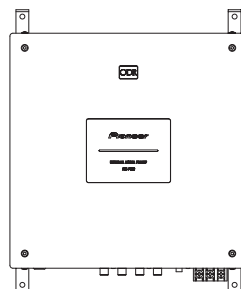


**Pioneer** *sound.vision.soul*

# Service Manual



RS-P90/EW5

ORDER NO.  
**CRT3658**

OPTICAL DIGITAL REFERENCE SYSTEM UNIVERSAL DIGITAL PREAMP

# RS-P90/EW5



For details, refer to "Important Check Points for Good Servicing".

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# SAFETY INFORMATION

A

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

B

## ● Service Precautions

- 1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
- 2. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.

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## [Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.  
Please be sure to confirm and follow these procedures.

### 1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.  
Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.  
In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.  
If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.  
Please pay attention to your surroundings and repair safely.

### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.  
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance.  
Make sure the proper amount is applied.

### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

### 5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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# 1. SPECIFICATIONS

## GENERAL

Power Source ..... DC 14.4 V (10.8 to 15.1 V allowable)  
Grounding system ..... Negative type  
Max. Current consumption ..... 1 A  
Backup Current ..... 3 mA or less  
Fuse ..... 4 A  
Dimensions ..... 240 (W) mm x 59 (H) mm x 240 (D) mm  
Weight ..... 3.6 kg

## DSP/PREAMP

Tone controls (parametric)  
Bass frequency ..... 63 Hz, 100 Hz, 160 Hz, 250 Hz  
Treble frequency ..... 4 kHz, 6.3 kHz, 10 kHz, 16 kHz  
Gain .....  $\pm 12$  dB  
31-band graphic equalizer (L/R independent)  
Frequency ..... 20 Hz to 20 kHz, 1/3 oct.  
Gain .....  $\pm 12$  dB (0.5 dB)  
3-band parametric equalizer (L/R independent)  
Frequency ..... 20 Hz to 20 kHz, 1/3 oct.  
Gain .....  $\pm 12$  dB (0.5 dB)  
Crossover network (L/R independent)  
SUBWOOFER  
..... HPF frequency: 20 Hz to 100 Hz, 1/3 oct.  
..... LPF frequency: 40 Hz to 250 Hz, 1/3 oct.  
..... Gain: +10 dB to -24 dB (0.5 dB)  
LOW ..... HPF frequency: 25 Hz to 250 Hz, 1/3 oct.  
..... LPF frequency: 250 Hz to 10 kHz, 1/3 oct.  
..... Gain: 0 dB to -24 dB (0.5 dB)  
MID ..... HPF frequency: 160 Hz to 10 kHz, 1/3 oct.  
..... LPF frequency: 2 kHz to 20 kHz, 1/3 oct.  
..... Gain: 0 dB to -24 dB (0.5 dB)  
HIGH  
..... HPF frequency: 1.6 kHz to 20 kHz, 1/3 oct.  
..... LPF frequency: 8 kHz to 20 kHz, 1/3 oct.  
..... Gain: 0 dB to -24 dB (0.5 dB)  
Slope  
..... PASS, -6, -12, -18, -24, -36, -48, -72 dB/oct.  
..... (PASS: no pass HPF-High channel)  
Phase ..... NORMAL/REVERSE  
Time alignment  
(H/M/L ch) ..... 0 cm to 192.5 cm (0.77 cm)  
(SW ch) ..... 0 cm to 385 cm (1.54 cm)  
Position adjustment  
..... DISTANCE: 0 cm to 192.5 cm (0.77 cm)  
..... Level: 0 dB to -30 dB (0.5 dB)  
Sampling frequency ..... 44.1 kHz  
Digital input ..... Optical input  
Analog Output ..... RCA output (4 line)

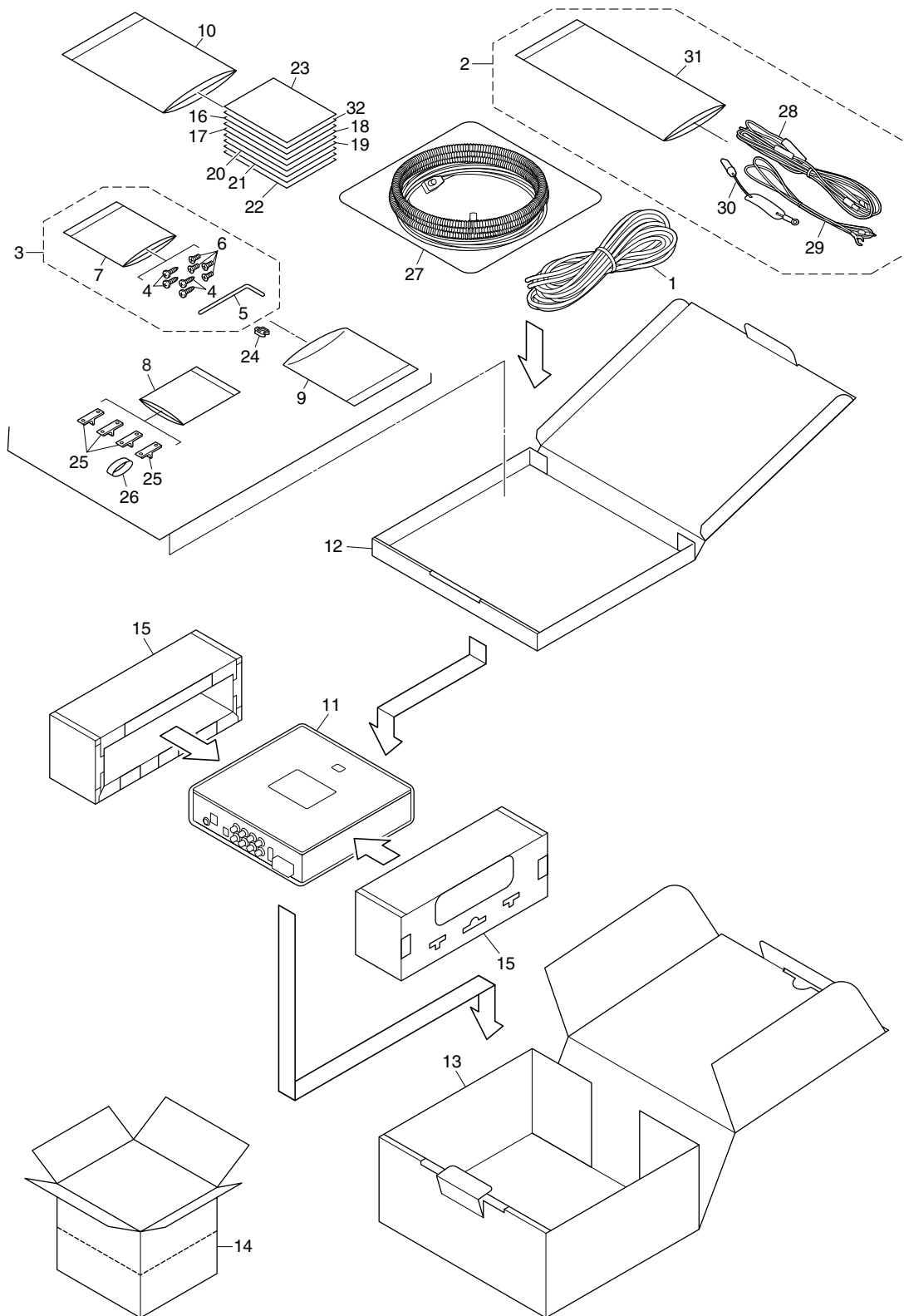
## RCA OUTPUT

Frequency response ..... 10 Hz to 20 kHz, (-1, +0 dB)  
Max. output level/impedance ..... 4 V/220  $\Omega$   
Distortion ..... 0.002% (1 kHz, 20 kHz LPF)  
Signal-to-noise ratio ..... 115 dB (IHF-A network)  
Separation ..... 80 dB (100 Hz to 10 kHz, 20 kHz LPF)

## 2. EXPLODED VIEWS AND PARTS LIST

NOTES : • Parts marked by " \* " are generally unavailable because they are not in our Master Spare Parts List.  
 • The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.  
 • Screw adjacent to ▽ mark on the product are used for disassembly.  
 • For the applying amount of lubricants or glue, follow the instructions in this manual.  
 (In the case of no amount instructions, apply as you think it appropriate.)

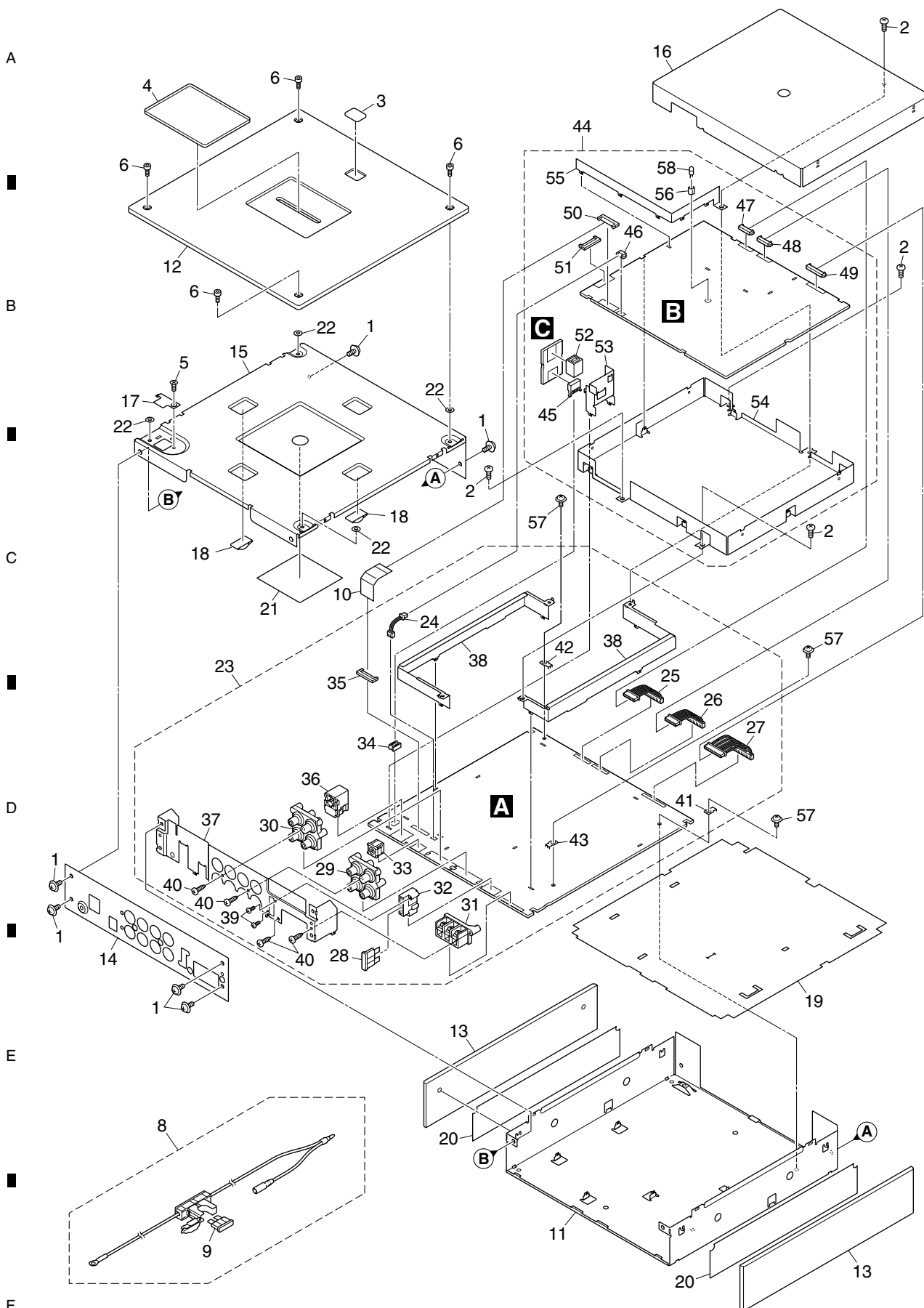
### 2.1 PACKING



# **PACKING SECTION PARTS LIST**

| <u>Mark No.</u> | <u>Description</u>      | <u>Part No.</u> |
|-----------------|-------------------------|-----------------|
| 1               | Cord                    | CDE4167         |
| 2               | Cord Assy               | CDE6642         |
| 3               | Screw Assy              | CEA5484         |
| 4               | Screw                   | BYC40P120FTB    |
| 5               | Shaft                   | CLP1246         |
| 6               | Screw                   | CMZ40P080FTC    |
| * 7             | Polyethylene Bag        | E36-613         |
| * 8             | Polyethylene Bag        | CEG-020         |
| * 9             | Polyethylene Bag        | CEG1101         |
| 10              | Polyethylene Bag        | CEG1116         |
| 11              | Polyethylene Bag        | CEG1364         |
| 12              | Sub Carton              | CHG5726         |
| 13              | Carton                  | CHG5898         |
| 14              | Contain Box             | CHL5898         |
| 15              | Protector               | CHP3188         |
| 16              | Owner's Manual(English) | CRB2199         |
| 17              | Owner's Manual(Spanish) | CRB2200         |
| 18              | Owner's Manual(German)  | CRB2201         |
| 19              | Owner's Manual(French)  | CRB2202         |
| 20              | Owner's Manual(Italian) | CRB2203         |
| 21              | Owner's Manual(Dutch)   | CRB2204         |
| 22              | Owner's Manual(Russian) | CRB2205         |
| * 23            | Warranty Card           | CRY1157         |
| 24              | Clamper                 | CNV1443         |
| 25              | Bracket                 | CND3195         |
| 26              | Cover                   | CNS2726         |
| 27              | Cable                   | CDE6690         |
| * 28            | Cord                    | CDE6314         |
| * 29            | Cord                    | CDE6315         |
| * 30            | Cord                    | CDE6641         |
| * 31            | Polyethylene Bag        | CEG-145         |
| * 32            | Caution Card            | CRP1343         |

## 2.2 EXTERIOR



# EXTERIOR SECTION PARTS LIST

| Mark No. | Description        | Part No.     | Mark No. | Description       | Part No.       |   |
|----------|--------------------|--------------|----------|-------------------|----------------|---|
| 1        | Screw              | BMN30P080FTB | 50       | Connector(CN3201) | CKS5091        |   |
| 2        | Screw              | BMZ30P060FCU |          |                   |                |   |
| * 3      | Badge              | CAH1871      | 51       | Connector(CN4951) | CKS5091        | A |
| * 4      | Badge              | CAH1951      | 52       | Connector(CN514)  | CKS5643        |   |
| 5        | Screw(M3 x 4.5)    | CBA1937      | 53       | Holder            | CND3095        |   |
|          |                    |              | 54       | Holder            | CND3098        |   |
| 6        | Screw(M3 x 8)      | CBA1993      | 55       | Holder            | CND3099        |   |
| 7        | *****              |              |          |                   |                |   |
| 8        | Cord Assy          | CDE6642      | 56       | Spacer            | CNN1169        |   |
| ⚠ 9      | Fuse(4 A)          | CEK1001      | 57       | Screw             | ISS30P050FTC   |   |
| 10       | FFC                | CDE8046      | 58       | LED(D2601)        | NSPW315BS-0359 |   |
|          |                    |              |          |                   |                |   |
| 11       | Chassis            | CNA2874      |          |                   |                | B |
| 12       | Panel              | CNB3236      |          |                   |                |   |
| 13       | Panel              | CNB3237      |          |                   |                |   |
| 14       | Panel              | CNB3238      |          |                   |                |   |
| 15       | Case               | CNB3239      |          |                   |                |   |
|          |                    |              |          |                   |                |   |
| 16       | Holder             | CND3097      |          |                   |                |   |
| 17       | Holder             | CND3474      |          |                   |                |   |
| 18       | Holder             | CND3476      |          |                   |                |   |
| 19       | Insulator          | CNM9879      |          |                   |                |   |
| 20       | Tape               | CNM9880      |          |                   |                |   |
|          |                    |              |          |                   |                | C |
| 21       | Sheet              | CNN1170      |          |                   |                |   |
| 22       | Insulator          | CNN1171      |          |                   |                |   |
| 23       | Control Unit       | CWN1434      |          |                   |                |   |
| 24       | Cord(CN302)        | CDE8047      |          |                   |                |   |
| 25       | Cord(CN101)        | CDE8048      |          |                   |                |   |
|          |                    |              |          |                   |                |   |
| 26       | Cord(CN102)        | CDE8048      |          |                   |                |   |
| 27       | Cord(CN801)        | CDE8049      |          |                   |                |   |
| ⚠ 28     | Fuse(4 A)          | CEK1001      |          |                   |                |   |
| 29       | Pin Jack(CN103)    | CKB1072      |          |                   |                |   |
| 30       | Pin Jack(CN104)    | CKB1072      |          |                   |                | D |
|          |                    |              |          |                   |                |   |
| 31       | Terminal(CN901)    | CKE1060      |          |                   |                |   |
| 32       | Fuse Holder(CN902) | CKR1021      |          |                   |                |   |
| 33       | Connector(CN301)   | CKS2600      |          |                   |                |   |
| 34       | Connector(CN651)   | CKS3561      |          |                   |                |   |
| 35       | Connector(CN601)   | CKS5071      |          |                   |                |   |
|          |                    |              |          |                   |                |   |
| 36       | Connector(CN701)   | CKS5325      |          |                   |                |   |
| 37       | Holder             | CND3093      |          |                   |                |   |
| 38       | Holder             | CND3094      |          |                   |                |   |
| 39       | Screw              | PPZ20P060FTB |          |                   |                | E |
| 40       | Screw              | PPZ30P080FTB |          |                   |                |   |
|          |                    |              |          |                   |                |   |
| 41       | Terminal(CN501)    | VNF1084      |          |                   |                |   |
| 42       | Terminal(CN502)    | VNF1084      |          |                   |                |   |
| 43       | Terminal(CN503)    | VNF1084      |          |                   |                |   |
| 44       | DSP Unit           | CWX3288      |          |                   |                |   |
| 45       | Plug(CN513)        | CKS3533      |          |                   |                |   |
|          |                    |              |          |                   |                |   |
| 46       | Connector(CN2101)  | CKS4977      |          |                   |                |   |
| 47       | Connector(CN2402)  | CKS4985      |          |                   |                | F |
| 48       | Connector(CN2403)  | CKS4985      |          |                   |                |   |
| 49       | Connector(CN2401)  | CKS4989      |          |                   |                |   |

# 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

## 3.1 BLOCK DIAGRAM

A

B

C

D

E

F

F

10

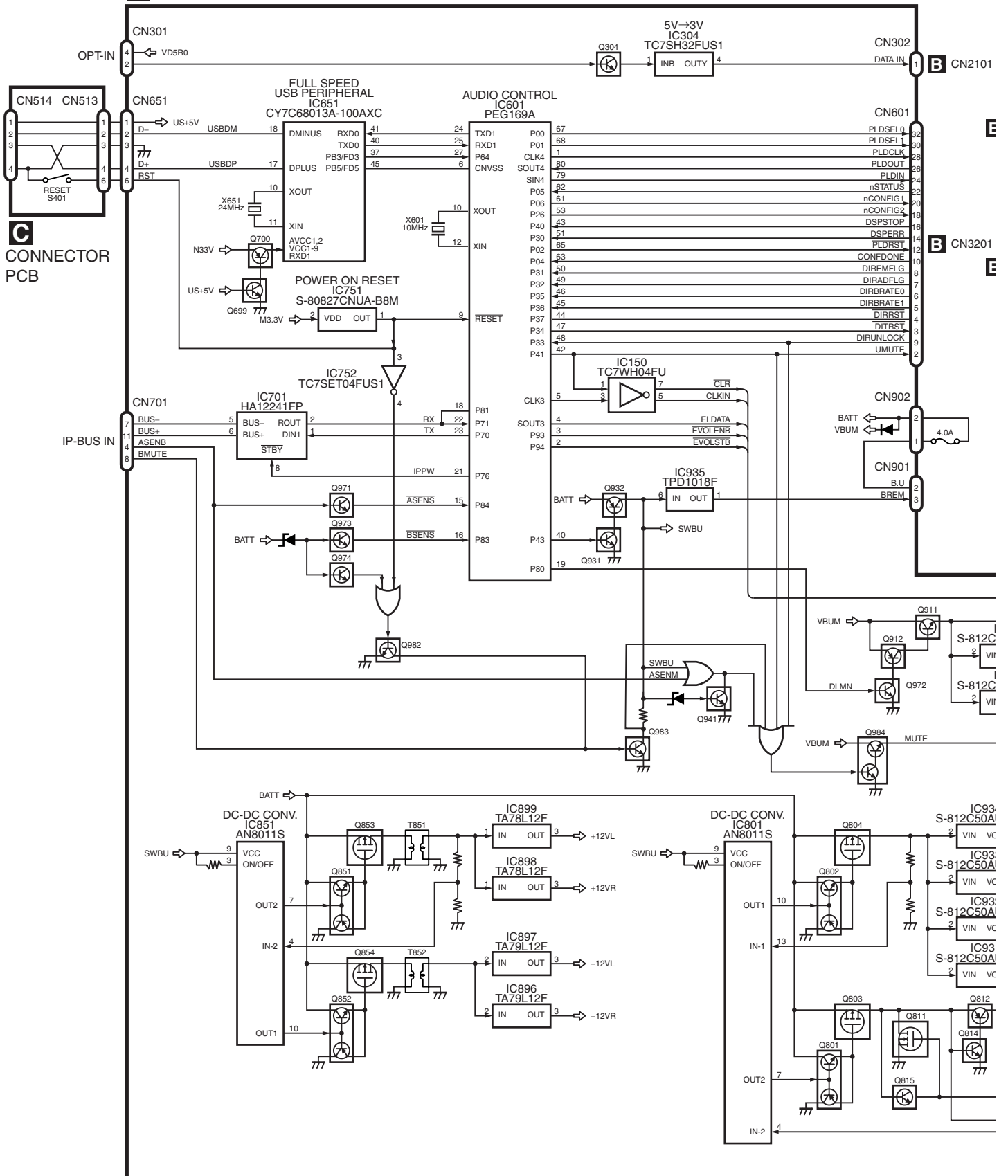
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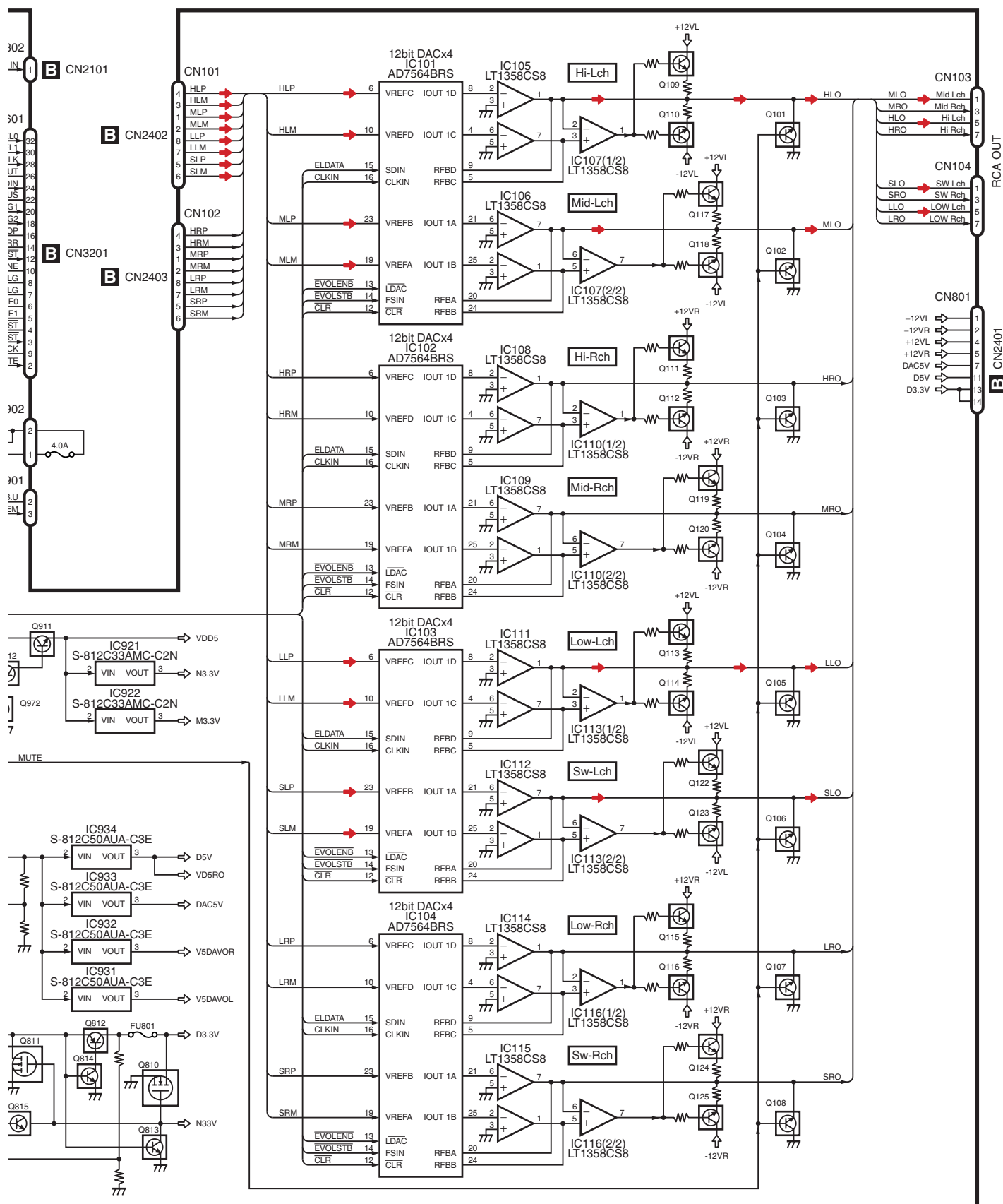
2

3

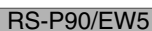
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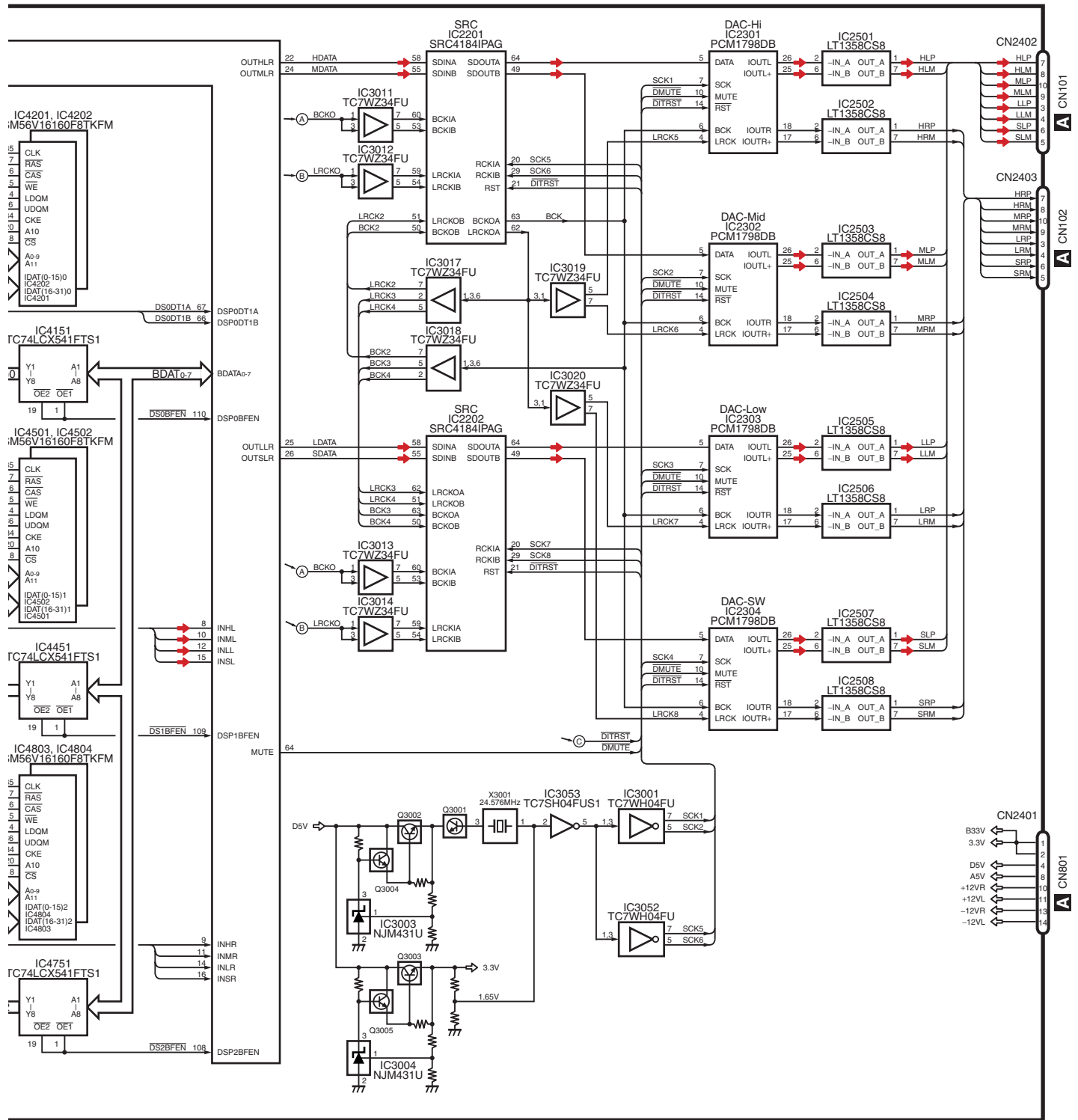
### A CONTROL UNIT





## F





## 4

A



C

D

# E

F

1

2

3

4

## A

**E**



Decimal points for resistor and capacitor fixed values are expressed as :

2.2 → 2R2

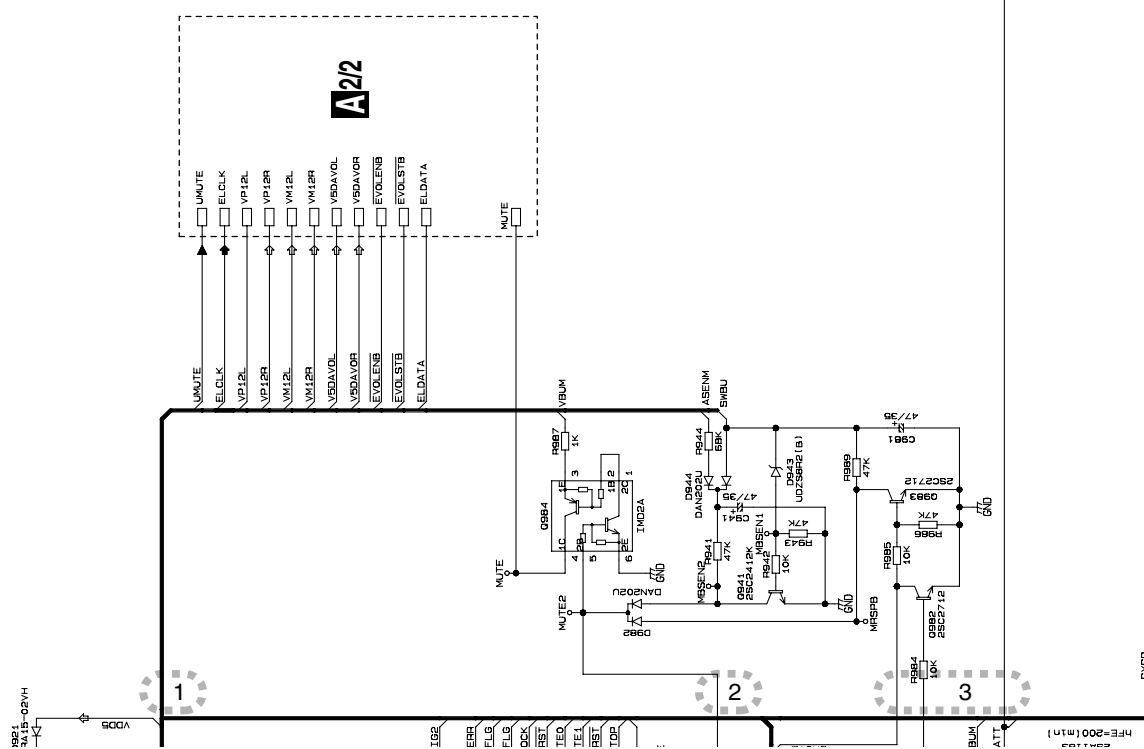
0.022 → R022

No differentiation is made between chip capacitors and discrete capacitors.

The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

**A**<sup>1/2</sup>

# A<sup>1/2</sup> CONTROL UNIT(1/2)



**NOTE:**

□ Symbol indicates a resistor.

No differentiation is made between chip resistors and discrete resistors.

—||— Symbol indicates a capacitor.

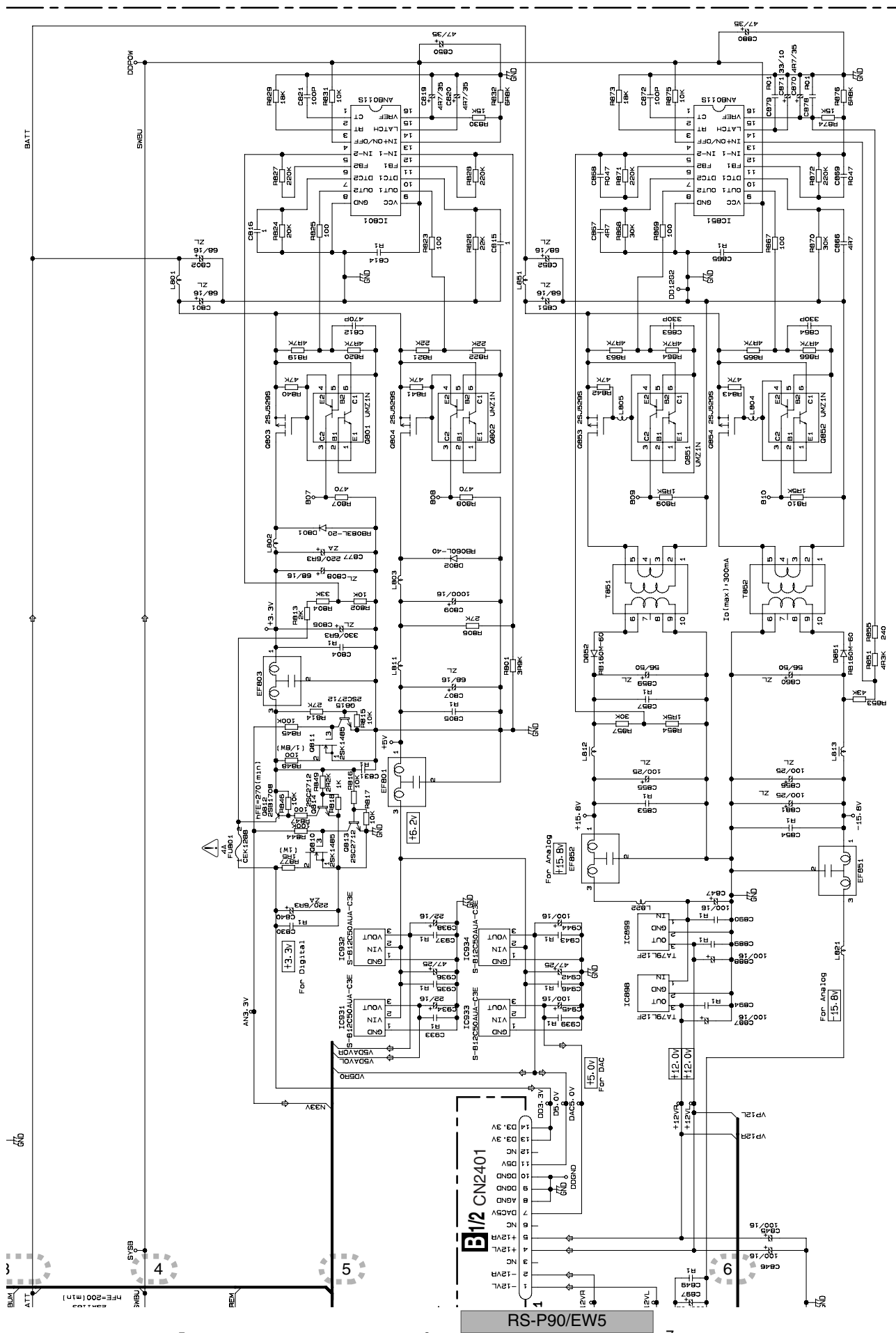
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as :  
2.2  $\rightarrow$  2R2  
0.022  $\rightarrow$  R022

## 2.2 $\rightarrow$ 2R2

$$0.022 \rightarrow R022$$

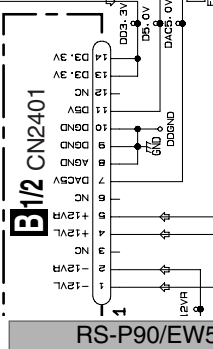
The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



A-a A-b

A B C D E F

A-b 1/2



RS-P90/EW5

A B C D E F

1 2 3 4 1 2 3 4 1 2 3 4

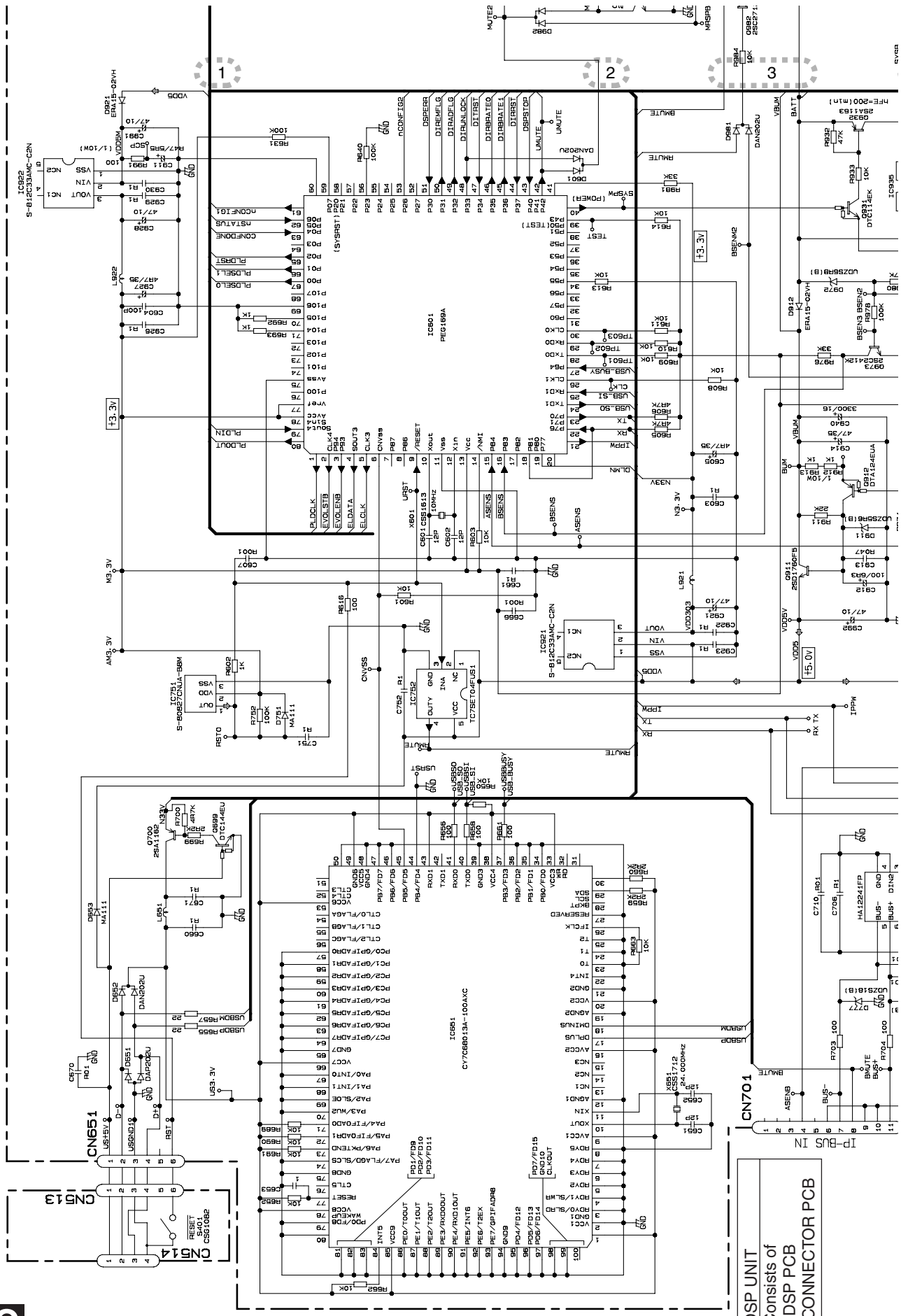
A-b 1/2

A-a A-b

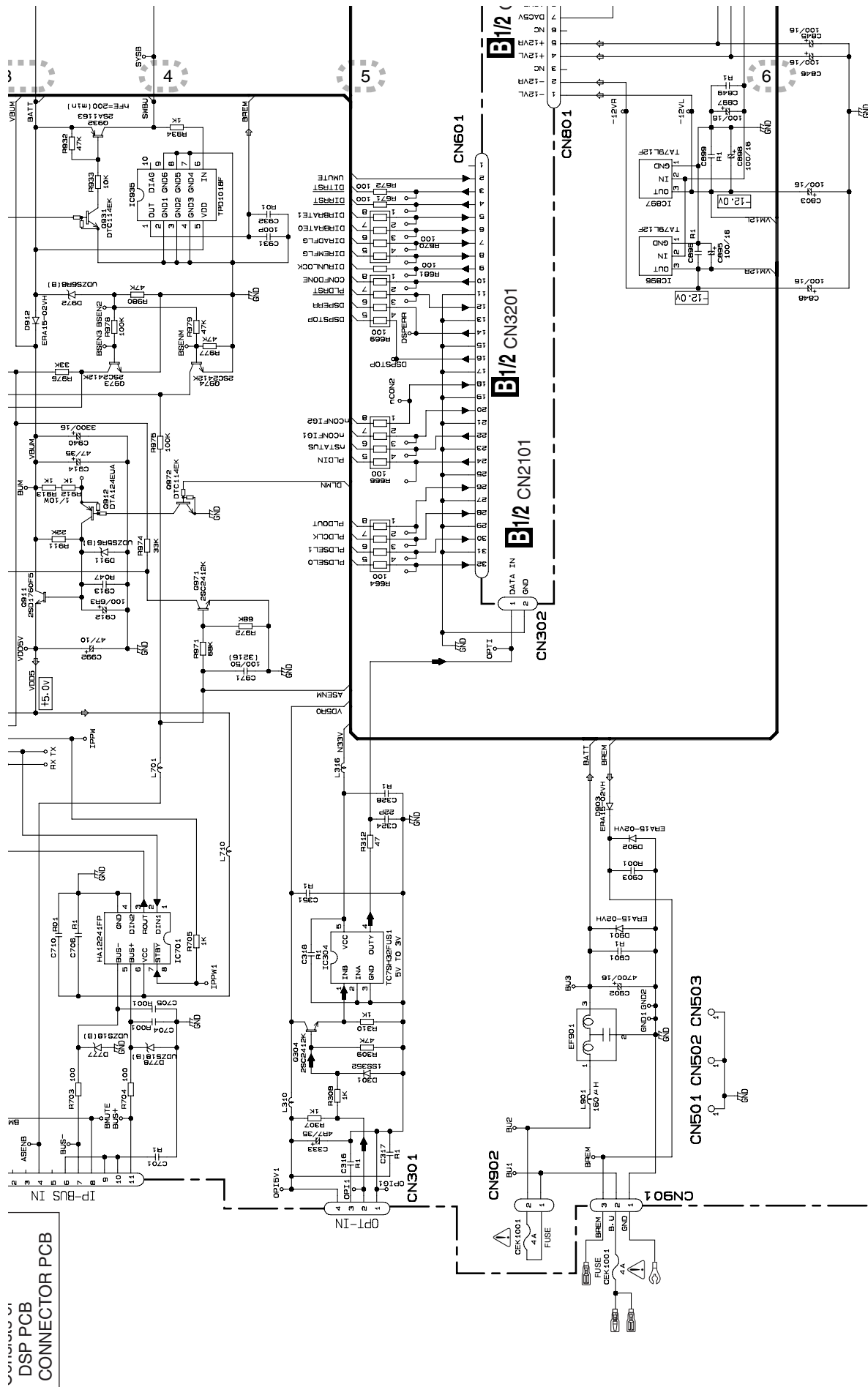
C CONNECTOR PCB

A-a 1/2 C

RS-P90/EW5



DSP UNIT  
Consists of  
DSP PCB  
CONNECTOR PCB



**A-a 1/2**

**A-b 1/2**

F

E

D

C

B

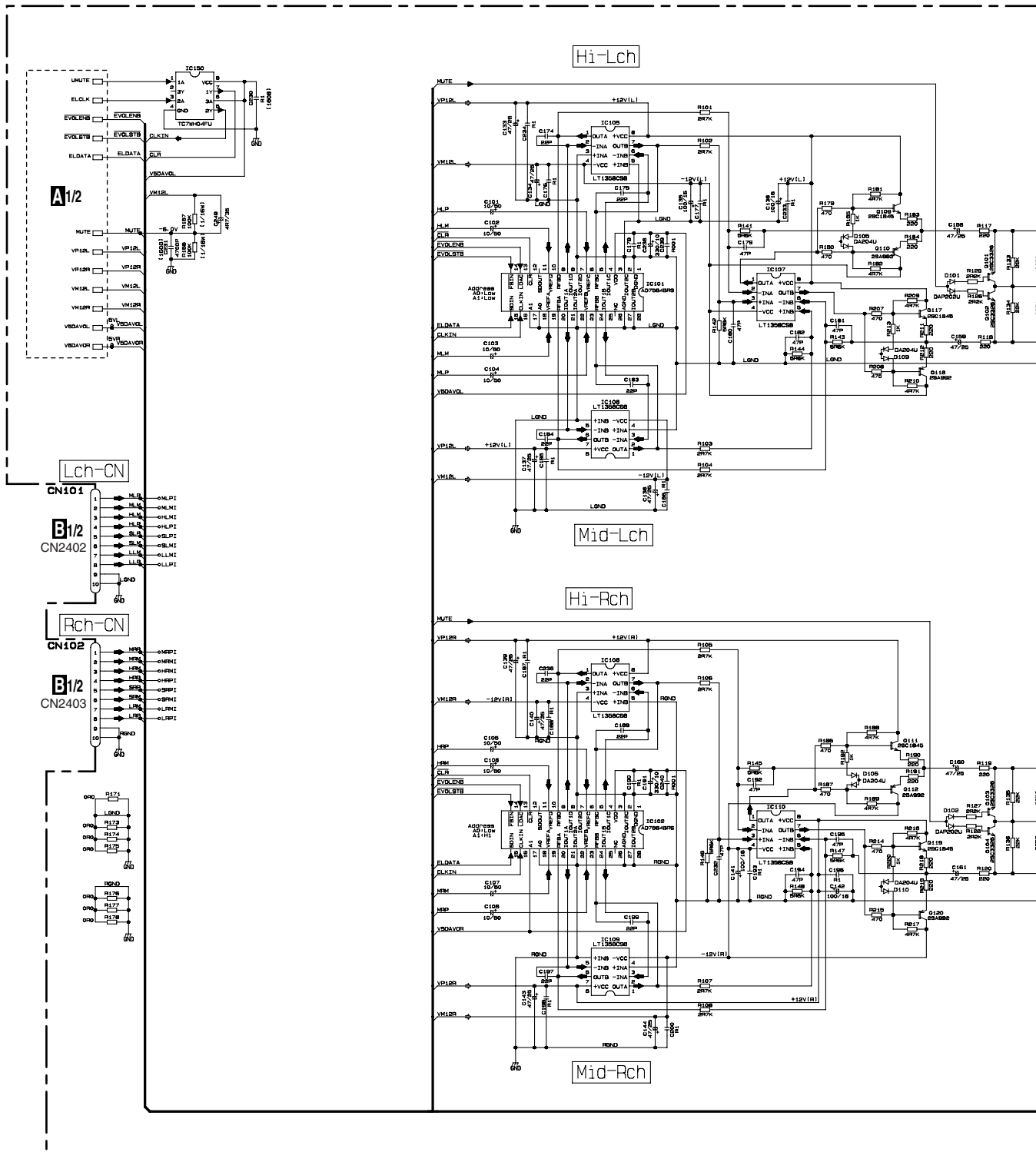
A

|     |     |
|-----|-----|
| A-a | A-b |
|-----|-----|

RS-P90/EW5

# 3.3 CONTROL UNIT(2/2)(GUIDE PAGE)

A-a 2/2



A2/2

A

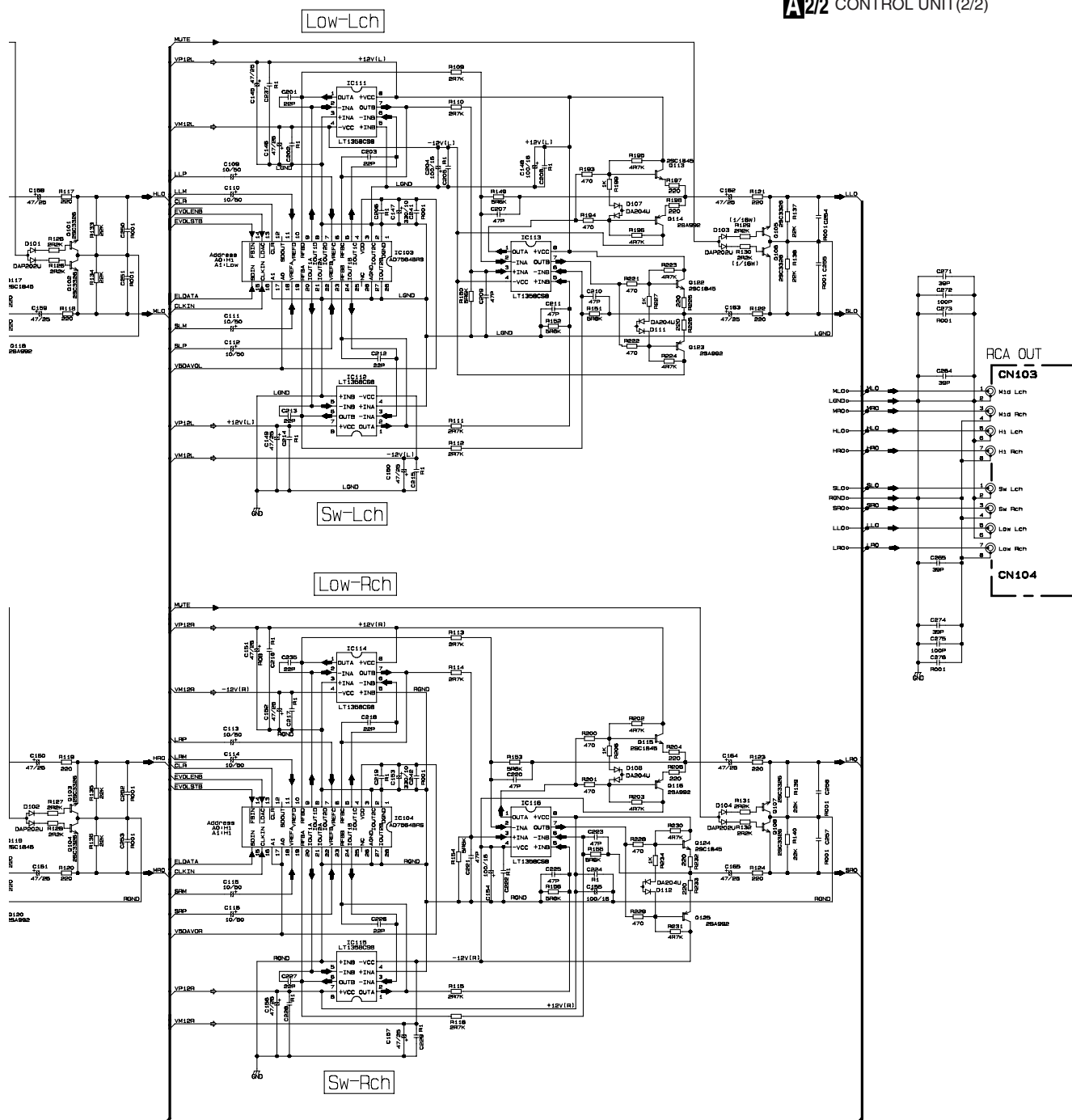
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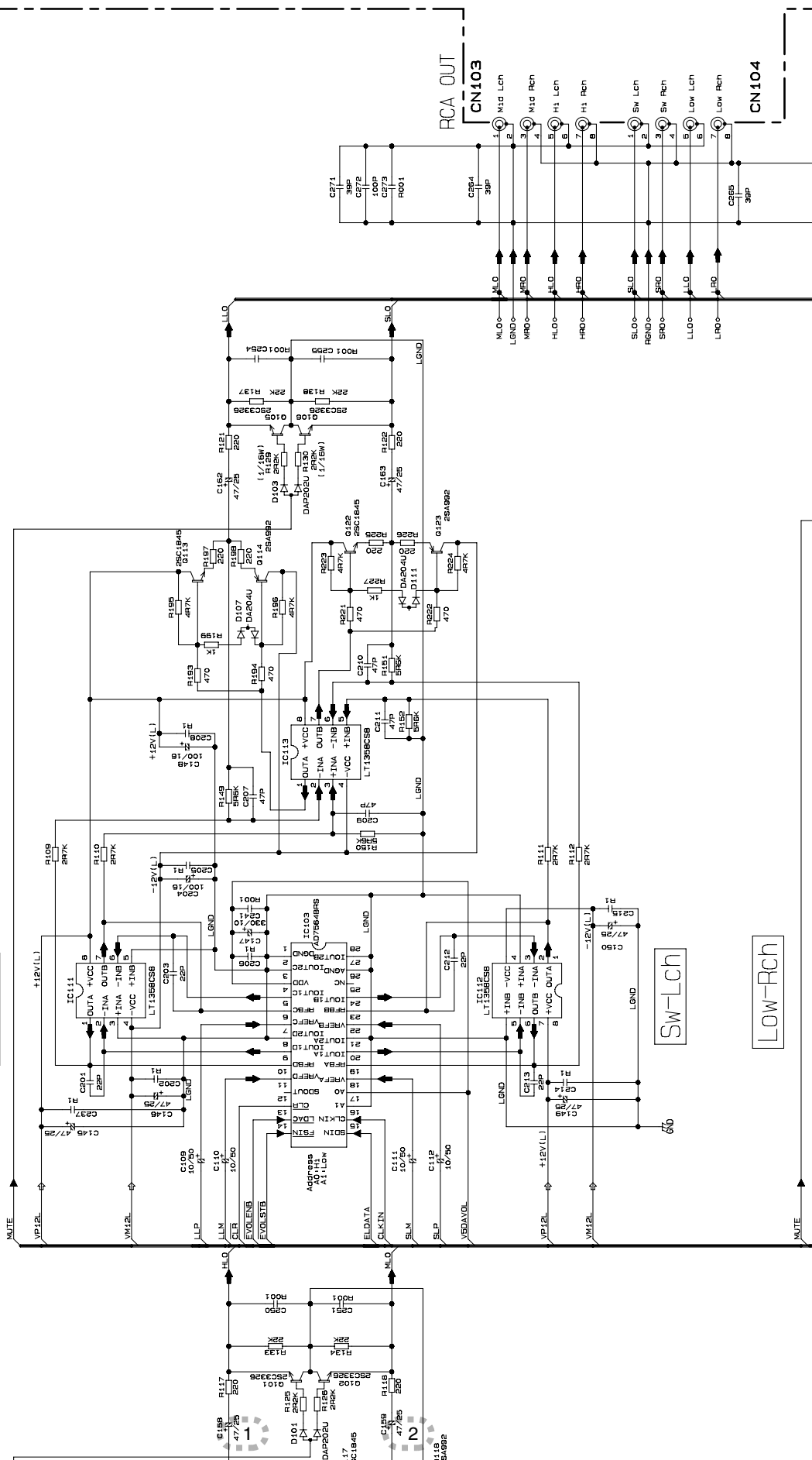
D

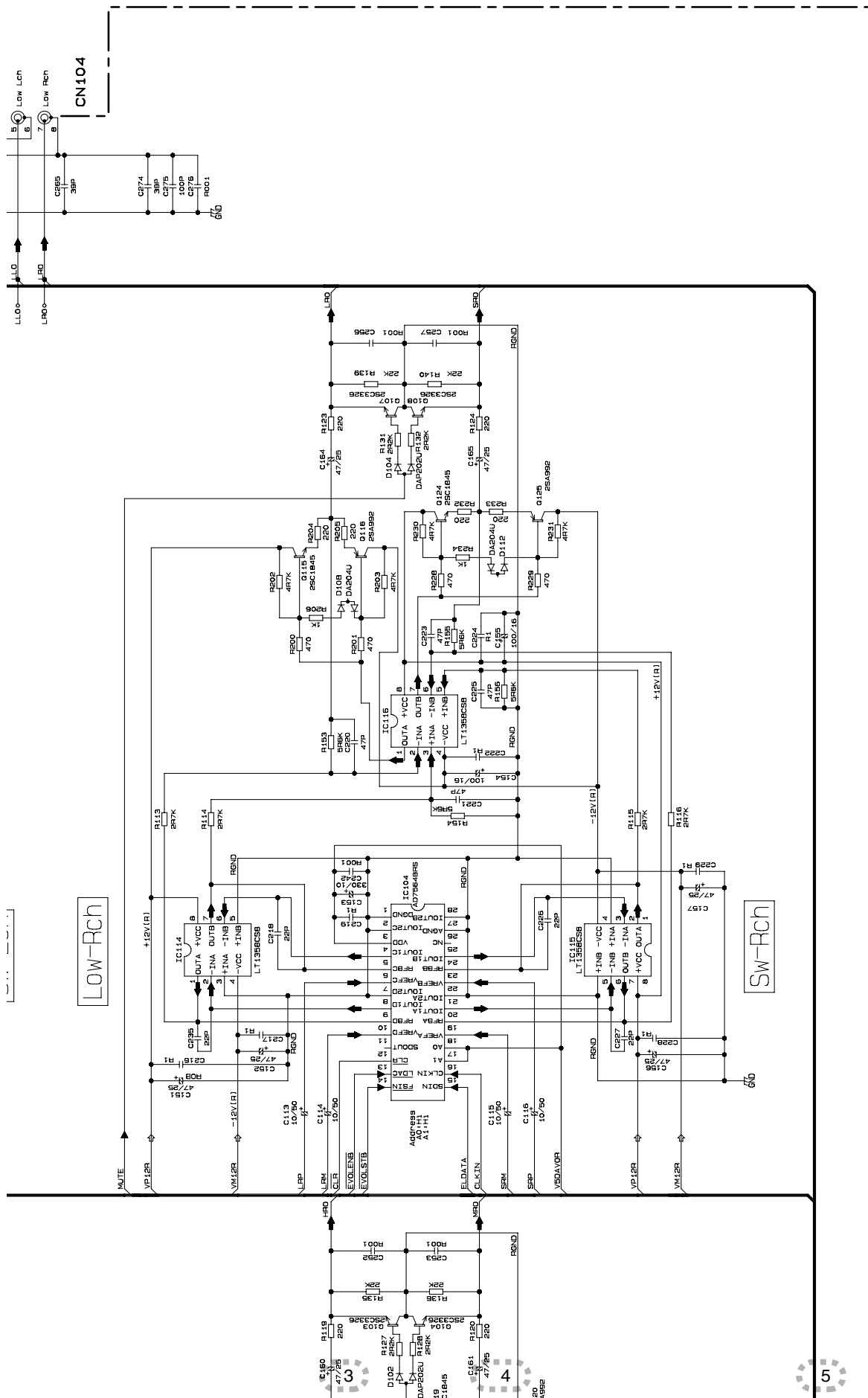
E

F

## A2/2 CONTROL UNIT(2/2)

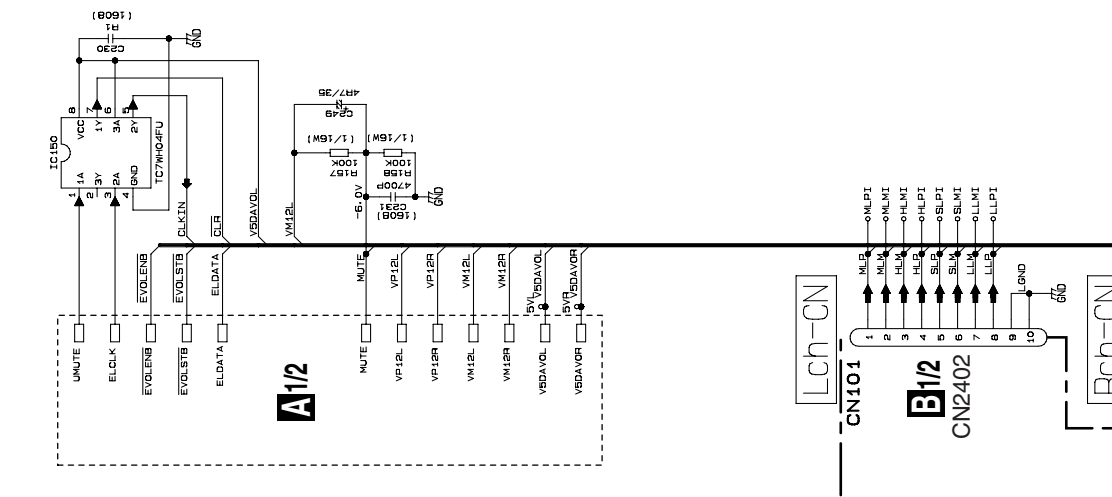


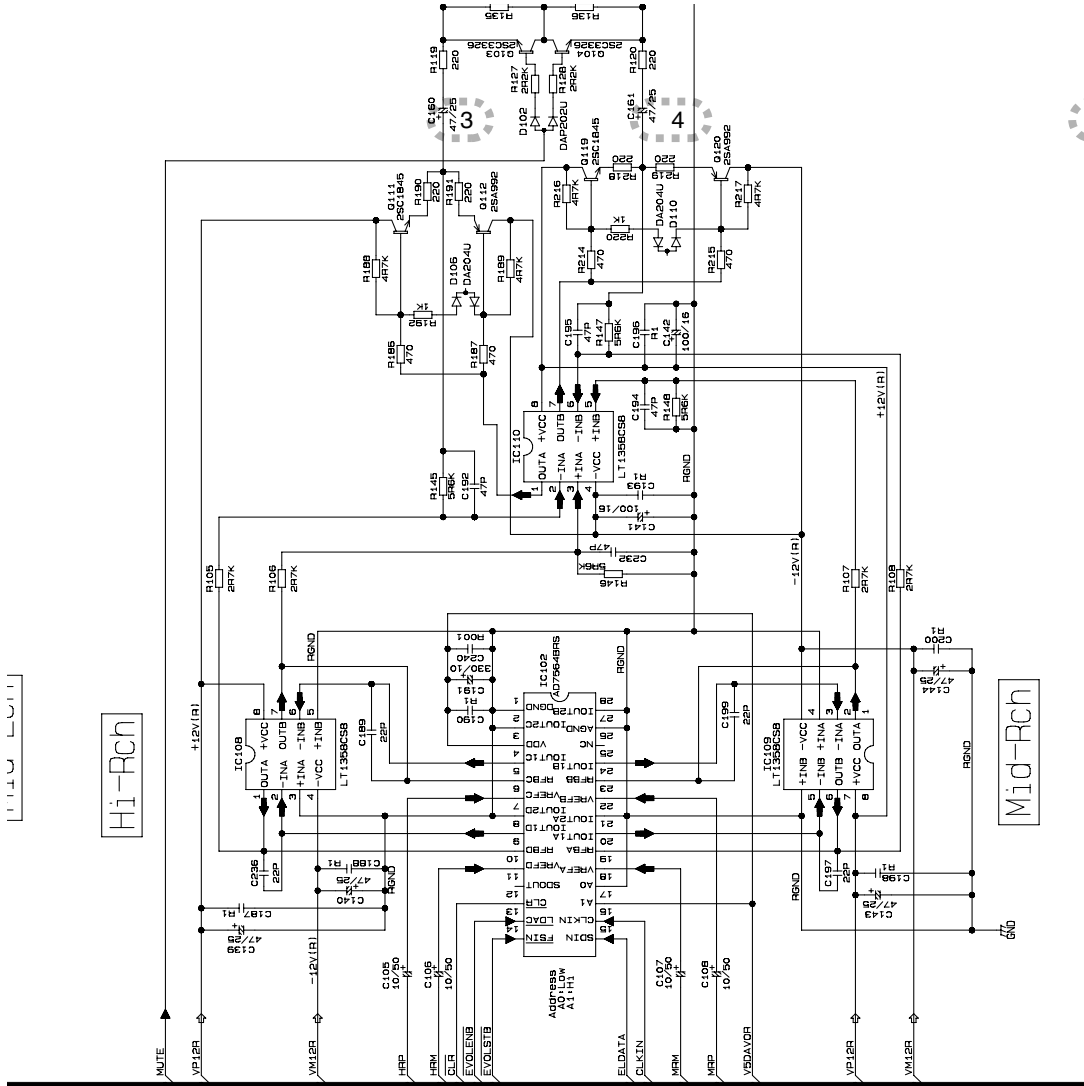
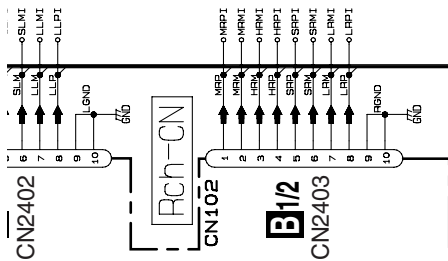




A-a A-b

F





5

A-a 2/2

A-b 2/2

RS-P90/EW5

F

E

D

C

B

A

## 4

A



C

D

F

F

1

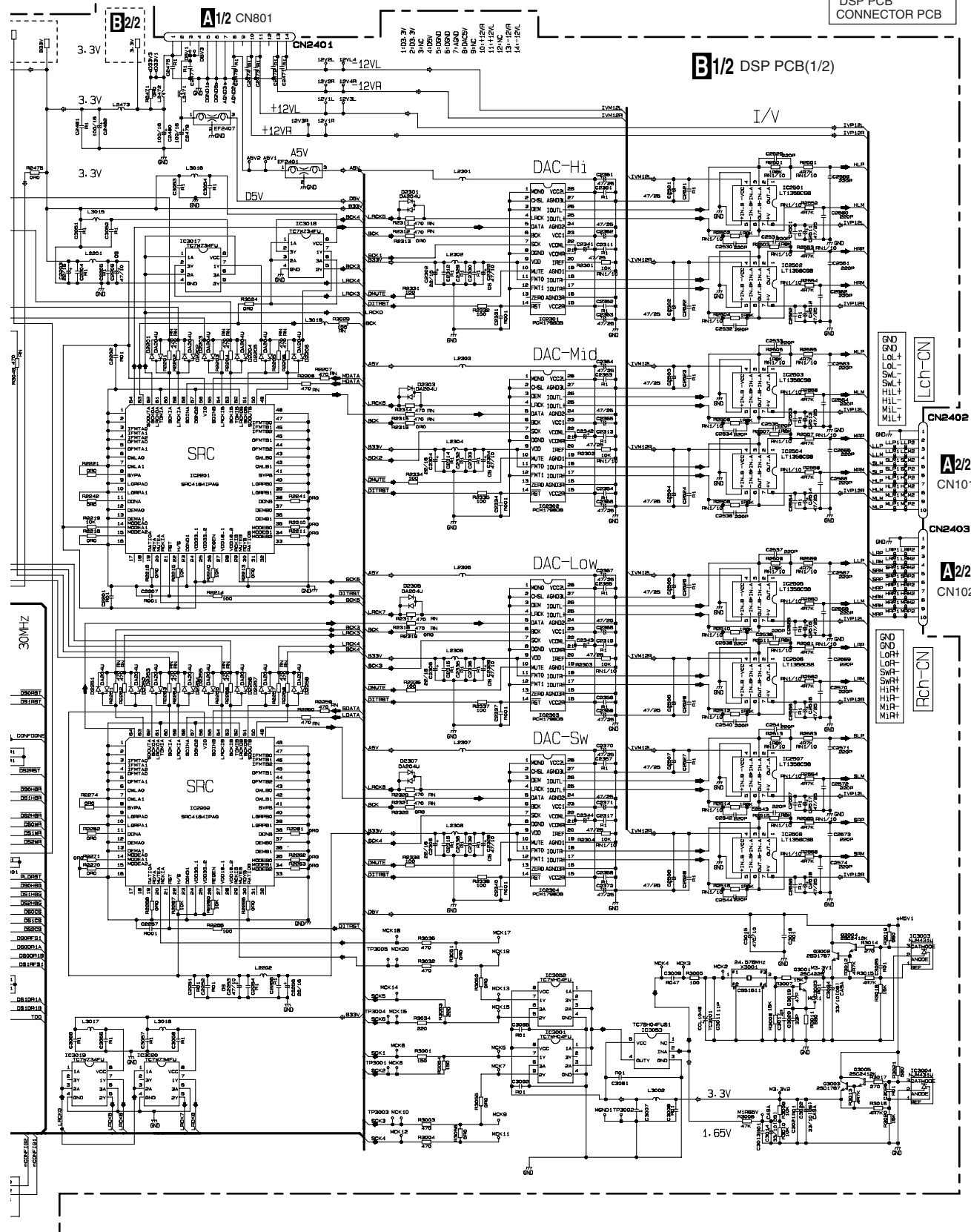
2

3

4

B-b 1/2

DSP UNIT  
Consists of  
DSP PCB  
CONNECTOR PCB



A

B

C

D

E

F

B1/2

RS-P90/EW5

A B C D E F

1 2 3 4

1 2 3 4

DSP UNIT  
Consists of  
DSP PCB  
CONNECTOR PCB

B1/2 DSP PCB(1/2)

B-a B-b

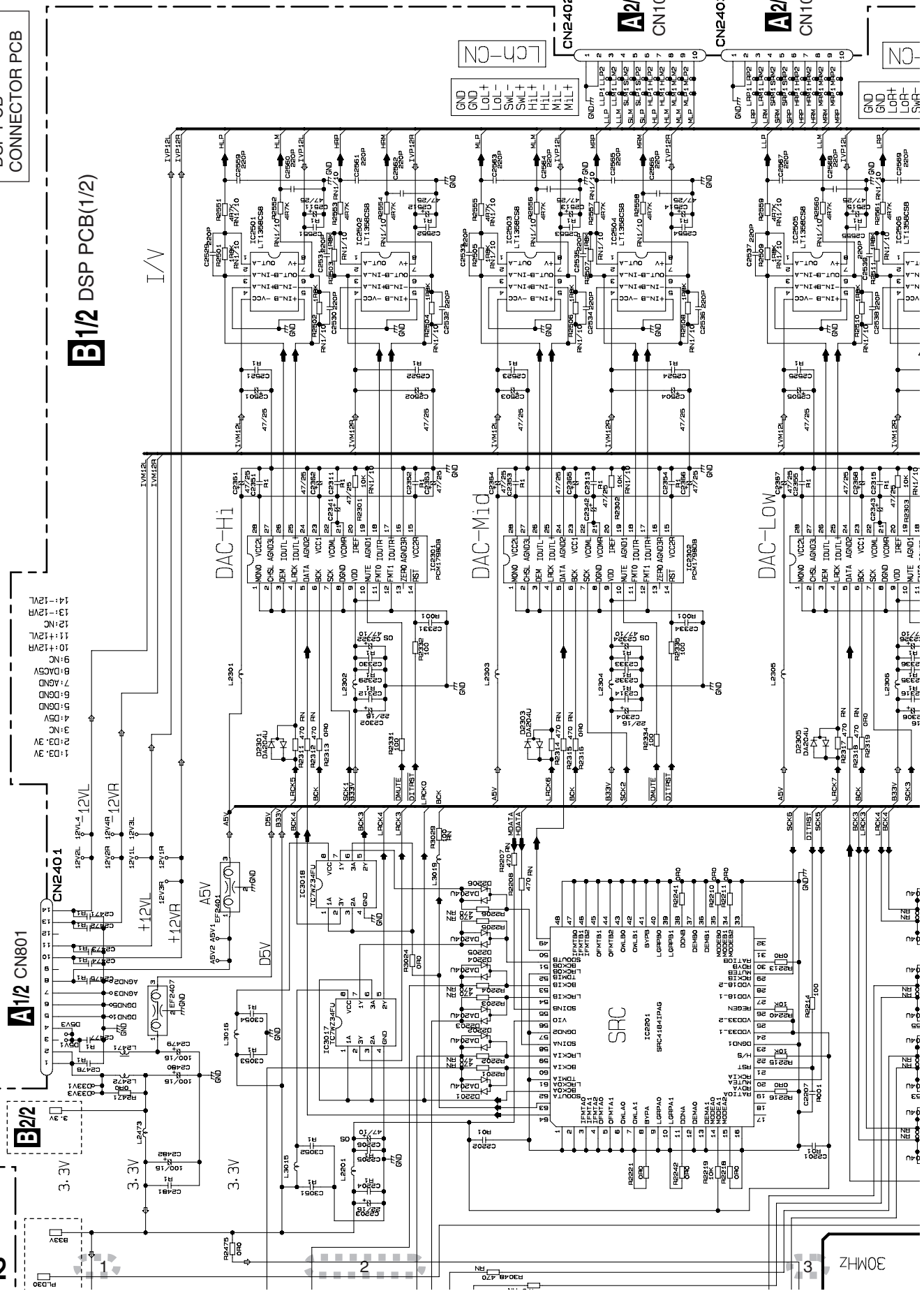
A1/2 CN801

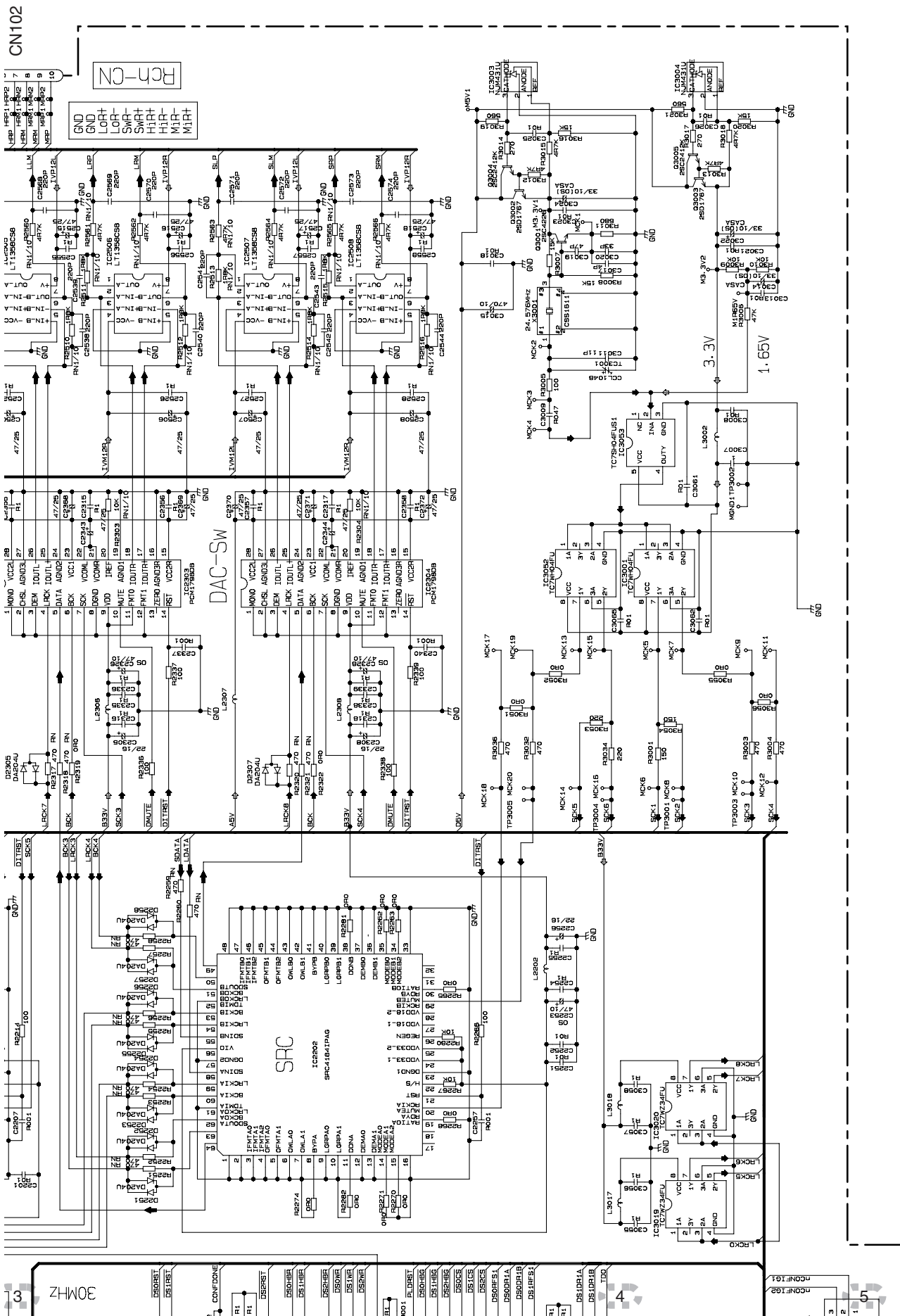
B2/2

B-b 1/2

RS-P90/EW5

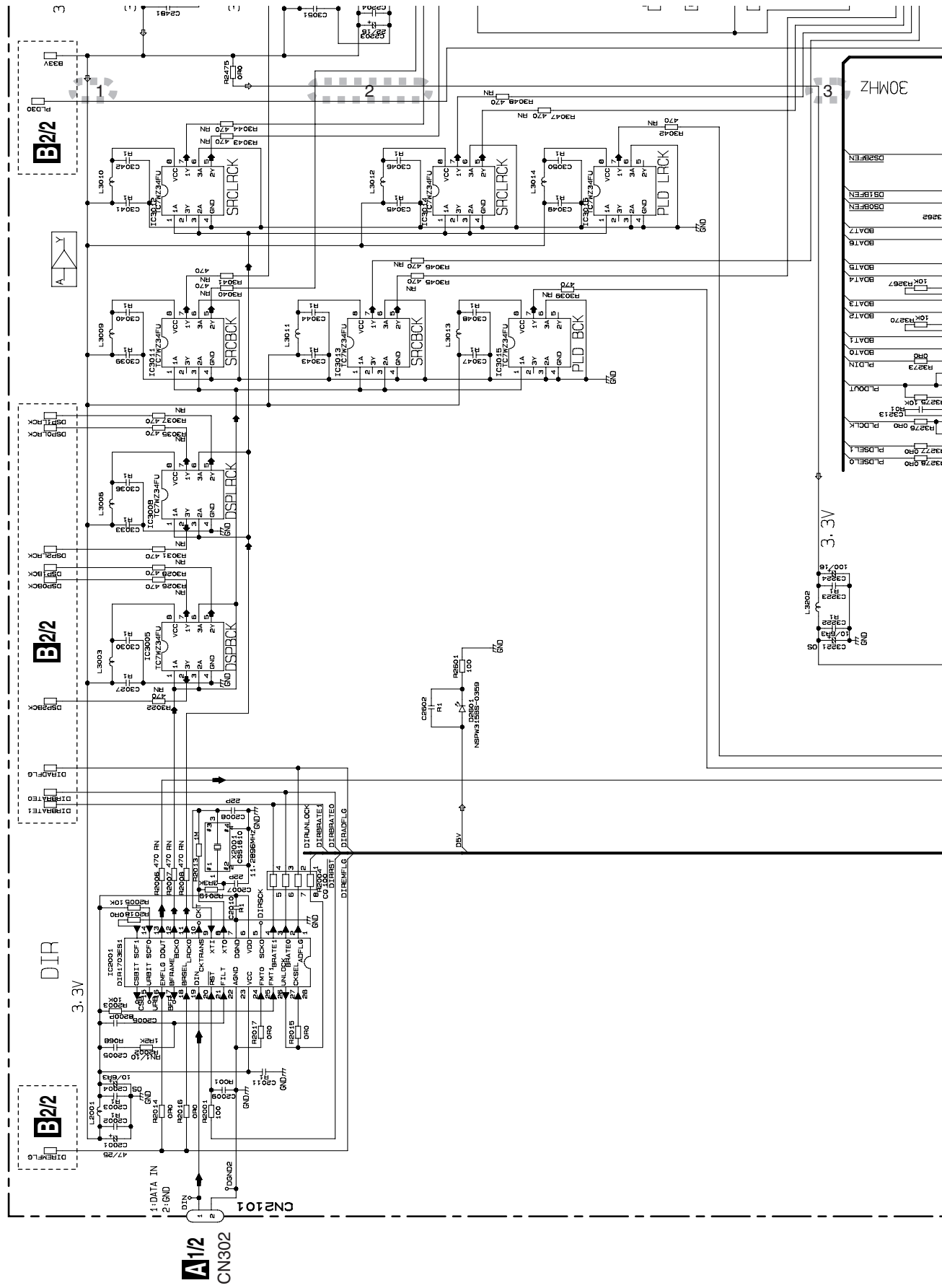
30MM





B-b 1/2

A  
B  
C  
D  
E  
F



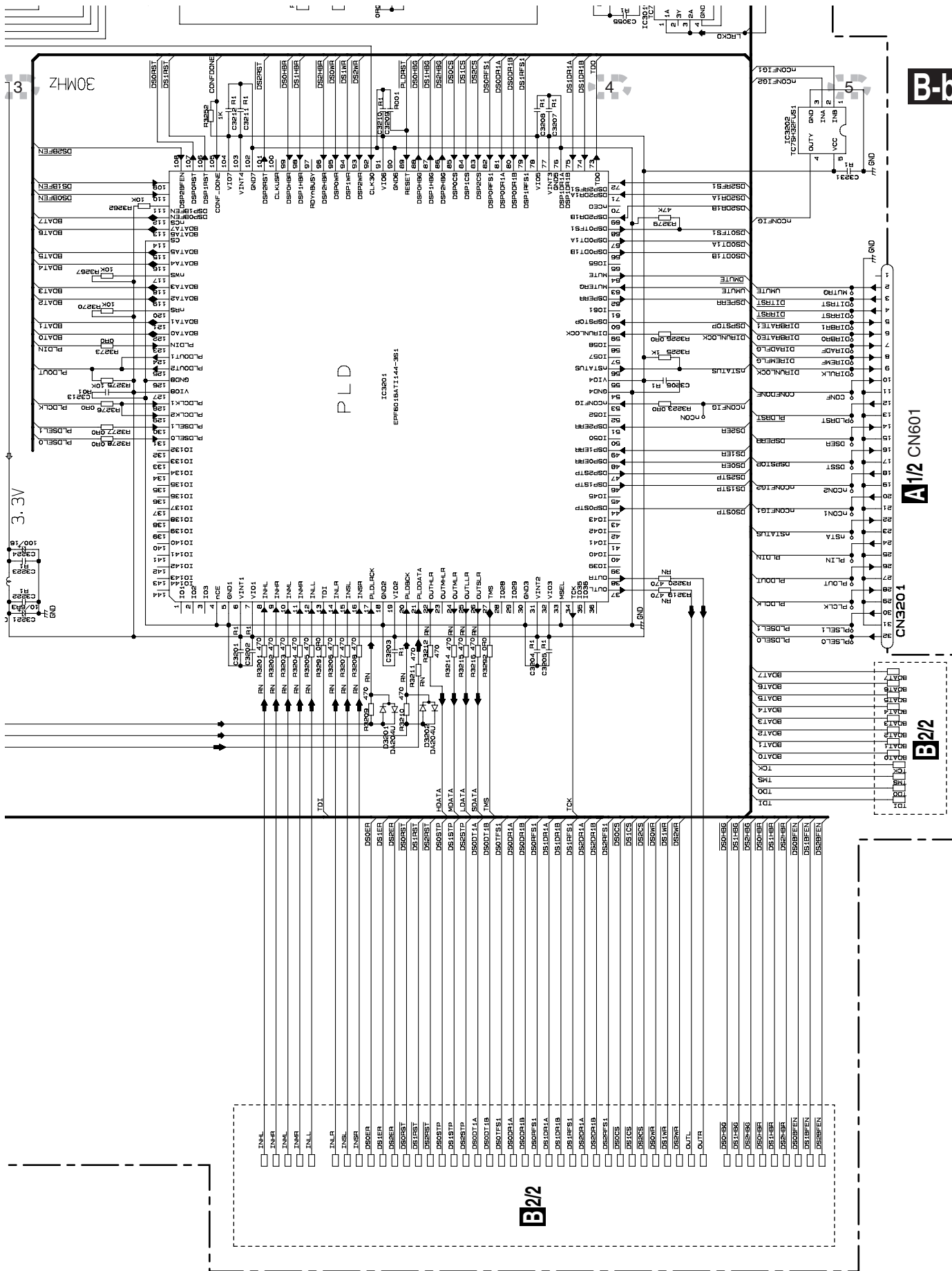
A B C D E F

B-b 1/2

B-a B-b

B-a 1/2

RS-P90/EW5



B-a 1/2

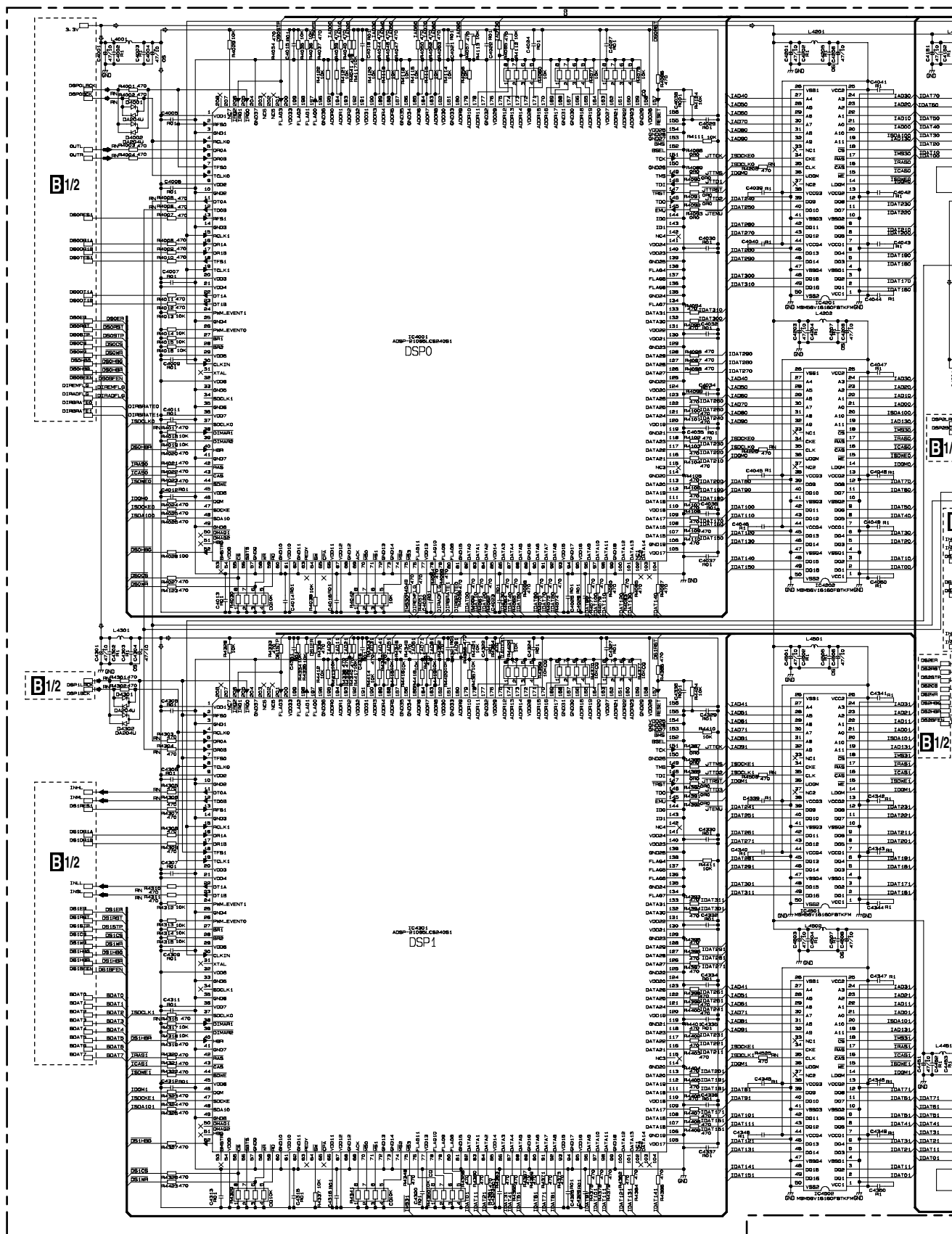
A 1/2 CN601

B 2/2

B-a B-b

RS-P90/EW5

B-a 2/2



B/2/2

## A



C

D

E

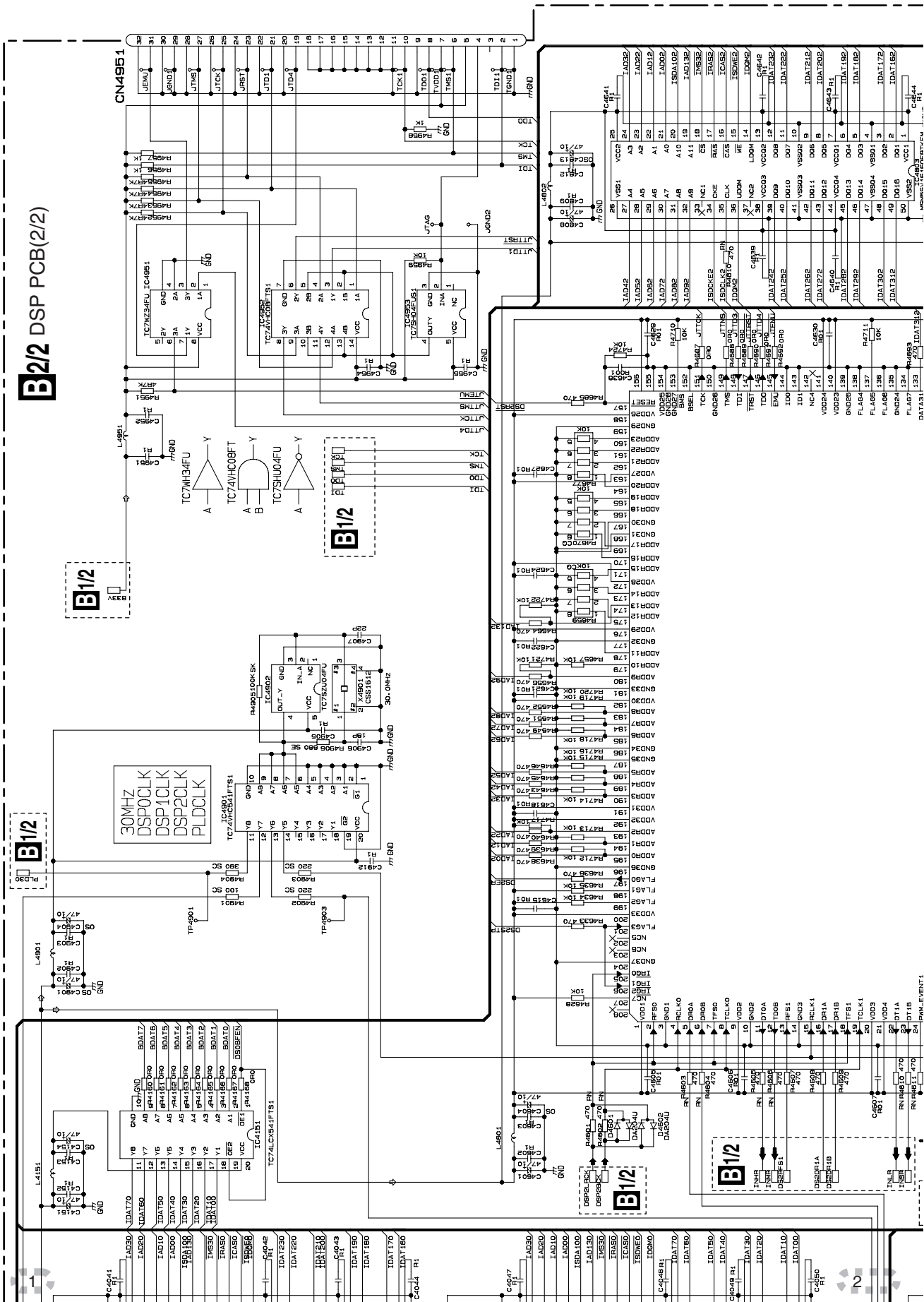
F

**B1**

| B-a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | B-b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. The first part of the document discusses the importance of maintaining accurate records in the healthcare industry. It highlights how proper documentation can lead to better patient care and compliance with regulations.</p> <p>2. The second part of the document focuses on the challenges faced by healthcare providers when it comes to data management. It mentions the need for secure storage and easy access to information.</p> <p>3. The third part of the document explores the role of technology in improving record-keeping. It discusses various software solutions and their benefits for streamlining the process.</p> <p>4. The fourth part of the document addresses the legal aspects of record-keeping. It outlines the requirements for different types of records and the consequences of non-compliance.</p> <p>5. The fifth part of the document provides practical tips for implementing a robust record-keeping system. It includes advice on training staff and conducting regular audits.</p> | <p>1. The first part of the document discusses the importance of maintaining accurate records in the healthcare industry. It highlights how proper documentation can lead to better patient care and compliance with regulations.</p> <p>2. The second part of the document focuses on the challenges faced by healthcare providers when it comes to data management. It mentions the need for secure storage and easy access to information.</p> <p>3. The third part of the document explores the role of technology in improving record-keeping. It discusses various software solutions and their benefits for streamlining the process.</p> <p>4. The fourth part of the document addresses the legal aspects of record-keeping. It outlines the requirements for different types of records and the consequences of non-compliance.</p> <p>5. The fifth part of the document provides practical tips for implementing a robust record-keeping system. It includes advice on training staff and conducting regular audits.</p> |

34

RS-P90/EW5





A  
B  
C  
D  
E  
F

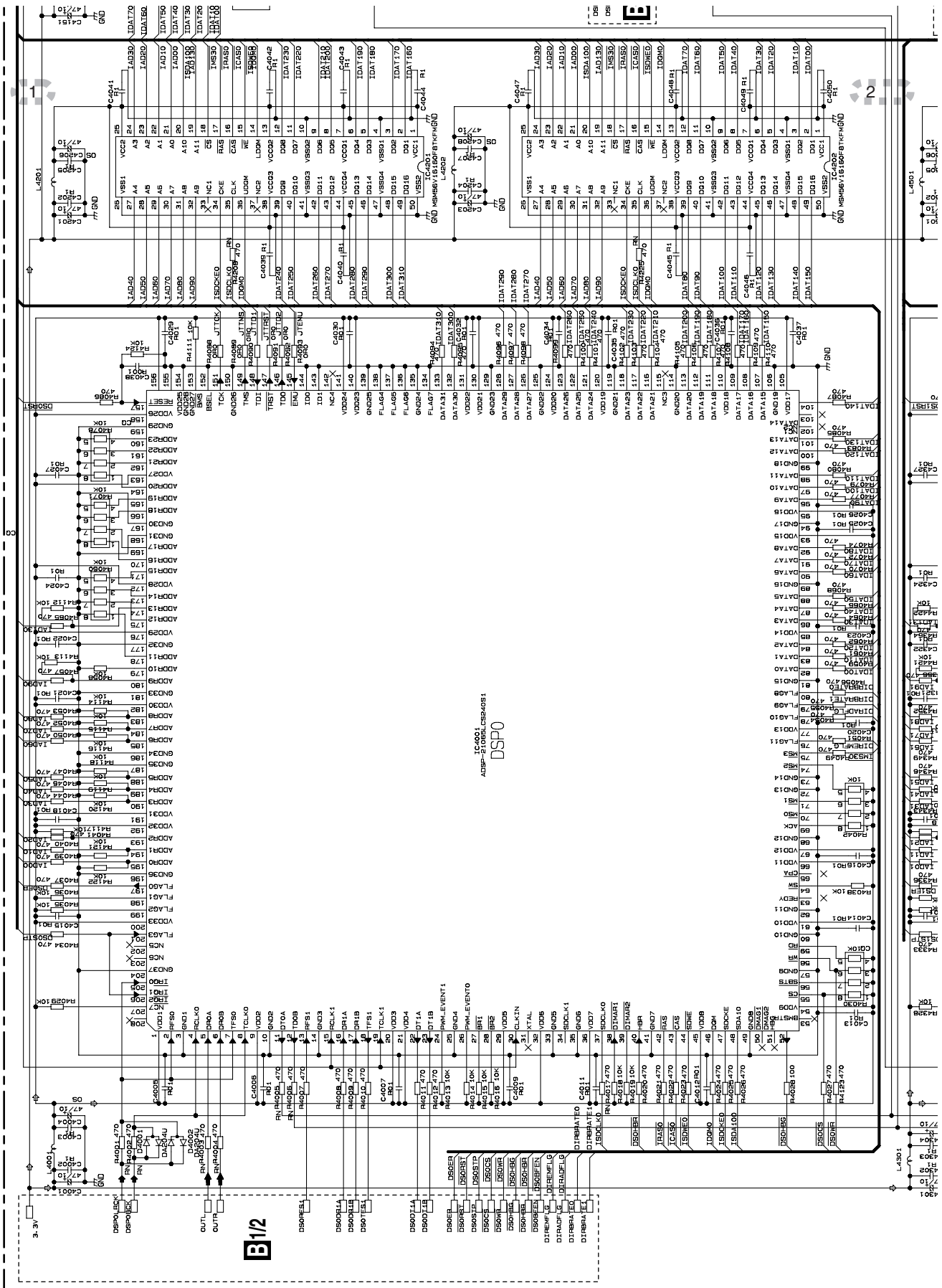
1 2 3 4

B-b 2/2

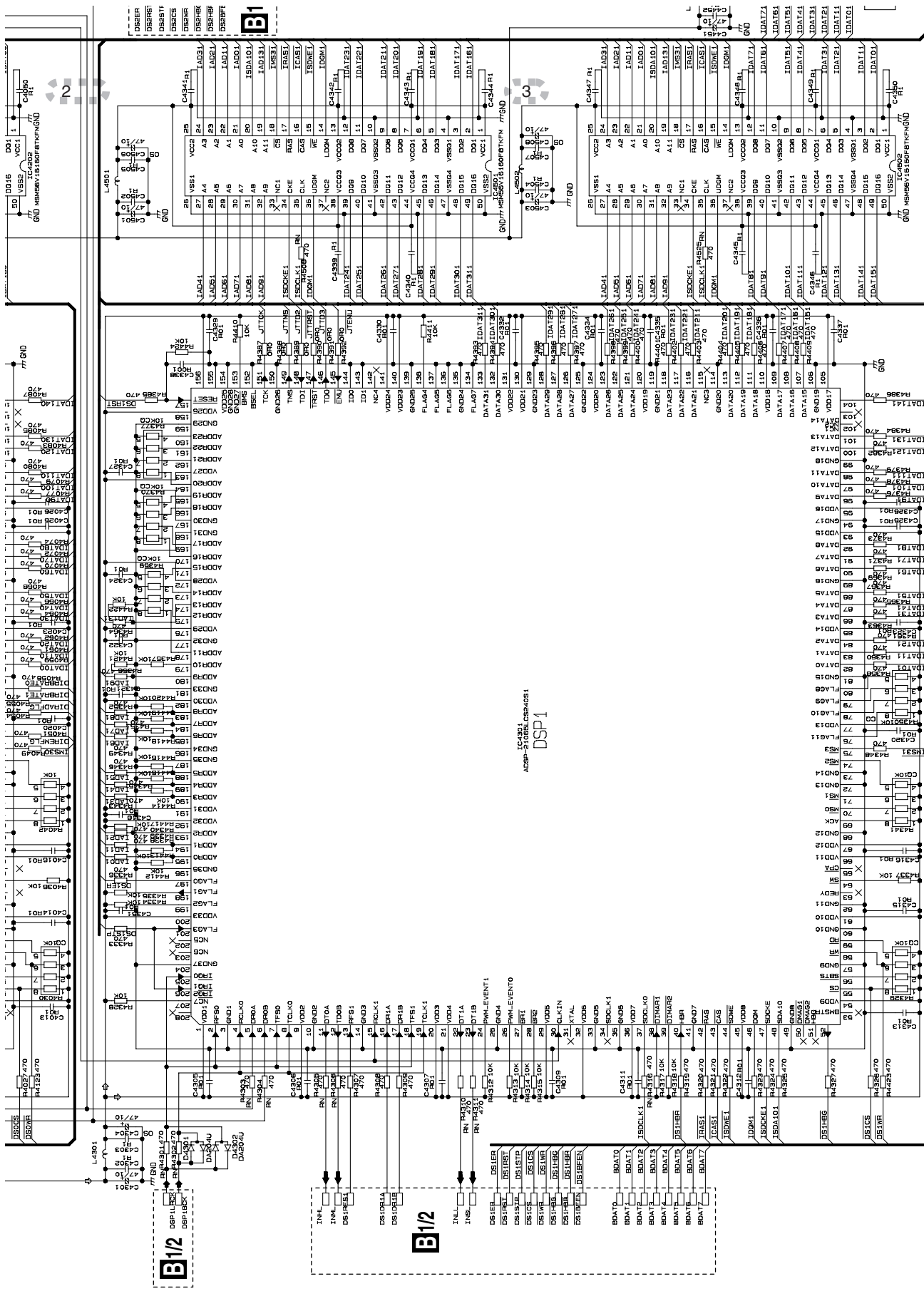
B-a B-b

B-a 2/2

RS-P90/EW5



1 2 3 4



B-a 2/2

B-b 2/2

RS-P90/EW5

Ba Bb

A  
B  
C  
D  
E  
F

5

6

7

8

5

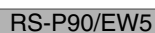
6

7

8

37

## 4



A

# A CONTROL UNIT

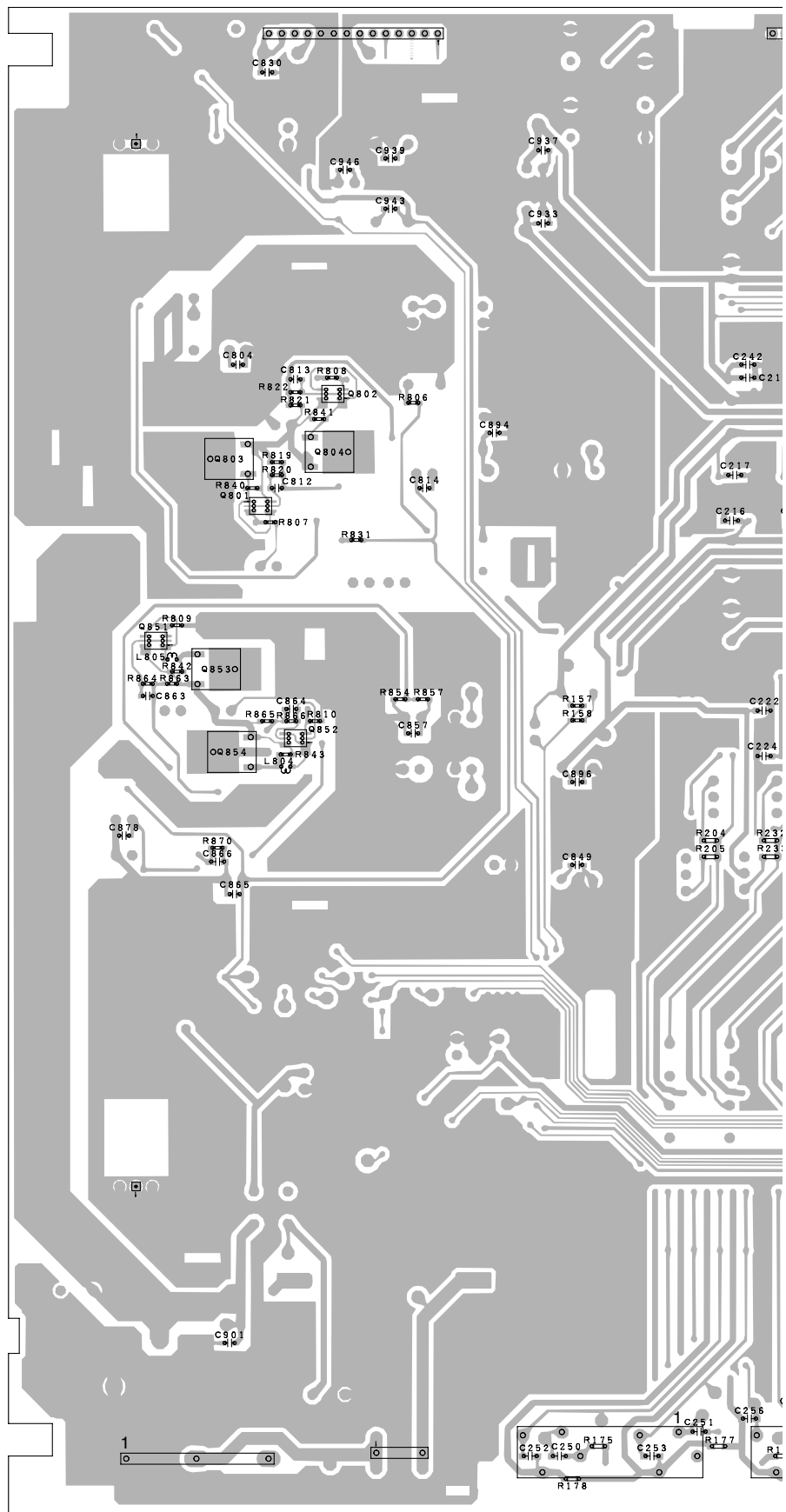
B

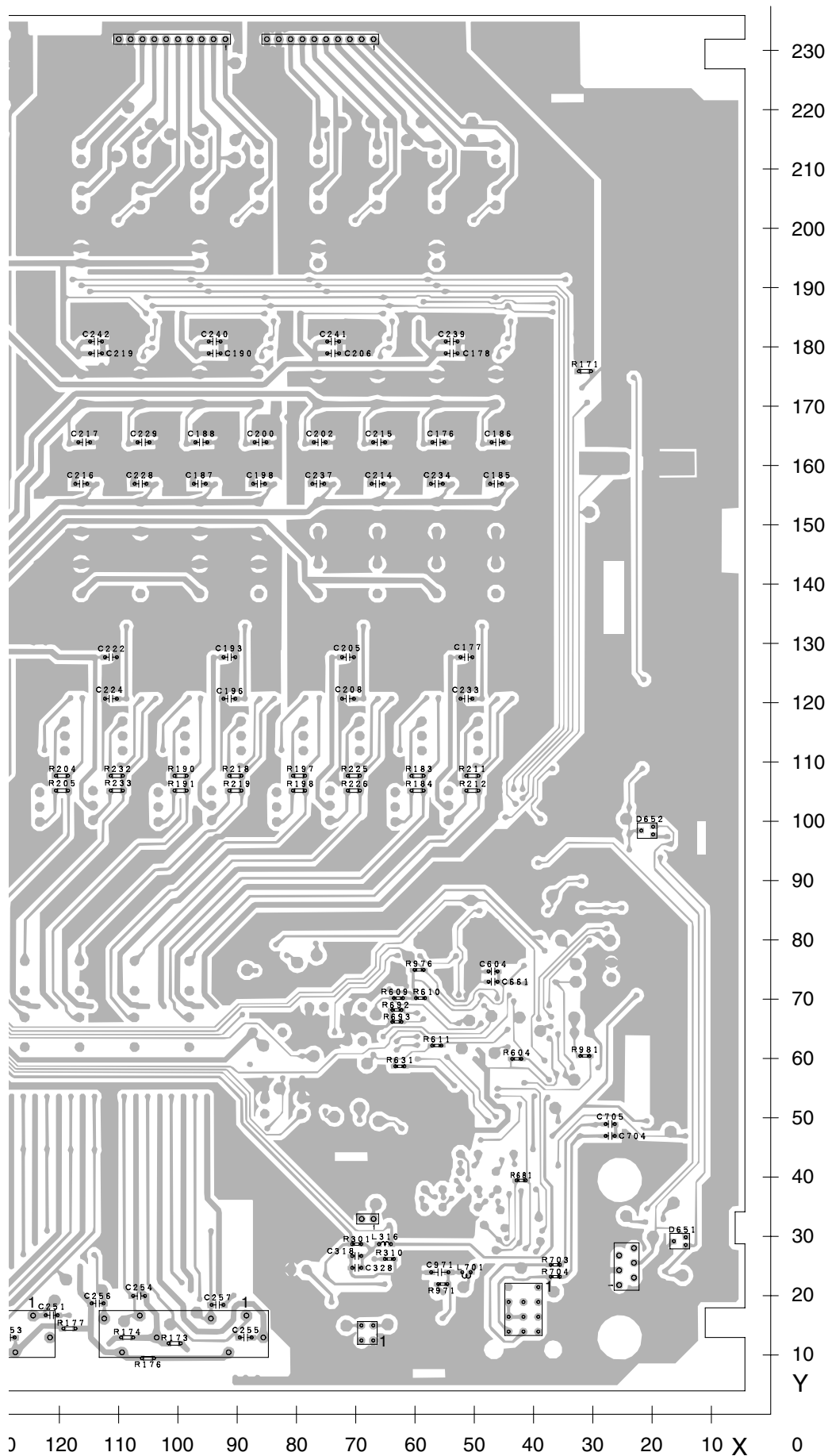
C

D

E

F





SIDE B

A

B

C

D

E

F

A

RS-P90/EW5

## 4.2 DSP PCB

### B DSP PCB

A

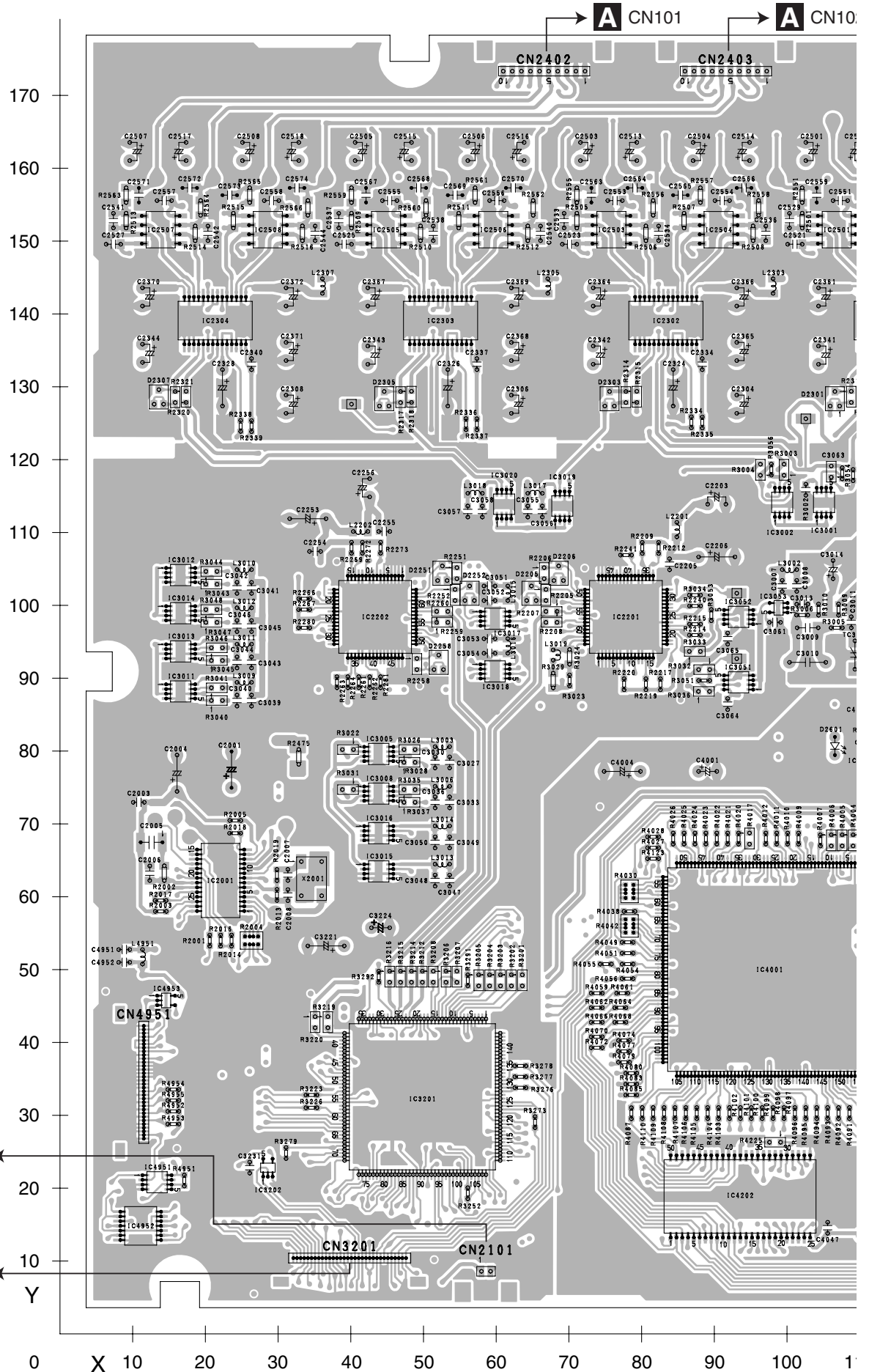
B

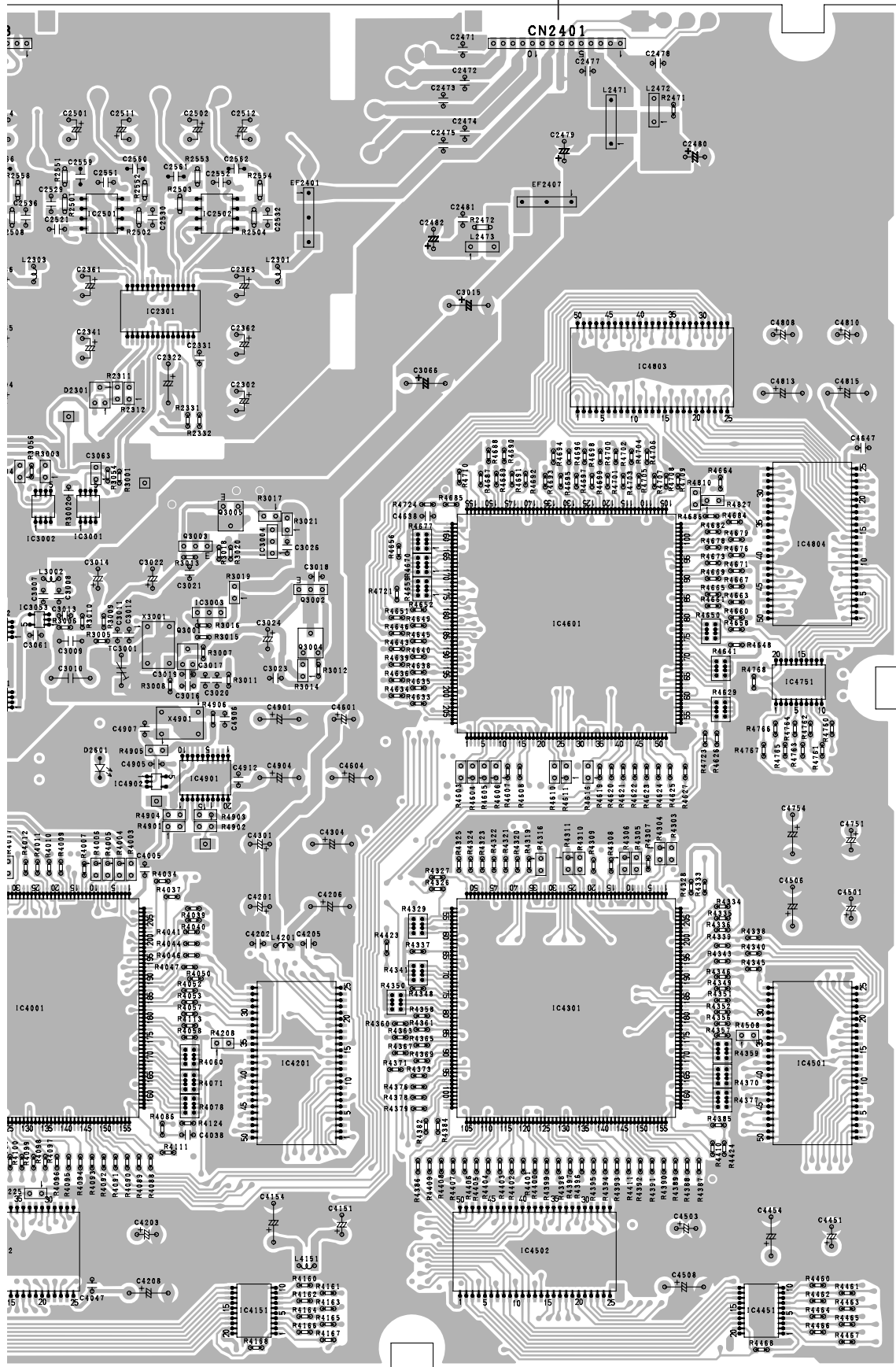
C

D

E

F



→ **A** CN102→ **A** CN801**SIDE A**

100 110 120 130 140 150 160 170 180 190 200

RS-P90/EW5

**B**

# B DSP PCB

A

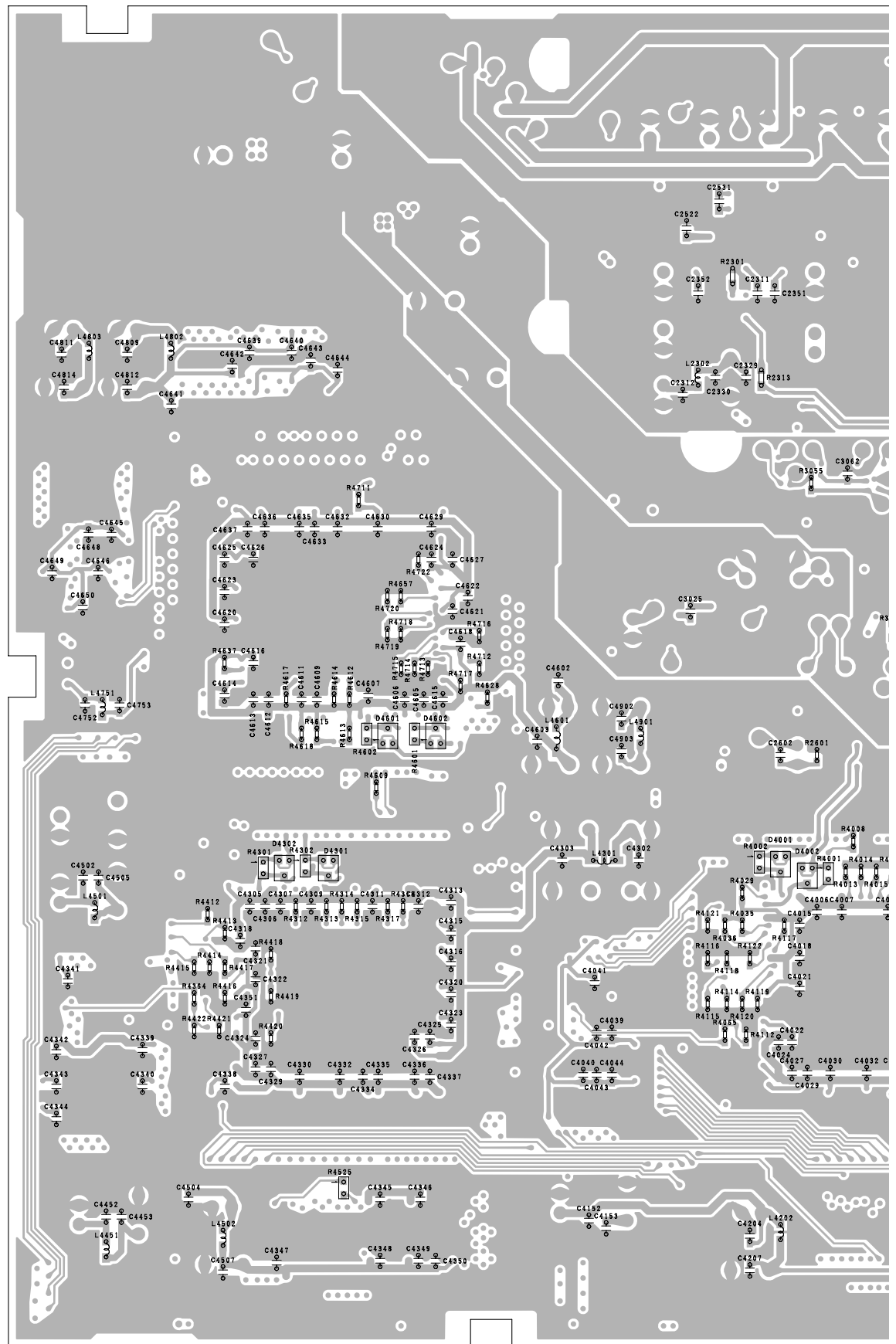
B

C

D

E

F

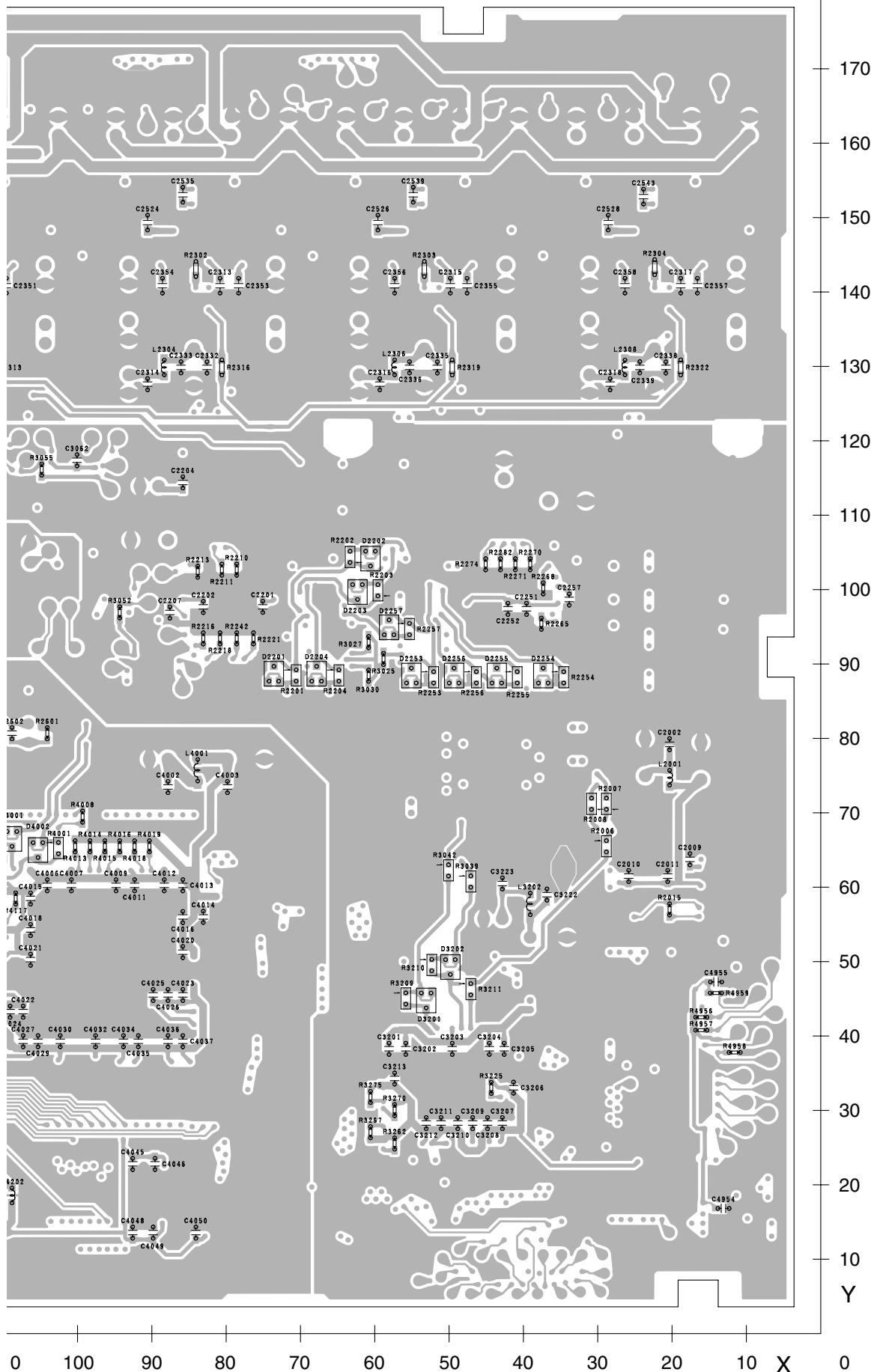


200 190 180 170 160 150 140 130 120 110 100

B

RS-P90/EW5

SIDE B



4.3 CONNECTOR PCB

C CONNECTOR PCB

SIDE A

C CONNECTOR PCB

SIDE B

A

B

C

D

E

F

C

A CN651

C N 5 1 3

C N 5 1 4

S 4 0 1

RESET

# 5. ELECTRICAL PARTS LIST

## NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○○J,RS1/○○S○○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

| Circuit Symbol and No.          |                | Part No.          | Circuit Symbol and No. |                        | Part No.        |
|---------------------------------|----------------|-------------------|------------------------|------------------------|-----------------|
| <b>Unit Number : CWN1434</b>    |                |                   | IC 898                 | (A,154,161) IC         | TA78L12F        |
| <b>Unit Name : Control Unit</b> |                |                   | IC 899                 | (A,141,143) IC         | TA78L12F        |
| <b>Unit Number : CWX3288</b>    |                |                   | IC 921                 | (A,33,75) IC           | S-812C33AMC-C2N |
| <b>Unit Name : DSP Unit</b>     |                |                   | IC 922                 | (A,71,74) IC           | S-812C33AMC-C2N |
|                                 |                |                   | IC 931                 | (A,156,203) IC         | S-812C50AUA-C3E |
|                                 |                |                   | IC 932                 | (A,156,215) IC         | S-812C50AUA-C3E |
|                                 |                |                   | IC 933                 | (A,161,215) IC         | S-812C50AUA-C3E |
|                                 |                |                   | IC 934                 | (A,161,203) IC         | S-812C50AUA-C3E |
|                                 |                |                   | IC 935                 | (A,187,62) IC          | TPD1018F        |
| <b>Unit Number : CWN1434</b>    |                |                   | Q 101                  | (A,100,47) Transistor  | 2SC3326         |
| <b>Unit Name : Control Unit</b> |                |                   | Q 102                  | (A,96,47) Transistor   | 2SC3326         |
|                                 |                |                   | Q 103                  | (A,119,47) Transistor  | 2SC3326         |
|                                 |                |                   | Q 104                  | (A,115,47) Transistor  | 2SC3326         |
| <b>MISCELLANEOUS</b>            |                |                   | Q 105                  | (A,108,47) Transistor  | 2SC3326         |
| IC 101                          | (A,51,183) IC  | AD7564BRS         | Q 106                  | (A,104,47) Transistor  | 2SC3326         |
| IC 102                          | (A,91,183) IC  | AD7564BRS         | Q 107                  | (A,128,47) Transistor  | 2SC3326         |
| IC 103                          | (A,71,183) IC  | AD7564BRS         | Q 108                  | (A,123,47) Transistor  | 2SC3326         |
| IC 104                          | (A,111,183) IC | AD7564BRS         | Q 109                  | (A,59,114) Transistor  | 2SC1845         |
| IC 105                          | (A,56,160) IC  | LT1358CS8         | Q 110                  | (A,63,102) Transistor  | 2SA992          |
| IC 106                          | (A,46,160) IC  | LT1358CS8         | Q 111                  | (A,99,114) Transistor  | 2SC1845         |
| IC 107                          | (A,51,124) IC  | LT1358CS8         | Q 112                  | (A,103,102) Transistor | 2SA992          |
| IC 108                          | (A,96,160) IC  | LT1358CS8         | Q 113                  | (A,79,114) Transistor  | 2SC1845         |
| IC 109                          | (A,86,160) IC  | LT1358CS8         | Q 114                  | (A,83,102) Transistor  | 2SA992          |
| IC 110                          | (A,91,124) IC  | LT1358CS8         | Q 115                  | (A,119,114) Transistor | 2SC1845         |
| IC 111                          | (A,76,160) IC  | LT1358CS8         | Q 116                  | (A,123,102) Transistor | 2SA992          |
| IC 112                          | (A,66,160) IC  | LT1358CS8         | Q 117                  | (A,49,114) Transistor  | 2SC1845         |
| IC 113                          | (A,71,124) IC  | LT1358CS8         | Q 118                  | (A,54,103) Transistor  | 2SA992          |
| IC 114                          | (A,116,160) IC | LT1358CS8         | Q 119                  | (A,89,114) Transistor  | 2SC1845         |
| IC 115                          | (A,106,160) IC | LT1358CS8         | Q 120                  | (A,94,103) Transistor  | 2SA992          |
| IC 116                          | (A,111,124) IC | LT1358CS8         | Q 122                  | (A,69,114) Transistor  | 2SC1845         |
| IC 150                          | (A,31,177) IC  | TC7WH04FU         | Q 123                  | (A,74,103) Transistor  | 2SA992          |
| IC 304                          | (A,69,27) IC   | TC7SH32FUS1       | Q 124                  | (A,109,114) Transistor | 2SC1845         |
| IC 601                          | (A,49,65) IC   | PEG169A           | Q 125                  | (A,114,103) Transistor | 2SA992          |
| IC 651                          | (A,29,98) IC   | CY7C68013A-100AXC | Q 304                  | (A,67,23) Transistor   | 2SC2412K        |
| IC 701                          | (A,33,52) IC   | HA12241FP         | Q 699                  | (A,17,51) Transistor   | DTC144EU        |
| IC 751                          | (A,79,76) IC   | S-80827CNUA-B8M   | Q 700                  | (A,20,68) Transistor   | 2SA1162         |
| IC 752                          | (A,85,77) IC   | TC7SET04FUS1      | Q 801                  | (B,189,159) Transistor | UMZ1N           |
| IC 801                          | (A,171,156) IC | AN8011S           | Q 802                  | (B,178,176) Transistor | UMZ1N           |
| IC 851                          | (A,201,111) IC | AN8011S           | Q 803                  | (B,195,166) Transistor | 2SJ529S         |
| IC 896                          | (A,140,110) IC | TA79L12F          | Q 804                  | (B,177,168) Transistor | 2SJ529S         |
| IC 897                          | (A,135,110) IC | TA79L12F          | Q 810                  | (A,199,230) Transistor | 2SK1485         |

**Circuit Symbol and No.****Part No.****Circuit Symbol and No.****Part No.**

Q 811 (A,183,204) Transistor 2SK1485  
Q 812 (A,193,217) Transistor 2SB1708

L 710 (A,35,47) Inductor LCTC4R7K1608  
L 801 (A,186,161) Inductor CTH1285

A Q 813 (A,188,227) Transistor 2SC2712  
Q 814 (A,189,211) Transistor 2SC2712  
Q 815 (A,188,201) Transistor 2SC2712  
Q 851 (B,205,138) Transistor UMZ1N  
Q 852 (B,183,123) Transistor UMZ1N

L 802 (A,197,173) Inductor CTH1285  
L 803 (A,175,173) Inductor CTH1255  
L 804 (B,185,119) Inductor CTF1379  
L 805 (B,202,136) Inductor CTF1379  
L 811 (A,175,185) Inductor CTH1255

Q 853 (B,194,134) Transistor 2SJ529S  
Q 854 (B,195,121) Transistor 2SJ529S  
Q 911 (A,172,70) Transistor 2SD1760F5  
Q 912 (A,169,62) Transistor DTA124EUA  
Q 931 (A,181,90) Transistor DTC114EK

L 812 (A,162,136) Coil CTH1110  
L 813 (A,162,110) Coil CTH1110  
L 821 (A,147,110) Inductor CTF1473  
L 822 (A,153,145) Inductor CTF1473  
L 851 (A,197,137) Inductor CTH1255

B Q 932 (A,190,89) Transistor 2SA1163  
Q 941 (A,83,47) Transistor 2SC2412K  
Q 971 (A,57,23) Transistor 2SC2412K  
Q 972 (A,162,61) Transistor DTC114EK  
Q 973 (A,176,87) Transistor 2SC2412K

L 901 (A,170,40) Choke Coil 160  $\mu$ H CTH1103  
L 921 (A,32,72) Inductor LCTC4R7K2125  
L 922 (A,65,75) Inductor LCTC4R7K2125  
T 851 (A,180,132) Transformer CTT1111  
T 852 (A,180,114) Transformer CTT1111

Q 974 (A,176,83) Transistor 2SC2412K  
Q 982 (A,84,70) Transistor 2SC2712  
Q 983 (A,68,48) Transistor 2SC2712  
Q 984 (A,162,86) Transistor IMD2A  
D 101 (A,98,42) Diode DAP202U

X 601 (A,47,79) Crystal Resonator 10 MHz CSS1613  
X 651 (A,17,104) Crystal Resonator 24.000 0 MHz CSS1712  
 $\Delta$  FU801 (A,210,230) Fuse 4 A CEK1288  
EF801 (A,171,193) EMI Filter CCG1083  
EF803 (A,194,192) EMI Filter CCG1083

C D 102 (A,117,42) Diode DAP202U  
D 103 (A,106,42) Diode DAP202U  
D 104 (A,125,42) Diode DAP202U  
D 105 (A,59,106) Diode Network DA204U  
D 106 (A,99,106) Diode Network DA204U

EF851 (A,152,110) EMI Filter CCG1083  
EF852 (A,154,141) EMI Filter CCG1083  
EF901 (A,189,38) EMI Filter CCG1109  
 $\Delta$  Fuse 4 A CEK1001

**RESISTORS**

D 107 (A,79,106) Diode Network DA204U  
D 108 (A,119,106) Diode Network DA204U  
D 109 (A,54,109) Diode Network DA204U  
D 110 (A,94,109) Diode Network DA204U  
D 111 (A,74,109) Diode Network DA204U

R 101 (A,59,133) RN1/10SE2701D  
R 102 (A,57,133) RN1/10SE2701D  
R 103 (A,46,133) RN1/10SE2701D  
R 104 (A,44,133) RN1/10SE2701D  
R 105 (A,99,133) RN1/10SE2701D

D 112 (A,114,109) Diode Network DA204U  
D 301 (A,72,23) Diode 1SS352  
D 601 (A,45,27) Diode DAN202U  
D 651 (B,15,29) Diode DAP202U  
D 652 (B,21,98) Diode DAN202U

R 106 (A,97,133) RN1/10SE2701D  
R 107 (A,86,133) RN1/10SE2701D  
R 108 (A,84,133) RN1/10SE2701D  
R 109 (A,79,133) RN1/10SE2701D  
R 110 (A,77,133) RN1/10SE2701D

D 653 (A,19,48) Diode MA111  
D 751 (A,82,74) Diode MA111  
D 777 (A,27,49) Diode UDZS18(B)  
D 778 (A,27,47) Diode UDZS18(B)  
D 801 (A,195,166) Diode RB083L-20

R 111 (A,66,133) RN1/10SE2701D  
R 112 (A,64,133) RN1/10SE2701D  
R 113 (A,119,133) RN1/10SE2701D  
R 114 (A,117,133) RN1/10SE2701D  
R 115 (A,106,133) RN1/10SE2701D

D 802 (A,177,166) Diode RB060L-40  
D 851 (A,168,111) Diode RB160M-60  
D 852 (A,168,135) Diode RB160M-60  
D 901 (A,217,38) Diode ERA15-02VH  
D 902 (A,178,22) Diode ERA15-02VH

R 116 (A,104,133) RN1/10SE2701D  
R 117 (A,101,56) RN1/10SE2200D  
R 118 (A,97,56) RN1/10SE2200D  
R 119 (A,118,56) RN1/10SE2200D  
R 120 (A,114,56) RN1/10SE2200D

D 903 (A,185,51) Diode ERA15-02VH  
D 911 (A,163,76) Diode UDZS5R6(B)  
D 912 (A,190,51) Diode ERA15-02VH  
D 921 (A,85,64) Diode ERA15-02VH  
D 943 (A,74,48) Diode UDZS8R2(B)

R 121 (A,109,56) RN1/10SE2200D  
R 122 (A,105,56) RN1/10SE2200D  
R 123 (A,126,56) RN1/10SE2200D  
R 124 (A,122,56) RN1/10SE2200D  
R 125 (A,101,42) RS1/16S222J

D 944 (A,85,61) Diode DAN202U  
D 972 (A,185,86) Diode UDZS6R8(B)  
D 981 (A,88,70) Diode DAN202U  
D 982 (A,80,59) Diode DAN202U  
F L 310 (A,75,21) Inductor LCTC1R8K2125

R 126 (A,95,42) RS1/16S222J  
R 127 (A,120,43) RS1/16S222J  
R 128 (A,114,42) RS1/16S222J  
R 129 (A,109,42) RS1/16S222J  
R 130 (A,104,42) RS1/16S222J

L 316 (B,65,29) Inductor LCTC120K2125  
L 651 (A,18,81) Inductor LCTC1R8K2125  
L 701 (B,51,24) Inductor CTF1410

R 131 (A,128,43) RS1/16S222J

| 5                             |             |  | 6               |  |  | 7                             |             |  | 8               |  |   |
|-------------------------------|-------------|--|-----------------|--|--|-------------------------------|-------------|--|-----------------|--|---|
| <u>Circuit Symbol and No.</u> |             |  | <u>Part No.</u> |  |  | <u>Circuit Symbol and No.</u> |             |  | <u>Part No.</u> |  |   |
| R 132                         | (A,122,43)  |  | RS1/16S222J     |  |  | R 205                         | (B,120,105) |  | RN1/10SC22R0D   |  |   |
| R 133                         | (A,100,52)  |  | RN1/10SE2202D   |  |  | R 206                         | (A,119,108) |  | RN1/10SE1001D   |  |   |
| R 134                         | (A,96,52)   |  | RN1/10SE2202D   |  |  | R 207                         | (A,50,108)  |  | RN1/10SE4700D   |  | A |
| R 135                         | (A,119,52)  |  | RN1/10SE2202D   |  |  | R 208                         | (A,50,106)  |  | RN1/10SE4700D   |  |   |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 136                         | (A,115,52)  |  | RN1/10SE2202D   |  |  | R 209                         | (A,53,114)  |  | RN1/10SE4701D   |  |   |
| R 137                         | (A,108,52)  |  | RN1/10SE2202D   |  |  | R 210                         | (A,58,103)  |  | RN1/10SE4701D   |  |   |
| R 138                         | (A,104,52)  |  | RN1/10SE2202D   |  |  | R 211                         | (B,50,108)  |  | RN1/10SC22R0D   |  |   |
| R 139                         | (A,127,52)  |  | RN1/10SE2202D   |  |  | R 212                         | (B,50,105)  |  | RN1/10SC22R0D   |  |   |
| R 140                         | (A,123,52)  |  | RN1/10SE2202D   |  |  | R 213                         | (A,54,111)  |  | RN1/10SE1001D   |  |   |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 141                         | (A,59,123)  |  | RN1/10SE5601D   |  |  | R 214                         | (A,90,108)  |  | RN1/10SE4700D   |  |   |
| R 142                         | (A,58,128)  |  | RN1/10SE5601D   |  |  | R 215                         | (A,90,106)  |  | RN1/10SE4700D   |  |   |
| R 143                         | (A,43,125)  |  | RN1/10SE5601D   |  |  | R 216                         | (A,93,114)  |  | RN1/10SE4701D   |  |   |
| R 144                         | (A,48,130)  |  | RN1/10SE5601D   |  |  | R 217                         | (A,98,103)  |  | RN1/10SE4701D   |  |   |
| R 145                         | (A,99,123)  |  | RN1/10SE5601D   |  |  | R 218                         | (B,90,108)  |  | RN1/10SC22R0D   |  | B |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 146                         | (A,98,128)  |  | RN1/10SE5601D   |  |  | R 219                         | (B,90,105)  |  | RN1/10SC22R0D   |  |   |
| R 147                         | (A,84,125)  |  | RN1/10SE5601D   |  |  | R 220                         | (A,94,111)  |  | RN1/10SE1001D   |  |   |
| R 148                         | (A,88,130)  |  | RN1/10SE5601D   |  |  | R 221                         | (A,70,108)  |  | RN1/10SE4700D   |  |   |
| R 149                         | (A,79,123)  |  | RN1/10SE5601D   |  |  | R 222                         | (A,70,106)  |  | RN1/10SE4700D   |  |   |
| R 150                         | (A,78,128)  |  | RN1/10SE5601D   |  |  | R 223                         | (A,73,114)  |  | RN1/10SE4701D   |  |   |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 151                         | (A,64,125)  |  | RN1/10SE5601D   |  |  | R 224                         | (A,78,103)  |  | RN1/10SE4701D   |  |   |
| R 152                         | (A,68,130)  |  | RN1/10SE5601D   |  |  | R 225                         | (B,70,108)  |  | RN1/10SC22R0D   |  |   |
| R 153                         | (A,119,123) |  | RN1/10SE5601D   |  |  | R 226                         | (B,70,105)  |  | RN1/10SC22R0D   |  |   |
| R 154                         | (A,118,128) |  | RN1/10SE5601D   |  |  | R 227                         | (A,74,111)  |  | RN1/10SE1001D   |  |   |
| R 155                         | (A,104,125) |  | RN1/10SE5601D   |  |  | R 228                         | (A,110,108) |  | RN1/10SE4700D   |  |   |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 156                         | (A,108,130) |  | RN1/10SE5601D   |  |  | R 229                         | (A,110,106) |  | RN1/10SE4700D   |  | C |
| R 157                         | (B,140,128) |  | RS1/16S104J     |  |  | R 230                         | (A,113,114) |  | RN1/10SE4701D   |  |   |
| R 158                         | (B,140,126) |  | RS1/16S104J     |  |  | R 231                         | (A,118,103) |  | RN1/10SE4701D   |  |   |
| R 171                         | (B,31,176)  |  | RS1/10S0R0J     |  |  | R 232                         | (B,110,108) |  | RN1/10SC22R0D   |  |   |
| R 173                         | (B,101,12)  |  | RS1/10S0R0J     |  |  | R 233                         | (B,110,105) |  | RN1/10SC22R0D   |  |   |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 174                         | (B,109,13)  |  | RS1/10S0R0J     |  |  | R 234                         | (A,114,111) |  | RN1/10SE1001D   |  |   |
| R 175                         | (B,137,14)  |  | RS1/10S0R0J     |  |  | R 307                         | (A,71,21)   |  | RS1/16S102J     |  |   |
| R 176                         | (B,105,9)   |  | RS1/10S0R0J     |  |  | R 308                         | (A,68,21)   |  | RS1/16S102J     |  |   |
| R 177                         | (B,118,14)  |  | RS1/10S0R0J     |  |  | R 309                         | (A,72,24)   |  | RS1/16S473J     |  |   |
| R 178                         | (B,141,9)   |  | RS1/10S0R0J     |  |  | R 310                         | (B,64,26)   |  | RS1/16S102J     |  |   |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 179                         | (A,63,110)  |  | RN1/10SE4700D   |  |  | R 312                         | (A,67,30)   |  | RS1/16S470J     |  |   |
| R 180                         | (A,63,108)  |  | RN1/10SE4700D   |  |  | R 601                         | (A,37,83)   |  | RS1/16S103J     |  | D |
| R 181                         | (A,55,114)  |  | RN1/10SE4701D   |  |  | R 602                         | (A,73,79)   |  | RS1/16S102J     |  |   |
| R 182                         | (A,60,103)  |  | RN1/10SE4701D   |  |  | R 603                         | (A,44,76)   |  | RS1/16S103J     |  |   |
| R 183                         | (B,60,108)  |  | RN1/10SC22R0D   |  |  | R 605                         | (A,36,72)   |  | RS1/16S472J     |  |   |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 184                         | (B,60,105)  |  | RN1/10SC22R0D   |  |  | R 606                         | (A,36,70)   |  | RS1/16S472J     |  |   |
| R 185                         | (A,59,108)  |  | RN1/10SE1001D   |  |  | R 608                         | (A,39,64)   |  | RS1/16S103J     |  |   |
| R 186                         | (A,103,110) |  | RN1/10SE4700D   |  |  | R 609                         | (B,63,70)   |  | RS1/16S103J     |  |   |
| R 187                         | (A,103,108) |  | RN1/10SE4700D   |  |  | R 610                         | (B,59,70)   |  | RS1/16S103J     |  |   |
| R 188                         | (A,95,114)  |  | RN1/10SE4701D   |  |  | R 611                         | (B,56,62)   |  | RS1/16S103J     |  |   |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 189                         | (A,100,103) |  | RN1/10SE4701D   |  |  | R 613                         | (A,38,62)   |  | RS1/16S103J     |  |   |
| R 190                         | (B,100,108) |  | RN1/10SC22R0D   |  |  | R 614                         | (A,36,62)   |  | RS1/16S103J     |  |   |
| R 191                         | (B,100,105) |  | RN1/10SC22R0D   |  |  | R 616                         | (A,22,34)   |  | RS1/16S101J     |  | E |
| R 192                         | (A,99,108)  |  | RN1/10SE1001D   |  |  | R 631                         | (B,63,59)   |  | RS1/16S104J     |  |   |
| R 193                         | (A,83,110)  |  | RN1/10SE4700D   |  |  | R 640                         | (A,52,54)   |  | RS1/16S104J     |  |   |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 194                         | (A,83,108)  |  | RN1/10SE4700D   |  |  | R 650                         | (A,25,81)   |  | RS1/16S103J     |  |   |
| R 195                         | (A,75,114)  |  | RN1/10SE4701D   |  |  | R 652                         | (A,40,107)  |  | RS1/16S103J     |  |   |
| R 196                         | (A,80,103)  |  | RN1/10SE4701D   |  |  | R 655                         | (A,19,96)   |  | RS1/16S220J     |  |   |
| R 197                         | (B,80,108)  |  | RN1/10SC22R0D   |  |  | R 656                         | (A,31,84)   |  | RS1/16S101J     |  |   |
| R 198                         | (B,80,105)  |  | RN1/10SC22R0D   |  |  | R 657                         | (A,17,94)   |  | RS1/16S220J     |  |   |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 199                         | (A,79,108)  |  | RN1/10SE1001D   |  |  | R 658                         | (A,29,84)   |  | RS1/16S101J     |  |   |
| R 200                         | (A,123,110) |  | RN1/10SE4700D   |  |  | R 659                         | (A,18,90)   |  | RS1/16S222J     |  |   |
| R 201                         | (A,123,108) |  | RN1/10SE4700D   |  |  | R 660                         | (A,18,89)   |  | RS1/16S222J     |  |   |
| R 202                         | (A,115,114) |  | RN1/10SE4701D   |  |  | R 661                         | (A,26,84)   |  | RS1/16S101J     |  | F |
| R 203                         | (A,120,103) |  | RN1/10SE4701D   |  |  | R 662                         | (A,34,112)  |  | RS1/16S103J     |  |   |
|                               |             |  |                 |  |  |                               |             |  |                 |  |   |
| R 204                         | (B,120,108) |  | RN1/10SC22R0D   |  |  | R 663                         | (A,18,92)   |  | RS1/16S103J     |  |   |

**Circuit Symbol and No.****Part No.****Circuit Symbol and No.****Part No.**

|   |       |             |               |                   |                        |              |
|---|-------|-------------|---------------|-------------------|------------------------|--------------|
| A | R 664 | (A,56,39)   | RAB4C101J     | R 857             | (B,164,129)            | RS1/16S3002D |
|   | R 666 | (A,52,47)   | RAB4C101J     | R 863             | (B,202,132)            | RS1/16S472J  |
|   | R 669 | (A,48,39)   | RAB4C101J     | R 864             | (B,206,132)            | RS1/16S472J  |
|   | R 670 | (A,44,47)   | RAB4C101J     | R 865             | (B,188,126)            | RS1/16S472J  |
| B | R 671 | (A,40,40)   | RS1/16S101J   | R 866             | (B,184,126)            | RS1/16S472J  |
|   | R 672 | (A,39,29)   | RS1/16S101J   | R 867             | (A,194,107)            | RS1/16S101J  |
|   | R 681 | (B,42,39)   | RS1/16S101J   | R 868             | (A,197,118)            | RS1/16S3002D |
|   | R 689 | (A,40,98)   | RS1/16S103J   | R 869             | (A,197,116)            | RS1/16S101J  |
|   | R 690 | (A,40,96)   | RS1/16S103J   | R 870             | (B,195,107)            | RS1/16S3002D |
|   | R 691 | (A,40,94)   | RS1/16S103J   | R 871             | (A,201,116)            | RS1/16S224J  |
|   | R 692 | (B,63,68)   | RS1/16S102J   | R 872             | (A,201,106)            | RS1/16S224J  |
|   | R 693 | (B,63,66)   | RS1/16S102J   | R 873             | (A,206,117)            | RS1/16S1802D |
|   | R 699 | (A,18,64)   | RS1/16S222J   | R 874             | (A,201,103)            | RS1/16S1502D |
|   | R 700 | (A,20,65)   | RS1/16S472J   | R 875             | (A,203,117)            | RS1/16S103J  |
| C | R 703 | (B,36,25)   | RS1/16S101J   | R 876             | (A,200,102)            | RS1/16S6801D |
|   | R 704 | (B,36,23)   | RS1/16S101J   | R 877             | (A,199,233) 1.5 Ω      | CCN1150      |
|   | R 705 | (A,37,50)   | RS1/16S102J   | R 911             | (A,169,75)             | RS1/16S223J  |
|   | R 752 | (A,75,77)   | RS1/16S104J   | R 912             | (A,172,61)             | RS1/10S102J  |
|   | R 801 | (A,162,157) | RS1/16S3901D  | R 913             | (A,176,61)             | RS1/10S102J  |
|   | R 802 | (A,179,153) | RS1/16S1002D  | R 932             | (A,187,89)             | RS1/16S473J  |
| D | R 804 | (A,179,156) | RS1/16S3302D  | R 933             | (A,185,90)             | RS1/16S103J  |
|   | R 806 | (B,165,175) | RS1/16S2702D  | R 934             | (A,190,68)             | RS1/16S102J  |
|   | R 807 | (B,187,157) | RS1/16S471J   | R 941             | (A,83,58)              | RS1/16S473J  |
|   | R 808 | (B,178,179) | RS1/16S471J   | R 942             | (A,73,50)              | RS1/16S103J  |
|   | R 809 | (B,202,141) | RS1/16S152J   | R 943             | (A,73,52)              | RS1/16S473J  |
|   | R 810 | (B,180,126) | RS1/16S152J   | R 944             | (A,88,61)              | RS1/16S683J  |
|   | R 813 | (A,207,193) | RS1/16S2001D  | R 971             | (B,55,22)              | RS1/16S683J  |
|   | R 814 | (A,193,201) | RN1/16SE2702D | R 972             | (A,57,20)              | RS1/16S683J  |
|   | R 815 | (A,191,201) | RN1/16SE1002D | R 974             | (A,64,68)              | RS1/16S333J  |
|   | R 816 | (A,194,227) | RN1/16SE1002D | R 975             | (A,89,61)              | RS1/16S104J  |
| E | R 817 | (A,191,227) | RN1/16SE1002D | R 976             | (B,59,75)              | RS1/16S333J  |
|   | R 818 | (A,189,208) | RN1/16SE1001D | R 977             | (A,179,83)             | RS1/16S473J  |
|   | R 819 | (B,186,166) | RS1/16S472J   | R 978             | (A,180,86)             | RS1/16S104J  |
|   | R 820 | (B,186,164) | RS1/16S472J   | R 979             | (A,181,82)             | RS1/16S473J  |
|   | R 821 | (B,183,175) | RS1/16S223J   | R 980             | (A,182,86)             | RS1/16S473J  |
|   | R 822 | (B,183,177) | RS1/16S223J   | R 981             | (B,31,60)              | RS1/16S333J  |
|   | R 823 | (A,170,164) | RS1/16S101J   | R 984             | (A,88,73)              | RS1/16S103J  |
|   | R 824 | (A,178,158) | RS1/16S2002D  | R 985             | (A,64,48)              | RS1/16S103J  |
|   | R 825 | (A,176,160) | RS1/16S101J   | R 986             | (A,65,48)              | RS1/16S473J  |
|   | R 826 | (A,164,158) | RS1/16S2202D  | R 987             | (A,165,87)             | RS1/16S102J  |
| F | R 827 | (A,176,156) | RS1/16S224J   | R 989             | (A,73,53)              | RS1/16S473J  |
|   | R 828 | (A,166,156) | RS1/16S224J   | R 991             | (A,78,64)              | RS1/10S101J  |
|   | R 829 | (A,177,152) | RS1/16S1802D  | <b>CAPACITORS</b> |                        |              |
|   | R 830 | (A,166,153) | RS1/16S1502D  |                   |                        |              |
|   | R 831 | (B,174,154) | RS1/16S103J   | C 101             | (A,56,213) 10 μF/50 V  | CCH1543      |
|   | R 832 | (A,164,154) | RS1/16S6801D  | C 102             | (A,56,205) 10 μF/50 V  | CCH1543      |
|   | R 840 | (B,190,162) | RS1/16S473J   | C 103             | (A,46,213) 10 μF/50 V  | CCH1543      |
|   | R 841 | (B,180,173) | RS1/16S473J   | C 104             | (A,46,205) 10 μF/50 V  | CCH1543      |
|   | R 842 | (B,202,134) | RS1/16S473J   | C 105             | (A,96,213) 10 μF/50 V  | CCH1543      |
|   | R 843 | (B,185,121) | RS1/16S473J   | C 106             | (A,96,205) 10 μF/50 V  | CCH1543      |
| G | R 844 | (A,197,226) | RS1/16S104J   | C 107             | (A,86,213) 10 μF/50 V  | CCH1543      |
|   | R 845 | (A,178,202) | RS1/16S104J   | C 108             | (A,86,205) 10 μF/50 V  | CCH1543      |
|   | R 846 | (A,193,214) | RS1/16S103J   | C 109             | (A,76,213) 10 μF/50 V  | CCH1543      |
|   | R 847 | (A,190,214) | RS1/16S101J   | C 110             | (A,76,205) 10 μF/50 V  | CCH1543      |
|   | R 848 | (A,192,204) | RS1/8S101J    | C 111             | (A,66,213) 10 μF/50 V  | CCH1543      |
|   | R 849 | (A,193,206) | RN1/16SE2201D | C 112             | (A,66,205) 10 μF/50 V  | CCH1543      |
|   | R 851 | (A,203,102) | RS1/16S4301D  | C 113             | (A,116,213) 10 μF/50 V | CCH1543      |
|   | R 853 | (A,168,107) | RS1/16S4302D  | C 114             | (A,116,205) 10 μF/50 V | CCH1543      |
|   | R 854 | (B,167,129) | RS1/16S1501D  | C 115             | (A,106,213) 10 μF/50 V | CCH1543      |
|   | R 855 | (A,206,102) | RS1/16S2400D  |                   |                        |              |

| 5                             |             |                  | 6               |  |  | 7                             |             |                  | 8               |  |   |
|-------------------------------|-------------|------------------|-----------------|--|--|-------------------------------|-------------|------------------|-----------------|--|---|
| <b>Circuit Symbol and No.</b> |             |                  | <b>Part No.</b> |  |  | <b>Circuit Symbol and No.</b> |             |                  | <b>Part No.</b> |  |   |
| C 116                         | (A,106,205) | 10 $\mu$ F/50 V  | CCH1543         |  |  | C 200                         | (B,86,164)  |                  | CKSQYB104K50    |  |   |
| C 133                         | (A,56,151)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 201                         | (A,81,165)  |                  | CCSQCH220J50    |  |   |
| C 134                         | (A,56,173)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 202                         | (B,76,164)  |                  | CKSQYB104K50    |  |   |
| C 135                         | (A,56,141)  | 100 $\mu$ F/16 V | CCH1702         |  |  | C 203                         | (A,76,165)  |                  | CCSQCH220J50    |  | A |
| C 136                         | (A,46,141)  | 100 $\mu$ F/16 V | CCH1702         |  |  | C 204                         | (A,76,141)  | 100 $\mu$ F/16 V | CCH1702         |  |   |
|                               |             |                  |                 |  |  |                               |             |                  |                 |  |   |
| C 137                         | (A,46,151)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 205                         | (B,71,128)  |                  | CKSQYB104K50    |  |   |
| C 138                         | (A,46,173)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 206                         | (B,74,179)  |                  | CKSQYB104K50    |  |   |
| C 139                         | (A,96,151)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 207                         | (A,77,123)  |                  | CCSQCH470J50    |  |   |
| C 140                         | (A,96,173)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 208                         | (B,71,121)  |                  | CKSQYB104K50    |  |   |
| C 141                         | (A,96,141)  | 100 $\mu$ F/16 V | CCH1702         |  |  | C 209                         | (A,78,126)  |                  | CCSQCH470J50    |  |   |
|                               |             |                  |                 |  |  |                               |             |                  |                 |  |   |
| C 142                         | (A,86,141)  | 100 $\mu$ F/16 V | CCH1702         |  |  | C 210                         | (A,66,125)  |                  | CCSQCH470J50    |  |   |
| C 143                         | (A,86,151)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 211                         | (A,68,128)  |                  | CCSQCH470J50    |  |   |
| C 144                         | (A,86,173)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 212                         | (A,71,165)  |                  | CCSQCH220J50    |  |   |
| C 145                         | (A,76,151)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 213                         | (A,66,165)  |                  | CCSQCH220J50    |  |   |
| C 146                         | (A,76,173)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 214                         | (B,66,157)  |                  | CKSQYB104K50    |  | B |
|                               |             |                  |                 |  |  |                               |             |                  |                 |  |   |
| C 147                         | (A,76,195)  |                  | CEAT331M10      |  |  | C 215                         | (B,66,164)  |                  | CKSQYB104K50    |  |   |
| C 148                         | (A,66,141)  | 100 $\mu$ F/16 V | CCH1702         |  |  | C 216                         | (B,116,157) |                  | CKSQYB104K50    |  |   |
| C 149                         | (A,66,151)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 217                         | (B,116,164) |                  | CKSQYB104K50    |  |   |
| C 150                         | (A,66,173)  | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 218                         | (A,116,165) |                  | CCSQCH220J50    |  |   |
| C 151                         | (A,116,151) | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 219                         | (B,114,179) |                  | CKSQYB104K50    |  |   |
|                               |             |                  |                 |  |  |                               |             |                  |                 |  |   |
| C 152                         | (A,116,173) | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 220                         | (A,117,123) |                  | CCSQCH470J50    |  |   |
| C 153                         | (A,116,195) |                  | CEAT331M10      |  |  | C 221                         | (A,118,126) |                  | CCSQCH470J50    |  |   |
| C 154                         | (A,116,141) | 100 $\mu$ F/16 V | CCH1702         |  |  | C 222                         | (B,111,128) |                  | CKSQYB104K50    |  |   |
| C 155                         | (A,106,141) | 100 $\mu$ F/16 V | CCH1702         |  |  | C 223                         | (A,106,125) |                  | CCSQCH470J50    |  |   |
| C 156                         | (A,106,151) | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 224                         | (B,111,121) |                  | CKSQYB104K50    |  | C |
|                               |             |                  |                 |  |  |                               |             |                  |                 |  |   |
| C 157                         | (A,106,173) | 47 $\mu$ F/25 V  | CCH1538         |  |  | C 225                         | (A,108,128) |                  | CCSQCH470J50    |  |   |
| C 158                         | (A,98,64)   | 47 $\mu$ F/25 V  | CCH1643         |  |  | C 226                         | (A,111,165) |                  | CCSQCH220J50    |  |   |
| C 159                         | (A,98,74)   | 47 $\mu$ F/25 V  | CCH1643         |  |  | C 227                         | (A,106,165) |                  | CCSQCH220J50    |  |   |
| C 160                         | (A,117,64)  | 47 $\mu$ F/25 V  | CCH1643         |  |  | C 228                         | (B,106,157) |                  | CKSQYB104K50    |  |   |
| C 161                         | (A,117,74)  | 47 $\mu$ F/25 V  | CCH1643         |  |  | C 229                         | (B,106,164) |                  | CKSQYB104K50    |  |   |
|                               |             |                  |                 |  |  |                               |             |                  |                 |  |   |
| C 162                         | (A,107,64)  | 47 $\mu$ F/25 V  | CCH1643         |  |  | C 230                         | (A,27,178)  |                  | CKSRYB104K16    |  |   |
| C 163                         | (A,107,74)  | 47 $\mu$ F/25 V  | CCH1643         |  |  | C 231                         | (A,165,83)  |                  | CKSRYB472K50    |  |   |
| C 164                         | (A,126,64)  | 47 $\mu$ F/25 V  | CCH1643         |  |  | C 232                         | (A,98,126)  |                  | CCSQCH470J50    |  |   |
| C 165                         | (A,126,74)  | 47 $\mu$ F/25 V  | CCH1643         |  |  | C 233                         | (B,51,121)  |                  | CKSQYB104K50    |  |   |
| C 174                         | (A,61,165)  |                  | CCSQCH220J50    |  |  | C 234                         | (B,56,157)  |                  | CKSQYB104K50    |  |   |
|                               |             |                  |                 |  |  |                               |             |                  |                 |  |   |
| C 175                         | (A,56,165)  |                  | CCSQCH220J50    |  |  | C 235                         | (A,121,165) |                  | CCSQCH220J50    |  | D |
| C 176                         | (B,56,164)  |                  | CKSQYB104K50    |  |  | C 236                         | (A,101,165) |                  | CCSQCH220J50    |  |   |
| C 177                         | (B,51,128)  |                  | CKSQYB104K50    |  |  | C 237                         | (B,76,157)  |                  | CKSQYB104K50    |  |   |
| C 178                         | (B,54,179)  |                  | CKSQYB104K50    |  |  | C 238                         | (A,56,195)  |                  | CEAT331M10      |  |   |
| C 179                         | (A,57,123)  |                  | CCSQCH470J50    |  |  | C 239                         | (B,54,181)  |                  | CCSQCH102J50    |  |   |
|                               |             |                  |                 |  |  |                               |             |                  |                 |  |   |
| C 180                         | (A,58,126)  |                  | CCSQCH470J50    |  |  | C 240                         | (B,94,181)  |                  | CCSQCH102J50    |  |   |
| C 181                         | (A,45,125)  |                  | CCSQCH470J50    |  |  | C 241                         | (B,74,181)  |                  | CCSQCH102J50    |  |   |
| C 182                         | (A,48,128)  |                  | CCSQCH470J50    |  |  | C 242                         | (B,114,181) |                  | CCSQCH102J50    |  |   |
| C 183                         | (A,51,165)  |                  | CCSQCH220J50    |  |  | C 249                         | (A,147,124) |                  | CEJQ4R7M35      |  |   |
| C 184                         | (A,46,165)  |                  | CCSQCH220J50    |  |  | C 250                         | (B,143,13)  |                  | CCSQCH102J50    |  |   |
|                               |             |                  |                 |  |  |                               |             |                  |                 |  |   |
| C 185                         | (B,46,157)  |                  | CKSQYB104K50    |  |  | C 251                         | (B,121,17)  |                  | CCSQCH102J50    |  | E |
| C 186                         | (B,46,164)  |                  | CKSQYB104K50    |  |  | C 252                         | (B,147,13)  |                  | CCSQCH102J50    |  |   |
| C 187                         | (B,96,157)  |                  | CKSQYB104K50    |  |  | C 253                         | (B,129,13)  |                  | CCSQCH102J50    |  |   |
| C 188                         | (B,96,164)  |                  | CKSQYB104K50    |  |  | C 254                         | (B,107,20)  |                  | CCSQCH102J50    |  |   |
| C 189                         | (A,96,165)  |                  | CCSQCH220J50    |  |  | C 255                         | (B,89,13)   |                  | CCSQCH102J50    |  |   |
|                               |             |                  |                 |  |  |                               |             |                  |                 |  |   |
| C 190                         | (B,94,179)  |                  | CKSQYB104K50    |  |  | C 256                         | (B,114,19)  |                  | CCSQCH102J50    |  |   |
| C 191                         | (A,96,195)  |                  | CEAT331M10      |  |  | C 257                         | (B,93,18)   |                  | CCSQCH102J50    |  |   |
| C 192                         | (A,97,123)  |                  | CCSQCH470J50    |  |  | C 264                         | (A,149,21)  |                  | CCSQCH390J50    |  |   |
| C 193                         | (B,91,128)  |                  | CKSQYB104K50    |  |  | C 265                         | (A,159,21)  |                  | CCSQCH390J50    |  |   |
| C 194                         | (A,88,128)  |                  | CCSQCH470J50    |  |  | C 271                         | (A,80,93)   |                  | CCSQCH390J50    |  |   |
|                               |             |                  |                 |  |  |                               |             |                  |                 |  |   |
| C 195                         | (A,86,125)  |                  | CCSQCH470J50    |  |  | C 272                         | (A,82,93)   |                  | CCSQCH101J50    |  |   |
| C 196                         | (B,91,121)  |                  | CKSQYB104K50    |  |  | C 273                         | (A,84,93)   |                  | CCSQCH102J50    |  |   |
| C 197                         | (A,86,165)  |                  | CCSQCH220J50    |  |  | C 274                         | (A,89,93)   |                  | CCSQCH390J50    |  |   |
| C 198                         | (B,86,157)  |                  | CKSQYB104K50    |  |  | C 275                         | (A,91,93)   |                  | CCSQCH101J50    |  |   |
| C 199                         | (A,91,165)  |                  | CCSQCH220J50    |  |  | C 276                         | (A,93,93)   |                  | CCSQCH102J50    |  | F |

**Circuit Symbol and No.****Part No.****Circuit Symbol and No.****Part No.**

|   |       |                                |               |       |                               |               |
|---|-------|--------------------------------|---------------|-------|-------------------------------|---------------|
| A | C 316 | (A,79,17)                      | CKSRYB104K50  | C 859 | (A,165,127)                   | CEHAZL560M50  |
|   | C 317 | (A,79,19)                      | CKSRYB104K50  | C 860 | (A,166,119)                   | CEHAZL560M50  |
|   | C 318 | (B,70,27)                      | CKSRYB104K50  | C 863 | (B,206,130)                   | CCSRCH331J50  |
|   | C 324 | (A,68,36)                      | CCSRCH220J50  | C 864 | (B,184,128)                   | CCSRCH331J50  |
|   | C 328 | (B,70,25)                      | CKSRYB104K50  | C 865 | (B,193,99)                    | CKSRYB104K50  |
|   |       |                                |               |       |                               |               |
|   | C 333 | (A,80,24)                      | CEAL4R7M35    | C 866 | (B,195,104)                   | CKSQYB475K10  |
|   | C 351 | (A,79,21)                      | CKSRYB104K50  | C 867 | (A,199,119)                   | CKSQYB475K10  |
|   | C 601 | (A,49,76)                      | CCSRCH120J50  | C 868 | (A,201,117)                   | CKSRYB473K50  |
|   | C 602 | (A,47,76)                      | CCSRCH120J50  | C 869 | (A,201,105)                   | CKSRYB473K50  |
|   | C 603 | (A,32,69)                      | CKSRYB104K16  | C 870 | (A,210,111)                   | CEAL4R7M35    |
|   |       |                                |               |       |                               |               |
| B | C 604 | (B,47,75)                      | CCSRCH101J50  | C 871 | (A,210,105)                   | CEJQ330M10    |
|   | C 605 | (A,32,64)                      | CEJQ4R7M35    | C 872 | (A,206,116)                   | CCSRCH101J50  |
|   | C 607 | (A,75,80)                      | CCSRCH102J50  | C 877 | (A,200,191)                   | CEHAZA221M6R3 |
|   | C 651 | (A,18,108)                     | CCSRCH120J50  | C 878 | (B,210,108)                   | CKSRYB103K50  |
|   | C 652 | (A,18,100)                     | CCSRCH120J50  | C 879 | (A,209,102)                   | CKSRYB103K50  |
|   |       |                                |               |       |                               |               |
|   | C 653 | (A,40,106)                     | CKSRYB105K10  | C 880 | (A,193,102)                   | CEAT470M35    |
|   | C 660 | (A,20,84)                      | CKSRYB104K16  | C 881 | (A,152,104)                   | CEHAZL101M25  |
|   | C 661 | (B,47,73)                      | CKSRYB104K16  | C 887 | (A,155,170) 100 $\mu$ F/16 V  | CCH1631(P35)  |
|   | C 666 | (A,64,70)                      | CCSRCH102J50  | C 888 | (A,140,165) 100 $\mu$ F/16 V  | CCH1631(P35)  |
|   | C 670 | (A,15,31)                      | CKSRYB103K50  | C 889 | (A,140,147)                   | CKSRYB104K50  |
|   |       |                                |               |       |                               |               |
| C | C 671 | (A,21,80)                      | CKSRYB104K16  | C 890 | (A,137,142)                   | CKSRYB104K50  |
|   | C 701 | (A,57,13)                      | CKSRYB104K50  | C 894 | (B,153,170)                   | CKSRYB104K50  |
|   | C 704 | (B,27,47)                      | CCSRCH102J50  | C 895 | (A,140,119) 100 $\mu$ F/16 V  | CCH1631(P35)  |
|   | C 705 | (B,27,49)                      | CCSRCH102J50  | C 896 | (B,140,117)                   | CKSRYB104K50  |
|   | C 706 | (A,28,51)                      | CKSRYB104K16  | C 897 | (A,140,102) 100 $\mu$ F/16 V  | CCH1631(P35)  |
|   |       |                                |               |       |                               |               |
|   | C 710 | (A,28,52)                      | CKSRYB103K50  | C 898 | (A,140,130) 100 $\mu$ F/16 V  | CCH1631(P35)  |
|   | C 751 | (A,84,74)                      | CKSRYB104K16  | C 899 | (A,133,114)                   | CKSRYB104K50  |
|   | C 752 | (A,85,79)                      | CKSRYB104K50  | C 901 | (B,194,30)                    | CKSRYB104K50  |
|   | C 801 | (A,185,172)                    | CEHAZL680M16  | C 902 | (A,208,27) 4 700 $\mu$ F/16 V | CCH1694       |
|   | C 802 | (A,188,150)                    | CEHAZL680M16  | C 903 | (A,176,19)                    | CCSRCH102J50  |
|   |       |                                |               |       |                               |               |
| D | C 803 | (A,130,218) 100 $\mu$ F/16 V   | CCH1631(P35)  | C 911 | (A,23,160) 0.47 F/5.5 V       | CCL1016       |
|   | C 804 | (B,192,181)                    | CKSRYB104K50  | C 912 | (A,159,76)                    | CEJQ101M6R3   |
|   | C 805 | (A,175,193)                    | CKSRYB104K50  | C 913 | (A,165,76)                    | CKSRYB473K50  |
|   | C 806 | (A,200,183)                    | CEHAZL331M6R3 | C 914 | (A,182,71)                    | CEAT470M35    |
|   | C 807 | (A,165,189)                    | CEHAZL680M16  | C 921 | (A,27,75)                     | CEAT470M10    |
|   |       |                                |               |       |                               |               |
|   | C 808 | (A,192,183)                    | CEHAZL680M16  | C 922 | (A,31,69)                     | CKSRYB104K16  |
|   | C 809 | (A,164,178) 1 000 $\mu$ F/10 V | CCH1184       | C 923 | (A,35,78)                     | CKSRYB104K16  |
|   | C 812 | (B,186,162)                    | CCSRCH471J50  | C 926 | (A,64,73)                     | CKSRYB104K16  |
|   | C 814 | (B,164,162)                    | CKSRYB104K50  | C 927 | (A,70,63)                     | CEJQ4R7M35    |
|   | C 815 | (A,164,160)                    | CKSRYB105K10  | C 928 | (A,70,69)                     | CEAT470M10    |
|   |       |                                |               |       |                               |               |
| E | C 816 | (A,178,160)                    | CKSRYB105K10  | C 929 | (A,68,74)                     | CKSRYB104K16  |
|   | C 819 | (A,168,147)                    | CEAL4R7M35    | C 930 | (A,71,78)                     | CKSRYB104K16  |
|   | C 820 | (A,173,147)                    | CEAL4R7M35    | C 931 | (A,183,61)                    | CCSRCH101J50  |
|   | C 821 | (A,177,151)                    | CCSRCH101J50  | C 932 | (A,181,61)                    | CKSRYB103K50  |
|   | C 830 | (B,188,226)                    | CKSRYB104K16  | C 933 | (B,145,203)                   | CKSRYB104K16  |
|   |       |                                |               |       |                               |               |
|   | C 831 | (A,193,210)                    | CKSRYB104K16  | C 934 | (A,147,205) 22 $\mu$ F/16 V   | CCH1577       |
|   | C 840 | (A,185,216)                    | CEHAZA221M6R3 | C 935 | (A,156,208)                   | CKSRYB104K50  |
|   | C 845 | (A,141,218) 100 $\mu$ F/16 V   | CCH1631(P35)  | C 936 | (A,155,189) 47 $\mu$ F/25 V   | CCH1544       |
|   | C 846 | (A,141,230) 100 $\mu$ F/16 V   | CCH1631(P35)  | C 937 | (B,145,214)                   | CKSRYB104K16  |
|   | C 847 | (A,155,152) 100 $\mu$ F/16 V   | CCH1631(P35)  | C 938 | (A,147,211) 22 $\mu$ F/16 V   | CCH1577       |
|   |       |                                |               |       |                               |               |
| F | C 848 | (A,130,230) 100 $\mu$ F/16 V   | CCH1631(P35)  | C 939 | (B,169,213)                   | CKSRYB104K16  |
|   | C 849 | (B,140,104)                    | CKSRYB104K50  | C 940 | (A,204,79) 3 300 $\mu$ F/16 V | CCH1583       |
|   | C 850 | (A,164,164)                    | CEAT470M35    | C 941 | (A,85,52)                     | CEAT470M35    |
|   | C 851 | (A,195,128)                    | CEHAZL680M16  | C 942 | (A,176,209) 47 $\mu$ F/25 V   | CCH1544       |
|   | C 852 | (A,202,128)                    | CEHAZL680M16  | C 943 | (B,169,205)                   | CKSRYB104K16  |
|   |       |                                |               |       |                               |               |
|   | C 853 | (A,154,131)                    | CKSRYB104K50  | C 944 | (A,169,203) 100 $\mu$ F/16 V  | CCH1702       |
|   | C 854 | (A,154,114)                    | CKSRYB104K50  | C 945 | (A,169,215) 100 $\mu$ F/16 V  | CCH1702       |
|   | C 855 | (A,158,127)                    | CEHAZL101M25  | C 946 | (B,176,211)                   | CKSRYB104K50  |
|   | C 856 | (A,158,119)                    | CEHAZL101M25  | C 971 | (B,56,24)                     | CCSCH101J50   |
|   | C 857 | (B,165,124)                    | CKSRYB104K50  | C 981 | (A,79,52)                     | CEAT470M35    |

**Circuit Symbol and No.**

C 991 (A,77,69)  
C 992 (A,152,76)

**DSP Unit****Consists of****DSP PCB****Connector PCB****BC****Unit Number: CWX3288****Unit Name : DSP Unit****MISCELLANEOUS**

IC 2001 (A,22,62) IC  
IC 2201 (A,78,99) IC  
IC 2202 (A,43,99) IC  
IC 2301 (A,114,139) IC  
IC 2302 (A,83,139) IC

IC 2303 (A,52,139) IC  
IC 2304 (A,21,139) IC  
IC 2501 (A,107,152) IC  
IC 2502 (A,122,152) IC  
IC 2503 (A,76,152) IC

IC 2504 (A,91,152) IC  
IC 2505 (A,45,152) IC  
IC 2506 (A,60,152) IC  
IC 2507 (A,14,152) IC  
IC 2508 (A,29,152) IC

IC 3001 (A,105,114) IC  
IC 3003 (A,121,103) IC  
IC 3004 (A,127,110) IC  
IC 3005 (A,44,80) IC  
IC 3008 (A,44,74) IC

IC 3011 (A,17,88) IC  
IC 3012 (A,17,104) IC  
IC 3013 (A,17,94) IC  
IC 3014 (A,17,99) IC  
IC 3015 (A,44,64) IC

IC 3016 (A,44,69) IC  
IC 3017 (A,60,98) IC  
IC 3018 (A,60,91) IC  
IC 3019 (A,69,114) IC  
IC 3020 (A,61,114) IC

IC 3052 (A,93,99) IC  
IC 3053 (A,99,100) IC  
IC 3201 (A,50,33) IC  
IC 3202 (A,29,23) IC  
IC 4001 (A,98,50) IC

IC 4151 (A,126,11) IC  
IC 4201 (A,132,43) IC  
IC 4202 (A,94,19) IC  
IC 4301 (A,166,50) IC  
IC 4451 (A,191,11) IC

IC 4501 (A,198,43) IC  
IC 4502 (A,162,19) IC  
IC 4601 (A,166,99) IC  
IC 4751 (A,196,92) IC  
IC 4803 (A,177,132) IC

**Part No.**

CEAT470M10  
CEAT470M10

DIR1703ES1  
SRC4184IPAG  
SRC4184IPAG  
PCM1798DB  
PCM1798DB

PCM1798DB  
PCM1798DB  
LT1358CS8  
LT1358CS8  
LT1358CS8

LT1358CS8  
LT1358CS8  
LT1358CS8  
LT1358CS8  
LT1358CS8

TC7WH04FU  
NJM431U  
NJM431U  
TC7WZ34FU  
TC7WZ34FU

TC7WZ34FU  
TC7WZ34FU  
TC7WZ34FU  
TC7WZ34FU  
TC7WZ34FU

TC7WZ34FU  
TC7WZ34FU  
TC7WZ34FU  
TC7WZ34FU  
TC7WZ34FU

TC7WH04FU  
TC7SH04FUS1  
EPF6016ATI144-3S1  
TC7SH32FUS1  
ADSP-21065LCS240S1

TC74LCX541FTS1  
MSM56V16160F8TKFM  
MSM56V16160F8TKFM  
ADSP-21065LCS240S1  
TC74LCX541FTS1

MSM56V16160F8TKFM  
MSM56V16160F8TKFM  
ADSP-21065LCS240S1  
TC74LCX541FTS1  
MSM56V16160F8TKFM

**Circuit Symbol and No.**

IC 4804 (A,198,110) IC  
IC 4901 (A,120,80) IC  
IC 4902 (A,114,79) IC  
IC 4951 (A,13,21) IC  
IC 4952 (A,11,15) IC

IC 4953 (A,15,46) IC  
Q 3001 (A,118,95) Transistor  
Q 3002 (A,134,102) Transistor  
Q 3003 (A,119,111) Transistor  
Q 3004 (A,134,97) Transistor

Q 3005 (A,123,113) Transistor  
D 2201 (B,74,89) Diode Network  
D 2202 (B,61,104) Diode Network  
D 2203 (B,62,100) Diode Network  
D 2204 (B,68,89) Diode Network

D 2205 (A,65,102) Diode Network  
D 2206 (A,69,105) Diode Network  
D 2251 (A,53,105) Diode Network  
D 2252 (A,56,102) Diode Network  
D 2253 (B,55,89) Diode Network

D 2254 (B,37,89) Diode Network  
D 2255 (B,44,89) Diode Network  
D 2256 (B,49,89) Diode Network  
D 2257 (B,58,95) Diode Network  
D 2258 (A,52,92) Diode Network

D 2301 (A,107,129) Diode Network  
D 2303 (A,76,129) Diode Network  
D 2305 (A,45,129) Diode Network  
D 2307 (A,14,129) Diode Network  
D 2601 (A,107,81) LED

D 3201 (B,53,45) Diode Network  
D 3202 (B,50,49) Diode Network  
D 4001 (B,109,67) Diode Network  
D 4002 (B,105,65) Diode Network  
D 4301 (B,168,66) Diode Network

D 4302 (B,174,66) Diode Network  
D 4601 (B,160,83) Diode Network  
D 4602 (B,154,83) Diode Network  
L 2001 (B,20,75) Chip Ferrite Bead CTF1399  
L 2201 (A,85,111) Chip Ferrite Bead CTF1399

L 2202 (A,41,110) Chip Ferrite Bead CTF1399  
L 2301 (A,129,144) Chip Ferrite Bead CTF1399  
L 2302 (B,120,130) Chip Ferrite Bead CTF1399  
L 2303 (A,98,144) Chip Ferrite Bead CTF1399  
L 2304 (B,88,130) Chip Ferrite Bead CTF1399

L 2305 (A,67,144) Chip Ferrite Bead CTF1399  
L 2306 (B,57,130) Chip Ferrite Bead CTF1399  
L 2307 (A,36,144) Chip Ferrite Bead CTF1399  
L 2308 (B,26,130) Chip Ferrite Bead CTF1399  
L 2471 (A,172,164) Inductor CTF1650

L 2472 (A,178,165) Inductor CTF1453  
L 2473 (A,156,148) Inductor CTF1453  
L 3002 (A,100,105) Chip Ferrite Bead CTF1399  
L 3003 (A,53,81) Chip Ferrite Bead CTF1399  
L 3006 (A,53,75) Chip Ferrite Bead CTF1399

L 3009 (A,25,90) Chip Ferrite Bead CTF1399  
L 3010 (A,25,105) Chip Ferrite Bead CTF1399  
L 3011 (A,25,95) Chip Ferrite Bead CTF1399  
L 3012 (A,25,100) Chip Ferrite Bead CTF1399  
L 3013 (A,53,65) Chip Ferrite Bead CTF1399

**Part No.**

MSM56V16160F8TKFM  
TC74VHC541FTS1  
TC7SZU04FU  
TC7WZ34FU  
TC74VHC08FTS1

TC7SH04FUS1  
2SC4226  
2SD1767  
2SD1767  
2SC2412K

2SC2412K  
DA204U  
DA204U  
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CTF1399

**Circuit Symbol and No.****Part No.****Circuit Symbol and No.****Part No.**

|   |        |                                          |         |
|---|--------|------------------------------------------|---------|
| A | L 3014 | (A,53,70) Chip Ferrite Bead              | CTF1399 |
|   | L 3015 | (A,62,102) Chip Ferrite Bead             | CTF1399 |
|   | L 3016 | (A,62,95) Chip Ferrite Bead              | CTF1399 |
|   | L 3017 | (A,65,116) Chip Ferrite Bead             | CTF1399 |
|   | L 3018 | (A,57,116) Chip Ferrite Bead             | CTF1399 |
|   | L 3019 | (A,68,93) Inductor                       | CTF1386 |
|   | L 3202 | (B,39,58) Inductor                       | CTF1488 |
|   | L 4001 | (B,84,76) Inductor                       | CTF1488 |
|   | L 4151 | (A,133,17) Chip Ferrite Bead             | CTF1399 |
|   | L 4201 | (A,130,58) Chip Ferrite Bead             | CTF1399 |
| B | L 4202 | (B,109,19) Chip Ferrite Bead             | CTF1399 |
|   | L 4301 | (B,132,67) Inductor                      | CTF1488 |
|   | L 4451 | (B,197,16) Chip Ferrite Bead             | CTF1399 |
|   | L 4501 | (B,198,61) Chip Ferrite Bead             | CTF1399 |
|   | L 4502 | (B,182,18) Chip Ferrite Bead             | CTF1399 |
|   | L 4601 | (B,138,83) Inductor                      | CTF1488 |
|   | L 4751 | (B,197,87) Chip Ferrite Bead             | CTF1399 |
|   | L 4802 | (B,188,134) Chip Ferrite Bead            | CTF1399 |
|   | L 4803 | (B,199,134) Chip Ferrite Bead            | CTF1399 |
|   | L 4901 | (B,127,83) Chip Ferrite Bead             | CTF1399 |
| C | L 4951 | (A,11,52) Chip Ferrite Bead              | CTF1399 |
|   | TC3001 | (A,109,93) Trimmer                       | CCL1048 |
|   | X 2001 | (A,35,63) Crystal Resonator 11.289 6 MHz | CSS1610 |
|   | X 3001 | (A,114,97) Crystal Resonator 24.576 MHz  | CSS1611 |
|   | X 4901 | (A,117,87) Crystal Resonator 30.0 MHz    | CSS1612 |
|   | S 401  | (A,7,6) Switch(RESET)                    | CSG1082 |
|   | EF2401 | (A,133,151) EMI Filter                   | CCG1030 |
|   | EF2407 | (A,164,153) EMI Filter                   | CCG1030 |
|   |        |                                          |         |

**RESISTORS**

|   |        |            |               |
|---|--------|------------|---------------|
|   | R 2001 | (A,21,54)  | RS1/16S101J   |
|   | R 2002 | (A,14,63)  | RN1/10SE1201D |
|   | R 2003 | (A,14,58)  | RS1/16S103J   |
|   | R 2004 | (A,26,54)  | RAB4CQ101J    |
|   | R 2005 | (A,24,71)  | RS1/16S103J   |
| D | R 2006 | (B,29,66)  | RN1/16SC47R0D |
|   | R 2007 | (B,29,71)  | RN1/16SC47R0D |
|   | R 2008 | (B,31,71)  | RN1/16SC47R0D |
|   | R 2013 | (A,30,60)  | RS1/16S105J   |
|   | R 2014 | (A,24,54)  | RS1/16S0R0J   |
|   | R 2015 | (B,20,57)  | RS1/16S0R0J   |
|   | R 2016 | (A,22,54)  | RS1/16S0R0J   |
|   | R 2017 | (A,14,60)  | RS1/16S0R0J   |
|   | R 2018 | (A,24,69)  | RS1/16S0R0J   |
|   | R 2019 | (A,30,63)  | RN1/16SE3301D |
| E | R 2201 | (B,71,89)  | RN1/16SC47R0D |
|   | R 2202 | (B,63,105) | RN1/16SC47R0D |
|   | R 2203 | (B,60,100) | RN1/16SC47R0D |
|   | R 2204 | (B,65,89)  | RN1/16SC47R0D |
|   | R 2205 | (A,67,102) | RN1/16SC47R0D |
|   | R 2206 | (A,67,105) | RN1/16SC47R0D |
|   | R 2207 | (A,68,99)  | RN1/16SC47R0D |
|   | R 2208 | (A,68,98)  | RN1/16SC47R0D |
|   | R 2210 | (B,79,103) | RS1/16S0R0J   |
|   | R 2211 | (B,81,103) | RS1/16S0R0J   |
| F | R 2213 | (B,84,103) | RS1/16S0R0J   |
|   | R 2214 | (A,87,96)  | RS1/16S101J   |
|   | R 2215 | (A,87,98)  | RS1/16S103J   |
|   | R 2216 | (B,83,94)  | RS1/16S0R0J   |
|   | R 2218 | (B,81,94)  | RS1/16S0R0J   |

|        |             |               |
|--------|-------------|---------------|
| R 2219 | (A,81,89)   | RS1/16S103J   |
| R 2221 | (B,76,94)   | RS1/16S0R0J   |
| R 2240 | (A,87,100)  | RS1/16S103J   |
| R 2241 | (A,78,107)  | RS1/16S0R0J   |
| R 2242 | (B,79,94)   | RS1/16S0R0J   |
| R 2251 | (A,55,105)  | RN1/16SC47R0D |
| R 2252 | (A,54,102)  | RN1/16SC47R0D |
| R 2253 | (B,52,88)   | RN1/16SC47R0D |
| R 2254 | (B,35,88)   | RN1/16SC47R0D |
| R 2255 | (B,41,88)   | RN1/16SC47R0D |
| R 2256 | (B,46,88)   | RN1/16SC47R0D |
| R 2257 | (B,55,95)   | RN1/16SC47R0D |
| R 2258 | (A,49,92)   | RN1/16SC47R0D |
| R 2259 | (A,53,98)   | RN1/16SC47R0D |
| R 2260 | (A,53,99)   | RN1/16SC47R0D |
| R 2262 | (A,43,90)   | RS1/16S0R0J   |
| R 2263 | (A,38,90)   | RS1/16S0R0J   |
| R 2265 | (B,38,96)   | RS1/16S0R0J   |
| R 2266 | (A,34,101)  | RS1/16S101J   |
| R 2267 | (A,34,100)  | RS1/16S103J   |
| R 2268 | (B,37,100)  | RS1/16S0R0J   |
| R 2270 | (B,39,104)  | RS1/16S0R0J   |
| R 2271 | (B,41,104)  | RS1/16S0R0J   |
| R 2274 | (B,45,104)  | RS1/16S0R0J   |
| R 2280 | (A,34,97)   | RS1/16S103J   |
| R 2281 | (A,44,90)   | RS1/16S0R0J   |
| R 2282 | (B,43,104)  | RS1/16S0R0J   |
| R 2301 | (B,115,143) | RN1/10SE1002D |
| R 2302 | (B,84,143)  | RN1/10SE1002D |
| R 2303 | (B,53,143)  | RN1/10SE1002D |
| R 2304 | (B,22,144)  | RN1/10SE1002D |
| R 2311 | (A,109,129) | RN1/16SC47R0D |
| R 2312 | (A,110,129) | RN1/16SC47R0D |
| R 2313 | (B,111,130) | RS1/10S0R0J   |
| R 2314 | (A,78,129)  | RN1/16SC47R0D |
| R 2315 | (A,79,129)  | RN1/16SC47R0D |
| R 2316 | (B,81,130)  | RS1/10S0R0J   |
| R 2317 | (A,47,129)  | RN1/16SC47R0D |
| R 2318 | (A,48,129)  | RN1/16SC47R0D |
| R 2319 | (B,50,130)  | RS1/10S0R0J   |
| R 2320 | (A,16,129)  | RN1/16SC47R0D |
| R 2321 | (A,17,129)  | RN1/16SC47R0D |
| R 2322 | (B,19,130)  | RS1/10S0R0J   |
| R 2331 | (A,118,125) | RS1/16S101J   |
| R 2332 | (A,119,125) | RS1/16S101J   |
| R 2334 | (A,87,125)  | RS1/16S101J   |
| R 2335 | (A,88,125)  | RS1/16S101J   |
| R 2336 | (A,56,125)  | RS1/16S101J   |
| R 2337 | (A,57,125)  | RS1/16S101J   |
| R 2338 | (A,25,125)  | RS1/16S101J   |
| R 2339 | (A,26,125)  | RS1/16S101J   |
| R 2471 | (A,180,165) | RS1/16S0R0J   |
| R 2475 | (A,33,79)   | RS1/10S0R0J   |
| R 2501 | (A,102,153) | RN1/10SE1801D |
| R 2502 | (A,112,151) | RN1/10SE1801D |
| R 2503 | (A,117,153) | RN1/10SE1801D |
| R 2504 | (A,126,151) | RN1/10SE1801D |
| R 2505 | (A,71,153)  | RN1/10SE1801D |
| R 2506 | (A,81,151)  | RN1/10SE1801D |
| R 2507 | (A,86,153)  | RN1/10SE1801D |

| 5                      |             | 6             |  | 7                      |             | 8             |   |
|------------------------|-------------|---------------|--|------------------------|-------------|---------------|---|
| Circuit Symbol and No. |             | Part No.      |  | Circuit Symbol and No. |             | Part No.      |   |
| R 2508                 | (A,95,151)  | RN1/10SE1801D |  | R 3042                 | (B,50,62)   | RN1/16SC47R0D | A |
| R 2509                 | (A,40,153)  | RN1/10SE1801D |  | R 3043                 | (A,21,103)  | RN1/16SC47R0D |   |
| R 2510                 | (A,50,151)  | RN1/10SE1801D |  | R 3044                 | (A,21,105)  | RN1/16SC47R0D |   |
| R 2511                 | (A,55,153)  | RN1/10SE1801D |  | R 3045                 | (A,22,93)   | RN1/16SC47R0D |   |
| R 2512                 | (A,64,151)  | RN1/10SE1801D |  | R 3046                 | (A,22,94)   | RN1/16SC47R0D |   |
| R 2513                 | (A,9,153)   | RN1/10SE1801D |  | R 3047                 | (A,21,98)   | RN1/16SC47R0D |   |
| R 2514                 | (A,19,151)  | RN1/10SE1801D |  | R 3048                 | (A,21,100)  | RN1/16SC47R0D |   |
| R 2515                 | (A,24,153)  | RN1/10SE1801D |  | R 3051                 | (A,89,90)   | RS1/16S0R0J   |   |
| R 2516                 | (A,33,151)  | RN1/10SE1801D |  | R 3052                 | (B,94,97)   | RS1/16S0R0J   |   |
| R 2551                 | (A,102,157) | RN1/10SE4701D |  | R 3053                 | (A,90,99)   | RN1/16SE2200D |   |
| R 2552                 | (A,112,155) | RN1/10SE4701D |  | R 3054                 | (A,108,118) | RN1/16SE1500D | B |
| R 2553                 | (A,119,157) | RN1/10SE4701D |  | R 3055                 | (B,105,116) | RS1/16S0R0J   |   |
| R 2554                 | (A,127,155) | RN1/10SE4701D |  | R 3056                 | (A,98,119)  | RS1/16S0R0J   |   |
| R 2555                 | (A,71,157)  | RN1/10SE4701D |  | R 3201                 | (A,64,49)   | RN1/16SC47R0D |   |
| R 2556                 | (A,82,155)  | RN1/10SE4701D |  | R 3202                 | (A,62,49)   | RN1/16SC47R0D |   |
| R 2557                 | (A,88,157)  | RN1/10SE4701D |  | R 3203                 | (A,61,49)   | RN1/16SC47R0D |   |
| R 2558                 | (A,96,155)  | RN1/10SE4701D |  | R 3204                 | (A,59,49)   | RN1/16SC47R0D |   |
| R 2559                 | (A,40,157)  | RN1/10SE4701D |  | R 3205                 | (A,58,49)   | RN1/16SC47R0D |   |
| R 2560                 | (A,50,155)  | RN1/10SE4701D |  | R 3206                 | (A,53,49)   | RN1/16SC47R0D |   |
| R 2561                 | (A,57,157)  | RN1/10SE4701D |  | R 3207                 | (A,55,49)   | RN1/16SC47R0D |   |
| R 2562                 | (A,65,155)  | RN1/10SE4701D |  | R 3208                 | (A,51,49)   | RN1/16SC47R0D | C |
| R 2563                 | (A,9,157)   | RN1/10SE4701D |  | R 3209                 | (B,56,45)   | RN1/16SC47R0D |   |
| R 2564                 | (A,19,155)  | RN1/10SE4701D |  | R 3210                 | (B,52,50)   | RN1/16SC47R0D |   |
| R 2565                 | (A,26,157)  | RN1/10SE4701D |  | R 3211                 | (B,47,46)   | RN1/16SC47R0D |   |
| R 2566                 | (A,34,155)  | RN1/10SE4701D |  | R 3212                 | (A,50,49)   | RN1/16SC47R0D |   |
| R 2601                 | (B,104,81)  | RS1/16S101J   |  | R 3214                 | (A,48,49)   | RN1/16SC47R0D |   |
| R 3001                 | (A,109,118) | RN1/16SE1500D |  | R 3215                 | (A,47,49)   | RN1/16SC47R0D |   |
| R 3003                 | (A,100,119) | RN1/16SC47R0D |  | R 3216                 | (A,45,49)   | RN1/16SC47R0D |   |
| R 3004                 | (A,96,119)  | RN1/16SC47R0D |  | R 3219                 | (A,37,43)   | RN1/16SC47R0D |   |
| R 3005                 | (A,107,97)  | RN1/16SE1000D |  | R 3220                 | (A,35,43)   | RN1/16SC47R0D |   |
| R 3006                 | (A,102,99)  | RN1/16SE4702D |  | R 3223                 | (A,35,33)   | RS1/16S0R0J   |   |
| R 3007                 | (A,120,96)  | RN1/16SE1502D |  | R 3225                 | (B,44,33)   | RS1/16S102J   |   |
| R 3008                 | (A,116,91)  | RN1/16SE1502D |  | R 3226                 | (A,35,31)   | RS1/16S0R0J   |   |
| R 3009                 | (A,107,100) | RN1/16SE1002D |  | R 3252                 | (A,56,19)   | RS1/16S102J   |   |
| R 3010                 | (A,104,100) | RN1/16SE1002D |  | R 3262                 | (B,57,26)   | RS1/16S103J   |   |
| R 3011                 | (A,123,92)  | RN1/16SE6800D |  | R 3267                 | (B,61,27)   | RS1/16S103J   | D |
| R 3012                 | (A,135,93)  | RN1/16SE4701D |  | R 3270                 | (B,57,30)   | RS1/16S103J   |   |
| R 3013                 | (A,118,108) | RN1/16SE4701D |  | R 3273                 | (A,65,29)   | RS1/16S0R0J   |   |
| R 3014                 | (A,133,93)  | RN1/16SC27R0D |  | R 3275                 | (B,61,32)   | RS1/16S103J   |   |
| R 3015                 | (A,120,98)  | RN1/16SE4701D |  | R 3276                 | (A,63,34)   | RS1/16S0R0J   |   |
| R 3016                 | (A,120,99)  | RN1/16SE1502D |  | R 3277                 | (A,63,35)   | RS1/16S0R0J   |   |
| R 3017                 | (A,128,113) | RN1/16SC27R0D |  | R 3278                 | (A,63,37)   | RS1/16S0R0J   |   |
| R 3018                 | (A,122,108) | RN1/16SE4701D |  | R 3279                 | (A,31,25)   | RS1/16S473J   |   |
| R 3019                 | (A,124,103) | RN1/16SC56R0D |  | R 3291                 | (A,56,49)   | RS1/16S0R0J   |   |
| R 3020                 | (A,123,108) | RN1/16SE1502D |  | R 3292                 | (A,44,49)   | RS1/16S0R0J   |   |
| R 3021                 | (A,131,112) | RN1/16SC56R0D |  | R 4001                 | (B,103,65)  | RN1/16SC47R0D | E |
| R 3022                 | (A,40,80)   | RN1/16SC47R0D |  | R 4002                 | (B,112,67)  | RN1/16SC47R0D |   |
| R 3024                 | (A,70,93)   | RS1/10S0R0J   |  | R 4003                 | (A,111,68)  | RN1/16SC47R0D |   |
| R 3026                 | (A,48,80)   | RN1/16SC47R0D |  | R 4004                 | (A,109,68)  | RN1/16SC47R0D |   |
| R 3028                 | (A,48,79)   | RN1/16SC47R0D |  | R 4005                 | (A,108,68)  | RN1/16SC47R0D |   |
| R 3029                 | (A,68,90)   | RN1/10SE1000D |  | R 4006                 | (A,106,68)  | RN1/16SC47R0D |   |
| R 3031                 | (A,40,75)   | RN1/16SC47R0D |  | R 4007                 | (A,105,68)  | RS1/16S47R0D  |   |
| R 3032                 | (A,89,91)   | RN1/16SC47R0D |  | R 4008                 | (B,99,70)   | RS1/16S47R0D  |   |
| R 3034                 | (A,87,102)  | RN1/16SE2200D |  | R 4009                 | (A,102,68)  | RS1/16S47R0D  |   |
| R 3035                 | (A,48,75)   | RN1/16SC47R0D |  | R 4010                 | (A,100,68)  | RS1/16S47R0D  |   |
| R 3036                 | (A,89,88)   | RN1/16SC47R0D |  | R 4011                 | (A,99,68)   | RS1/16S47R0D  | F |
| R 3037                 | (A,48,73)   | RN1/16SC47R0D |  | R 4012                 | (A,97,68)   | RS1/16S47R0D  |   |
| R 3039                 | (B,47,61)   | RN1/16SC47R0D |  | R 4013                 | (B,100,66)  | RS1/16S103J   |   |
| R 3040                 | (A,22,87)   | RN1/16SC47R0D |  | R 4014                 | (B,98,66)   | RS1/16S103J   |   |
| R 3041                 | (A,22,89)   | RN1/16SC47R0D |  | R 4015                 | (B,96,66)   | RS1/16S103J   |   |

**Circuit Symbol and No.****Part No.****Circuit Symbol and No.****Part No.**

|   |        |            |               |        |            |               |
|---|--------|------------|---------------|--------|------------|---------------|
| A | R 4016 | (B,94,66)  | RS1/16S103J   | R 4091 | (A,109,30) | RS1/16S0R0J   |
|   | R 4017 | (A,95,68)  | RN1/16SC47R0D | R 4092 | (A,107,30) | RS1/16S0R0J   |
|   | R 4018 | (B,92,66)  | RS1/16S103J   | R 4093 | (A,106,30) | RS1/16S0R0J   |
|   | R 4019 | (B,90,66)  | RS1/16S103J   | R 4094 | (A,104,30) | RS1/16S47R0D  |
|   | R 4020 | (A,93,68)  | RS1/16S47R0D  | R 4095 | (A,103,30) | RS1/16S47R0D  |
|   |        |            |               |        |            |               |
| ■ | R 4021 | (A,92,68)  | RS1/16S47R0D  | R 4096 | (A,101,30) | RS1/16S47R0D  |
|   | R 4022 | (A,90,68)  | RS1/16S47R0D  | R 4097 | (A,100,30) | RS1/16S47R0D  |
|   | R 4023 | (A,89,68)  | RS1/16S47R0D  | R 4098 | (A,98,30)  | RS1/16S47R0D  |
|   | R 4024 | (A,87,68)  | RS1/16S47R0D  | R 4099 | (A,97,30)  | RS1/16S47R0D  |
|   | R 4025 | (A,86,68)  | RS1/16S47R0D  | R 4100 | (A,95,30)  | RS1/16S47R0D  |
|   |        |            |               |        |            |               |
| B | R 4026 | (A,84,68)  | RS1/16S47R0D  | R 4101 | (A,94,30)  | RS1/16S47R0D  |
|   | R 4027 | (A,82,67)  | RS1/16S47R0D  | R 4102 | (A,92,30)  | RS1/16S47R0D  |
|   | R 4028 | (A,82,68)  | RS1/16S101J   | R 4103 | (A,91,30)  | RS1/16S47R0D  |
|   | R 4029 | (B,114,63) | RS1/16S103J   | R 4104 | (A,89,30)  | RS1/16S47R0D  |
|   | R 4030 | (A,78,61)  | RAB4CQ103J    | R 4105 | (A,88,30)  | RS1/16S47R0D  |
|   |        |            |               |        |            |               |
| ■ | R 4034 | (A,115,66) | RS1/16S47R0D  | R 4106 | (A,86,30)  | RS1/16S47R0D  |
|   | R 4035 | (B,114,59) | RS1/16S103J   | R 4107 | (A,85,30)  | RS1/16S47R0D  |
|   | R 4036 | (B,116,59) | RS1/16S103J   | R 4108 | (A,83,30)  | RS1/16S47R0D  |
|   | R 4037 | (A,116,64) | RS1/16S47R0D  | R 4109 | (A,82,30)  | RS1/16S47R0D  |
|   | R 4038 | (A,78,58)  | RS1/16S103J   | R 4110 | (A,80,30)  | RS1/16S47R0D  |
|   |        |            |               |        |            |               |
| C | R 4039 | (A,119,63) | RS1/16S47R0D  | R 4111 | (A,115,32) | RS1/16S103J   |
|   | R 4040 | (A,119,61) | RS1/16S47R0D  | R 4112 | (B,113,44) | RS1/16S103J   |
|   | R 4041 | (A,118,60) | RS1/16S47R0D  | R 4113 | (A,118,48) | RS1/16S103J   |
|   | R 4042 | (A,78,56)  | RAB4CQ103J    | R 4114 | (B,116,48) | RS1/16S103J   |
|   | R 4044 | (A,118,58) | RS1/16S47R0D  | R 4115 | (B,118,48) | RS1/16S103J   |
|   |        |            |               |        |            |               |
| ■ | R 4046 | (A,118,57) | RS1/16S47R0D  | R 4116 | (B,118,54) | RS1/16S103J   |
|   | R 4047 | (A,118,55) | RS1/16S47R0D  | R 4117 | (B,108,59) | RS1/16S103J   |
|   | R 4049 | (A,78,54)  | RS1/16S47R0D  | R 4118 | (B,116,54) | RS1/16S103J   |
|   | R 4050 | (A,119,54) | RS1/16S47R0D  | R 4119 | (B,112,48) | RS1/16S103J   |
|   | R 4051 | (A,78,52)  | RS1/16S47R0D  | R 4120 | (B,114,48) | RS1/16S103J   |
|   |        |            |               |        |            |               |
| D | R 4052 | (A,118,52) | RS1/16S47R0D  | R 4121 | (B,118,59) | RS1/16S103J   |
|   | R 4053 | (A,118,51) | RS1/16S47R0D  | R 4122 | (B,113,54) | RS1/16S103J   |
|   | R 4054 | (A,78,51)  | RS1/16S47R0D  | R 4123 | (A,82,65)  | RS1/16S47R0D  |
|   | R 4055 | (A,75,51)  | RS1/16S47R0D  | R 4124 | (A,118,35) | RS1/16S103J   |
|   | R 4056 | (A,78,49)  | RS1/16S47R0D  | R 4160 | (A,133,15) | RS1/16S0R0J   |
|   |        |            |               |        |            |               |
| ■ | R 4057 | (A,118,49) | RS1/16S47R0D  | R 4161 | (A,136,14) | RS1/16S0R0J   |
|   | R 4058 | (A,118,46) | RS1/16S103J   | R 4162 | (A,133,13) | RS1/16S0R0J   |
|   | R 4059 | (A,74,47)  | RS1/16S47R0D  | R 4163 | (A,136,12) | RS1/16S0R0J   |
|   | R 4060 | (A,118,44) | RAB4CQ103J    | R 4164 | (A,133,11) | RS1/16S0R0J   |
|   | R 4061 | (A,77,47)  | RS1/16S47R0D  | R 4165 | (A,136,10) | RS1/16S0R0J   |
|   |        |            |               |        |            |               |
| ■ | R 4062 | (A,74,45)  | RS1/16S47R0D  | R 4166 | (A,133,9)  | RS1/16S0R0J   |
|   | R 4064 | (A,77,45)  | RS1/16S47R0D  | R 4167 | (A,136,8)  | RS1/16S0R0J   |
|   | R 4065 | (B,116,44) | RS1/16S47R0D  | R 4168 | (A,127,7)  | RS1/16S0R0J   |
|   | R 4066 | (A,74,43)  | RS1/16S47R0D  | R 4208 | (A,122,46) | RN1/16SC47R0D |
|   | R 4068 | (A,77,43)  | RS1/16S47R0D  | R 4225 | (A,98,26)  | RN1/16SC47R0D |
|   |        |            |               |        |            |               |
| E | R 4070 | (A,74,41)  | RS1/16S47R0D  | R 4301 | (B,176,66) | RN1/16SC47R0D |
|   | R 4071 | (A,118,41) | RAB4CQ103J    | R 4302 | (B,171,66) | RN1/16SC47R0D |
|   | R 4072 | (A,74,39)  | RS1/16S47R0D  | R 4303 | (A,180,70) | RN1/16SC47R0D |
|   | R 4074 | (A,78,40)  | RS1/16S47R0D  | R 4304 | (A,178,70) | RN1/16SC47R0D |
|   | R 4077 | (A,78,39)  | RS1/16S47R0D  | R 4305 | (A,175,69) | RN1/16SC47R0D |
|   |        |            |               |        |            |               |
| ■ | R 4078 | (A,118,38) | RAB4CQ103J    | R 4306 | (A,174,69) | RN1/16SC47R0D |
|   | R 4079 | (A,78,37)  | RS1/16S47R0D  | R 4307 | (A,177,69) | RS1/16S47R0D  |
|   | R 4080 | (A,79,36)  | RS1/16S47R0D  | R 4308 | (A,172,68) | RS1/16S47R0D  |
|   | R 4083 | (A,79,34)  | RS1/16S47R0D  | R 4309 | (A,170,68) | RS1/16S47R0D  |
|   | R 4085 | (A,79,33)  | RS1/16S47R0D  | R 4310 | (A,168,69) | RN1/16SC47R0D |
|   |        |            |               |        |            |               |
| F | R 4086 | (A,115,35) | RS1/16S47R0D  | R 4311 | (A,167,69) | RN1/16SC47R0D |
|   | R 4087 | (A,79,30)  | RS1/16S47R0D  | R 4312 | (B,172,61) | RS1/16S103J   |
|   | R 4088 | (A,113,30) | RS1/16S0R0J   | R 4313 | (B,168,61) | RS1/16S103J   |
|   | R 4089 | (A,112,30) | RS1/16S0R0J   | R 4314 | (B,166,61) | RS1/16S103J   |
|   | R 4090 | (A,110,30) | RS1/16S0R0J   | R 4315 | (B,164,61) | RS1/16S103J   |

| 5                      |            | 6             |  | 7                      |            | 8             |   |
|------------------------|------------|---------------|--|------------------------|------------|---------------|---|
| Circuit Symbol and No. |            | Part No.      |  | Circuit Symbol and No. |            | Part No.      |   |
| R 4316                 | (A,163,68) | RN1/16SC47R0D |  | R 4394                 | (A,171,30) | RS1/16S47R0D  | A |
| R 4317                 | (B,160,61) | RS1/16S103J   |  | R 4395                 | (A,170,30) | RS1/16S47R0D  |   |
| R 4318                 | (B,158,61) | RS1/16S103J   |  | R 4396                 | (A,168,30) | RS1/16S47R0D  |   |
| R 4319                 | (A,162,68) | RS1/16S47R0D  |  | R 4397                 | (A,167,30) | RS1/16S47R0D  |   |
| R 4320                 | (A,160,68) | RS1/16S47R0D  |  | R 4398                 | (A,165,30) | RS1/16S47R0D  |   |
| R 4321                 | (A,159,68) | RS1/16S47R0D  |  | R 4399                 | (A,164,30) | RS1/16S47R0D  |   |
| R 4322                 | (A,157,68) | RS1/16S47R0D  |  | R 4400                 | (A,162,30) | RS1/16S47R0D  |   |
| R 4323                 | (A,156,68) | RS1/16S47R0D  |  | R 4401                 | (A,161,30) | RS1/16S47R0D  |   |
| R 4324                 | (A,154,68) | RS1/16S47R0D  |  | R 4402                 | (A,159,30) | RS1/16S47R0D  |   |
| R 4325                 | (A,153,68) | RS1/16S47R0D  |  | R 4403                 | (A,158,30) | RS1/16S47R0D  |   |
| R 4326                 | (A,150,65) | RS1/16S47R0D  |  | R 4404                 | (A,156,30) | RS1/16S47R0D  | B |
| R 4327                 | (A,150,67) | RS1/16S47R0D  |  | R 4405                 | (A,155,30) | RS1/16S47R0D  |   |
| R 4328                 | (A,182,66) | RS1/16S103J   |  | R 4406                 | (A,153,30) | RS1/16S47R0D  |   |
| R 4329                 | (A,147,61) | RAB4CQ103J    |  | R 4407                 | (A,152,30) | RS1/16S47R0D  |   |
| R 4333                 | (A,184,66) | RS1/16S47R0D  |  | R 4408                 | (A,150,30) | RS1/16S47R0D  |   |
| R 4334                 | (A,186,63) | RS1/16S103J   |  | R 4409                 | (A,149,30) | RS1/16S47R0D  |   |
| R 4335                 | (A,186,62) | RS1/16S103J   |  | R 4410                 | (A,185,32) | RS1/16S103J   |   |
| R 4336                 | (A,186,60) | RS1/16S47R0D  |  | R 4411                 | (A,174,30) | RS1/16S103J   |   |
| R 4337                 | (A,147,57) | RS1/16S103J   |  | R 4412                 | (B,184,60) | RS1/16S103J   |   |
| R 4338                 | (A,190,59) | RS1/16S47R0D  |  | R 4413                 | (B,181,58) | RS1/16S103J   |   |
| R 4339                 | (A,186,58) | RS1/16S47R0D  |  | R 4414                 | (B,183,53) | RS1/16S103J   | C |
| R 4340                 | (A,190,57) | RS1/16S47R0D  |  | R 4415                 | (B,185,53) | RS1/16S103J   |   |
| R 4341                 | (A,147,55) | RAB4CQ103J    |  | R 4416                 | (B,181,49) | RS1/16S103J   |   |
| R 4343                 | (A,186,56) | RS1/16S47R0D  |  | R 4417                 | (B,181,53) | RS1/16S103J   |   |
| R 4345                 | (A,190,55) | RS1/16S47R0D  |  | R 4418                 | (B,175,55) | RS1/16S103J   |   |
| R 4346                 | (A,186,54) | RS1/16S47R0D  |  | R 4419                 | (B,175,49) | RS1/16S103J   |   |
| R 4348                 | (A,147,53) | RS1/16S47R0D  |  | R 4420                 | (B,175,44) | RS1/16S103J   |   |
| R 4349                 | (A,186,53) | RS1/16S47R0D  |  | R 4421                 | (B,182,45) | RS1/16S103J   |   |
| R 4350                 | (A,145,51) | RAB4CQ103J    |  | R 4422                 | (B,185,45) | RS1/16S103J   |   |
| R 4351                 | (A,186,51) | RS1/16S47R0D  |  | R 4423                 | (A,143,58) | RS1/16S47R0D  |   |
| R 4352                 | (A,186,50) | RS1/16S47R0D  |  | R 4424                 | (A,187,32) | RS1/16S103J   | D |
| R 4356                 | (A,186,48) | RS1/16S47R0D  |  | R 4460                 | (A,199,15) | RS1/16S0R0J   |   |
| R 4357                 | (A,186,47) | RS1/16S103J   |  | R 4461                 | (A,202,14) | RS1/16S0R0J   |   |
| R 4358                 | (A,148,49) | RS1/16S47R0D  |  | R 4462                 | (A,199,13) | RS1/16S0R0J   |   |
| R 4359                 | (A,186,45) | RAB4CQ103J    |  | R 4463                 | (A,202,12) | RS1/16S0R0J   |   |
| R 4360                 | (A,145,48) | RS1/16S47R0D  |  | R 4464                 | (A,199,11) | RS1/16S0R0J   |   |
| R 4361                 | (A,148,47) | RS1/16S47R0D  |  | R 4465                 | (A,202,10) | RS1/16S0R0J   |   |
| R 4363                 | (A,145,46) | RS1/16S47R0D  |  | R 4466                 | (A,199,9)  | RS1/16S0R0J   |   |
| R 4364                 | (B,185,49) | RS1/16S47R0D  |  | R 4467                 | (A,202,7)  | RS1/16S0R0J   |   |
| R 4365                 | (A,148,45) | RS1/16S47R0D  |  | R 4468                 | (A,191,6)  | RS1/16S0R0J   |   |
| R 4367                 | (A,145,44) | RS1/16S47R0D  |  | R 4508                 | (A,190,47) | RN1/16SC47R0D | E |
| R 4369                 | (A,148,43) | RS1/16S47R0D  |  | R 4525                 | (B,166,24) | RN1/16SC47R0D |   |
| R 4370                 | (A,186,41) | RAB4CQ103J    |  | R 4601                 | (B,157,84) | RN1/16SC47R0D |   |
| R 4371                 | (A,144,42) | RS1/16S47R0D  |  | R 4602                 | (B,163,84) | RN1/16SC47R0D |   |
| R 4373                 | (A,147,41) | RS1/16S47R0D  |  | R 4603                 | (A,153,80) | RN1/16SC47R0D |   |
| R 4376                 | (A,147,40) | RS1/16S47R0D  |  | R 4604                 | (A,154,80) | RN1/16SC47R0D |   |
| R 4377                 | (A,186,38) | RAB4CQ103J    |  | R 4605                 | (A,156,80) | RN1/16SC47R0D |   |
| R 4378                 | (A,147,39) | RS1/16S47R0D  |  | R 4606                 | (A,157,80) | RN1/16SC47R0D |   |
| R 4379                 | (A,147,37) | RS1/16S47R0D  |  | R 4607                 | (A,159,80) | RS1/16S47R0D  |   |
| R 4382                 | (A,148,35) | RS1/16S47R0D  |  | R 4608                 | (A,160,80) | RS1/16S47R0D  |   |
| R 4384                 | (A,150,35) | RS1/16S47R0D  |  | R 4609                 | (B,162,77) | RS1/16S47R0D  |   |
| R 4385                 | (A,186,35) | RS1/16S47R0D  |  | R 4610                 | (A,165,80) | RN1/16SC47R0D |   |
| R 4386                 | (A,147,30) | RS1/16S47R0D  |  | R 4611                 | (A,166,80) | RN1/16SC47R0D |   |
| R 4387                 | (A,183,30) | RS1/16S0R0J   |  | R 4612                 | (B,165,88) | RS1/16S103J   |   |
| R 4388                 | (A,182,30) | RS1/16S0R0J   |  | R 4613                 | (B,165,84) | RS1/16S103J   |   |
| R 4389                 | (A,180,30) | RS1/16S0R0J   |  | R 4614                 | (B,167,88) | RS1/16S103J   | F |
| R 4390                 | (A,179,30) | RS1/16S0R0J   |  | R 4615                 | (B,169,84) | RS1/16S103J   |   |
| R 4391                 | (A,177,30) | RS1/16S0R0J   |  | R 4616                 | (A,169,80) | RN1/16SC47R0D |   |
| R 4392                 | (A,176,30) | RS1/16S0R0J   |  | R 4617                 | (B,173,88) | RS1/16S103J   |   |
| R 4393                 | (A,173,30) | RS1/16S47R0D  |  | R 4618                 | (B,171,84) | RS1/16S103J   |   |

**Circuit Symbol and No.****Part No.****Circuit Symbol and No.****Part No.**

|                   |        |             |              |        |                      |               |
|-------------------|--------|-------------|--------------|--------|----------------------|---------------|
| A                 | R 4619 | (A,171,80)  | RS1/16S47R0D | R 4697 | (A,168,118)          | RS1/16S47R0D  |
|                   | R 4620 | (A,172,80)  | RS1/16S47R0D | R 4698 | (A,169,121)          | RS1/16S47R0D  |
|                   | R 4621 | (A,174,80)  | RS1/16S47R0D | R 4699 | (A,170,118)          | RS1/16S47R0D  |
|                   | R 4622 | (A,175,80)  | RS1/16S47R0D | R 4700 | (A,171,121)          | RS1/16S47R0D  |
|                   | R 4623 | (A,177,80)  | RS1/16S47R0D | R 4701 | (A,172,118)          | RS1/16S47R0D  |
| ■                 | R 4624 | (A,178,80)  | RS1/16S47R0D | R 4702 | (A,173,121)          | RS1/16S47R0D  |
|                   | R 4625 | (A,180,80)  | RS1/16S47R0D | R 4703 | (A,174,118)          | RS1/16S47R0D  |
|                   | R 4626 | (A,186,85)  | RS1/16S47R0D | R 4704 | (A,175,121)          | RS1/16S47R0D  |
|                   | R 4627 | (A,182,80)  | RS1/16S47R0D | R 4705 | (A,176,118)          | RS1/16S47R0D  |
|                   | R 4628 | (B,147,88)  | RS1/16S103J  | R 4706 | (A,177,121)          | RS1/16S47R0D  |
| B                 | R 4629 | (A,186,88)  | RAB4CQ103J   | R 4707 | (A,178,118)          | RS1/16S47R0D  |
|                   | R 4633 | (A,147,89)  | RS1/16S47R0D | R 4708 | (A,179,118)          | RS1/16S47R0D  |
|                   | R 4634 | (A,145,90)  | RS1/16S103J  | R 4709 | (A,181,118)          | RS1/16S47R0D  |
|                   | R 4635 | (A,147,91)  | RS1/16S103J  | R 4710 | (A,153,118)          | RS1/16S103J   |
|                   | R 4636 | (A,145,92)  | RS1/16S47R0D | R 4711 | (B,164,114)          | RS1/16S103J   |
| ■                 | R 4637 | (B,181,93)  | RS1/16S103J  | R 4712 | (B,148,92)           | RS1/16S103J   |
|                   | R 4638 | (A,147,93)  | RS1/16S47R0D | R 4713 | (B,155,92)           | RS1/16S103J   |
|                   | R 4639 | (A,145,94)  | RS1/16S47R0D | R 4714 | (B,157,92)           | RS1/16S103J   |
|                   | R 4640 | (A,147,95)  | RS1/16S47R0D | R 4715 | (B,158,92)           | RS1/16S103J   |
|                   | R 4641 | (A,186,94)  | RAB4CQ103J   | R 4716 | (B,148,96)           | RS1/16S103J   |
| C                 | R 4643 | (A,145,96)  | RS1/16S47R0D | R 4717 | (B,151,90)           | RS1/16S103J   |
|                   | R 4645 | (A,147,97)  | RS1/16S47R0D | R 4718 | (B,158,97)           | RS1/16S103J   |
|                   | R 4646 | (A,145,98)  | RS1/16S47R0D | R 4719 | (B,160,97)           | RS1/16S103J   |
|                   | R 4648 | (A,188,97)  | RS1/16S47R0D | R 4720 | (B,160,102)          | RS1/16S103J   |
|                   | R 4649 | (A,147,99)  | RS1/16S47R0D | R 4721 | (A,145,103)          | RS1/16S103J   |
| ■                 | R 4650 | (A,185,98)  | RAB4CQ103J   | R 4722 | (B,156,106)          | RS1/16S103J   |
|                   | R 4651 | (A,145,100) | RS1/16S47R0D | R 4723 | (A,184,85)           | RS1/16S47R0D  |
|                   | R 4652 | (A,147,101) | RS1/16S47R0D | R 4724 | (A,149,115)          | RS1/16S103J   |
|                   | R 4656 | (A,145,109) | RS1/16S47R0D | R 4760 | (A,200,86)           | RS1/16S0R0J   |
|                   | R 4657 | (B,158,102) | RS1/16S103J  | R 4761 | (A,199,83)           | RS1/16S0R0J   |
| D                 | R 4658 | (A,188,99)  | RS1/16S47R0D | R 4762 | (A,198,86)           | RS1/16S0R0J   |
|                   | R 4659 | (A,148,104) | RAB4CQ103J   | R 4763 | (A,197,83)           | RS1/16S0R0J   |
|                   | R 4660 | (A,188,100) | RS1/16S47R0D | R 4764 | (A,196,86)           | RS1/16S0R0J   |
|                   | R 4661 | (A,185,102) | RS1/16S47R0D | R 4765 | (A,194,83)           | RS1/16S0R0J   |
|                   | R 4663 | (A,188,102) | RS1/16S47R0D | R 4766 | (A,193,86)           | RS1/16S0R0J   |
| ■                 | R 4664 | (A,186,117) | RS1/16S47R0D | R 4767 | (A,192,83)           | RS1/16S0R0J   |
|                   | R 4665 | (A,185,103) | RS1/16S47R0D | R 4768 | (A,190,92)           | RS1/16S0R0J   |
|                   | R 4667 | (A,188,104) | RS1/16S47R0D | R 4810 | (A,183,115)          | RN1/16SC47R0D |
|                   | R 4669 | (A,185,105) | RS1/16S47R0D | R 4827 | (A,185,115)          | RN1/16SC47R0D |
|                   | R 4670 | (A,148,107) | RAB4CQ103J   | R 4901 | (A,116,73)           | RN1/16SC10R0D |
| E                 | R 4671 | (A,188,106) | RS1/16S47R0D | R 4902 | (A,120,73)           | RN1/16SC22R0D |
|                   | R 4673 | (A,185,107) | RS1/16S47R0D | R 4903 | (A,120,75)           | RN1/16SC22R0D |
|                   | R 4676 | (A,188,108) | RS1/16S47R0D | R 4904 | (A,116,75)           | RN1/16SC39R0D |
|                   | R 4677 | (A,148,110) | RAB4CQ103J   | R 4905 | (A,114,83)           | RN1/16SK1003D |
|                   | R 4678 | (A,185,109) | RS1/16S47R0D | R 4906 | (A,121,87)           | RN1/16SE6800D |
| ■                 | R 4679 | (A,188,110) | RS1/16S47R0D | R 4951 | (A,17,21)            | RS1/16S472J   |
|                   | R 4682 | (A,185,111) | RS1/16S47R0D | R 4952 | (A,16,31)            | RS1/16S472J   |
|                   | R 4684 | (A,188,112) | RS1/16S47R0D | R 4953 | (A,16,29)            | RS1/16S472J   |
|                   | R 4685 | (A,152,115) | RS1/16S47R0D | R 4954 | (A,16,34)            | RS1/16S472J   |
|                   | R 4686 | (A,185,113) | RS1/16S47R0D | R 4955 | (A,16,32)            | RS1/16S472J   |
| F                 | R 4687 | (A,155,118) | RS1/16S0R0J  | R 4956 | (B,16,43)            | RS1/16S102J   |
|                   | R 4688 | (A,156,121) | RS1/16S0R0J  | R 4957 | (B,16,41)            | RS1/16S102J   |
|                   | R 4689 | (A,157,118) | RS1/16S0R0J  | R 4958 | (B,12,38)            | RS1/16S102J   |
|                   | R 4690 | (A,158,121) | RS1/16S0R0J  | R 4959 | (B,14,46)            | RS1/16S103J   |
|                   | R 4691 | (A,159,118) | RS1/16S0R0J  |        |                      |               |
| <b>CAPACITORS</b> |        |             |              |        |                      |               |
|                   | R 4692 | (A,161,118) | RS1/16S0R0J  | C 2001 | (A,24,78) 47 µF/25 V | CCH1643       |
|                   | R 4693 | (A,164,118) | RS1/16S47R0D | C 2002 | (B,20,79)            | CKSRYB104K16  |
|                   | R 4694 | (A,165,121) | RS1/16S47R0D | C 2003 | (A,11,73)            | CKSRYB104K16  |
|                   | R 4695 | (A,166,118) | RS1/16S47R0D |        |                      |               |
|                   | R 4696 | (A,167,121) | RS1/16S47R0D |        |                      |               |

| 5                             |                        | 6               |  | 7                             |                        | 8               |  |   |
|-------------------------------|------------------------|-----------------|--|-------------------------------|------------------------|-----------------|--|---|
| <u>Circuit Symbol and No.</u> |                        | <u>Part No.</u> |  | <u>Circuit Symbol and No.</u> |                        | <u>Part No.</u> |  |   |
| C 2004                        | (A,16,77)              | CASA100M6R3     |  | C 2357                        | (B,17,141)             | CKSQYB104K50    |  |   |
| C 2005                        | (A,13,68)              | CFHXSP683J16    |  | C 2358                        | (B,26,141)             | CKSQYB104K50    |  |   |
| C 2006                        | (A,12,63)              | CFHXSQ822G16    |  | C 2361                        | (A,104,143) 47 µF/25 V | CCH1544         |  | A |
| C 2007                        | (A,31,63)              | CCSRCH220D50    |  | C 2362                        | (A,124,135) 47 µF/25 V | CCH1544         |  |   |
| C 2008                        | (A,31,60)              | CCSRCH220D50    |  | C 2363                        | (A,124,143) 47 µF/25 V | CCH1544         |  |   |
| C 2009                        | (B,18,64)              | CKSRYB102K50    |  | C 2364                        | (A,73,143) 47 µF/25 V  | CCH1544         |  |   |
| C 2010                        | (B,26,62)              | CKSRYB104K16    |  | C 2365                        | (A,93,135) 47 µF/25 V  | CCH1544         |  |   |
| C 2011                        | (B,21,62)              | CKSRYB104K16    |  | C 2366                        | (A,93,143) 47 µF/25 V  | CCH1544         |  |   |
| C 2201                        | (B,75,98)              | CKSRYB103K50    |  | C 2367                        | (A,42,143) 47 µF/25 V  | CCH1544         |  |   |
| C 2202                        | (B,83,98)              | CKSRYB103K50    |  | C 2368                        | (A,62,135) 47 µF/25 V  | CCH1544         |  |   |
| C 2203                        | (A,90,114) 22 µF/16 V  | CCH1551         |  | C 2369                        | (A,62,143) 47 µF/25 V  | CCH1544         |  |   |
| C 2204                        | (B,86,115)             | CKSRYB104K16    |  | C 2370                        | (A,11,143) 47 µF/25 V  | CCH1544         |  |   |
| C 2205                        | (A,84,106)             | CKSRYB104K16    |  | C 2371                        | (A,31,135) 47 µF/25 V  | CCH1544         |  |   |
| C 2206                        | (A,90,107)             | CASA470M10      |  | C 2372                        | (A,31,143) 47 µF/25 V  | CCH1544         |  | B |
| C 2207                        | (B,88,97)              | CKSRYB102K50    |  | C 2471                        | (A,153,173)            | CKSRYB104K16    |  |   |
| C 2251                        | (B,40,98)              | CKSRYB103K50    |  | C 2472                        | (A,153,169)            | CKSRYB104K16    |  |   |
| C 2252                        | (B,42,98)              | CKSRYB103K50    |  | C 2473                        | (A,151,166)            | CKSRYB104K16    |  |   |
| C 2253                        | (A,34,112)             | CASA470M10      |  | C 2474                        | (A,153,162)            | CKSRYB104K16    |  |   |
| C 2254                        | (A,35,108)             | CKSRYB104K16    |  | C 2475                        | (A,151,161)            | CKSRYB104K16    |  |   |
| C 2255                        | (A,45,110)             | CKSRYB104K16    |  | C 2477                        | (A,169,170)            | CKSRYB104K16    |  |   |
| C 2256                        | (A,43,116) 22 µF/16 V  | CCH1551         |  | C 2478                        | (A,178,171)            | CKSRYB104K16    |  |   |
| C 2257                        | (B,34,99)              | CKSRYB102K50    |  | C 2479                        | (A,166,160)            | CEAT101M16      |  |   |
| C 2302                        | (A,124,128) 22 µF/16 V | CCH1551         |  | C 2480                        | (A,183,159)            | CEAT101M16      |  |   |
| C 2304                        | (A,93,128) 22 µF/16 V  | CCH1551         |  | C 2481                        | (A,153,151)            | CKSRYB104K16    |  |   |
| C 2306                        | (A,62,128) 22 µF/16 V  | CCH1551         |  | C 2482                        | (A,149,149)            | CEAT101M16      |  | C |
| C 2308                        | (A,31,128) 22 µF/16 V  | CCH1551         |  | C 2501                        | (A,103,163) 47 µF/25 V | CCH1544         |  |   |
| C 2311                        | (B,112,141)            | CKSQYB104K50    |  | C 2502                        | (A,118,163) 47 µF/25 V | CCH1544         |  |   |
| C 2312                        | (B,122,128)            | CKSRYB104K16    |  | C 2503                        | (A,72,163) 47 µF/25 V  | CCH1544         |  |   |
| C 2313                        | (B,81,141)             | CKSQYB104K50    |  | C 2504                        | (A,87,163) 47 µF/25 V  | CCH1544         |  |   |
| C 2314                        | (B,91,128)             | CKSRYB104K16    |  | C 2505                        | (A,41,163) 47 µF/25 V  | CCH1544         |  |   |
| C 2315                        | (B,50,141)             | CKSQYB104K50    |  | C 2506                        | (A,56,163) 47 µF/25 V  | CCH1544         |  |   |
| C 2316                        | (B,59,128)             | CKSRYB104K16    |  | C 2507                        | (A,10,163) 47 µF/25 V  | CCH1544         |  |   |
| C 2317                        | (B,19,141)             | CKSQYB104K50    |  | C 2508                        | (A,25,163) 47 µF/25 V  | CCH1544         |  |   |
| C 2318                        | (B,28,128)             | CKSRYB104K16    |  | C 2511                        | (A,110,163) 47 µF/25 V | CCH1544         |  |   |
| C 2322                        | (A,115,130)            | CASA470M10      |  | C 2512                        | (A,126,163) 47 µF/25 V | CCH1544         |  |   |
| C 2324                        | (A,84,130)             | CASA470M10      |  | C 2513                        | (A,79,163) 47 µF/25 V  | CCH1544         |  | D |
| C 2326                        | (A,53,130)             | CASA470M10      |  | C 2514                        | (A,95,163) 47 µF/25 V  | CCH1544         |  |   |
| C 2328                        | (A,22,130)             | CASA470M10      |  | C 2515                        | (A,48,163) 47 µF/25 V  | CCH1544         |  |   |
| C 2329                        | (B,113,130)            | CKSRYB104K16    |  | C 2516                        | (A,64,163) 47 µF/25 V  | CCH1544         |  |   |
| C 2330                        | (B,117,130)            | CKSRYB104K16    |  | C 2517                        | (A,17,163) 47 µF/25 V  | CCH1544         |  |   |
| C 2331                        | (A,119,133)            | CKSRYB102K50    |  | C 2518                        | (A,33,163) 47 µF/25 V  | CCH1544         |  |   |
| C 2332                        | (B,83,130)             | CKSRYB104K16    |  | C 2521                        | (A,101,150)            | CKSQYB104K50    |  |   |
| C 2333                        | (B,86,130)             | CKSRYB104K16    |  | C 2522                        | (B,121,150)            | CKSQYB104K50    |  |   |
| C 2334                        | (A,88,133)             | CKSRYB102K50    |  | C 2523                        | (A,70,150)             | CKSQYB104K50    |  |   |
| C 2335                        | (B,52,130)             | CKSRYB104K16    |  | C 2524                        | (B,91,150)             | CKSQYB104K50    |  |   |
| C 2336                        | (B,55,130)             | CKSRYB104K16    |  | C 2525                        | (A,39,150)             | CKSQYB104K50    |  | E |
| C 2337                        | (A,57,133)             | CKSRYB102K50    |  | C 2526                        | (B,60,150)             | CKSQYB104K50    |  |   |
| C 2338                        | (B,21,130)             | CKSRYB104K16    |  | C 2527                        | (A,7,150)              | CKSQYB104K50    |  |   |
| C 2339                        | (B,24,130)             | CKSRYB104K16    |  | C 2528                        | (B,29,150)             | CKSQYB104K50    |  |   |
| C 2340                        | (A,26,133)             | CKSRYB102K50    |  | C 2529                        | (A,100,153)            | CCSQCH221J50    |  |   |
| C 2341                        | (A,104,135) 47 µF/25 V | CCH1544         |  | C 2530                        | (A,113,151)            | CCSQCH221J50    |  |   |
| C 2342                        | (A,73,135) 47 µF/25 V  | CCH1544         |  | C 2531                        | (B,117,153)            | CCSQCH221J50    |  |   |
| C 2343                        | (A,42,135) 47 µF/25 V  | CCH1544         |  | C 2532                        | (A,128,151)            | CCSQCH221J50    |  |   |
| C 2344                        | (A,11,135) 47 µF/25 V  | CCH1544         |  | C 2533                        | (A,69,153)             | CCSQCH221J50    |  |   |
| C 2351                        | (B,110,141)            | CKSQYB104K50    |  | C 2534                        | (A,82,151)             | CCSQCH221J50    |  |   |
| C 2352                        | (B,120,141)            | CKSQYB104K50    |  | C 2535                        | (B,86,153)             | CCSQCH221J50    |  |   |
| C 2353                        | (B,78,141)             | CKSQYB104K50    |  | C 2536                        | (A,97,151)             | CCSQCH221J50    |  | F |
| C 2354                        | (B,89,141)             | CKSQYB104K50    |  | C 2537                        | (A,38,153)             | CCSQCH221J50    |  |   |
| C 2355                        | (B,48,141)             | CKSQYB104K50    |  | C 2538                        | (A,51,151)             | CCSQCH221J50    |  |   |
| C 2356                        | (B,57,141)             | CKSQYB104K50    |  | C 2539                        | (B,55,153)             | CCSQCH221J50    |  |   |

**Circuit Symbol and No.****Part No.****Circuit Symbol and No.****Part No.**

C 2540 (A,66,151)  
C 2541 (A,7,153)

CCSQCH221J50  
CCSQCH221J50

C 3048 (A,52,62)  
C 3049 (A,54,68)

CKSBYB104K16  
CKSBYB104K16

A C 2542 (A,20,151)  
C 2543 (B,24,153)  
C 2544 (A,35,151)  
C 2551 (A,107,156)  
C 2552 (A,122,156)

CCSQCH221J50  
CCSQCH221J50  
CCSQCH221J50  
CKSQYB104K50  
CKSQYB104K50

C 3050 (A,52,68)  
C 3051 (A,59,103)  
C 3052 (A,59,101)  
C 3053 (A,59,96)  
C 3054 (A,59,94)

CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16

C 2553 (A,76,156)  
C 2554 (A,91,156)  
C 2555 (A,45,156)  
C 2556 (A,60,156)  
C 2557 (A,14,156)

CKSQYB104K50  
CKSQYB104K50  
CKSQYB104K50  
CKSQYB104K50  
CKSQYB104K50

C 3055 (A,64,113)  
C 3056 (A,66,113)  
C 3057 (A,56,113)  
C 3058 (A,58,113)  
C 3061 (A,98,98)

CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB103K50

B C 2558 (A,29,156)  
C 2559 (A,104,157)  
C 2560 (A,111,158)  
C 2561 (A,116,157)  
C 2562 (A,124,158)

CKSQYB104K50  
CFHXSQ221J50  
CFHXSQ221J50  
CFHXSQ221J50  
CFHXSQ221J50

C 3062 (B,100,118)  
C 3065 (A,92,96)  
C 3201 (B,58,38)  
C 3202 (B,56,38)  
C 3203 (B,50,38)

CKSBYB103K50  
CKSBYB103K50  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16

C 2563 (A,73,157)  
C 2564 (A,79,158)  
C 2565 (A,85,157)  
C 2566 (A,94,158)  
C 2567 (A,42,157)

CFHXSQ221J50  
CFHXSQ221J50  
CFHXSQ221J50  
CFHXSQ221J50  
CFHXSQ221J50

C 3204 (B,45,38)  
C 3205 (B,43,38)  
C 3206 (B,41,33)  
C 3207 (B,43,28)  
C 3208 (B,45,28)

CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16

C 2568 (A,49,158)  
C 2569 (A,54,157)  
C 2570 (A,62,158)  
C 2571 (A,11,157)  
C 2572 (A,18,158)

CFHXSQ221J50  
CFHXSQ221J50  
CFHXSQ221J50  
CFHXSQ221J50  
CFHXSQ221J50

C 3209 (B,47,28)  
C 3210 (B,49,28)  
C 3211 (B,51,28)  
C 3212 (B,53,28)  
C 3213 (B,57,34)

CKSBYB102K50  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB103K50

C 2573 (A,23,157)  
C 2574 (A,33,158)  
C 2602 (B,109,81)  
C 3007 (A,99,103)  
C 3008 (A,101,103)

CFHXSQ221J50  
CFHXSQ221J50  
CKSBYB104K16  
CKSBYB105K10  
CKSBYB103K50

C 3221 (A,37,53)  
C 3222 (B,37,59)  
C 3223 (B,43,61)  
C 3224 (A,44,56)  
C 3231 (A,26,23)

CASA100M6R3  
CKSBYB104K16  
CKSBYB104K16  
CEAT101M16  
CKSBYB104K16

C 3009 (A,103,97)  
C 3011 (A,109,98)  
C 3013 (A,102,100)  
C 3014 (A,106,105)  
C 3015 (A,154,140) 470  $\mu$ F/10 V

CFHXS473J16  
CCSRUJ110J50  
CKSBYB103K50  
CASA330M10  
CCH1341

C 4001 (A,89,77)  
C 4002 (B,88,74)  
C 4003 (B,80,74)  
C 4004 (A,77,77)  
C 4005 (A,112,68)

CEJQ470M10  
CKSBYB104K16  
CKSBYB104K16  
CASA470M10  
CKSBYB103K50

C 3017 (A,120,92)  
C 3018 (A,134,105)  
C 3019 (A,118,93)  
C 3020 (A,122,92)  
C 3021 (A,118,106)

CCSRCH4R0C50  
CKSBYB103K50  
CCSRCH470J50  
CCSRCH330J50  
CKSBYB103K50

C 4006 (B,104,60)  
C 4007 (B,101,60)  
C 4009 (B,95,60)  
C 4011 (B,92,60)  
C 4012 (B,88,60)

CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50

C 3022 (A,113,105)  
C 3023 (A,129,92)  
C 3024 (A,128,97)  
C 3025 (B,121,100)  
C 3026 (A,131,109)

CASA330M10  
CKSBYB103K50  
CASA330M10  
CKSBYB103K50  
CKSBYB103K50

C 4013 (B,86,60)  
C 4014 (B,83,56)  
C 4015 (B,106,59)  
C 4016 (B,86,56)  
C 4018 (B,106,54)

CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50

C 3027 (A,54,79)  
C 3030 (A,52,79)  
C 3033 (A,54,73)  
C 3036 (A,52,73)  
C 3039 (A,26,87)

CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16

C 4020 (B,86,51)  
C 4021 (B,106,50)  
C 4022 (B,107,43)  
C 4023 (B,86,46)  
C 4024 (B,109,43)

CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50

C 3040 (A,24,87)  
C 3041 (A,26,103)  
C 3042 (A,24,103)  
C 3043 (A,26,92)  
C 3044 (A,24,92)

CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16

C 4025 (B,90,46)  
C 4026 (B,88,46)  
C 4027 (B,107,39)  
C 4029 (B,105,39)  
C 4030 (B,102,39)

CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50

C 3045 (A,26,97)  
C 3046 (A,24,97)  
C 3047 (A,54,62)

CKSBYB104K16  
CKSBYB104K16  
CKSBYB104K16

C 4032 (B,98,39)  
C 4034 (B,94,39)  
C 4035 (B,92,39)

CKSBYB103K50  
CKSBYB103K50  
CKSBYB103K50

| 5                             |            | 6               |  | 7                             |             | 8               |  |   |
|-------------------------------|------------|-----------------|--|-------------------------------|-------------|-----------------|--|---|
| <u>Circuit Symbol and No.</u> |            | <u>Part No.</u> |  | <u>Circuit Symbol and No.</u> |             | <u>Part No.</u> |  |   |
| C 4036                        | (B,88,39)  | CKSRYB103K50    |  | C 4342                        | (B,203,42)  | CKSRYB104K16    |  |   |
| C 4037                        | (B,86,39)  | CKSRYB103K50    |  | C 4343                        | (B,203,38)  | CKSRYB104K16    |  |   |
| C 4038                        | (A,118,34) | CKSRYB102K50    |  | C 4344                        | (B,203,33)  | CKSRYB104K16    |  | A |
| C 4039                        | (B,131,45) | CKSRYB104K16    |  | C 4345                        | (B,161,23)  | CKSRYB104K16    |  |   |
| C 4040                        | (B,135,39) | CKSRYB104K16    |  | C 4346                        | (B,156,23)  | CKSRYB104K16    |  |   |
| C 4041                        | (B,133,51) | CKSRYB104K16    |  | C 4347                        | (B,175,15)  | CKSRYB104K16    |  |   |
| C 4042                        | (B,133,45) | CKSRYB104K16    |  | C 4348                        | (B,161,15)  | CKSRYB104K16    |  |   |
| C 4043                        | (B,133,39) | CKSRYB104K16    |  | C 4349                        | (B,156,15)  | CKSRYB104K16    |  |   |
| C 4044                        | (B,131,39) | CKSRYB104K16    |  | C 4350                        | (B,154,15)  | CKSRYB104K16    |  |   |
| C 4045                        | (B,93,23)  | CKSRYB104K16    |  | C 4351                        | (B,179,48)  | CKSRYB103K50    |  |   |
| C 4046                        | (B,90,23)  | CKSRYB104K16    |  | C 4451                        | (A,200,21)  | CEJQ470M10      |  |   |
| C 4047                        | (A,106,15) | CKSRYB104K16    |  | C 4452                        | (B,197,21)  | CKSRYB104K16    |  |   |
| C 4048                        | (B,93,14)  | CKSRYB104K16    |  | C 4453                        | (B,195,21)  | CKSRYB104K16    |  |   |
| C 4049                        | (B,90,14)  | CKSRYB104K16    |  | C 4454                        | (A,193,21)  | CASA470M10      |  | B |
| C 4050                        | (B,84,14)  | CKSRYB104K16    |  | C 4501                        | (A,203,63)  | CEJQ470M10      |  |   |
| C 4151                        | (A,138,22) | CEJQ470M10      |  | C 4502                        | (B,200,65)  | CKSRYB104K16    |  |   |
| C 4152                        | (B,134,20) | CKSRYB104K16    |  | C 4503                        | (A,182,22)  | CEJQ470M10      |  |   |
| C 4153                        | (B,132,19) | CKSRYB104K16    |  | C 4504                        | (B,186,23)  | CKSRYB104K16    |  |   |
| C 4154                        | (A,129,23) | CASA470M10      |  | C 4505                        | (B,198,65)  | CKSRYB104K16    |  |   |
| C 4201                        | (A,127,63) | CEJQ470M10      |  | C 4506                        | (A,195,63)  | CASA470M10      |  |   |
| C 4202                        | (A,127,58) | CKSRYB104K16    |  | C 4507                        | (B,182,13)  | CKSRYB104K16    |  |   |
| C 4203                        | (A,113,21) | CEJQ470M10      |  | C 4508                        | (A,181,14)  | CASA470M10      |  |   |
| C 4204                        | (B,113,18) | CKSRYB104K16    |  | C 4601                        | (A,138,87)  | CEJQ470M10      |  |   |
| C 4205                        | (A,133,58) | CKSRYB104K16    |  | C 4602                        | (B,138,91)  | CKSRYB104K16    |  |   |
| C 4206                        | (A,136,63) | CASA470M10      |  | C 4603                        | (B,141,83)  | CKSRYB104K16    |  | C |
| C 4207                        | (B,113,14) | CKSRYB104K16    |  | C 4604                        | (A,139,80)  | CASA470M10      |  |   |
| C 4208                        | (A,113,14) | CASA470M10      |  | C 4605                        | (B,155,88)  | CKSRYB103K50    |  |   |
| C 4301                        | (A,127,71) | CEJQ470M10      |  | C 4606                        | (B,158,88)  | CKSRYB103K50    |  |   |
| C 4302                        | (B,127,67) | CKSRYB104K16    |  | C 4607                        | (B,163,89)  | CKSRYB103K50    |  |   |
| C 4303                        | (B,137,67) | CKSRYB104K16    |  | C 4609                        | (B,169,88)  | CKSRYB103K50    |  |   |
| C 4304                        | (A,136,71) | CASA470M10      |  | C 4611                        | (B,171,88)  | CKSRYB103K50    |  |   |
| C 4305                        | (B,178,61) | CKSRYB103K50    |  | C 4612                        | (B,176,88)  | CKSRYB103K50    |  |   |
| C 4306                        | (B,176,61) | CKSRYB103K50    |  | C 4613                        | (B,178,88)  | CKSRYB103K50    |  |   |
| C 4307                        | (B,174,61) | CKSRYB103K50    |  | C 4614                        | (B,181,89)  | CKSRYB103K50    |  |   |
| C 4309                        | (B,170,61) | CKSRYB103K50    |  | C 4615                        | (B,153,88)  | CKSRYB103K50    |  |   |
| C 4311                        | (B,162,61) | CKSRYB103K50    |  | C 4616                        | (B,178,93)  | CKSRYB103K50    |  | D |
| C 4312                        | (B,156,61) | CKSRYB103K50    |  | C 4618                        | (B,151,95)  | CKSRYB103K50    |  |   |
| C 4313                        | (B,152,62) | CKSRYB103K50    |  | C 4620                        | (B,181,98)  | CKSRYB103K50    |  |   |
| C 4315                        | (B,152,58) | CKSRYB103K50    |  | C 4621                        | (B,152,100) | CKSRYB103K50    |  |   |
| C 4316                        | (B,152,54) | CKSRYB103K50    |  | C 4622                        | (B,150,101) | CKSRYB103K50    |  |   |
| C 4318                        | (B,179,57) | CKSRYB103K50    |  | C 4623                        | (B,181,102) | CKSRYB103K50    |  |   |
| C 4320                        | (B,152,50) | CKSRYB103K50    |  | C 4624                        | (B,154,106) | CKSRYB103K50    |  |   |
| C 4321                        | (B,177,56) | CKSRYB103K50    |  | C 4625                        | (B,181,106) | CKSRYB103K50    |  |   |
| C 4322                        | (B,177,52) | CKSRYB103K50    |  | C 4626                        | (B,178,106) | CKSRYB103K50    |  |   |
| C 4323                        | (B,152,46) | CKSRYB103K50    |  | C 4627                        | (B,152,106) | CKSRYB103K50    |  |   |
| C 4324                        | (B,177,44) | CKSRYB103K50    |  | C 4629                        | (B,154,110) | CKSRYB103K50    |  |   |
| C 4325                        | (B,155,44) | CKSRYB103K50    |  | C 4630                        | (B,161,110) | CKSRYB103K50    |  | E |
| C 4326                        | (B,157,44) | CKSRYB103K50    |  | C 4632                        | (B,167,110) | CKSRYB103K50    |  |   |
| C 4327                        | (B,177,40) | CKSRYB103K50    |  | C 4633                        | (B,170,110) | CKSRYB103K50    |  |   |
| C 4329                        | (B,175,40) | CKSRYB103K50    |  | C 4635                        | (B,172,110) | CKSRYB103K50    |  |   |
| C 4330                        | (B,172,39) | CKSRYB103K50    |  | C 4636                        | (B,176,110) | CKSRYB103K50    |  |   |
| C 4332                        | (B,166,39) | CKSRYB103K50    |  | C 4637                        | (B,178,110) | CKSRYB103K50    |  |   |
| C 4334                        | (B,163,39) | CKSRYB103K50    |  | C 4638                        | (A,149,113) | CKSRYB102K50    |  |   |
| C 4335                        | (B,161,39) | CKSRYB103K50    |  | C 4639                        | (B,178,133) | CKSRYB104K16    |  |   |
| C 4336                        | (B,157,39) | CKSRYB103K50    |  | C 4640                        | (B,173,133) | CKSRYB104K16    |  |   |
| C 4337                        | (B,155,39) | CKSRYB103K50    |  | C 4641                        | (B,188,126) | CKSRYB104K16    |  |   |
| C 4338                        | (B,181,38) | CKSRYB102K50    |  | C 4642                        | (B,180,132) | CKSRYB104K16    |  | F |
| C 4339                        | (B,192,42) | CKSRYB104K16    |  | C 4643                        | (B,170,132) | CKSRYB104K16    |  |   |
| C 4340                        | (B,192,38) | CKSRYB104K16    |  | C 4644                        | (B,167,131) | CKSRYB104K16    |  |   |
| C 4341                        | (B,202,51) | CKSRYB104K16    |  | C 4645                        | (B,196,110) | CKSRYB104K16    |  |   |

Circuit Symbol and No.

Part No.

|   |        |             |              |
|---|--------|-------------|--------------|
|   | C 4646 | (B,198,105) | CKSRYB104K16 |
|   | C 4647 | (A,204,122) | CKSRYB104K16 |
| A | C 4648 | (B,199,110) | CKSRYB104K16 |
|   | C 4649 | (B,204,105) | CKSRYB104K16 |
|   | C 4650 | (B,200,100) | CKSRYB104K16 |
|   | C 4751 | (A,203,72)  | CEJQ470M10   |
|   | C 4752 | (B,200,87)  | CKSRYB104K16 |
|   | C 4753 | (B,195,87)  | CKSRYB104K16 |
|   | C 4754 | (A,195,72)  | CASA470M10   |
|   | C 4808 | (A,194,136) | CEJQ470M10   |
|   | C 4809 | (B,194,133) | CKSRYB104K16 |
|   | C 4810 | (A,202,136) | CEJQ470M10   |
| B | C 4811 | (B,203,133) | CKSRYB104K16 |
|   | C 4812 | (B,194,129) | CKSRYB104K16 |
|   | C 4813 | (A,194,129) | CASA470M10   |
|   | C 4814 | (B,202,129) | CKSRYB104K16 |
|   | C 4815 | (A,202,129) | CASA470M10   |
|   | C 4901 | (A,130,87)  | CASA470M10   |
|   | C 4902 | (B,130,86)  | CKSRYB104K16 |
|   | C 4903 | (B,130,81)  | CKSRYB104K16 |
|   | C 4904 | (A,130,80)  | CASA470M10   |
|   | C 4905 | (A,114,81)  | CKSRYB104K16 |
| C | C 4906 | (A,123,87)  | CCSRCH180J50 |
|   | C 4907 | (A,112,86)  | CCSRCH220D50 |
|   | C 4912 | (A,124,79)  | CKSRYB104K16 |
|   | C 4951 | (A,9,53)    | CKSRYB104K16 |
|   | C 4952 | (A,9,51)    | CKSRYB104K16 |
|   | C 4954 | (B,13,17)   | CKSRYB104K16 |
|   | C 4955 | (B,14,47)   | CKSRYB104K16 |

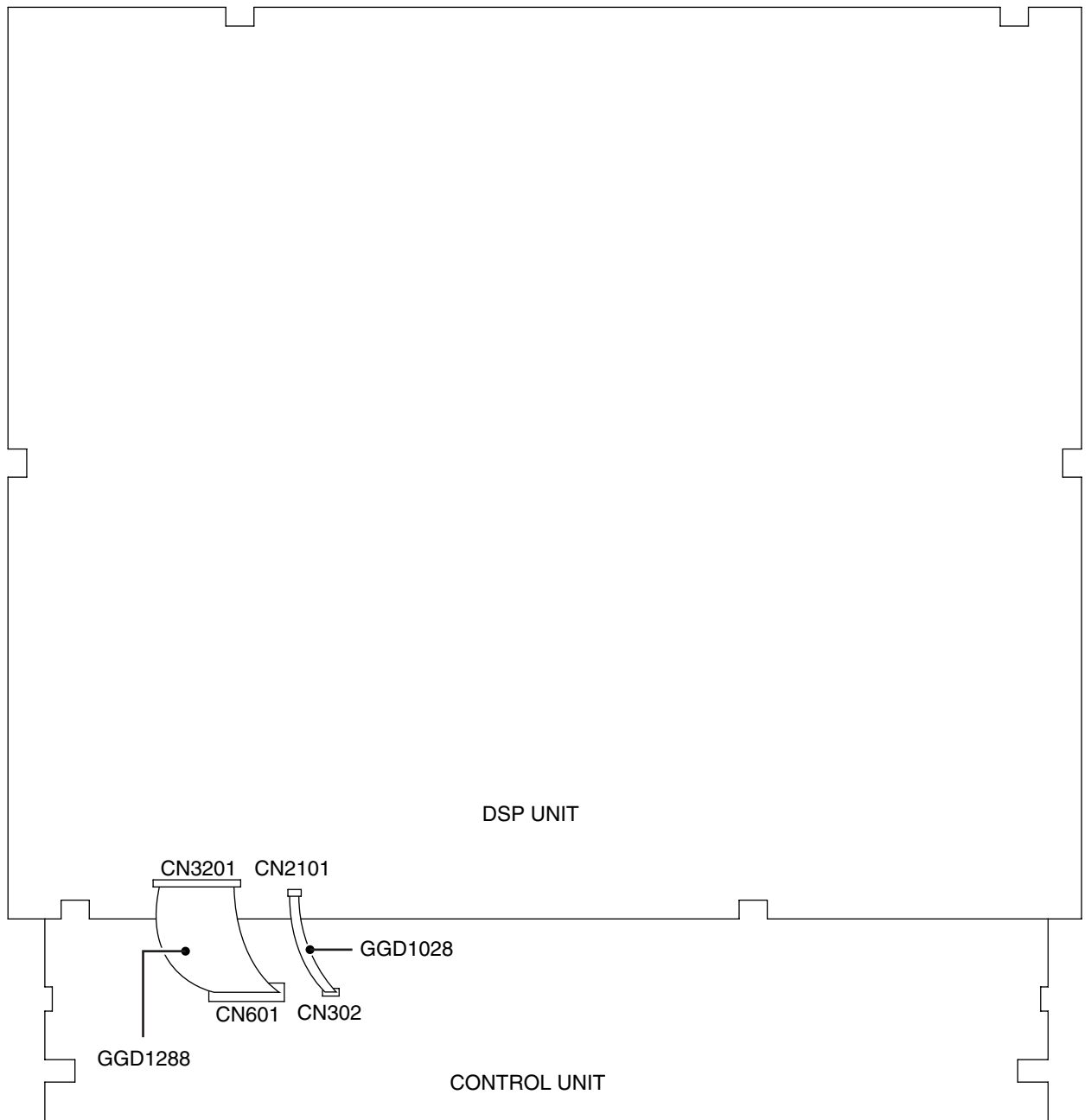
D

E

F

## 6. ADJUSTMENT

### 6.1 JIG CONNECTION DIAGRAM



1234

6.2 MASTER CLOCK ADJUSTMENT



A

● Master clock adjustment

The adjustment for service should be served in the product condition, instead of in the unit condition.  
(Otherwise, it would require jigs.)  
Remove the top case, front panel and the shield case of the DSP unit so that the A side of the DSP unit is visible to adjust.  
Adjustment is done by using the trimmer capacitor:

For adjusting master clock --- TC3001

B

(Measuring instruments to be used)  
Frequency counter or high-frequency probe

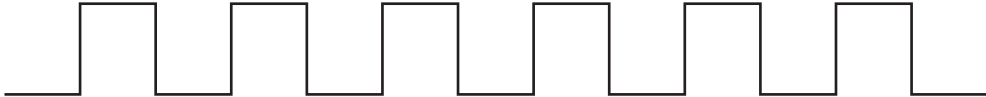
(Adjustment Requirements)  
Operate the product in the following requirements and make adjustment within 3 or 4 minutes from the start of such operation.

| No. | Item         | Rated Value        | Requirements                                                                |
|-----|--------------|--------------------|-----------------------------------------------------------------------------|
| 1   | Master clock | 24.576 MHz ± 20 Hz | Set volume value of Main Unit to -72 dB and reproduce CD without recording. |

C

(The measuring points for adjusting master clock)  
TP3005 or its equivalent land and TP3002 or its equivalent GND

(Waveform Confirmation for Adjustment)  
Waveform confirmation is required since the waveform may be deformed according to the type of probe to be used when adjusting master clock.  
The waveform is basically a rectangular wave of 0 --- 3.3 V (24.576 MHz).



## 7. GENERAL INFORMATION

### 7.1 DIAGNOSIS

#### 7.1.1 DISASSEMBLY

##### ● Removing the Panel (Fig.1)

- 1** Remove the six screws and then remove the two Panels.



Fig.1

##### ● Removing the Holder (Fig.2)

- 1** Remove the screw and then remove the Holder.

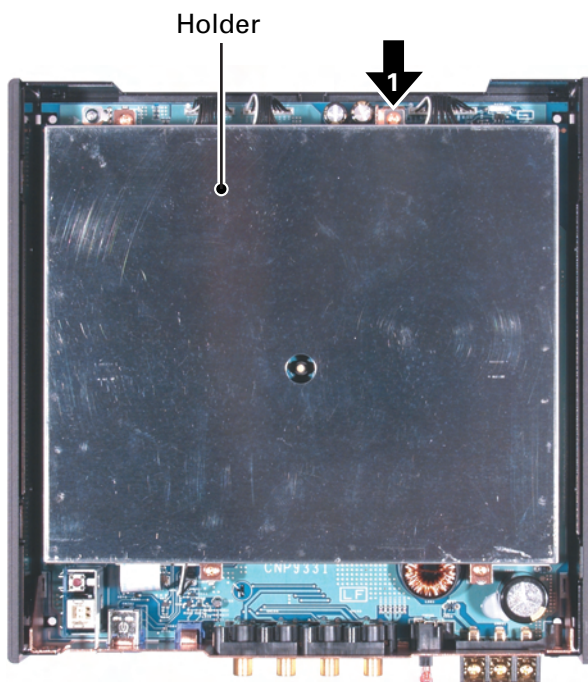


Fig.2

### ● Removing the DSP Unit (Fig.3)

A

**1** Disconnect the five connectors.

B

**2** Remove the three screws and then remove the DSP Unit.

C

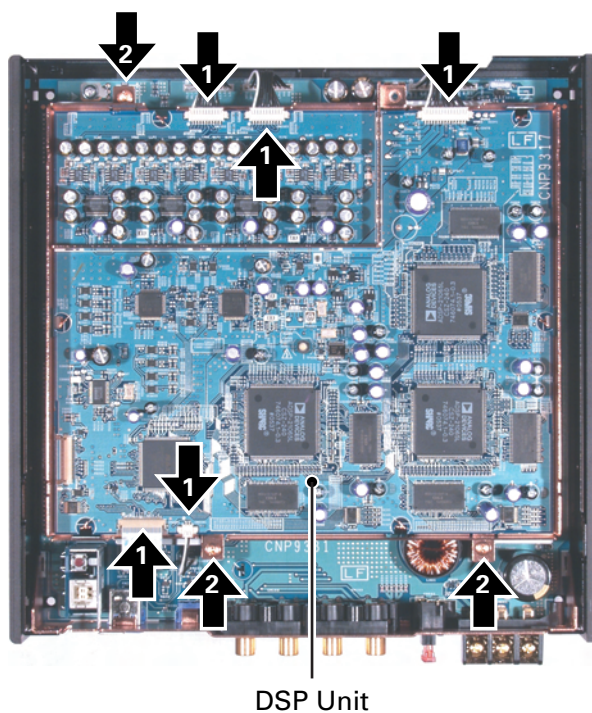


Fig.3

### ● Removing the Control Unit (Fig.4)

D

**1** Straighten the tabs at four locations indicated.

E

**2** Remove the three screws and then remove the Control Unit.

F

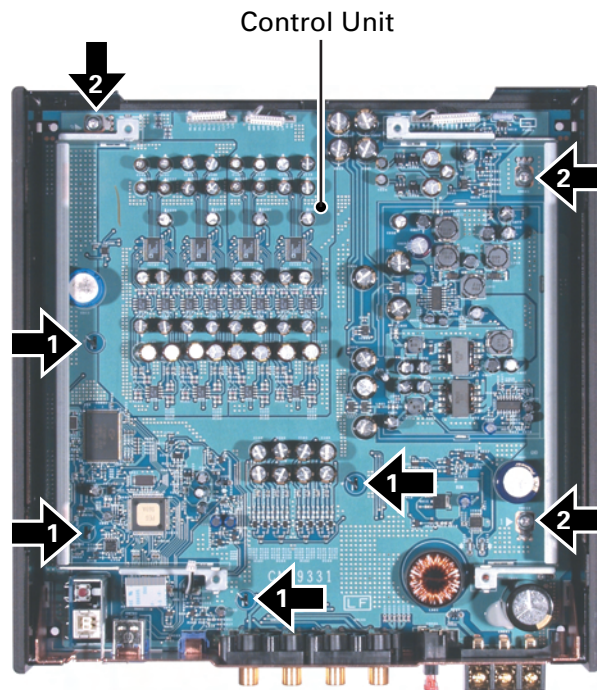
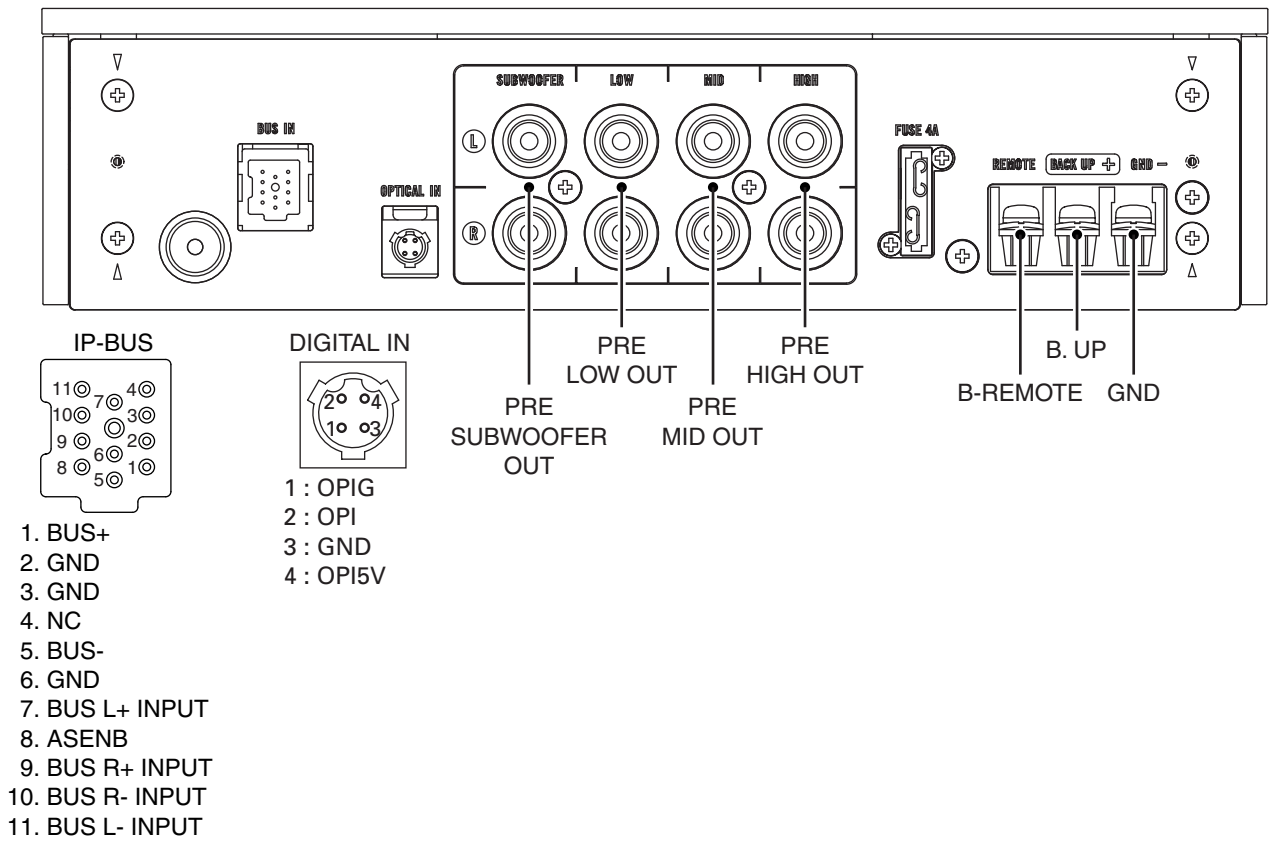


Fig.4

## 7.1.2 CONNECTOR FUNCTION DESCRIPTION

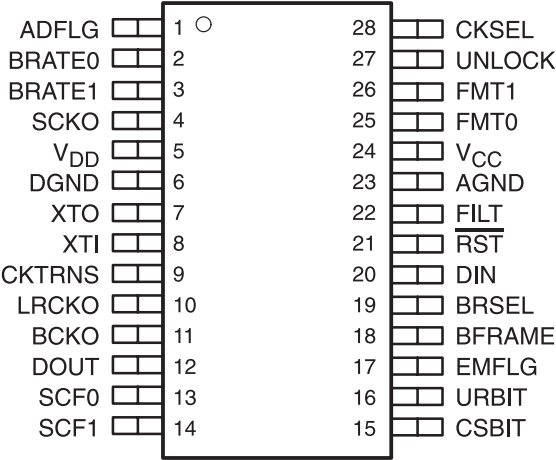


7.2 IC

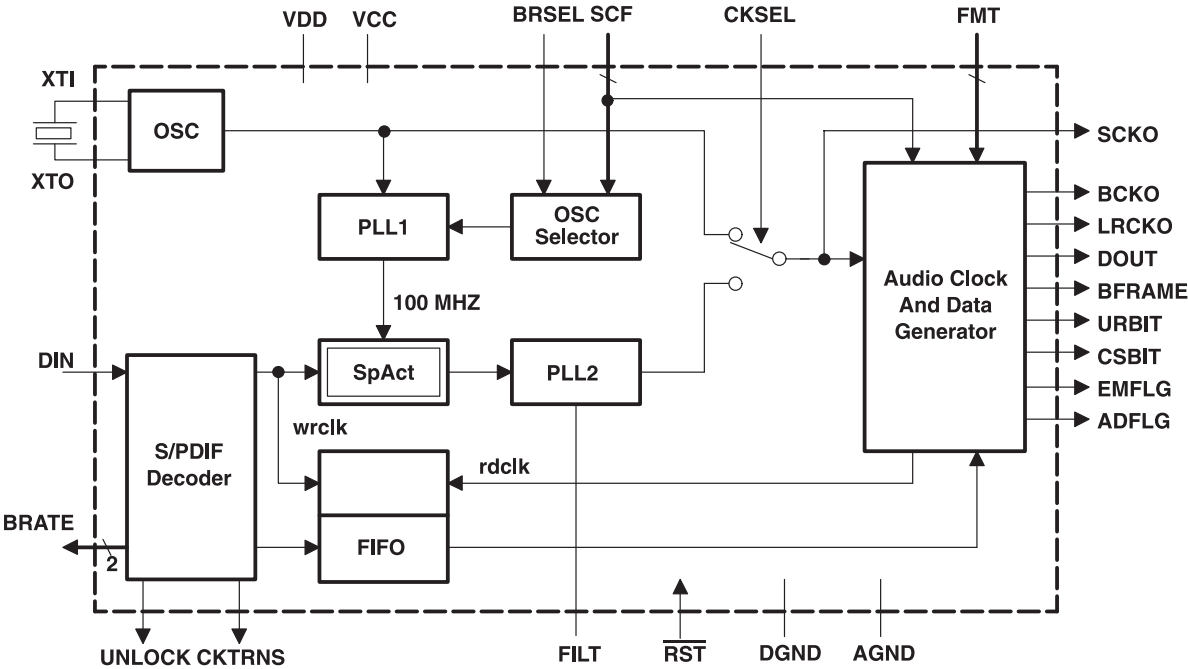
|                |                    |
|----------------|--------------------|
| DIR1703ES1     | EPF6016ATI144-3S1  |
| SRC4184IPAG    | ADSP-21065LCS240S1 |
| PCM1798DB      | AD7564BRS          |
| LT1358CS8      | PEG169A            |
| NJM431U        | HA12241FP          |
| TC7WZ34FU      | TC7SET04FUS1       |
| TC7SZU04FU     | S-812C33AMC-C2N    |
| TC7SH04FUS1    | CY7C68013A-100AXC  |
| TC7SH32FUS1    | TA79L12F           |
| TC74LCX541FTS1 |                    |
| TC74VHC541FTS1 |                    |
| TC74VHC08FTS1  |                    |

DIR1703ES1

Pin Arrangement Chart

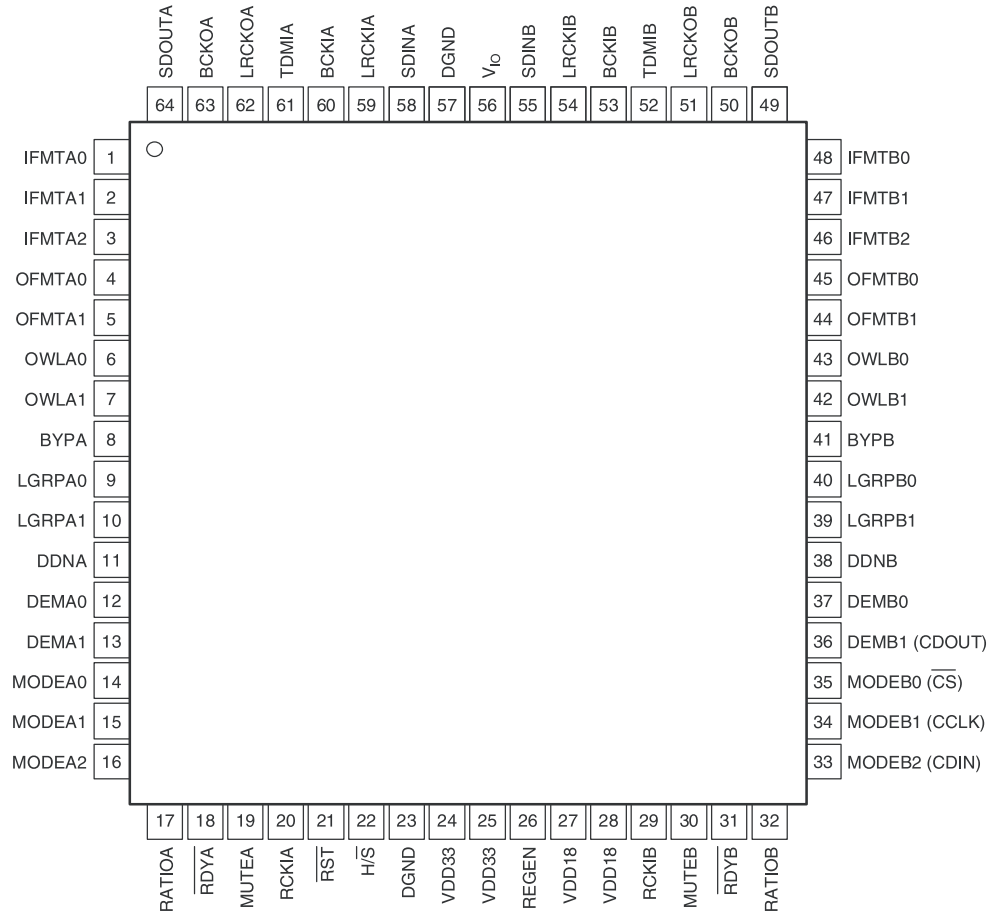


Block Diagram Chart

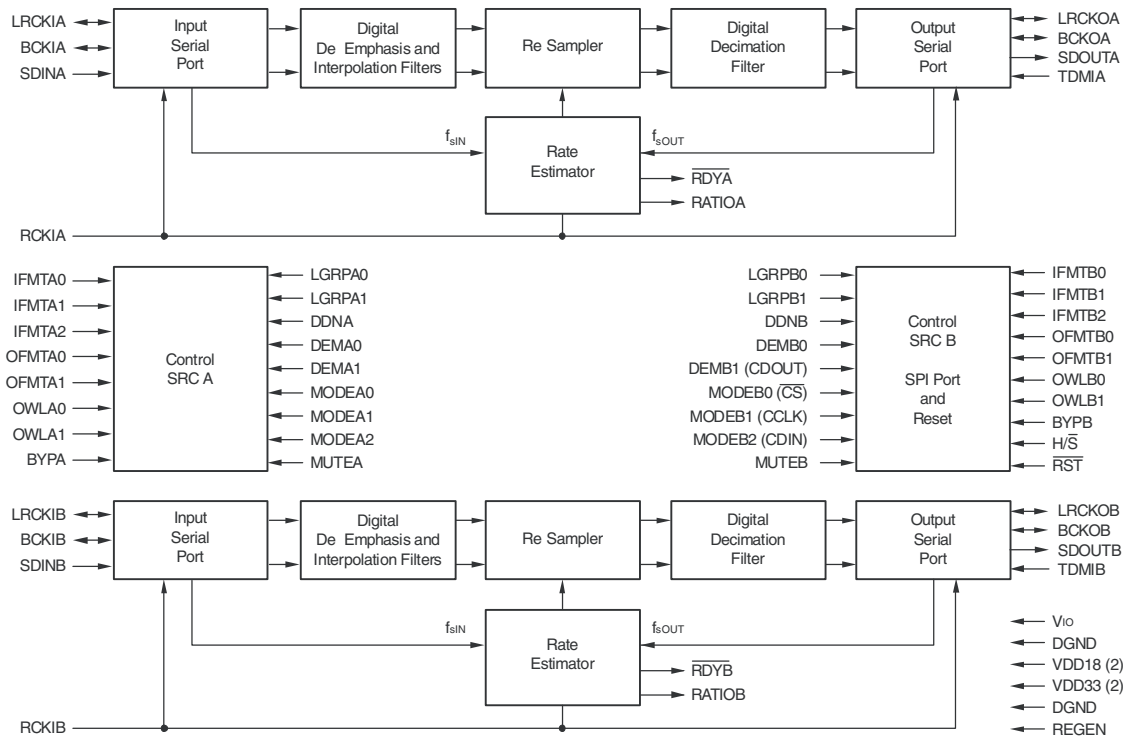


## SRC4184IPAG

## ● Pin Arrangement Chart

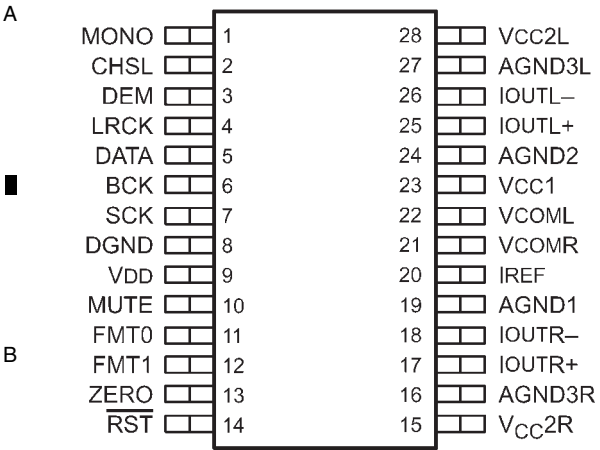


## ● Block Diagram Chart

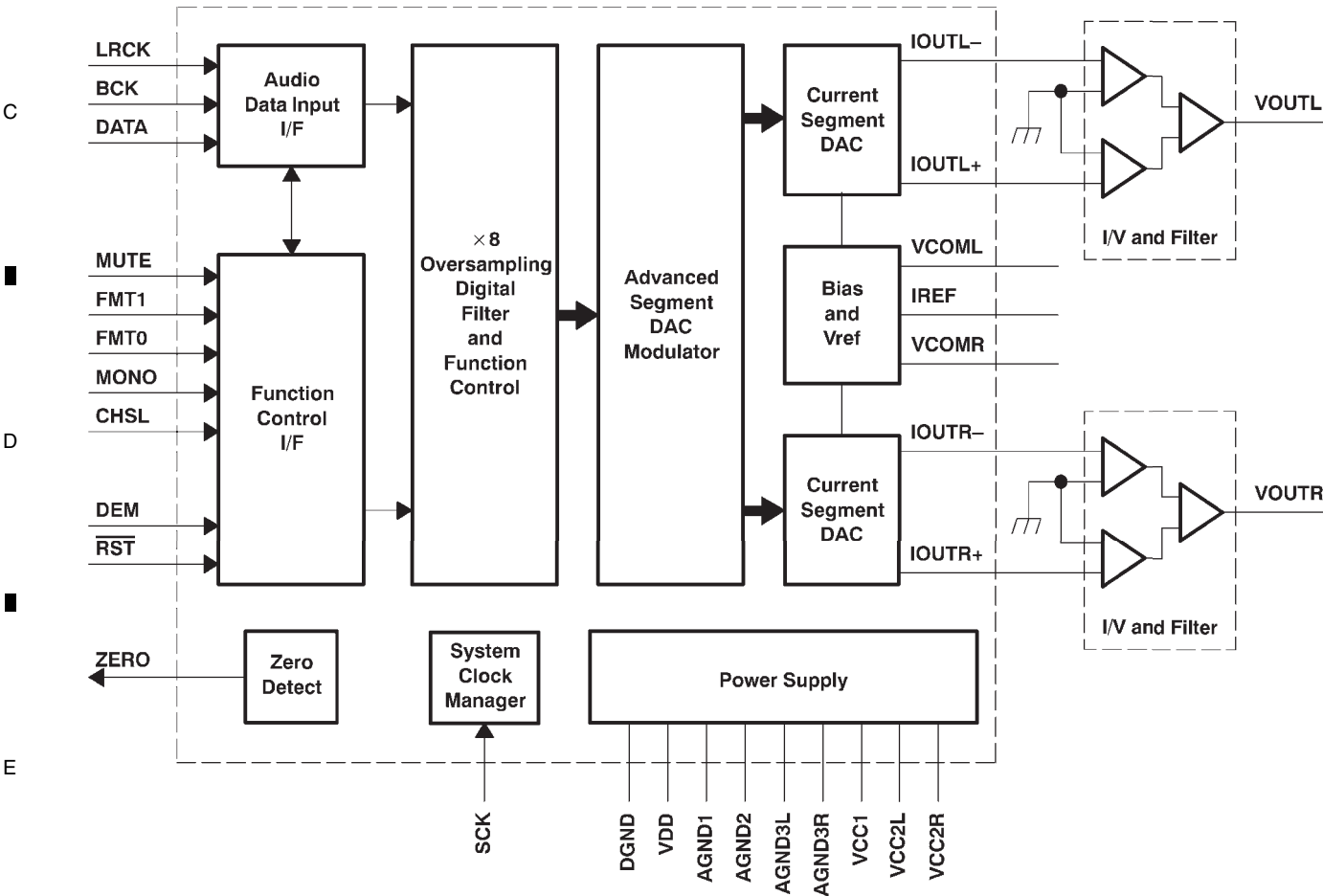


PCM1798DB

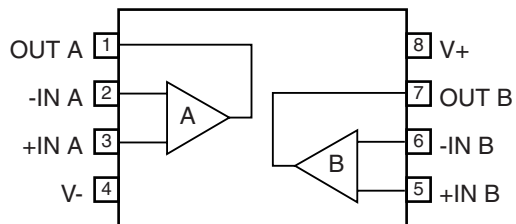
● Pin Arrangement Chart



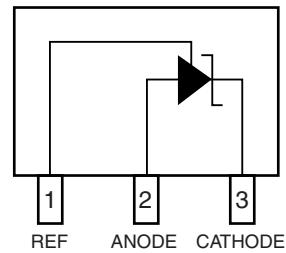
● Block Diagram Chart



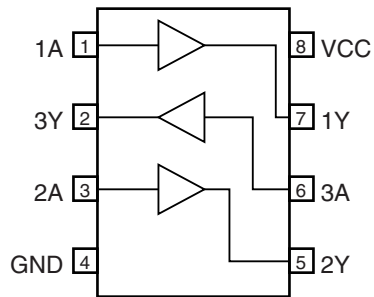
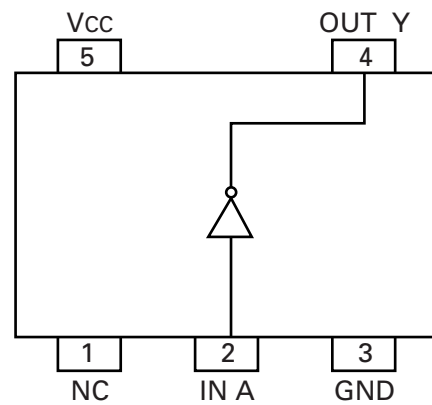
LT1358CS8



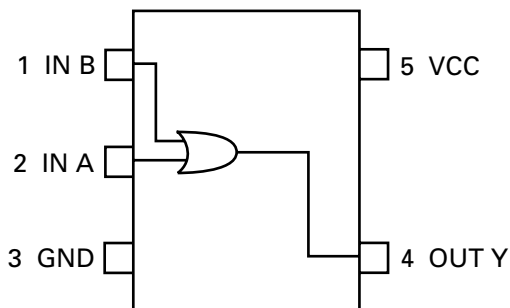
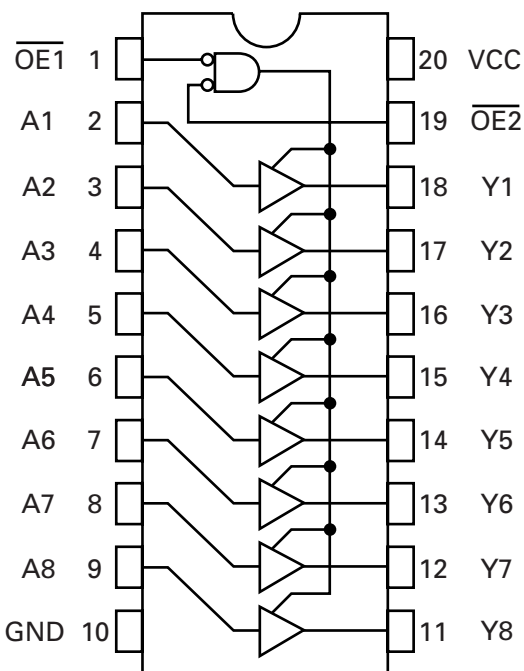
NJM431U



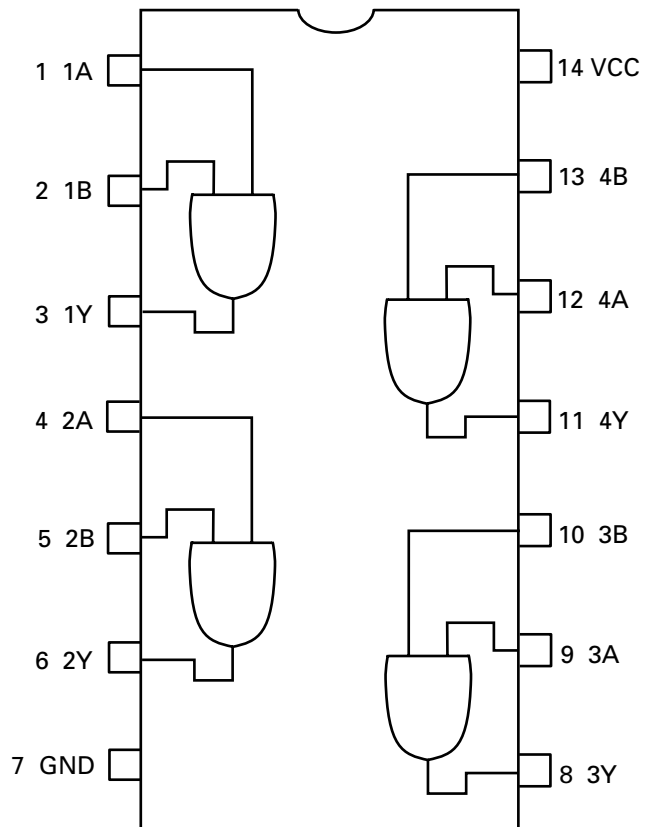
TC7WZ34FU

TC7SZU04FU  
TC7SH04FUS1

TC7SH32FUS1

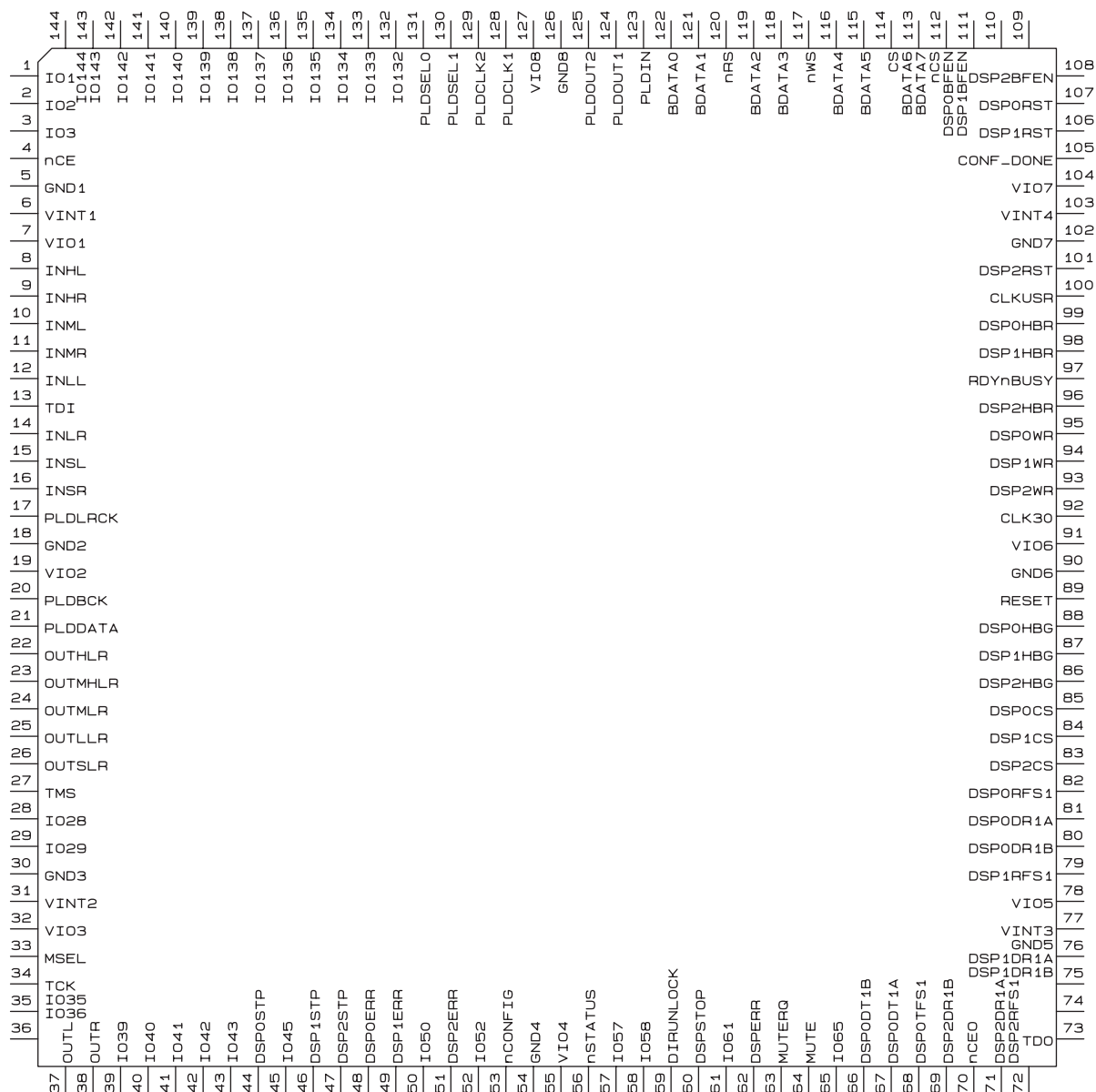
TC74LCX541FTS1  
TC74VHC541FTS1

TC74VHC08FTS1

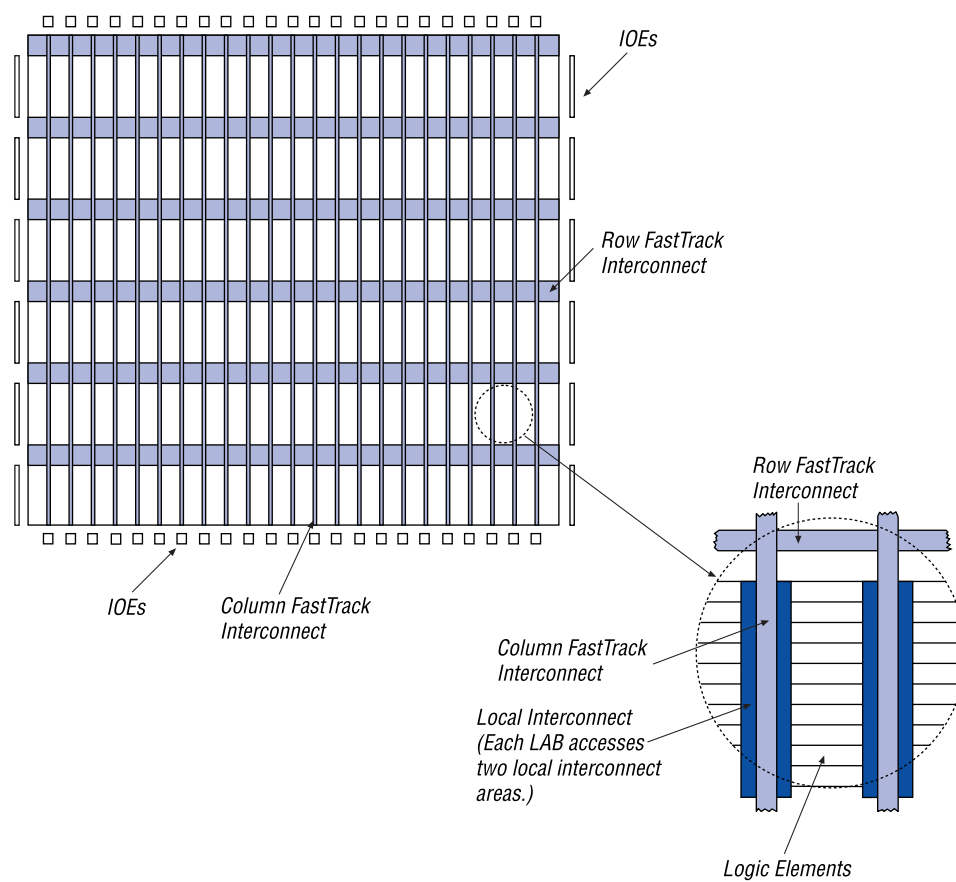


### ● Pin Arrangement Chart

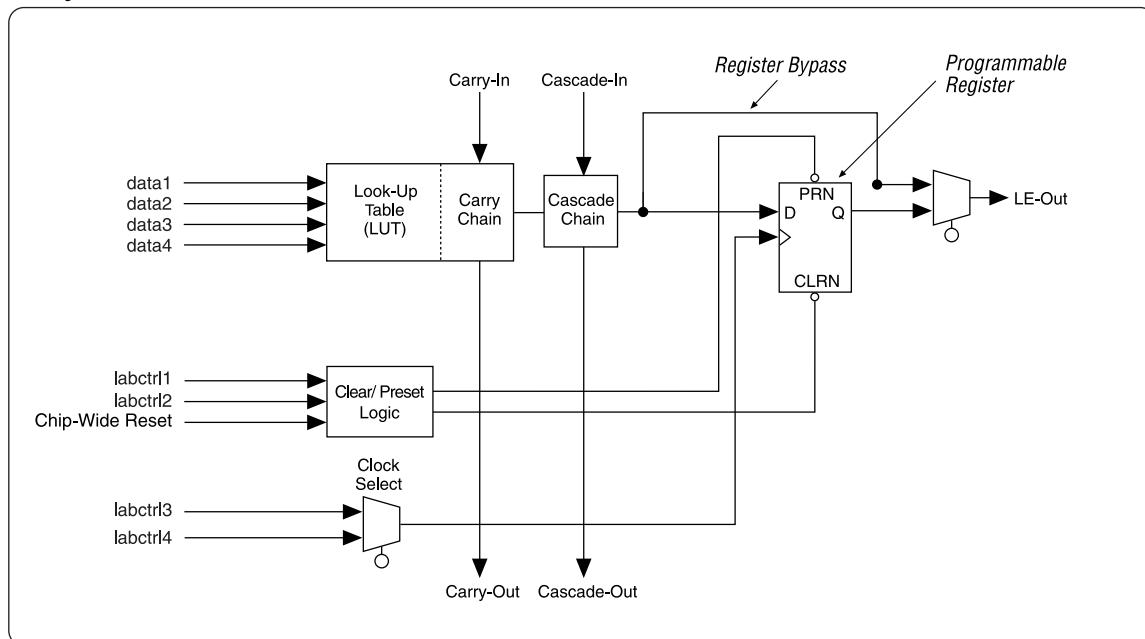
F



● Block Diagram Chart

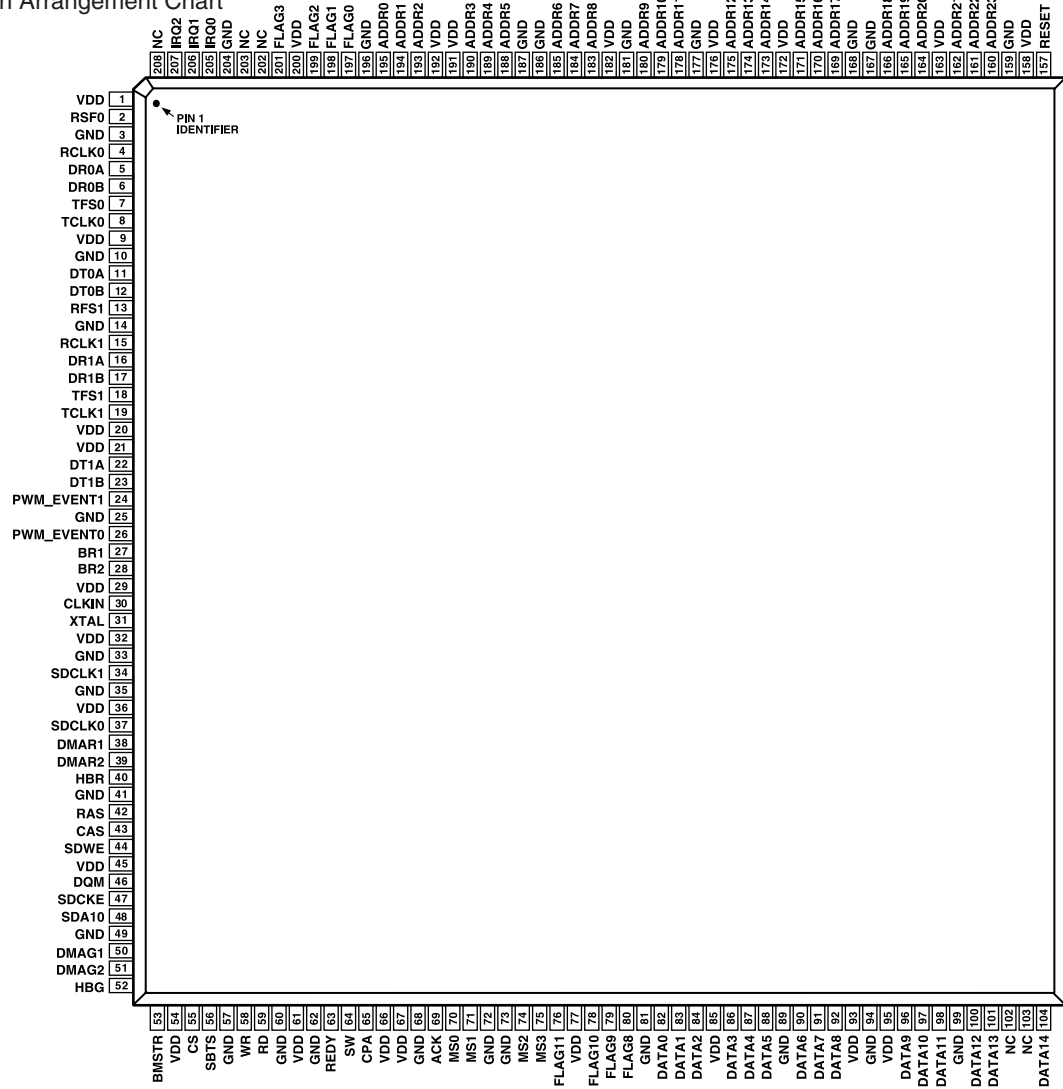


Logic Elements

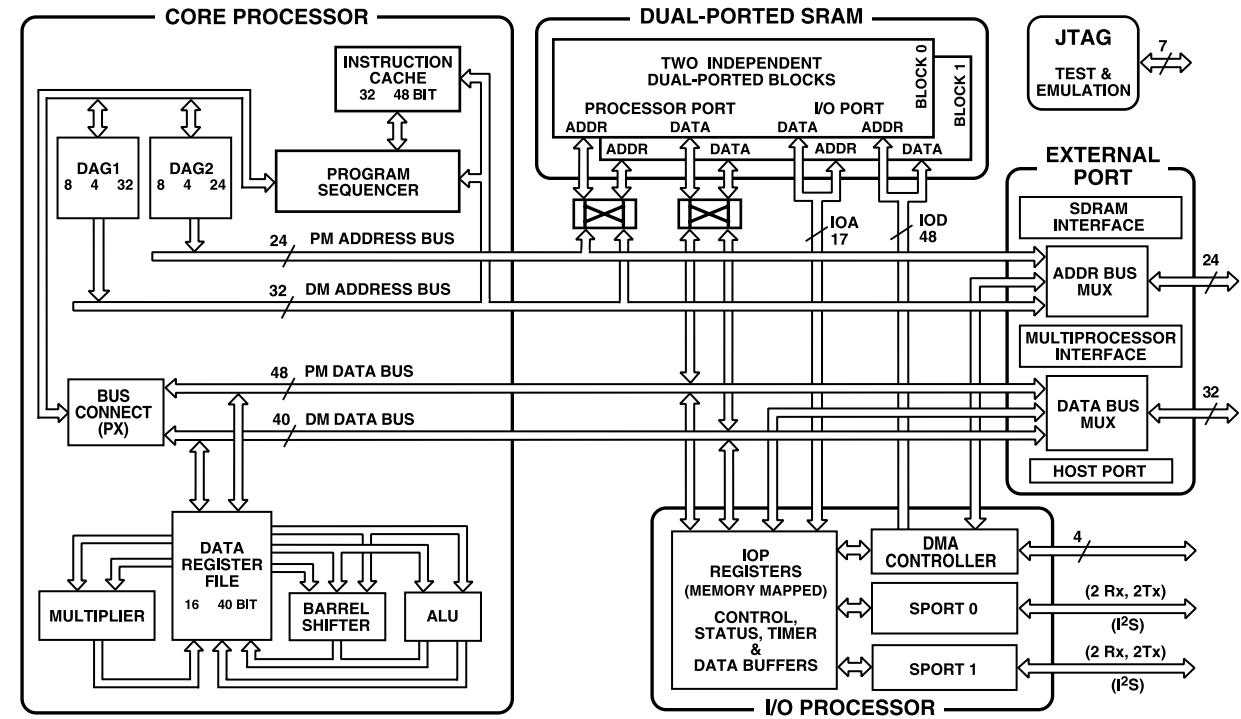


ADSP-21065LCS240S1

● Pin Arrangement Chart



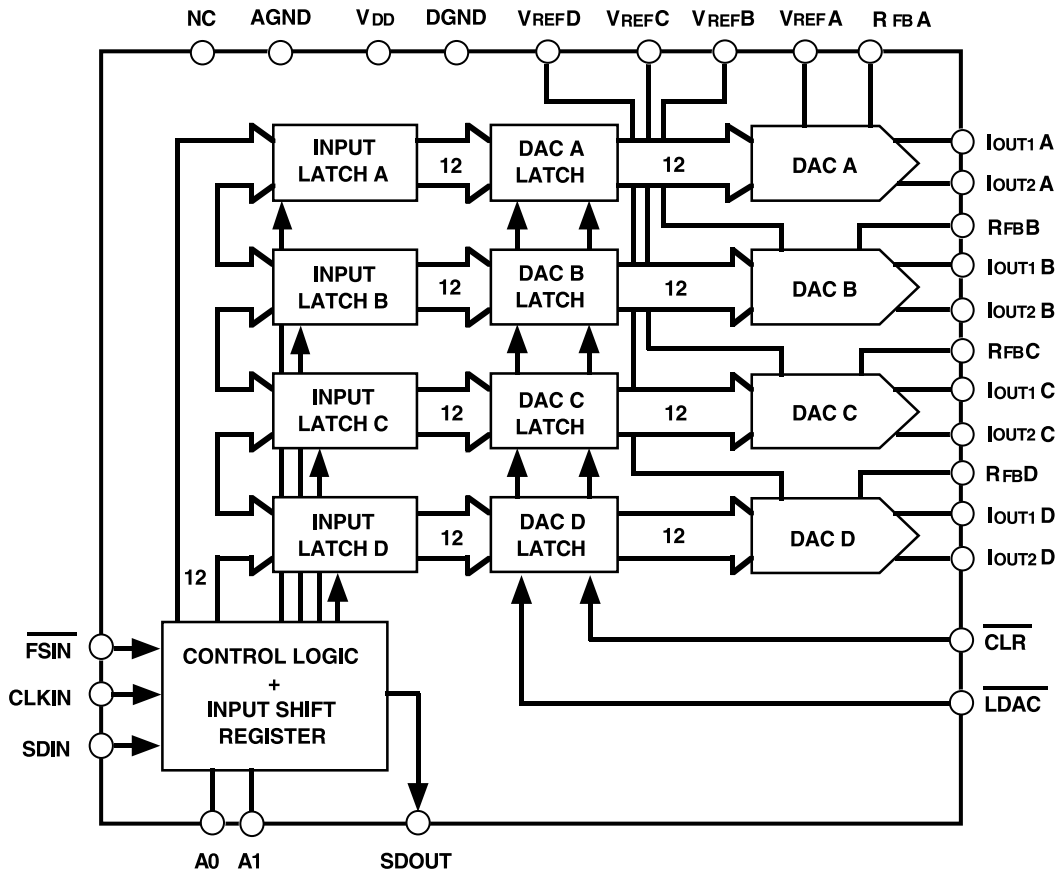
● Block Diagram Chart



● Pin Arrangement Chart



● Block Diagram Chart

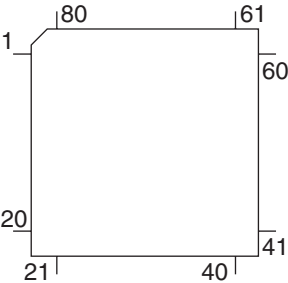


# **Pin Functions (PEG169A)**

| Pin No. | Pin Name | I/O | Format | Function and Operation             |
|---------|----------|-----|--------|------------------------------------|
| 1       | CLK4     | O   | C      | PLD serial clock output            |
| 2       | P94      | O   | C      | EVOL strobe output                 |
| 3       | P93      | O   | C      | EVOL chip enable output            |
| 4       | SOUT3    | O   | C      | EVOL serial data output            |
| 5       | CLK3     | O   | C      | EVOL serial clock output           |
| 6       | CNVss    |     |        | Vss                                |
| 7,8     | NC       |     |        | Not used                           |
| 9       | RESET    | I   |        | Reset input                        |
| 10      | XOUT     | O   | C      | System clock output                |
| 11      | Vss      |     |        | GND                                |
| 12      | XIN      | I   |        | System clock input                 |
| 13      | Vcc      |     |        | 5V                                 |
| 14      | NMI      |     |        | Vcc                                |
| 15      | P84      | I   |        | Back up sense input                |
| 16      | P83      | I   |        | Acc sense input                    |
| 17      | NC       |     |        | Not used                           |
| 18      | P81      | I   |        | IP-BUS request input               |
| 19      | P80      | O   | C      | DALMON control output              |
| 20      | P77      | O   | C      | NW through mode output             |
| 21      | P76      | O   | C      | IP-BUS driver control output       |
| 22      | P71      | I   |        | IP-BUS data input                  |
| 23      | P70      | O   | N      | IP-BUS data output                 |
| 24      | TxD1     | O   | C      | USB controller serial data output  |
| 25      | RxD1     | I   |        | USB controller serial data input   |
| 26      | CLK1     | I   |        | Flash write mode enable input      |
| 27      | P64      | I   |        | Flash write busy information input |
| 28      | TXD0     | O   | C      | Test program serial data output    |
| 29      | RXD0     | I   |        | Test program serial data input     |
| 30      | CLK0     | I   |        | Test program serial clock input    |
| 31-33   | NC       |     |        | Not used                           |
| 34      | P55      | I   | C      | Flash write mode enable input      |
| 35-38   | NC       |     |        | Not used                           |
| 39      | P50      | I   |        | Test program enable input          |
| 40      | P43      | O   | C      | DSP IC power control output        |
| 41      | P42      | I   |        | Power amp error input              |
| 42      | P41      | O   | C      | Hardware mute request output       |
| 43      | P40      | I   |        | DSP stop request input             |
| 44      | P37      | I   |        | DIR reset input                    |
| 45      | P36      | O   | C      | DIR sampling frequency output      |
| 46      | P35      | O   | C      | DIR sampling frequency output      |
| 47      | P34      | I   |        | DIT reset input                    |
| 48      | P33      | I   |        | DIR unlock information input       |
| 49      | P32      | O   | C      | DIR audio/data select output       |
| 50      | P31      | O   | C      | DIR emphasis information output    |
| 51      | P30      | I   |        | DSP error information input        |
| 52      | NC       |     |        | Not used                           |
| 53      | P26      | O   | C      | PLD config strobe output           |
| 54,55   | NC       |     |        | Not used                           |
| 56      | P23      | O   | C      | Power indicator LED control output |
| 57-60   | NC       |     |        | Not used                           |
| 61      | P06      | O   | C      | PLD config strobe output           |

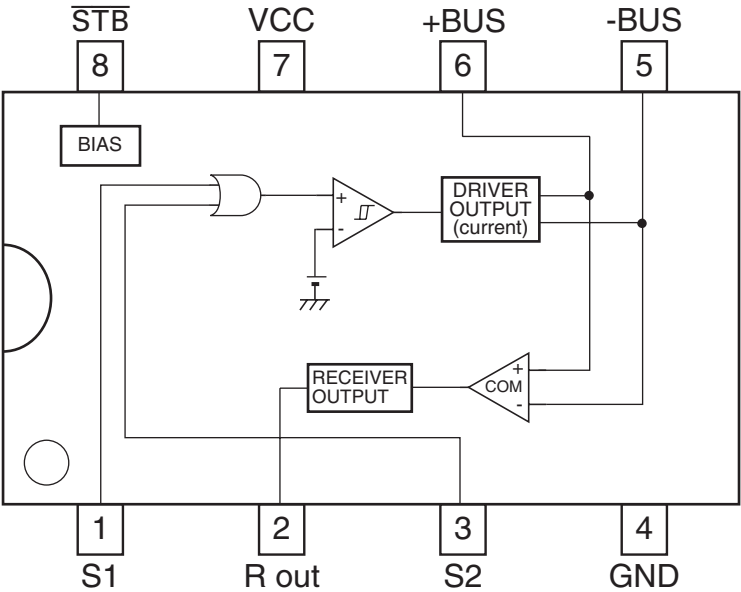
| Pin No. | Pin Name | I/O | Format | Function and Operation           |
|---------|----------|-----|--------|----------------------------------|
| 62      | P05      | I   |        | PLD config status input          |
| 63      | P04      | I   |        | PLD config end information input |
| 64      | NC       |     |        | Not used                         |
| 65      | P02      | O   | C      | PLD reset data output            |
| 66      | P01      | O   | C      | PLD chip enable output           |
| 67      | P00      | O   | C      | PLD chip enable output           |
| 68-74   | NC       |     |        | Not used                         |
| 75      | AVSS     |     |        | Vss                              |
| 76      | NC       |     |        | Not used                         |
| 77      | VREF     |     |        | AD translation reference voltage |
| 78      | AVCC     |     |        | Vcc                              |
| 79      | SIN4     | I   |        | PLD serial data input            |
| 80      | SOUT4    | O   | C      | PLD serial data output           |

PEG169A

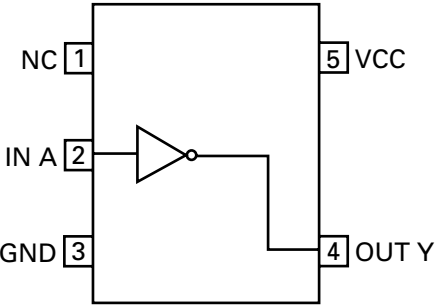


| Format | Meaning         |
|--------|-----------------|
| C      | CMOS            |
| N      | N ch open drain |

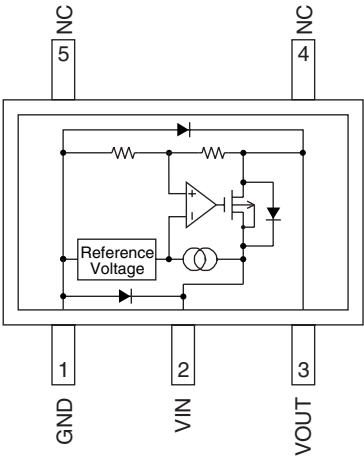
HA12241FP



TC7SET04FUS1

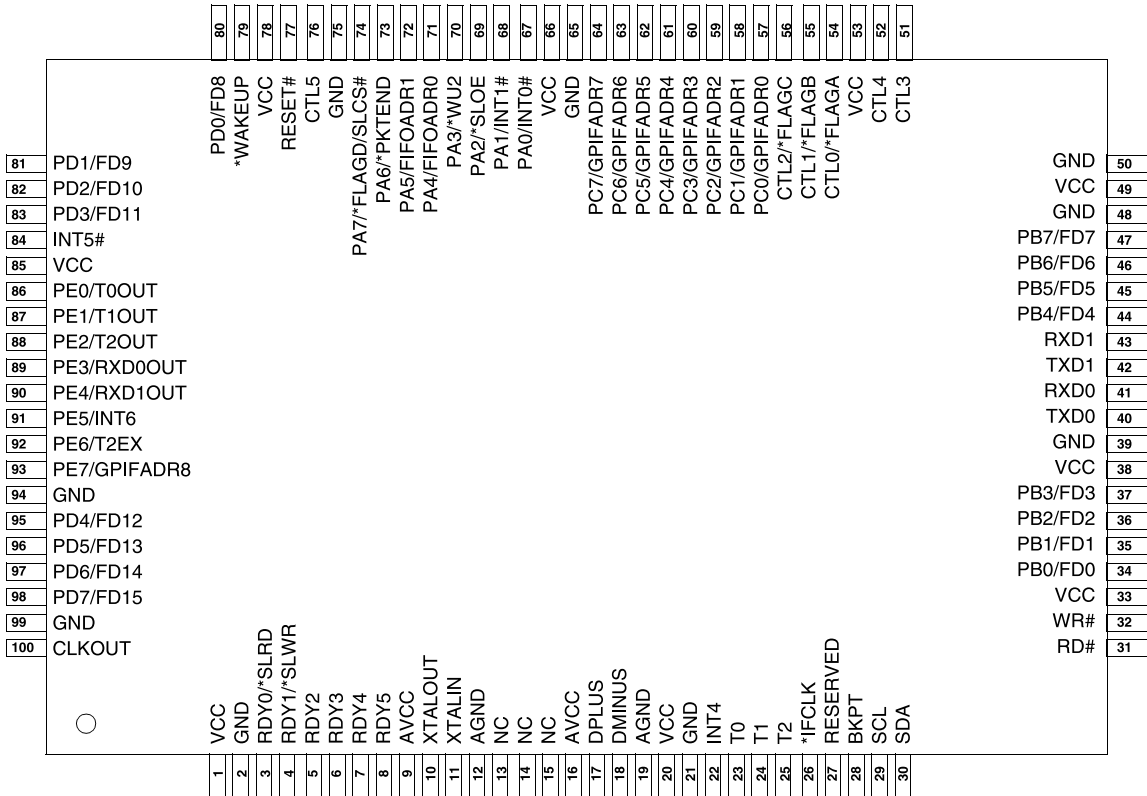


S-812C33AMC-C2N

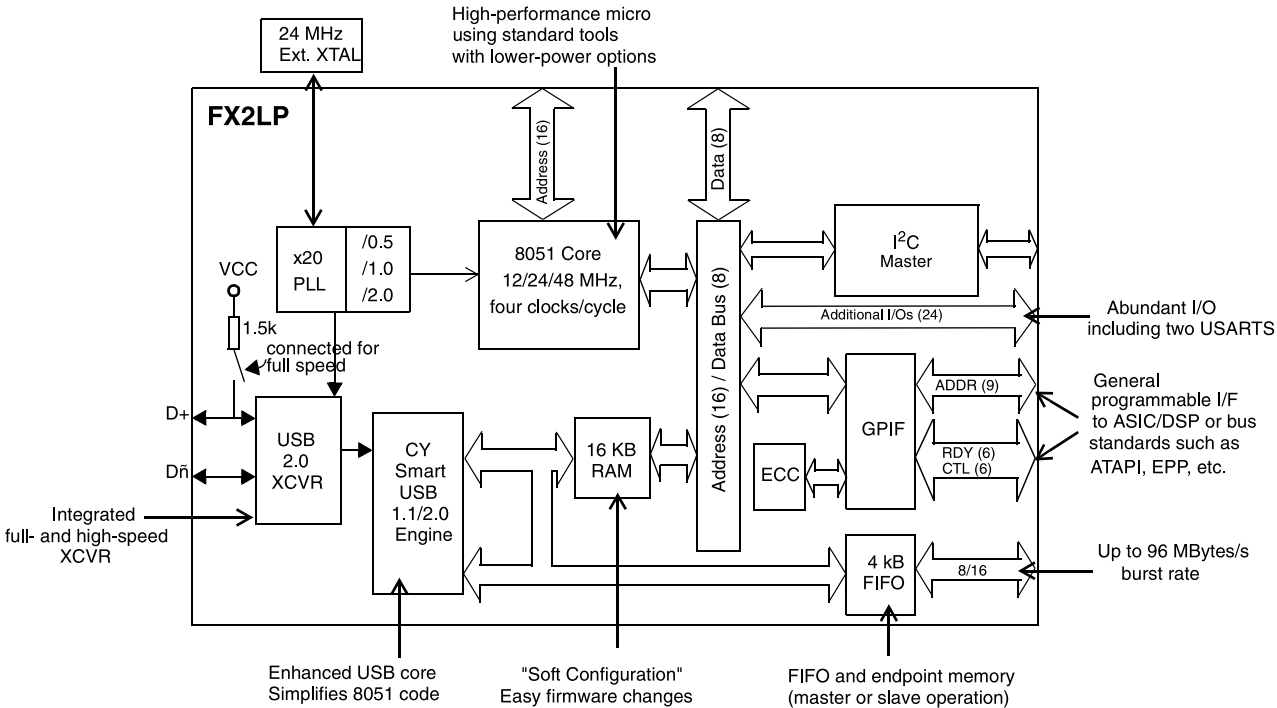


CY7C68013A-100AXC

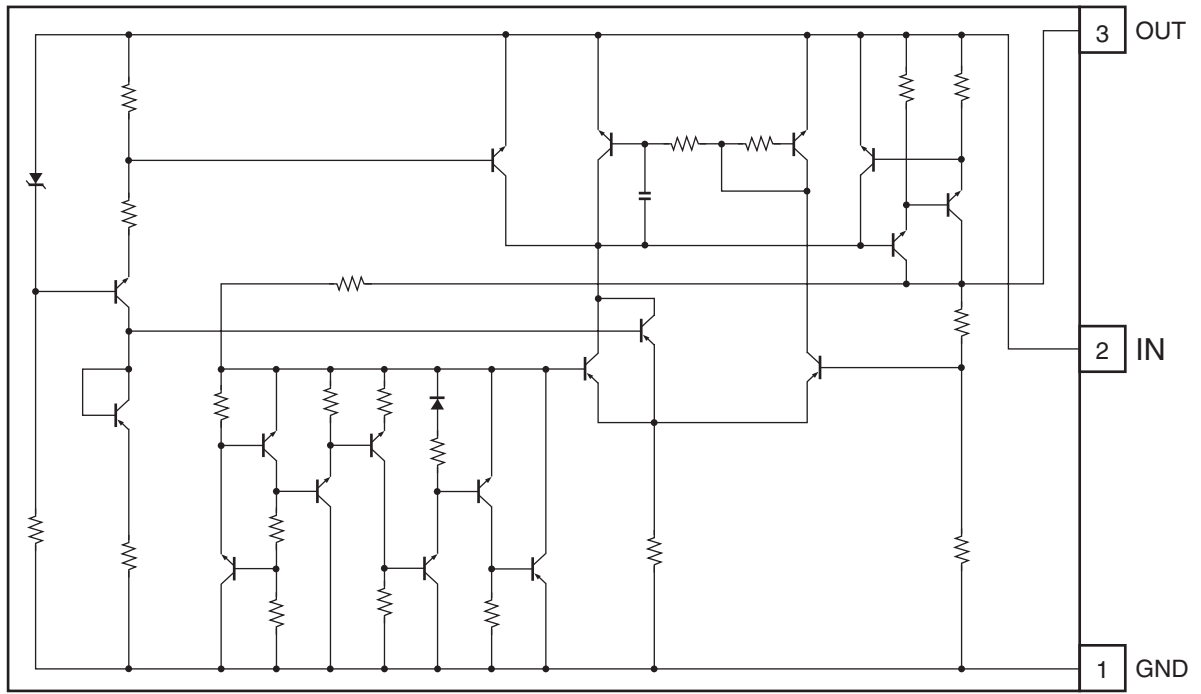
Pin Arrangement Chart



Block Diagram Chart



TA79L12F



△

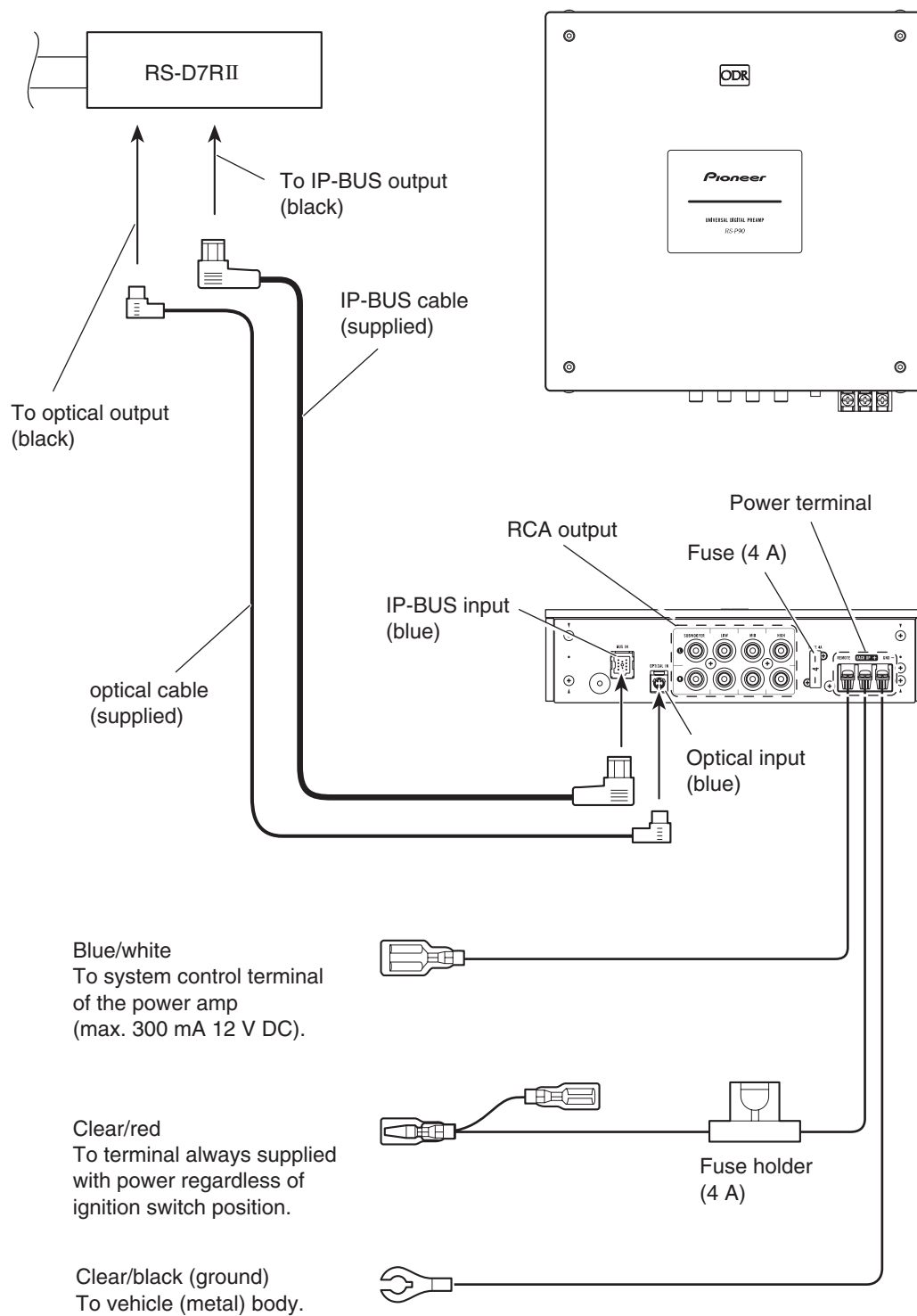
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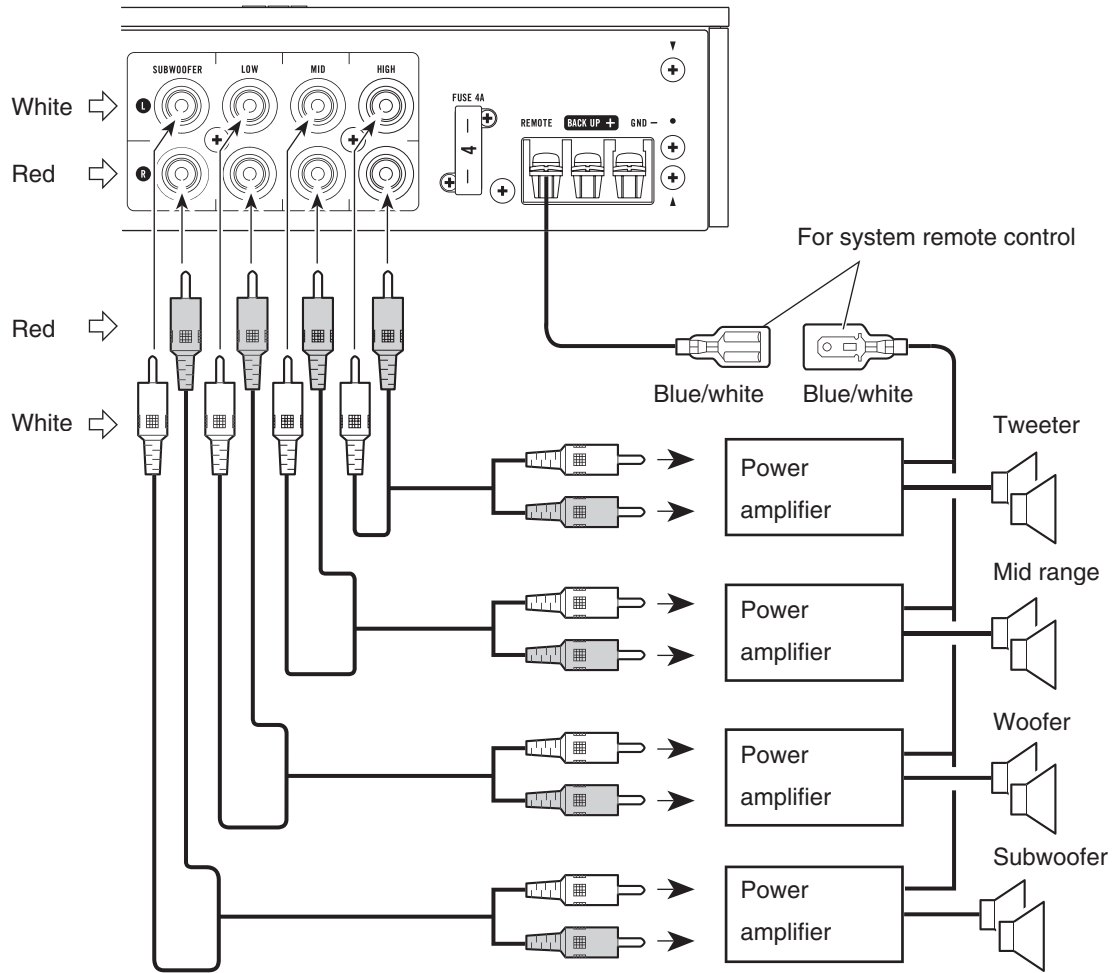
## 8. OPERATIONS

### Connecting the Units

#### Connection diagram



## Connecting the RCA input amplifier



■

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6

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7

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8

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A

■

B

■

C

■

D

■

E

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F

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8

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RS-P90/EW5

● Jigs List

| Name                  | Jig No. | Remarks                                     |
|-----------------------|---------|---------------------------------------------|
| 2-Pin Extension cable | GGD1028 | Control Unit (CN302) <--> DSP Unit (CN2101) |
| 32-Pin FFC            | GGD1288 | Control Unit (CN601) <--> DSP Unit (CN3201) |

A

B

C

D

E

F