

# Service Manual

ORDER NO.  
**RRV3107**

DJ MIXER

# DJM-500

**THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).**

| Type  | Model   | Power Requirement   | The voltage can be converted by the following method. |
|-------|---------|---------------------|-------------------------------------------------------|
|       | DJM-500 |                     |                                                       |
| RELM4 | ○       | AC110-120V/220-240V | With the voltage selector                             |

● This service manual should be used together with the following manual(s):

| Model No.    | Order No. | Remarks |
|--------------|-----------|---------|
| DJM-500/RELM | RRV1405   |         |

# 1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The  $\Delta$  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.

● Screws adjacent to  $\nabla$  mark on product are used for disassembly.

● Reference Nos. indicate the pages and Nos. in the service manual for the base model.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560  $\rightarrow$   $56 \times 10^1 \rightarrow 561$  ..... RD1/4PU  $\boxed{5}\boxed{6}\boxed{1}J$

47k  $\rightarrow$   $47 \times 10^3 \rightarrow 473$  ..... RD1/4PU  $\boxed{4}\boxed{7}\boxed{3}J$

0.5  $\rightarrow$  R50 ..... RN2H  $\boxed{R}\boxed{5}\boxed{0}K$

1  $\rightarrow$  1R0 ..... RS1P  $\boxed{1}\boxed{R}\boxed{0}K$

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k  $\rightarrow$   $562 \times 10^1 \rightarrow 5621$  ..... RN1/4PC  $\boxed{5}\boxed{6}\boxed{2}\boxed{1}F$

## ■ CONTRAST TABLE

DJM-500/RELM4 and DJM-500/RELM are constructed the same except for the following :

| Ref. No. | Mark | Symbol and Description                                | Part No.           |                    | Remarks         |
|----------|------|-------------------------------------------------------|--------------------|--------------------|-----------------|
|          |      |                                                       | DJM-500/<br>RELM   | DJM-500/<br>RELM4  |                 |
| P 4 - 8  | NSP  | <b>PCB ASSEMBLIES</b><br>DSP ASSY<br>└ TERMINAL ASSY  | DWX1786<br>DWZ1076 | DWX2464<br>DWZ1148 | For Accessories |
| P4 - 10  | NSP  | VR Assy                                               | DWM2057            | DWM2210            |                 |
| P4 - 11  | NSP  | └ PHONE JACK ASSY                                     | DWZ1057            | DWZ1144            |                 |
|          | NSP  | └ MIC JACK ASSY                                       | DWZ1066            | DWZ1145            |                 |
| P4 - 20  | NSP  | SUB Assy                                              | DWM2058            | DWM2211            |                 |
| P4 - 21  | NSP  | └ BAL.OUT ASSY                                        | DWZ1059            | DWZ1147            |                 |
|          |      | └ PHONE ASSY                                          | DWZ1077            | DWZ1146            |                 |
| P3 - 8   |      | <b>PACKING</b><br>Polyethylene Bag (0.03 x 230 x 340) | Z21-038            | Not used           |                 |
| P3 - 8   |      | Polyethylene Bag (0.06 x 230 x 340)                   | Not used           | AHG7117            |                 |
|          |      | IEC 65-6 Caution                                      | Not used           | ARM7067            |                 |
| P4 - 35  |      | <b>EXTERIOR</b><br>Label                              | DRW1739            | DRW2268            |                 |
| P4 - 57  |      | Display Panel A                                       | DAH2095            | DAH2177            |                 |
| P4 - 59  |      | Display Panel B                                       | DAH2096            | DAH2178            |                 |
| P4 - 116 | NSP  | Cord Clamper                                          | RNE-513            | Not used           |                 |

● For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES".

## ■ CONTRAST OF PCB ASSEMBLIES

### • TERMINAL Assy

DWZ1076 and DWZ1148 are constructed the same except for the following :

| Mark | Symbol and Description                                                                                 | Part No.                                              |                                                  | Remarks |
|------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------|---------|
|      |                                                                                                        | DWZ1076                                               | DWZ1148                                          |         |
|      | R878 - R883<br>C867, C869, C875, C877, C879, C881<br>C868, C870, C876, C878, C880, C882<br>L901 - L906 | RD1/4PU101J<br>CCCSL101J50<br>CCCSL101J50<br>Not used | RD1/4PU332J<br>Not used<br>CQMA221J50<br>LAU221J | *1      |

\*1 : Refer to “ 2. SCHEMATIC DIAGRAM and 3. PCB CONNECTION DIAGRAM”.

### • PHONE Assy

DWZ1077 and DWZ1146 are constructed the same except for the following :

| Mark | Symbol and Description                                   | Part No.                            |                                            | Remarks  |
|------|----------------------------------------------------------|-------------------------------------|--------------------------------------------|----------|
|      |                                                          | DWZ1077                             | DWZ1146                                    |          |
|      | C602, C621, C622, C646<br>C1101 - C1104<br>C1105 - C1110 | CCCSL101J50<br>Not used<br>Not used | CQMA102J50<br>CCPUSL470J50<br>CCPUSL560J50 | *4<br>*4 |

\*4 : Refer to “ 2. SCHEMATIC DIAGRAM and 3. PCB CONNECTION DIAGRAM”.

### • PHONE JACK Assy

DWZ1057 and DWZ1144 are constructed the same except for the following :

| Mark | Symbol and Description | Part No. |              | Remarks |
|------|------------------------|----------|--------------|---------|
|      |                        | DWZ1057  | DWZ1144      |         |
|      | C1003, C1004           | Not used | CKSRYB104K25 | *2      |

\*2 : Refer to “ 2. SCHEMATIC DIAGRAM and 3. PCB CONNECTION DIAGRAM”.

### • MIC JACK Assy

DWZ1066 and DWZ1145 are constructed the same except for the following :

| Mark | Symbol and Description | Part No. |              | Remarks |
|------|------------------------|----------|--------------|---------|
|      |                        | DWZ1066  | DWZ1145      |         |
|      | C1005                  | Not used | CCSRCH221J50 | *3      |

\*3 : Refer to “ 2. SCHEMATIC DIAGRAM and 3. PCB CONNECTION DIAGRAM”.

### • BAL.OUT Assy

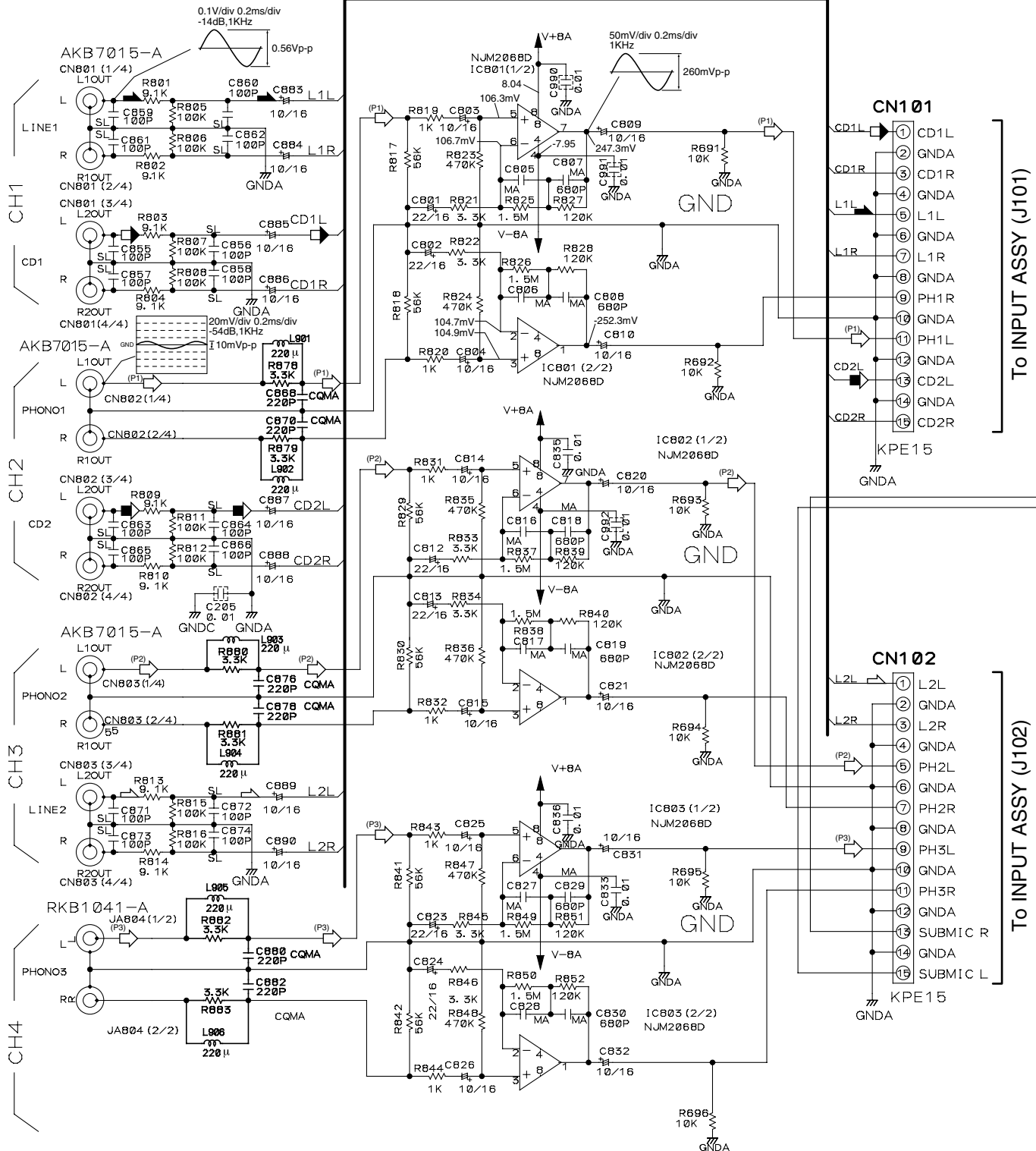
Although DWZ1059 and DWZ1147 are different in part number, they consist of the same components.

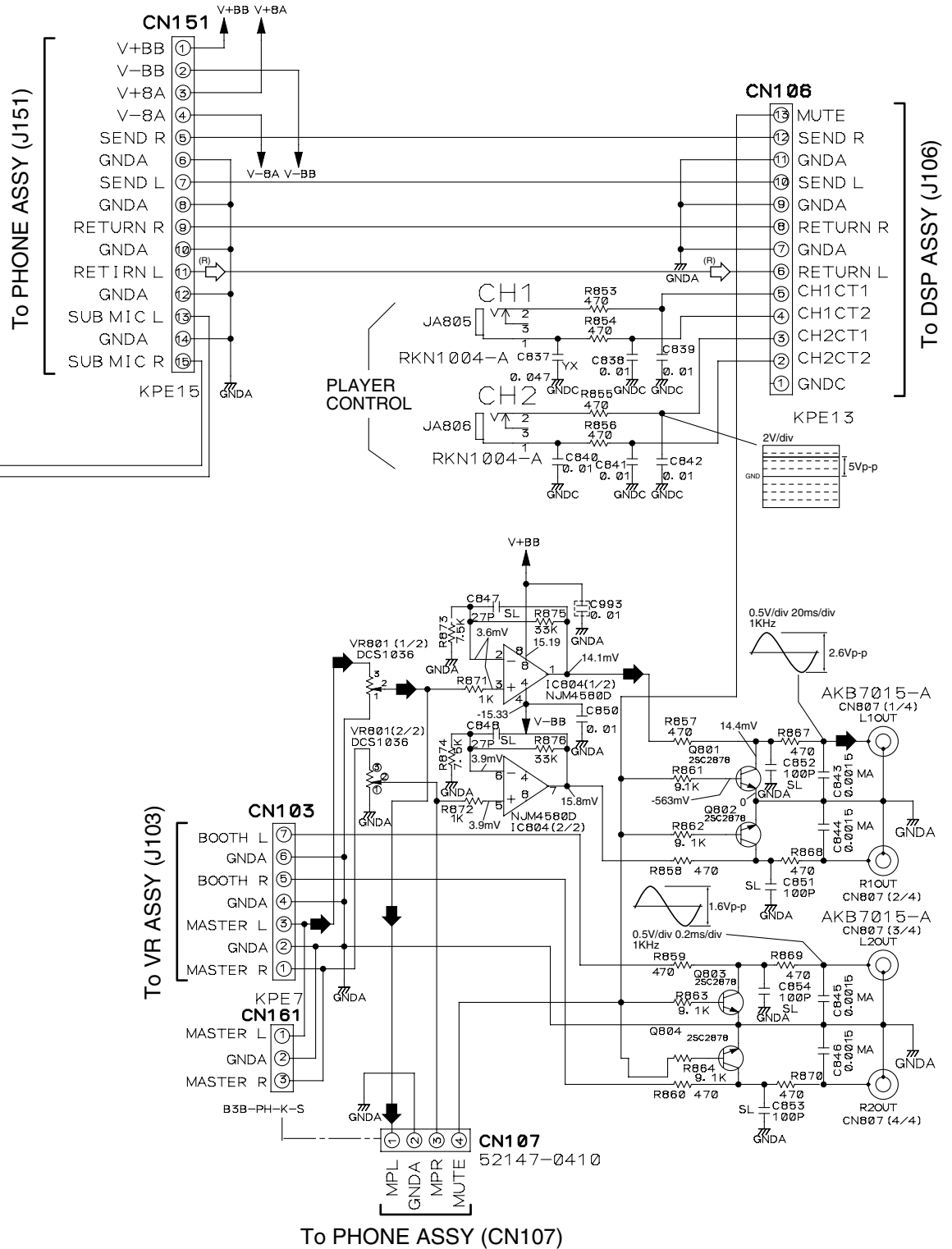
# 2. SCHEMATIC DIAGRAM

## 2.1 TERMINAL ASSY

### TERMINAL ASSY (DWZ1148)

EA





## 2.2 PHONE ASSY

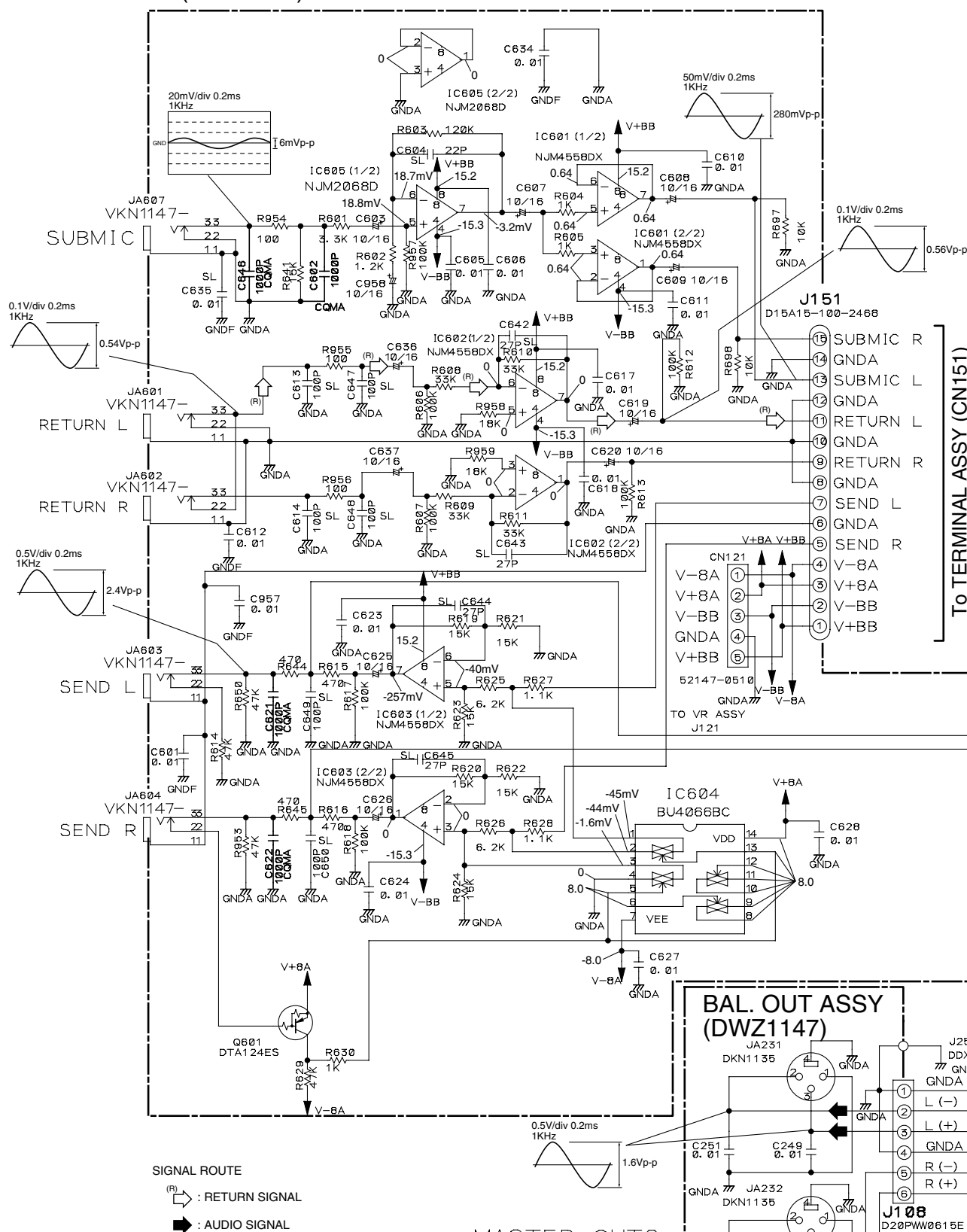
## PHONE ASSY (DWZ1146)

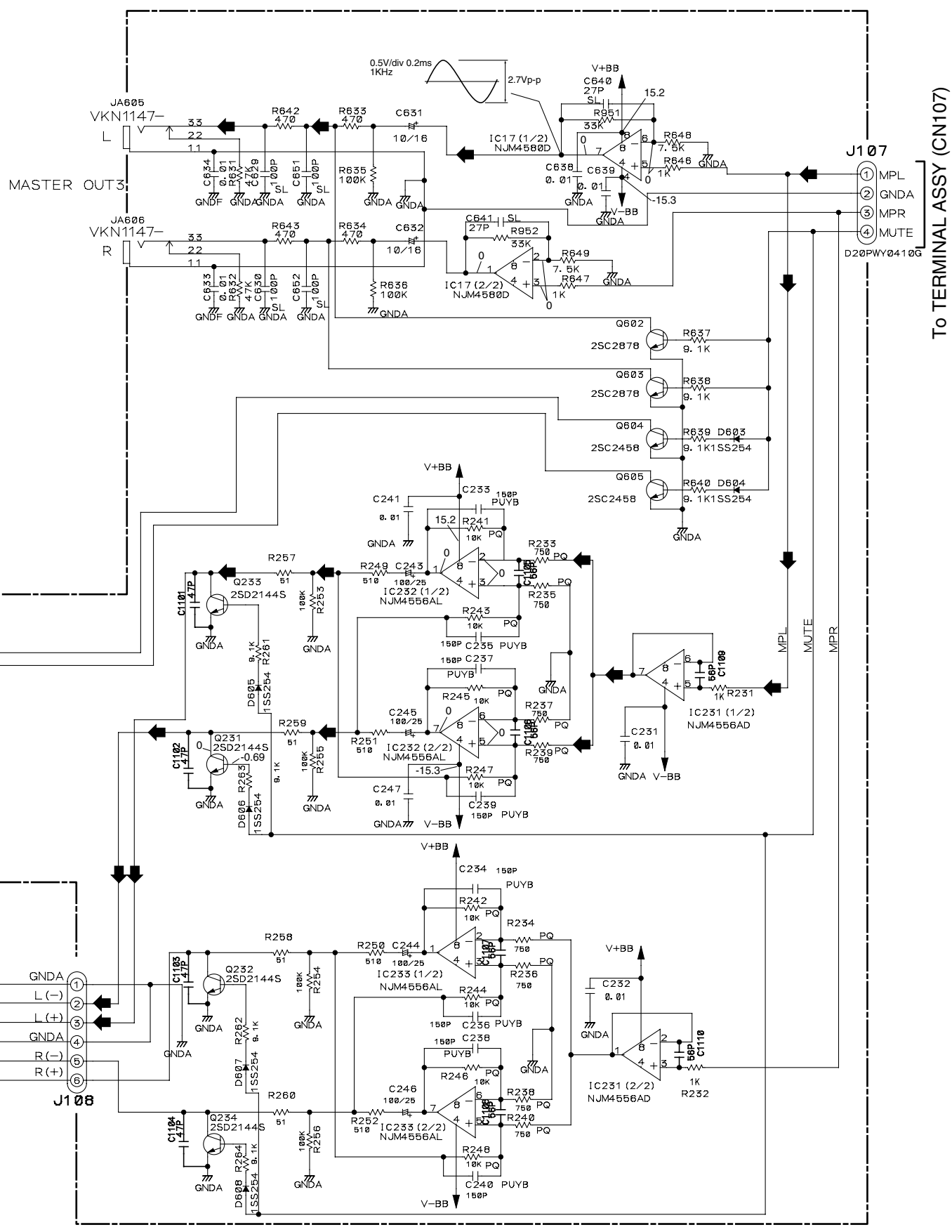
A

B

C

D





To TERMINAL ASSY (CN107)

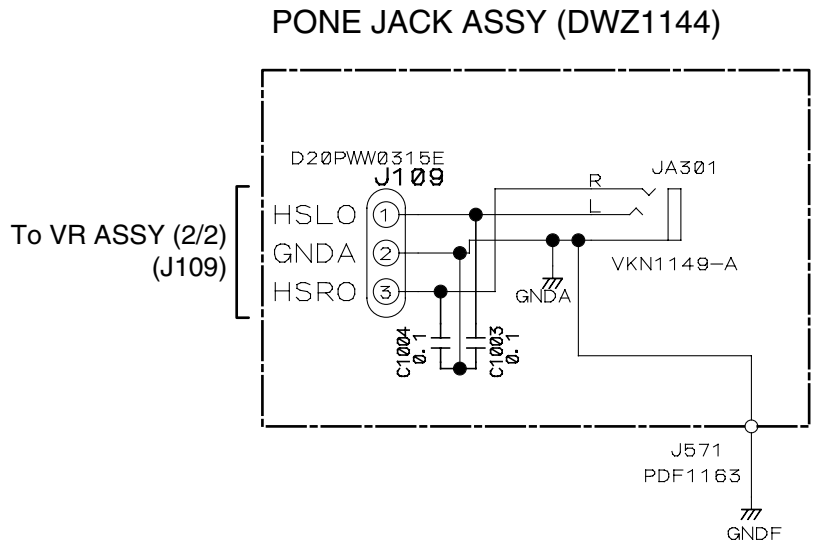
A

B

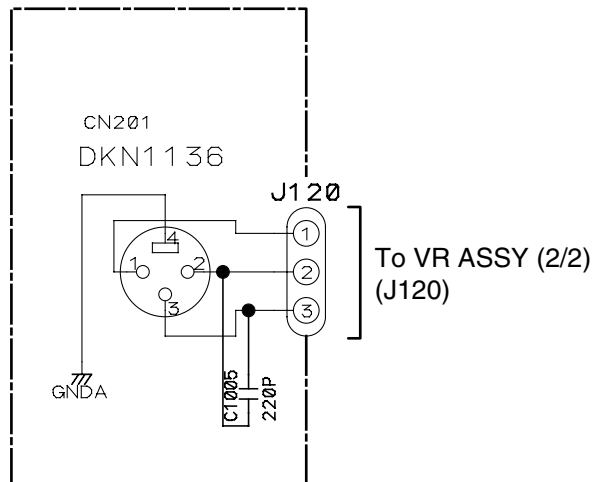
C

D

## 2.3 PHONE JACK and MIC JACK ASSYS



### MIC JACK ASSY (DWG1145)



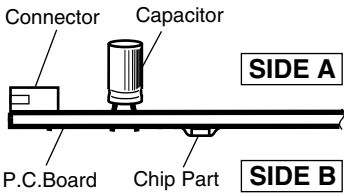
### 3. PCB CONNECTION DIAGRAM

**NOTE FOR PCB DIAGRAMS :**

- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

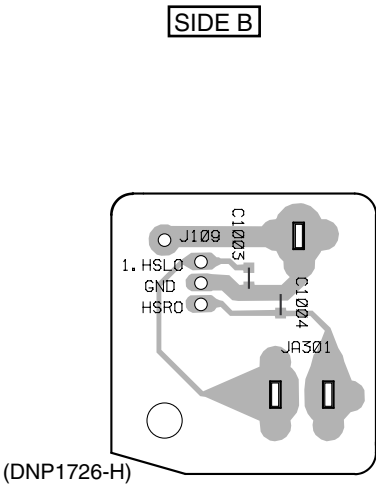
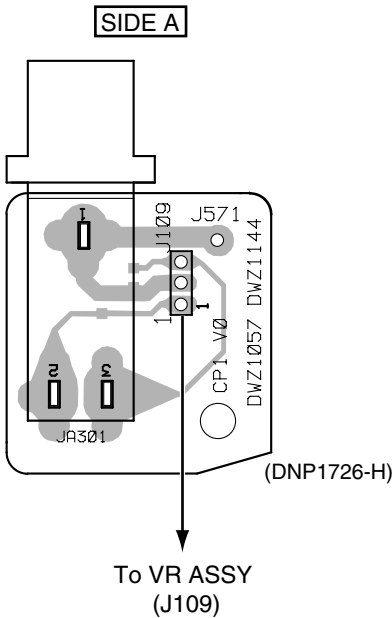
| Symbol In PCB Diagrams | Symbol In Schematic Diagrams | Part Name                |
|------------------------|------------------------------|--------------------------|
|                        |                              | Transistor               |
|                        |                              | Transistor with resistor |
|                        |                              | Field effect transistor  |
|                        |                              | Resistor array           |
|                        |                              | 3-terminal regulator     |

- 3. The parts mounted on this PCB include all necessary parts for several destinations.  
For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.

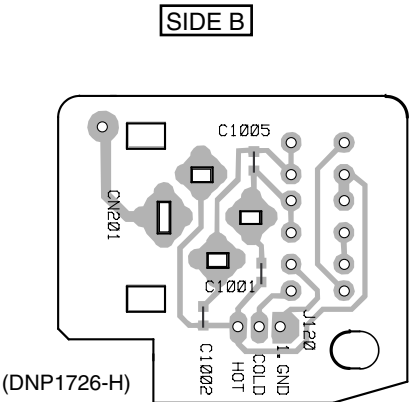
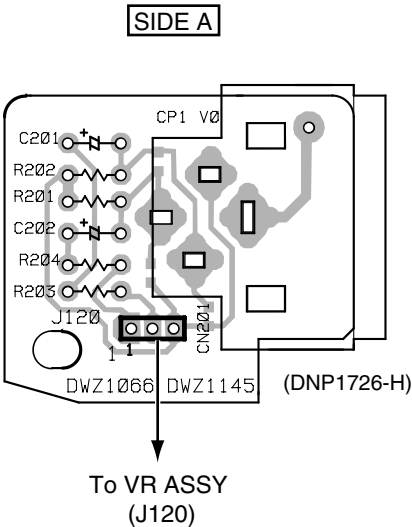


#### 3.1 PHONE JACK and MIC JACK ASSYS

##### PHONE JACK ASSY



##### MIC JACK ASSY



## 4

**L90**  
**(SIDI**

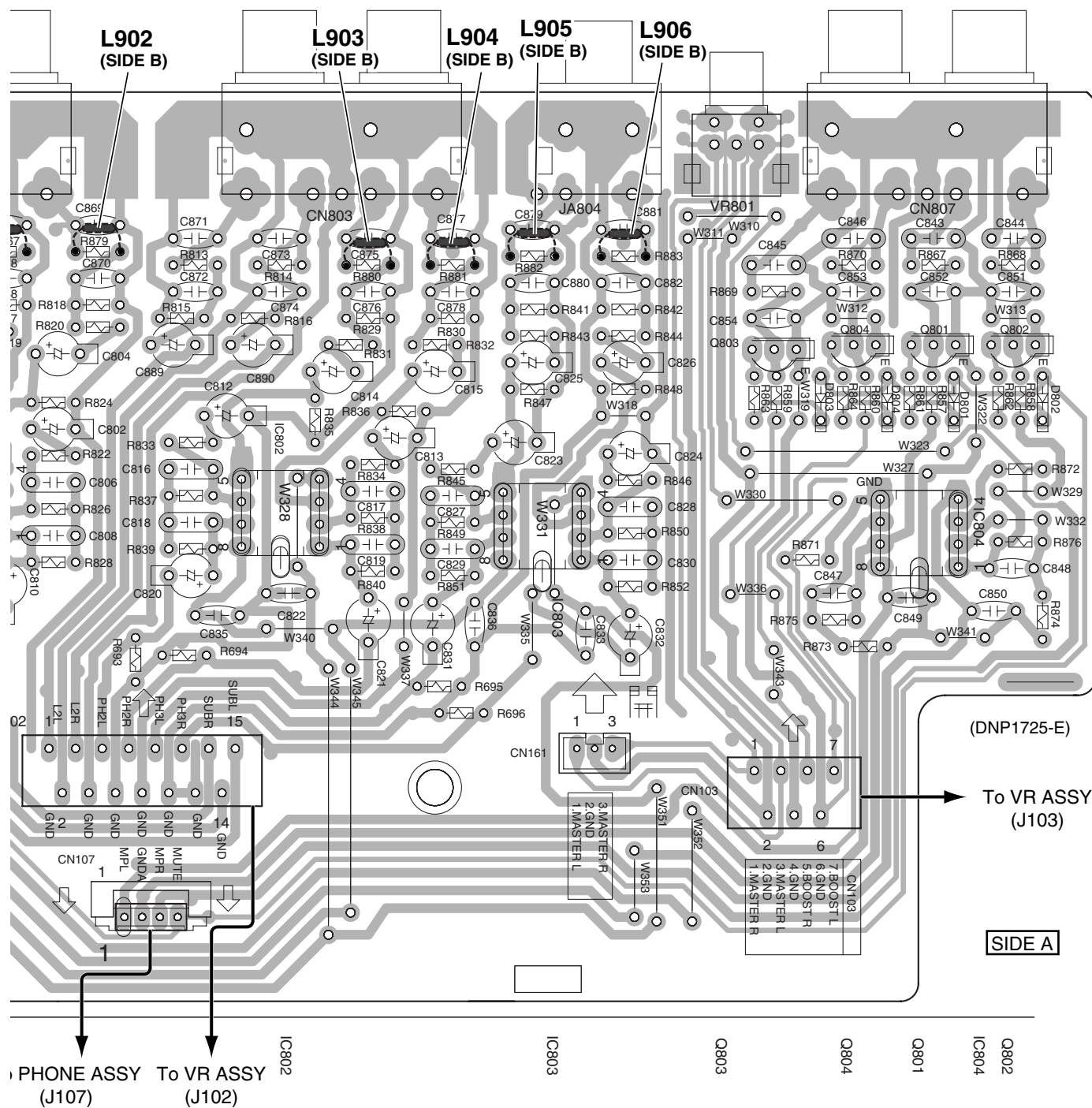


A

B

C

D



## D

