PIONEER®
*The Art of Entertainment*

# Service Manual

**ORDER NO.**
**RRV1913**

## STEREO AMPLIFIER
# A-107

## ● Refer to the service manual RRV1935 for A-207/MLXJ.

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

| Type | Model | Power Requirement | Remarks |
|---|---|---|---|
| | A-107 | | |
| MLXJ | ○ | AC220–230V | |
| MYXJ/EW | ○ | AC220–230V | |
| MYXJ/GR | ○ | AC220–230V | |
| MVXJ | ○ | AC220–230V | |
| YPWXJ | ○ | AC240V | |

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# 1. CONTRAST OF MISCELLANEOUS PARTS

*NOTES :*
- *Parts marked by " NSP " 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.*
- *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 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J*
*47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J*
*0.5 Ω → R50 ..... RN2H R 5 0 K*
*1 Ω → 1R0 ..... RS1P 1 R 0 K*

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

*5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F*

## ■ CONTRAST TABLE

A-107/MLXJ, MYXJ/EW, MYXJ/GR and A-207/MLXJ are constructed the same except for the following:

| Ref. No. | Mark | Symbol and Description | Part No. | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | A-207 | A-107 | | | |
| | | | MLXJ | MLXJ | MYXJ/EW | MYXJ/GR | |
| | | **PCB ASSEMBLIES** | | | | | |
| | NSP | CONTROL ASSY | AWG7012 | AWG7011 | AWG7011 | AWG7011 | |
| P5 - 2 | | ├ FRONT R ASSY | AWX7121 | AWX7121 | AWX7121 | AWX7121 | |
| P5 - 1 | | └ FRONT L ASSY | AWX7122 | AWX7120 | AWX7120 | AWX7120 | * |
| | NSP | AF COMPLEX ASSY | AWM7355 | AWM7353 | AWM7353 | AWM7353 | |
| P5 - 6 | | ├ VOLUME ASSY | AWX7112 | AWX7112 | AWX7112 | AWX7112 | |
| P5 - 4 | | ├ AC PRIMARY ASSY | AWX7113 | AWX7113 | AWX7113 | AWX7113 | |
| P5 - 5 | NSP | ├ HEADPHONE ASSY | AWX7114 | AWX7114 | AWX7114 | AWX7114 | |
| P5 - 7 | | └ AF ASSY | AWX7116 | AWX7111 | AWX7111 | AWX7111 | * |
| | | **PACKING** | | | | | |
| P3 - 1 | | Operating Instructions (Engkish/Spanish/Chinese) | ARE7158 | ARE7158 | Not used | Not used | |
| P3 - 1 | | Operating Instructions (English) | Not used | Not used | ARB7137 | Not used | |
| P3 - 1 | | Operating Instructions (German) | Not used | Not used | ARC7178 | ARC7178 | |
| P3 - 1 | | Operating Instructions (French/Spanish/Italian/Dutch/ Swedish/Portuguese) | Not used | Not used | ARC7179 | Not used | |
| P3 - 5 | | Packing Case | AHD7562 | AHD7560 | AHD7559 | AHD7559 | |
| | NSP | Warranty Card | Not used | Not used | ARY7009 | ARY7009 | |
| | | **EXTERIOR SECTION** | | | | | |
| P5 - 8 | ⚠ | Fuse (FU1 : 1.25A) | REK1023 | Not used | Not used | Not used | |
| P5 - 8 | ⚠ | Fuse (FU1 : 0.8A) | Not used | REK1021 | REK1021 | REK1021 | |
| P5 - 11 | ⚠ | Power Transformer (T1 : AC220–230V) | ATS7190 | ATS7192 | ATS7192 | ATS7192 | |
| P5 - 13 | | Rear Panel | ANC7642 | ANC7637 | ANC7620 | ANC7620 | |
| P5 - 14 | | Insulator | AMR7198 | AMR7198 | PNW2766 | PNW2766 | |
| P5 - 16 | | Screw | ABA1027 | BBZ30P080FZK | BBZ30P080FZK | BBZ30P080FZK | |
| P5 - 38 | | Front Panel | AMB7492 | AMB7491 | AMB7491 | AMB7491 | |

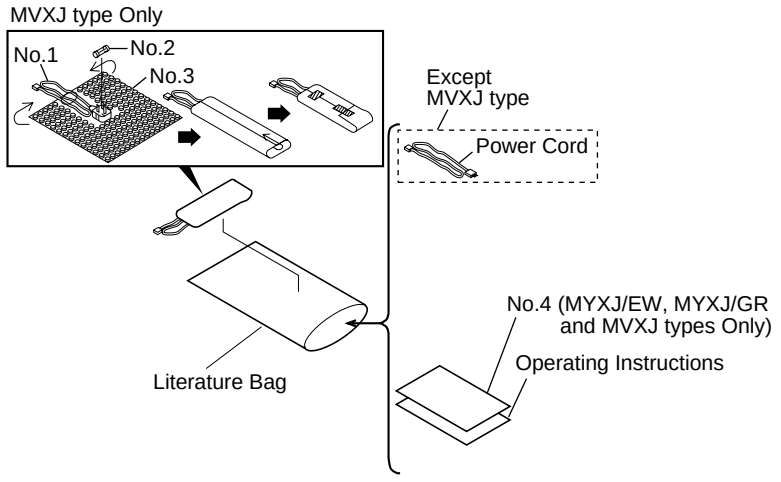
Note *: Refer to " ■ CONTRAST OF PCB ASSEMBLIES " and " 2. SCHEMATIC DIAGRAM ".

A-107/MVXJ, YPWXJ, and A-207/MLXJ are constructed the same except for the following:

| Ref. No. | Mark | Symbol and Description | Part No. | | | Remarks |
|---|---|---|---|---|---|---|
| | | | A-207 | A-107 | | |
| | | | MLXJ | MVXJ | YPWXJ | |
| | | **PCB ASSEMBLIES** | | | | |
| | NSP | CONTROL ASSY | AWG7012 | AWG7011 | AWG7011 | |
| P5 - 2 | | ├ FRONT R ASSY | AWX7121 | AWX7121 | AWX7121 | |
| P5 - 1 | | └ FRONT L ASSY | AWX7122 | AWX7120 | AWX7120 | ∗1 |
| | NSP | AF COMPLEX ASSY | AWM7355 | AWM7353 | AWM7353 | |
| P5 - 6 | | ├ VOLUME ASSY | AWX7112 | AWX7112 | AWX7112 | |
| P5 - 4 | | ├ AC PRIMARY ASSY | AWX7113 | AWX7113 | AWX7113 | |
| P5 - 5 | NSP | ├ HEADPHONE ASSY | AWX7114 | AWX7114 | AWX7114 | |
| P5 - 7 | | └ AF ASSY | AWX7116 | AWX7111 | AWX7111 | ∗1 |
| | | **PACKING** | | | | |
| P3 - 1 | | Operating Instructions (English/Spanish/Chinese) | ARE7158 | Not used | Not used | |
| P3 - 1 | | Operating Instructions (English) | Not used | ARB7137 | ARB7137 | |
| P3 - 5 | | Packing Case | AHD7562 | AHD7559 | AHD7560 | |
| P3 - 9 | ⚠ | Power Cord | ADG1154 | Not used | ADG1160 | |
| | ⚠ | Power Cord with Fuse | Not used | ADG1156 | Not used | ∗2, No.1 |
| | ⚠ | Fuse (T5A) | Not used | AEK1046 | Not used | ∗2, No.2 |
| | NSP | Air Cap | Not used | AHG1087 | Not used | ∗2, No.3 |
| | NSP | Warranty Card | Not used | ARY7009 | PRY1003 | ∗2, No.4 |
| | | **EXTERIOR SECTION** | | | | |
| P5 - 8 | ⚠ | Fuse (FU1 : 1.25A) | REK1023 | Not used | Not used | |
| P5 - 8 | ⚠ | Fuse (FU1 : 0.8A) | Not used | REK1021 | REK1021 | |
| P5 - 11 | ⚠ | Power Transformer (T1 : AC220–230V) | ATS7190 | ATS7192 | Not used | |
| P5 - 11 | ⚠ | Power Transformer (T1 : AC240V) | Not used | Not used | ATS7193 | |
| P5 - 13 | | Rear Panel | ANC7642 | ANC7620 | ANC7638 | |
| P5 - 14 | | Insulator | AMR7198 | PNW2766 | AMR7198 | |
| P5 - 16 | | Screw | ABA1027 | BBZ30P080FZK | BBZ30P080FZK | |
| P5 - 38 | | Front Panel | AMB7492 | AMB7491 | AMB7491 | |

Note ∗1: Refer to " ■ CONTRAST OF PCB ASSEMBLIES " and " 2. SCHEMATIC DIAGRAM ".
∗2: Refer to " ■ EXPLODED VIEWS ".

## ■ EXPLODED VIEWS



## ■ CONTRAST OF PCB ASSEMBLIES

### DF AF ASSY

AWX7111 and AWX7116 are constructed the same except for the following:

| Mark | Symbol and Description | Part No. | | Remarks |
|---|---|---|---|---|
| | | AWX7116 | AWX7111 | |
| | Q335, Q336 | DTC143ES | Not used | |
| | D402 | 1SS355 | Not used | |
| ⚠ | D451 | D5SBA20 | D3SBA20 | |
| | RY402 | ASR7014 | Not used | |
| | C301, C302, C305, C306 | CEBA100M50 | CEAT100M50 | |
| | C307, 308 | CEBA221M25 | CEAT221M25 | |
| ⚠ | C331 | CCCS101K2H | Not used | |
| ⚠ | C332 | CKCYB331K2H | Not used | |
| | C451 | ACH7080 (6800µF/42V) | ACH7082 (4700µF/42V) | |
| | C452 | ACH7081 (6800µF/42V) | ACH7083 (4700µF/42V) | |
| | R301, R302 | RDR1/4VM240J | Not used | |
| | R303, R304 | RDR1/4VM561J | Not used | |
| | R313, R314 | Not used | RS1/10S240J | |
| | R315, R316 | Not used | RS1/10S561J | |
| | 401 SPERKER TERMINAL | AKE1011 (8P) | AKE1054 (4P) | |
| | HEAT SINK | ANH1021 | Not used | |

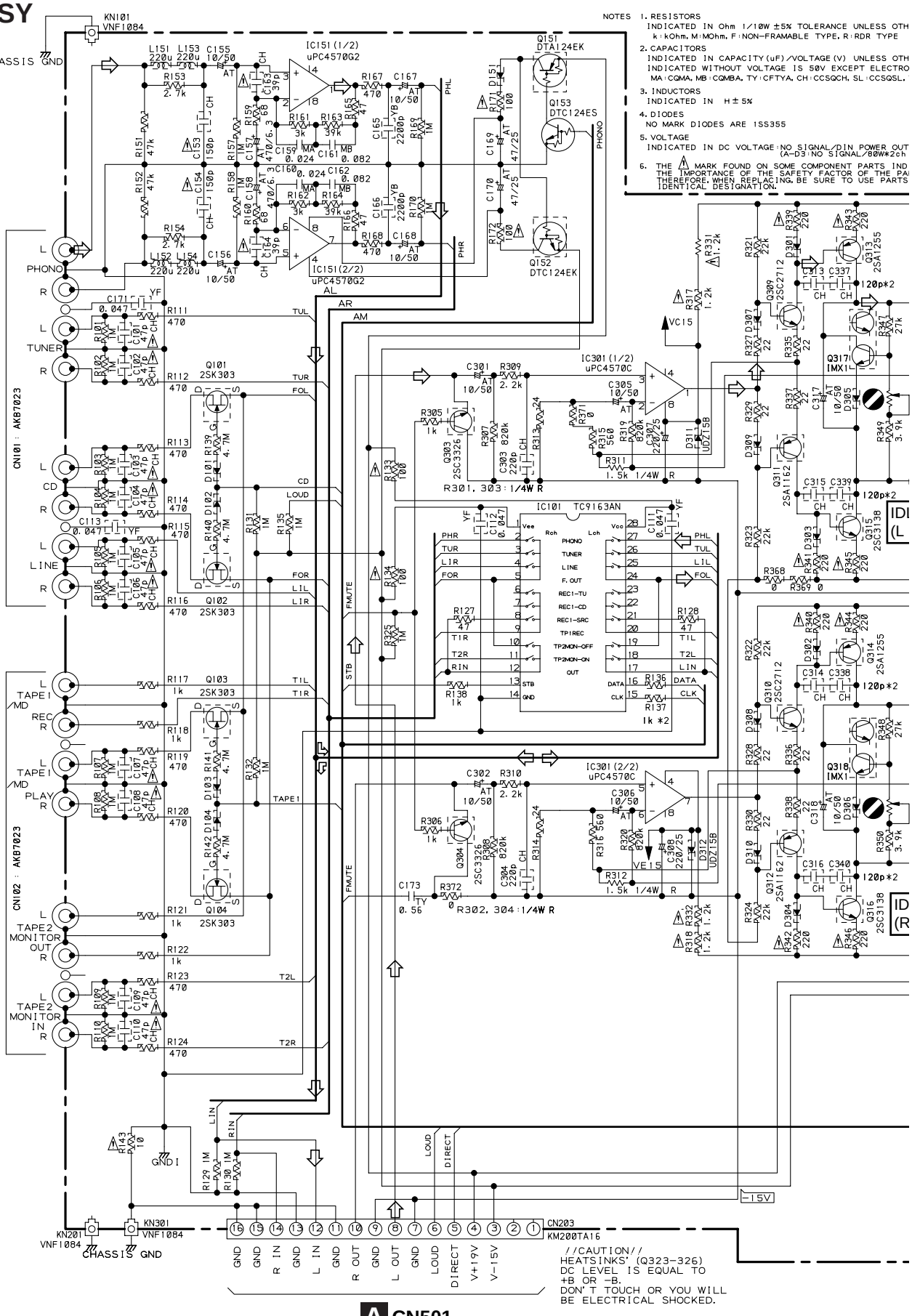
### EF FRONT L ASSY

AWX7120 and AWX7122 are constructed the same except for the following:

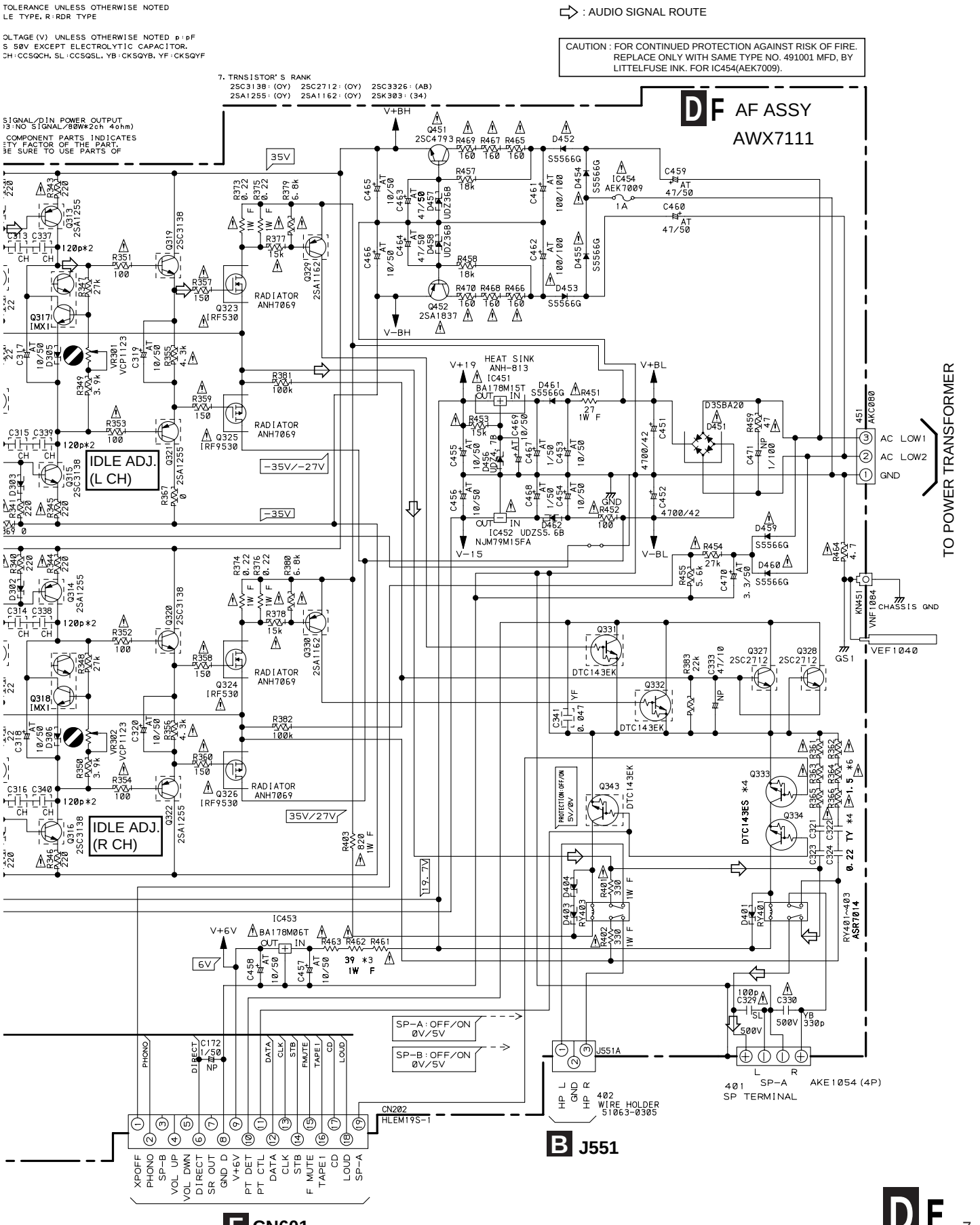
| Mark | Symbol and Description | Part No. | | Remarks |
|---|---|---|---|---|
| | | AWX7122 | AWX7120 | |
| | Q703 | DTC124EK | Not used | |
| | D702 | Not used | SLP9118C51H | |
| | D703, D705 | SLP9118C51H | Not used | |
| | S701 | Not used | ASG1034 | |
| | S703, S704 | ASG1034 | Not used | |
| | R705 | RS1/10S271J | Not used | |

# 2. SCHEMATIC DIAGRAM

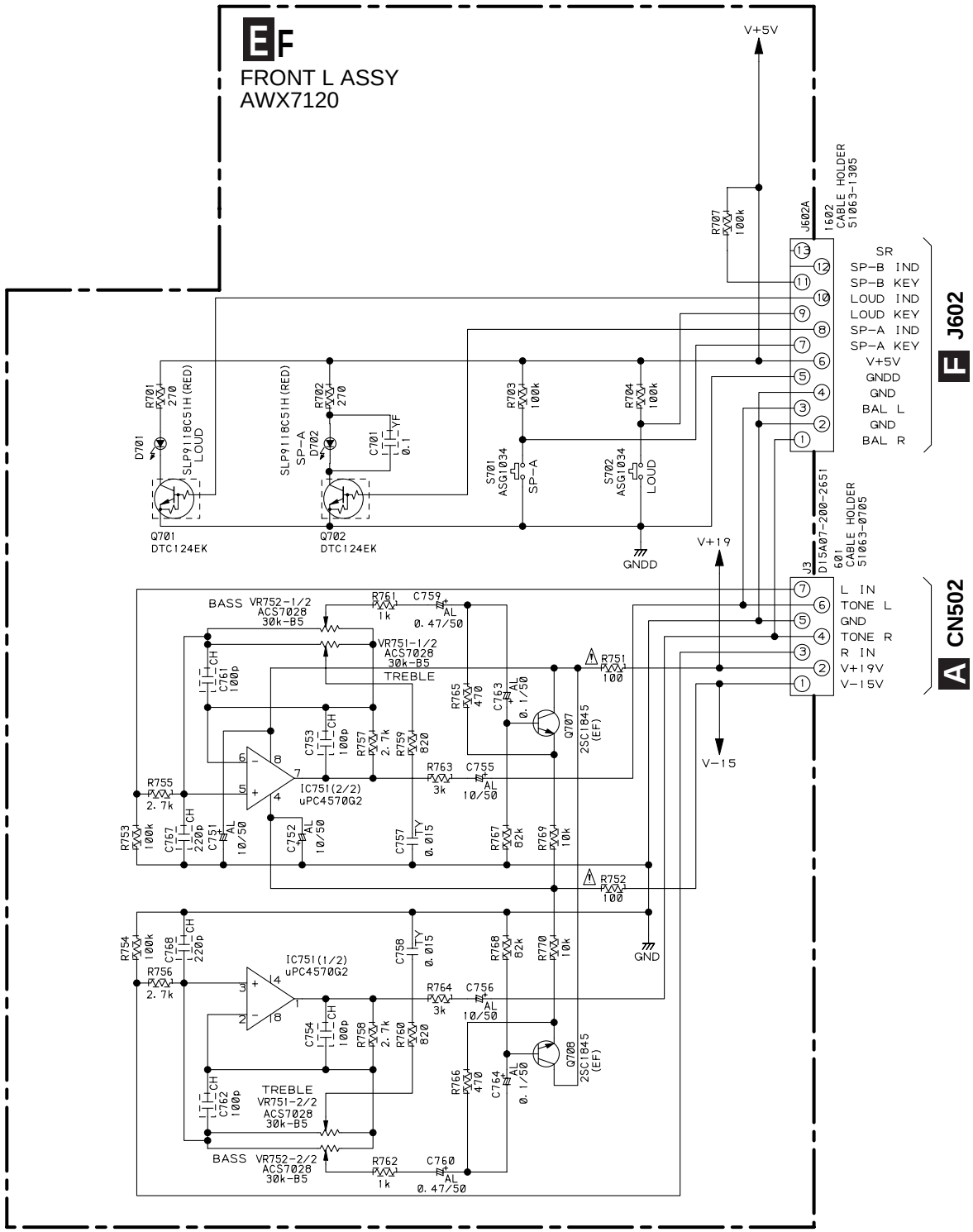
## 2.1 AF ASSY



Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



## 2.2 FRON L ASSY




FRONT L ASSY
S701 : SPEAKER A
S702 : LOUDNESS