R2151	D0GB223JA041	22K 1/16W	[M]
R2152	D0GB223JA041	22K 1/16W	[M]
R2153	D0GB223JA041	22K 1/16W	[M]
R2154	D0GB473JA041	47K 1/16W	[M]
R2160	D0GB473JA041	47K 1/16W	[M]
R3050	ERJ3GEYJ102V	1K 1/16W	[M]
R3051	ERJ3GEYJ102V	1K 1/16W	[M]
R3052	ERJ3GEYJ102V	1K 1/16W	[M]
R3053	ERJ3GEYJ102V	1K 1/16W	[M]
R3054	ERJ3GEYJ102V	1K 1/16W	[M]
R3055	ERJ3GEYJ102V	1K 1/16W	[M]
R3056	D0GB332JA007	3.3K 1/16W	[M]
R3057	ERJ3GEYJ103V	10K 1/16W	[M]
R3058	ERJ3GEYJ102V	1K 1/16W	[M]
R3065	ERJ3GEYJ103V	10K 1/16W	[M]
R3070	ERJ3GEYJ103V	10K 1/16W	[M]
R3071	D0GB473JA041	47K 1/16W	[M]
R3072	D0GB473JA041	47K 1/16W	[M]
R3073	ERJ3GEYJ103V	10K 1/16W	[M]
R3074	ERJ3GEYJ103V	10K 1/16W	[M]
R3075	ERJ3GEYJ103V	10K 1/16W	[M]
R3076	ERJ3GEYJ103V	10K 1/16W	[M]
R3077	D0GB473JA041	47K 1/16W	[M]
R3129	ERJ3GEYJ103V	10K 1/16W	[M]
R3130	ERJ3GEYJ103V	10K 1/16W	[M]
R3131	ERJ3GEYJ681V	680 1/16W	[M]
R3184	ERJ3GEYJ103V	10K 1/16W	[M]
R3185	ERJ3GEYJ103V	10K 1/16W	[M]
R4030	D0GB222JA041	2.2K 1/16W	[M]
R4033	D0GB332JA007	3.3K 1/16W	[M]
R4034	D0GB222JA041	2.2K 1/16W	[M]
R4061	D0GB823JA007	82K 1/16W	[M]
R5001	D0GB332JA007	3.3K 1/16W	[M]
R5002	D0GB332JA007	3.3K 1/16W	[M]
R5003	D0GB332JA007	3.3K 1/16W	[M]
R5004	D0GB332JA007	3.3K 1/16W	[M]
R5005	D0GB332JA007	3.3K 1/16W	[M]
R5006	D0GB332JA007	3.3K 1/16W	[M]
R5007	ERJ3GEYJ103V	10K 1/16W	[M]
R5008	ERG3SJ470P	47 3W	[M]
R5009	D0GB152JA007	1.5K 1/16W	[M]
R5010	ERG3SJ470P	47 3W	[M]
R5011	ERG3SJ470P	47 3W	[M]
R5400	ERJ3GEYJ102V	1K 1/16W	[M]
R5401	ERJ3GEYJ103V	10K 1/16W	[M]
R5402	D0GB4R7JA007	4.7 1/16W	[M]
R5403	D0GB104JA007	100K 1/16W	[M]
R5404	D0GB104JA007	100K 1/16W	[M]
R5405	ERJ3GEYJ682V	6.8K 1/16W	[M]
R5406	D0GB105JA007	1M 1/16W	[M]
R5407	D0GB220JA007	22 1/16W	[M]
R5408	D0GB104JA007	100K 1/16W	[M]
R5500	D0GB104JA007	100K 1/16W	[M]
R5501	ERJ3GEYJ103V	10K 1/16W	[M]
R5503	D0GB562JA007	5.6K 1/16W	[M]
R5504	D0GB472JA041	4.7K 1/16W	[M]
R5505	ERJ3GEYJ102V	1K 1/16W	[M]
R5506	ERJ3GEYJ103V	10K 1/16W	[M]
R5507	D0GB563JA007	56K 1/16W	[M]
R5508	ERJ3GEYJ103V	10K 1/16W	[M]
R5509	D0GB563JA007	56K 1/16W	[M]
R5510	D0AF820JA039	82 1/4W	[M]
R5512	D0GB473JA041	47K 1/16W	[M]
R5513	D0GB473JA041	47K 1/16W	[M]
R5800	ERDS1FVJ1R0T	1 1/2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
K107	ERJ6GEY0R00V	CHIP JUMPER	[M]
K108	ERJ6GEY0R00V	CHIP JUMPER	[M]
K109	ERJ6GEY0R00V	CHIP JUMPER	[M]
K110	ERJ6GEY0R00V	CHIP JUMPER	[M]
W68	ERJ8GEY0R00V	CHIP JUMPER	[M]
W501	ERJ6GEY0R00V	CHIP JUMPER	[M]
W503	ERJ3GEY0R00V	CHIP JUMPER	[M]
W508	ERJ6GEY0R00V	CHIP JUMPER	[M]
W509	ERJ6GEY0R00V	CHIP JUMPER	[M]
W510	ERJ6GEY0R00V	CHIP JUMPER	[M]
W511	ERJ8GEY0R00V	CHIP JUMPER	[M]
W514	ERJ8GEY0R00V	CHIP JUMPER	[M]
W517	ERJ8GEY0R00V	CHIP JUMPER	[M]
W518	ERJ3GEY0R00V	CHIP JUMPER	[M]
W520	ERJ8GEY0R00V	CHIP JUMPER	[M]
W521	ERJ8GEY0R00V	CHIP JUMPER	[M]
W522	ERJ3GEY0R00V	CHIP JUMPER	[M]
W523	ERJ6GEY0R00V	CHIP JUMPER	[M]
W526	ERJ6GEY0R00V	CHIP JUMPER	[M]
W527	ERJ6GEY0R00V	CHIP JUMPER	[M]
W528	ERJ3GEY0R00V	CHIP JUMPER	[M]
W529	ERJ8GEY0R00V	CHIP JUMPER	[M]
W530	ERJ3GEY0R00V	CHIP JUMPER	[M]
W531	ERJ8GEY0R00V	CHIP JUMPER	[M]
W532	ERJ6GEY0R00V	CHIP JUMPER	[M]
W533	ERJ6GEY0R00V	CHIP JUMPER	[M]
W534	ERJ8GEY0R00V	CHIP JUMPER	[M]
W535	ERJ8GEY0R00V	CHIP JUMPER	[M]
W536	ERJ8GEY0R00V	CHIP JUMPER	[M]
W537	ERJ8GEY0R00V	CHIP JUMPER	[M]
W538	ERJ6GEY0R00V	CHIP JUMPER	[M]
W539	ERJ8GEY0R00V	CHIP JUMPER	[M]
W540	ERJ8GEY0R00V	CHIP JUMPER	[M]
W541	ERJ6GEY0R00V	CHIP JUMPER	[M]
W542	ERJ6GEY0R00V	CHIP JUMPER	[M]
W543	ERJ6GEY0R00V	CHIP JUMPER	[M]
W544	ERJ8GEY0R00V	CHIP JUMPER	[M]
W545	ERJ3GEY0R00V	CHIP JUMPER	[M]
W546	ERJ3GEY0R00V	CHIP JUMPER	[M]
W547	ERJ6GEY0R00V	CHIP JUMPER	[M]
W549	ERJ8GEY0R00V	CHIP JUMPER	[M]
W550	ERJ8GEY0R00V	CHIP JUMPER	[M]
W551	ERJ6GEY0R00V	CHIP JUMPER	[M]
W552	ERJ6GEY0R00V	CHIP JUMPER	[M]
W553	ERJ6GEY0R00V	CHIP JUMPER	[M]
W554	ERJ3GEY0R00V	CHIP JUMPER	[M]
W555	ERJ3GEY0R00V	CHIP JUMPER	[M]
W556	ERJ3GEY0R00V	CHIP JUMPER	[M]
W557	ERJ3GEY0R00V	CHIP JUMPER	[M]
W558	ERJ3GEY0R00V	CHIP JUMPER	[M]
W559	ERJ6GEY0R00V	CHIP JUMPER	[M]
W560	ERJ6GEY0R00V	CHIP JUMPER	[M]
W561	ERJ6GEY0R00V	CHIP JUMPER	[M]
W562	ERJ3GEY0R00V	CHIP JUMPER	[M]
W563	ERJ8GEY0R00V	CHIP JUMPER	[M]
W564	ERJ3GEY0R00V	CHIP JUMPER	[M]
W565	ERJ3GEY0R00V	CHIP JUMPER	[M]
W601	ERJ3GEY0R00V	CHIP JUMPER	[M]
W602	ERJ3GEY0R00V	CHIP JUMPER	[M]
W603	ERJ3GEY0R00V	CHIP JUMPER	[M]
W604	ERJ3GEY0R00V	CHIP JUMPER	[M]
W605	ERJ3GEY0R00V	CHIP JUMPER	[M]
W607	ERJ3GEY0R00V	CHIP JUMPER	[M]
W608	ERJ8GEY0R00V	CHIP JUMPER	[M]
W651	ERJ3GEY0R00V	CHIP JUMPER	[M]
W850	ERJ3GEY0R00V	CHIP JUMPER	[M]
W851	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA500	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA501	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA502	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA503	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA504	ERJ3GEY0R00V	CHIP JUMPER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
WA506	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA510	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA511	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA512	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA514	ERJ6GEY0R00V	CHIP JUMPER	[M]
WA521	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA524	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA525	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA527	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA530	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA531	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA532	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA533	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA534	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA535	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA537	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA538	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA539	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA540	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA541	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA542	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA543	ERJ3GEY0R00V	CHIP JUMPER	[M]
		CAPACITORS	
C101	ECJ1VC1H821J	820P 50V	[M]
C102	ECJ1VC1H821J	820P 50V	[M]
C103	F1H1H101A230	100P 50V	[M]
C104	F1H1H101A230	100P 50V	[M]
C105	ECJ1VC1H821J	820P 50V	[M]
C106	ECJ1VC1H821J	820P 50V	[M]
C107	F1H1H101A230	100P 50V	[M]
C108	F1H1H101A230	100P 50V	[M]
C109	ECJ1VC1H821J	820P 50V	[M]
C110	ECJ1VC1H821J	820P 50V	[M]
C111	F1H1H101A230	100P 50V	[M]
C112	F1H1H101A230	100P 50V	[M]
C113	ECJ1VC1H821J	820P 50V	[M]
C114	ECJ1VC1H821J	820P 50V	[M]
C115	F1H1H101A230	100P 50V	[M]
C116	F1H1H101A230	100P 50V	[M]
C121	ECA1HAK2R2XB	2.2 50V	[M]
C122	ECA1HAK2R2XB	2.2 50V	[M]
C123	ECA1HAK2R2XB	2.2 50V	[M]
C124	ECA1HAK2R2XB	2.2 50V	[M]
C125	ECA1HAK2R2XB	2.2 50V	[M]
C126	ECA1HAK2R2XB	2.2 50V	[M]
C131	F1H1H332A013	3300P 50V	[M]
C132	F1H1H332A013	3300P 50V	[M]
C133	F1H1E103A029	0.01 25V	[M]
C134	F1H1E103A029	0.01 25V	[M]
C135	ECA1CAK220XB	22 16V	[M]
C136	F1H1A334A036	0.33 10V	[M]
C151	ECA1CAK101XB	100 16V	[M]
C152	F1H1E103A029	0.01 25V	[M]
C153	F1H1H470A230	47P 50V	[M]
C154	F1H1H470A230	47P 50V	[M]
C155	ECA1CAK101XB	100 16V	[M]
C156	F1H1E103A029	0.01 25V	[M]
C157	ECA1HAK4R7XB	4.7 50V	[M]
C158	ECA1HAK100XB	10 50V	[M]
C159	ECA1HAK100XB	10 50V	[M]
C160	ECA1HAK4R7XB	4.7 50V	[M]
C161	ECA1HAK4R7XB	4.7 50V	[M]
C162	ECA1HAK100XB	10 50V	[M]
C163	ECA1HAK4R7XB	4.7 50V	[M]
C164	ECA1HAK4R7XB	4.7 50V	[M]
C165	ECA1HAK100XB	10 50V	[M]
C166	ECA1HAK4R7XB	4.7 50V	[M]
C167	ECA1HAK100XB	10 50V	[M]
C168	ECA1HAK4R7XB	4.7 50V	[M]
C170	ECA1HAK2R2XB	2.2 50V	[M]
C171	ECA1HAK2R2XB	2.2 50V	[M]
C174	ECJ1VB1C823K	0.082 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C175	ECA1HAK4R7XB	4.7 50V	[M]
C200	F1H1C104A008	0.1 16V	[M]
C203	F1H1H470A230	47P 50V	[M]
C204	F1H1H470A230	47P 50V	[M]
C205	F1H1H102A219	1000P 50V	[M]
C206	F1H1H102A219	1000P 50V	[M]
C207	ECJ1VB1A474K	0.47 10V	[M]
C208	ECJ1VB1A474K	0.47 10V	[M]
C209	F1H1A154A001	0.15 10V	[M]
C210	F1H1A154A001	0.15 10V	[M]
C211	ECJ1VB1C563K	0.056 16V	[M]
C212	ECJ1VB1C563K	0.056 16V	[M]
C213	F1H1C104A008	0.1 16V	[M]
C216	F1H1C104A008	0.1 16V	[M]
C217	F1H1C104A008	0.1 16V	[M]
C220	F1H1H470A230	47P 50V	[M]
C221	F1H1H470A230	47P 50V	[M]
C222	F1H1C104A008	0.1 16V	[M]
C223	ECA1CAK100XB	10 16V	[M]
C224	ECA1CAK100XB	10 16V	[M]
C225	F1H1C104A008	0.1 16V	[M]
C226	F1H1C104A008	0.1 16V	[M]
C229	ECJ1VC1H151J	150P 50V	[M]
C230	ECJ1VC1H151J	150P 50V	[M]
C231	ECA1CAK100XB	10 16V	[M]
C232	ECA1CAK100XB	10 16V	[M]
C233	F1H1C104A008	0.1 16V	[M]
C234	F1H1C104A008	0.1 16V	[M]
C235	F1H1C104A008	0.1 16V	[M]
C238	ECJ1VC1H151J	150P 50V	[M]
C239	ECA1HAK010XB	1 50V	[M]
C240	ECA1HAKR33XB	0.33 50V	[M]
C242	F1H1C104A008	0.1 16V	[M]
C243	ECJ1VB1H223K	0.022 50V	[M]
C244	F1H1C104A008	0.1 16V	[M]
C247	F1H1A334A036	0.33 10V	[M]
C248	F1H1C104A008	0.1 16V	[M]
C249	ECA1CAK100XB	10 16V	[M]
C250	ECA1CAK100XB	10 16V	[M]
C251	F1H1C104A008	0.1 16V	[M]
C253	F1H1C104A008	0.1 16V	[M]
C254	F1H1C104A008	0.1 16V	[M]
C264	ECA1HAK100XB	10 50V	[M]
C265	ECA1HAK100XB	10 50V	[M]
C266	F1H1H101A230	100P 50V	[M]
C267	F1H1H101A230	100P 50V	[M]
C268	F1H1C104A008	0.1 16V	[M]
C273	F1H1C104A008	0.1 16V	[M]
C274	F1H1C104A008	0.1 16V	[M]
C275	ECA1HAK3R3XB	3.3 50V	[M]
C276	ECA1HAK3R3XB	3.3 50V	[M]
C277	ECA1CAK470XB	47 16V	[M]
C278	ECA1CAK470XB	47 16V	[M]
C280	F1H1E103A029	0.01 25V	[M]
C282	F1H1C104A008	0.1 16V	[M]
C283	F1H1C104A008	0.1 16V	[M]
C284	F1H1H152A219	1500P 50V	[M]
C285	F1H1H152A219	1500P 50V	[M]
C301	F1H1H102A219	1000P 50V	[M]
C302	F1H1H102A219	1000P 50V	[M]
C303	F1H1H102A219	1000P 50V	[M]
C304	F1H1H102A219	1000P 50V	[M]
C305	F1H1E103A029	0.01 25V	[M]
C306	F1H1E103A029	0.01 25V	[M]
C307	ECA0JAK101XB	100 6.3V	[M]
C308	F1H1E103A029	0.01 25V	[M]
C309	ECJ1VC1H680J	68P 50V	[M]
C310	ECJ1VC1H680J	68P 50V	[M]
C311	ECA0JAM102XB	1000 6.3V	[M]
C312	ECA0JAM102XB	1000 6.3V	[M]
C313	F1H1C104A008	0.1 16V	[M]
C314	F1H1E103A029	0.01 25V	[M]
C315	ECA1HAK010XB	1 50V	[M]
C316	ECA1HAK010XB	1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C317	F1H1E103A029	0.01 25V	[M]
C318	F1H1E103A029	0.01 25V	[M]
C319	ECA0JAK101XB	100 6.3V	[M]
C400	F1H1H101A230	100P 50V	[M]
C401	F1H1H101A230	100P 50V	[M]
C402	F1H1H103A219	0.01 50V	[M]
C403	F1H1H101A230	100P 50V	[M]
C404	F1H1H101A230	100P 50V	[M]
C405	F1H1H103A219	0.01 50V	[M]
C406	F1H1H103A219	0.01 50V	[M]
C407	F1H1H102A219	1000P 50V	[M]
C408	F1H1H102A219	1000P 50V	[M]
C409	F1H1H102A219	1000P 50V	[M]
C410	F1H1H102A219	1000P 50V	[M]
C411	ECA0JAM471XB	470 6.3V	[M]
C412	F1H1C104A008	0.1 16V	[M]
C413	ECA1HAK220XB	22 50V	[M]
C414	ECA1HAK220XB	22 50V	[M]
C415	ECA1HAK220XB	22 50V	[M]
C416	ECA1HAK220XB	22 50V	[M]
C417	ECA1HAK100XB	10 50V	[M]
C418	ECA1HAK220XB	22 50V	[M]
C419	ECA1HAK220XB	22 50V	[M]
C420	F1H1C104A008	0.1 16V	[M]
C451	ECJ1VC1H821J	820P 50V	[M]
C452	ECJ1VC1H821J	820P 50V	[M]
C453	ECJ1VC1H821J	820P 50V	[M]
C454	F1H1H101A230	100P 50V	[M]
C455	F1H1H101A230	100P 50V	[M]
C456	F1H1H102A219	1000P 50V	[M]
C457	F1H1H331A013	330P 50V	[M]
C458	F1H1H331A013	330P 50V	[M]
C459	F1H1H331A013	330P 50V	[M]
C460	F1H1H331A013	330P 50V	[M]
C461	F1H1H331A013	330P 50V	[M]
C462	F1H1H331A013	330P 50V	[M]
C463	F1H1H331A013	330P 50V	[M]
C464	F1H1H331A013	330P 50V	[M]
C465	F1H1H331A013	330P 50V	[M]
C466	F1H1H331A013	330P 50V	[M]
C467	F1H1H331A013	330P 50V	[M]
C468	F1H1H331A013	330P 50V	[M]
C469	ECA1CAK330XB	33 16V	[M]
C500	F1H1H102A219	1000P 50V	[M]
C501	F1H1H102A219	1000P 50V	[M]
C502	ECJ1VB1A474K	0.47 10V	[M]
C503	ECJ1VB1A474K	0.47 10V	[M]
C504	ECJ1VB1A474K	0.47 10V	[M]
C505	ECJ1VB1A474K	0.47 10V	[M]
C506	F1H1H331A004	330P 50V	[M]
C507	F1H1H331A004	330P 50V	[M]
C508	F1H1H104A783	0.1 50V	[M]
C509	F1H1H104A783	0.1 50V	[M]
C510	F1K2A1040007	0.1 100V	[M]
C511	F1K2A1040007	0.1 100V	[M]
C512	F1H1H104A783	0.1 50V	[M]
C513	F1H1H104A783	0.1 50V	[M]
C515	F1H1H221A748	220P 50V	[M]
C516	F1K2A1040007	0.1 100V	[M]
C517	F1K2A1040007	0.1 100V	[M]
C518	F1K1V105A003	1 35V	[M]
C519	F1K1V105A003	1 35V	[M]
C520	F1K1H2210001	220P 50V	[M]
C521	F1K1H2210001	220P 50V	[M]
C522	ECJ1VB1H153K	0.015 50V	[M]
C523	ECJ1VB1H153K	0.015 50V	[M]
C524	F1H1H221A748	220P 50V	[M]
C525	F1H1H221A748	220P 50V	[M]
C526	F1K1V105A003	1 35V	[M]
C527	F1K1V105A003	1 35V	[M]
C529	F1H1H104A783	0.1 50V	[M]
C530	ECQV1H684JL3	0.68 50V	[M]
C531	ECQV1H684JL3	0.68 50V	[M]
C532	F1H1H104A783	0.1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C533	F1H1H104A783	0.1 50V	[M]
C540	EEUFF1V471E	470P 35V	[M]
C541	EEUFF1V471E	470P 35V	[M]
C544	EEUFF1V471E	470P 35V	[M]
C545	EEUFF1V471E	470P 35V	[M]
C550	F1H1H102A219	1000P 50V	[M]
C551	F1H1H102A219	1000P 50V	[M]
C552	ECJ1VB1A474K	0.47 10V	[M]
C553	ECJ1VB1A474K	0.47 10V	[M]
C554	ECJ1VB1A474K	0.47 10V	[M]
C555	ECJ1VB1A474K	0.47 10V	[M]
C556	F1H1H331A004	330P 50V	[M]
C557	F1H1H331A004	330P 50V	[M]
C558	F1H1H104A783	0.1 50V	[M]
C559	F1H1H104A783	0.1 50V	[M]
C560	F1K2A1040007	0.1 100V	[M]
C561	F1K2A1040007	0.1 100V	[M]
C562	F1H1H104A783	0.1 50V	[M]
C563	F1H1H104A783	0.1 50V	[M]
C565	F1H1H221A748	220P 50V	[M]
C566	F1K2A1040007	0.1 100V	[M]
C567	F1K2A1040007	0.1 100V	[M]
C568	F1K1V105A003	1 35V	[M]
C569	F1K1V105A003	1 35V	[M]
C570	F1K1H2210001	220P 50V	[M]
C571	F1K1H2210001	220P 50V	[M]
C572	ECJ1VB1H153K	0.015 50V	[M]
C573	ECJ1VB1H153K	0.015 50V	[M]
C574	F1H1H221A748	220P 50V	[M]
C575	F1H1H221A748	220P 50V	[M]
C576	F1K1V105A003	1 35V	[M]
C577	F1K1V105A003	1 35V	[M]
C579	F1H1H104A783	0.1 50V	[M]
C580	ECQV1H684JL3	0.68 50V	[M]
C581	ECQV1H684JL3	0.68 50V	[M]
C582	F1H1H104A783	0.1 50V	[M]
C583	F1H1H104A783	0.1 50V	[M]
C594	EEUFF1V471E	470P 35V	[M]
C595	EEUFF1V471E	470P 35V	[M]
C601	ECJ1VC1H101K	100P 50V	[M]
C603	ECJ1VB1A474K	0.47 10V	[M]
C605	ECJ1VB1A474K	0.47 10V	[M]
C606	ECJ1VC1H101K	100P 50V	[M]
C607	ECJ1VC1H101K	100P 50V	[M]
C608	F1H1H104A783	0.1 50V	[M]
C609	F1H1H104A783	0.1 50V	[M]
C610	F1K2A1040007	0.1 100V	[M]
C611	F1K2A1040007	0.1 100V	[M]
C612	F1H1H104A783	0.1 50V	[M]
C613	F1H1H104A783	0.1 50V	[M]
C615	F1H1H221A748	220P 50V	[M]
C616	F1K2A1040007	0.1 100V	[M]
C617	F1K2A1040007	0.1 100V	[M]
C618	F1K1V105A003	1 35V	[M]
C619	F1K1V105A003	1 35V	[M]
C620	F1K1H2210001	220P 50V	[M]
C621	F1K1H2210001	220P 50V	[M]
C622	ECJ1VB1H153K	0.015 50V	[M]
C623	ECJ1VB1H153K	0.015 50V	[M]
C624	F1H1H221A748	220P 50V	[M]
C625	F1H1H221A748	220P 50V	[M]
C626	F1K1V105A003	1 35V	[M]
C627	F1K1V105A003	1 35V	[M]
C629	F1H1H104A783	0.1 50V	[M]
C630	ECQV1H105JL3	1 50V	[M]
C631	ECQV1H105JL3	1 50V	[M]
C632	F1H1H104A783	0.1 50V	[M]
C633	F1H1H104A783	0.1 50V	[M]
C644	EEUFF1V471E	470P 35V	[M]
C645	EEUFF1V471E	470P 35V	[M]
C651	F1H1H102A219	1000P 50V	[M]
C653	ECJ1VB1A474K	0.47 10V	[M]
C655	ECJ1VB1A474K	0.47 10V	[M]
C656	F1H1H331A004	330P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C657	F1H1H331A004	330P 50V	[M]
C658	F1H1H104A783	0.1 50V	[M]
C659	F1H1H104A783	0.1 50V	[M]
C660	F1K2A1040007	0.1 100V	[M]
C661	F1K2A1040007	0.1 100V	[M]
C662	F1H1H104A783	0.1 50V	[M]
C663	F1H1H104A783	0.1 50V	[M]
C665	F1H1H221A748	220P 50V	[M]
C666	F1K2A1040007	0.1 100V	[M]
C667	F1K2A1040007	0.1 100V	[M]
C668	F1K1V105A003	1 35V	[M]
C669	F1K1V105A003	1 35V	[M]
C670	F1K1H2210001	220P 50V	[M]
C671	F1K1H2210001	220P 50V	[M]
C672	ECJ1VB1H153K	0.015 50V	[M]
C673	ECJ1VB1H153K	0.015 50V	[M]
C674	F1H1H221A748	220P 50V	[M]
C675	F1H1H221A748	220P 50V	[M]
C676	F1K1V105A003	1 35V	[M]
C677	F1K1V105A003	1 35V	[M]
C679	F1H1H104A783	0.1 50V	[M]
C680	ECQV1H105JL3	1 50V	[M]
C681	ECQV1H105JL3	1 50V	[M]
C682	F1H1H104A783	0.1 50V	[M]
C683	F1H1H104A783	0.1 50V	[M]
C688	ECA0JAK101XB	100 6.3V	[M]
C694	EEUFF1V471E	470P 35V	[M]
C695	EEUFF1V471E	470P 35V	[M]
C701	ECQU2A104MLC	0.1 100V	[M] ⚠
C703	F1BAF1020020	1000P 10V	[M] ⚠
C704	F1BAF1020020	1000P 10V	[M] ⚠
C705	F1BAF1020020	1000P 10V	[M] ⚠
C706	ECQU2A104MLC	0.1 100V	[M] ⚠
C707	F2B2G4710006	470P 250V	[M]
C708	F1J2E1030004	0.01 250V	[M]
C709	F1H1H471A219	470P 50V	[M]
C710	ECKE3D821KBP	820P 2000	[M]
C711	ECA1HAM470XB	47 50V	[M]
C712	F1H1H221A748	220P 50V	[M]
C713	F1H1H102A219	1000P 50V	[M]
C714	F1BAF1020020	1000P 10V	[M] ⚠
C725	ECA2GHG4R7B	4.7 250V	[M]
C726	ECQP6182JUB	CAPACITOR	[M]
C727	F1H1H102A219	1000P 50V	[M]
C728	ECJ2FB1H104K	0.1 50V	[M]
C729	ECA1HAK010XB	1 50V	[M]
C730	F2A1A2210063	220P 10V	[M]
C731	F1J2E1020002	1000P 250V	[M]
C732	F1BAF1020020	1000P 10V	[M] ⚠
C736	F1BAF471A013	470 10V	[M] ⚠
C737	F1BAF471A013	470 10V	[M] ⚠
C800	F1J2E1030004	0.01 250V	[M]
C801	F1J2A331A030	330P 100V	[M]
C802	F1H1H104A783	0.1 50V	[M]
C803	F1H1H471A219	470P 50V	[M]
C804	ECA1VHG102E	1000 35V	[M]
C805	F2A1C681A624	680P 16V	[M]
C806	F2A1C681A624	680P 16V	[M]
C807	F2A1C681A624	680P 16V	[M]
C808	F2A1C1210012	120P 16V	[M]
C809	F1H1H104A783	0.1 50V	[M]
C810	F2A1C681A624	680P 16V	[M]
C811	F2A1C1210012	120P 16V	[M]
C812	F2A1C1210012	120P 16V	[M]
C813	F2A1C1210012	120P 16V	[M]
C814	F1H1H102A219	1000P 50V	[M]
C815	ECA1HAM101XB	100 50V	[M]
C817	F1H1H102A219	1000P 50V	[M]
C818	F1H1H102A219	1000P 50V	[M]
C819	ECA1HAM101XB	100 50V	[M]
C820	ECA1HAM101XB	100 50V	[M]
C824	F1H1H104A783	0.1 50V	[M]
C825	F1H1H104A783	0.1 50V	[M]
C828	F1J2E1030004	0.01 250V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C853	ECJ1VB1H682K	6800P 50V	[M]
C857	F2A1H2200032	22P 50V	[M]
C859	EEUFF1V561E	560P 35V	[M]
C860	EEUFF1V561E	560P 35V	[M]
C861	EEUFF1V561E	560P 35V	[M]
C862	F2A1A2210063	220P 10V	[M]
C865	F1H1H102A219	1000P 50V	[M]
C866	F1J2E1030004	0.01 250V	[M]
C867	F1J2E1030004	0.01 250V	[M]
C868	F1J2E1030004	0.01 250V	[M]
C869	F1J2E1030004	0.01 250V	[M]
C870	F1H1H102A219	1000P 50V	[M]
C871	F2A1H2200032	22P 50V	[M]
C880	F1H1H103A219	0.01 50V	[M]
C881	ECA1CAK220XB	22 16V	[M]
C882	ECJ1VB1H104K	0.1 50V	[M]
C883	F1H1H103A219	0.01 50V	[M]
C884	ECJ1VB1H104K	0.1 50V	[M]
C885	ECA1CAK220XB	22 16V	[M]
C886	ECJ1VB1H104K	0.1 50V	[M]
C887	F1H1H103A219	0.01 50V	[M]
C1001	ECA1HAK010XB	1 50V	[M]
C1001	ECJ1VB1A184K	0.18 10V	[M]
C1002	ECJ1VB1A184K	0.18 10V	[M]
C1002	F1H1C104A008	0.1 16V	[M]
C1003	ECA0JAK101XB	100 6.3V	[M]
C1003	ECJ1VB1A184K	0.18 10V	[M]
C1004	ECA1HAK010XB	1 50V	[M]
C1005	ECA1HAK010XB	1 50V	[M]
C1006	ECJ1VB1A184K	0.18 10V	[M]
C1006	F1H1C104A008	0.1 16V	[M]
C1007	ECJ1VB1A184K	0.18 10V	[M]
C1007	F1H1C104A008	0.1 16V	[M]
C1008	ECA1HAK2R2XB	2.2 50V	[M]
C1009	F1H1H471A219	470P 50V	[M]
C1010	F1H1H103A219	0.01 50V	[M]
C1011	ECA0JAK101XB	100 6.3V	[M]
C1012	F1H1C104A008	0.1 16V	[M]
C1013	F1H1C104A008	0.1 16V	[M]
C1015	F1H1H101A230	100P 50V	[M]
C1016	F1H1H101A230	100P 50V	[M]
C1017	F1H1H101A230	100P 50V	[M]
C1018	F1H1H102A219	1000P 50V	[M]
C1019	F1H1H102A219	1000P 50V	[M]
C1020	F1H1C104A008	0.1 16V	[M]
C1021	F1H1C104A008	0.1 16V	[M]
C1022	F1H1C104A008	0.1 16V	[M]
C1023	F1H1H220A230	22P 50V	[M]
C1024	ECA0JAK101XB	100 6.3V	[M]
C1025	F1H1H220A230	22P 50V	[M]
C1026	F1H1C104A008	0.1 16V	[M]
C1027	F1H1H101A230	100P 50V	[M]
C1101	ECA1CAK100XB	10 16V	[M]
C1102	F1H1C104A008	0.1 16V	[M]
C1103	F1H1C104A008	0.1 16V	[M]
C1104	F1H1C104A008	0.1 16V	[M]
C1105	ECA1CAK100XB	10 16V	[M]
C1106	ECJ1VB1H682K	6800P 50V	[M]
C1107	F1H1C104A008	0.1 16V	[M]
C1108	ECJ1VC1H102J	1000P 50V	[M]
C1110	ECA1CAK100XB	10 16V	[M]
C1111	F1H1C104A008	0.1 16V	[M]
C1117	F1H1H272A013	2700P 50V	[M]
C1118	F1H1H272A013	2700P 50V	[M]
C1119	F1H1C104A008	0.1 16V	[M]
C1120	F1H1C104A008	0.1 16V	[M]
C1121	F1H1C104A008	0.1 16V	[M]
C1122	ECA1CAK101XB	100 16V	[M]
C1123	ECA1HPX100B	10 50V	[M]
C1124	ECA1HPX100B	10 50V	[M]
C1125	F1H1H101A230	100P 50V	[M]
C1126	F1H1H103A219	0.01 50V	[M]
C1127	ECJ1VB1H561K	560P 50V	[M]
C1128	ECJ1VB1H561K	560P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1129	ECJ1VB1H561K	560P 50V	[M]
C1130	ECJ1VB1H561K	560P 50V	[M]
C1131	ECA1CAK101XB	100 16V	[M]
C1132	ECA1CAK101XB	100 16V	[M]
C1201	ECJ1VB1H182K	1800P 50V	[M]
C1202	ECJ1VB1H562K	5600P 50V	[M]
C1203	ECJ1VB1H182K	1800P 50V	[M]
C1204	ECJ1VB1H562K	5600P 50V	[M]
C1205	ECJ1VB1H182K	1800P 50V	[M]
C1206	ECJ1VB1H562K	5600P 50V	[M]
C1207	ECJ1VB1H562K	5600P 50V	[M]
C1208	ECJ1VB1H182K	1800P 50V	[M]
C1209	ECJ1VB1H562K	5600P 50V	[M]
C1210	ECJ1VB1H182K	1800P 50V	[M]
C1211	ECJ1VB1H562K	5600P 50V	[M]
C1212	ECJ1VB1H182K	1800P 50V	[M]
C1213	ECA1CAK220XB	22 16V	[M]
C1214	ECA1CAK220XB	22 16V	[M]
C1215	ECA1CAK220XB	22 16V	[M]
C1216	ECJ1VB1H122K	1200P 50V	[M]
C1217	ECA1CAK220XB	22 16V	[M]
C1218	ECJ1VB1H122K	1200P 50V	[M]
C1219	ECA1CAK220XB	22 16V	[M]
C1220	ECJ1VB1H122K	1200P 50V	[M]
C1221	ECA1CAK220XB	22 16V	[M]
C1222	ECJ1VB1H122K	1200P 50V	[M]
C1223	ECJ1VB1H122K	1200P 50V	[M]
C1224	ECJ1VB1H122K	1200P 50V	[M]
C1225	F1H1H391A013	390P 50V	[M]
C1226	F1H1H391A013	390P 50V	[M]
C1227	F1H1H391A013	390P 50V	[M]
C1228	F1H1H391A013	390P 50V	[M]
C1229	F1H1H391A013	390P 50V	[M]
C1230	F1H1H391A013	390P 50V	[M]
C1231	ECA1CAK100XB	10 16V	[M]
C1232	ECA1CAK100XB	10 16V	[M]
C1233	ECA1CAK100XB	10 16V	[M]
C1234	ECA1CAK100XB	10 16V	[M]
C1235	ECA1CAK100XB	10 16V	[M]
C1236	ECA1CAK100XB	10 16V	[M]
C1237	F1H1H103A219	0.01 50V	[M]
C1238	F1H1H103A219	0.01 50V	[M]
C1239	F1H1H103A219	0.01 50V	[M]
C1240	F1H1H103A219	0.01 50V	[M]
C1241	F1H1H103A219	0.01 50V	[M]
C1242	F1H1H103A219	0.01 50V	[M]
C1243	F1H1H101A230	100P 50V	[M]
C1245	ECA1EAK470XB	47 25V	[M]
C1246	ECA1EAK470XB	47 25V	[M]
C1261	ECA1HAK2R2XB	2.2 50V	[M]
C1262	ECA1HAK2R2XB	2.2 50V	[M]
C1301	F1H1H103A219	0.01 50V	[M]
C1302	F1H1H104A783	0.1 50V	[M]
C1303	F1H1H103A219	0.01 50V	[M]
C1304	F1H1H104A783	0.1 50V	[M]
C1305	F1H1C104A008	0.1 16V	[M]
C1306	F1H1C104A008	0.1 16V	[M]
C1307	F1H1C104A008	0.1 16V	[M]
C1308	ECA0JAK101XB	100 6.3V	[M]
C1309	F1H1H103A219	0.01 50V	[M]
C1310	F1H1C104A008	0.1 16V	[M]
C1311	F1H1C104A008	0.1 16V	[M]
C1412	F1H1H101A230	100P 50V	[M]
C1530	F1H1C104A008	0.1 16V	[M]
C1540	F1H1C104A008	0.1 16V	[M]
C1550	ECJ1VC1H330J	33P 50V	[M]
C1551	ECJ1VC1H330J	33P 50V	[M]
C1580	ECA1HAK010XB	1 50V	[M]
C1590	ECA1HAK100XB	10 50V	[M]
C1620	ECA1HAK100XB	10 50V	[M]
C1630	ECA1HAK100XB	10 50V	[M]
C1660	ECA1HAK100XB	10 50V	[M]
C1670	ECA1HAK100XB	10 50V	[M]
C1680	ECA1HAK2R2XB	2.2 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1681	ECA1HAK2R2XB	2.2 50V	[M]
C1701	ECA1CAK220XB	22 16V	[M]
C1702	F1H1H391A013	390P 50V	[M]
C1703	ECA1CAK100XB	10 16V	[M]
C1704	F1H1H103A219	0.01 50V	[M]
C1705	ECA1CAK101XB	100 16V	[M]
C1706	ECA1AM332E	3300 10V	[M]
C2040	F1H1C104A008	0.1 16V	[M]
C2400	ECA1CAK100XB	10 16V	[M]
C2401	ECA1CAK100XB	10 16V	[M]
C2402	ECA1CAK100XB	10 16V	[M]
C2403	ECA1CAK100XB	10 16V	[M]
C4070	F1H1C104A008	0.1 16V	[M]
C4071	F1H1C104A008	0.1 16V	[M]
C4101	F1H1H102A219	1000P 50V	[M]
C4143	F1H1E103A029	0.01 25V	[M]
C5001	ECA1CAK330XB	33 16V	[M]
C5002	ECA1CAK330XB	33 16V	[M]
C5003	ECA1CAK330XB	33 16V	[M]
C5004	F1H1H104A783	0.1 50V	[M]
C5005	F1K2A1040007	0.1 100V	[M]
C5006	F1K2A1040007	0.1 100V	[M]
C5007	F1K2A1040007	0.1 100V	[M]
C5008	F1K2A1040007	0.1 100V	[M]
C5400	F1H1H471A219	470P 50V	[M]
C5401	F1H1H101A230	100P 50V	[M]
C5402	F1H1H101A230	100P 50V	[M]
C5403	F1H1H101A230	100P 50V	[M]
C5405	F1H1H104A783	0.1 50V	[M]
C5406	F1H1H101A230	100P 50V	[M]
C5407	F1H1H104A783	0.1 50V	[M]
C5408	ECA1CAK100XB	10 16V	[M]
C5500	ECA1CAK100XB	10 16V	[M]
C5501	ECA1HAK2R2XB	2.2 50V	[M]
C5503	ECA1CAK330XB	33 16V	[M]
C5504	ECA0JAK101XB	100 6.3V	[M]
C5505	ECA1AAK221XB	220 10V	[M]
C5506	ECA1CAK100XB	10 16V	[M]
C5507	ECA1CAK100XB	10 16V	[M]
C5508	EEUFF1V471E	470P 35V	[M]
C5509	EEUFF1V471E	470P 35V	[M]
C5801	ECQB1H103JF3	0.01 50V	[M]