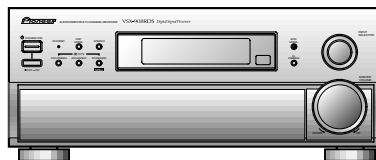


# Service Manual

**Pioneer**



ORDER NO.  
RRV2166

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

# VSX-908RDS VSX-908RDS-G

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. |
|-------|------------|--------------|-------------------|-------------------------------------------------------|
|       | VSX-908RDS | VSX-908RDS-G |                   |                                                       |
| HY/EW | ○          | —            | AC220-230V        | AC240V, *                                             |
| HY/GR | ○          | —            | AC220-230V        | AC240V, *                                             |
| HV    | ○          | —            | AC230V            | AC240V, *                                             |
| HY    | —          | ○            | AC220-230V        | AC240V, *                                             |

\* : Alter the wiring of the Power-supply block at the primary winding of Power-transformer referring to the "Line Voltage Selection" described in Service Manual.

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# 1. SAFETY INFORMATION

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.

## WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

## NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

## REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

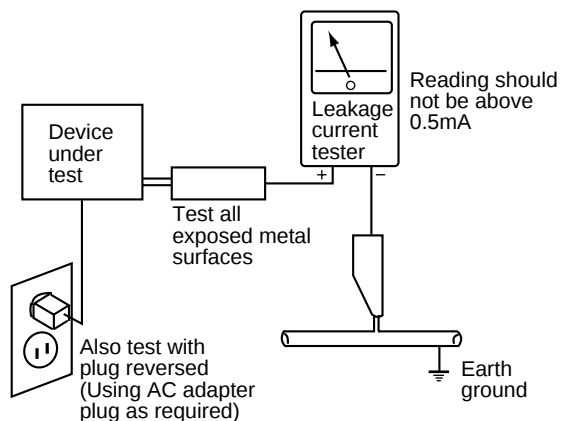
(FOR USA MODEL ONLY)

## 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

### LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

## 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\Delta$  on the schematics and on the parts list in this Service Manual.

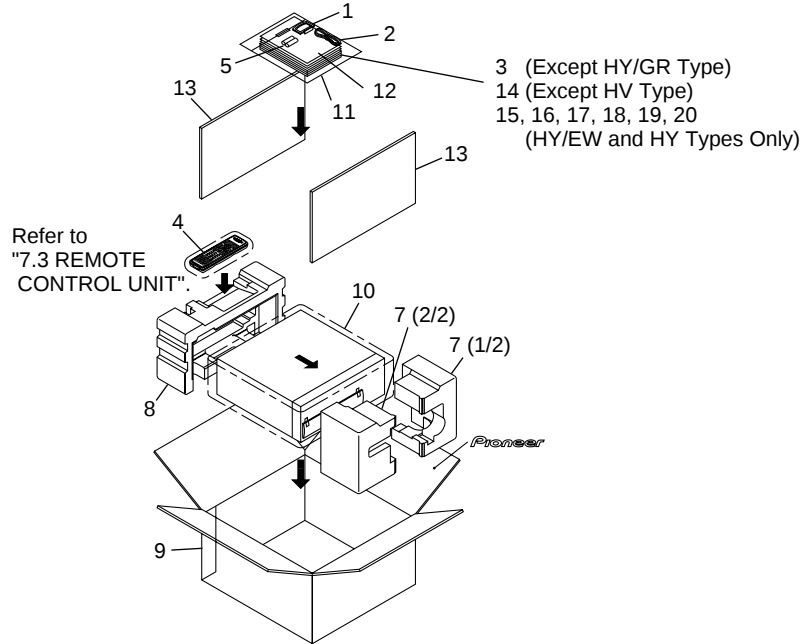
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

## 2. EXPLODED VIEWS AND PARTS LIST

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 ▼ mark on the product are used for disassembly.

### 2.1 PACKING



### (1) PACKING PARTS LIST

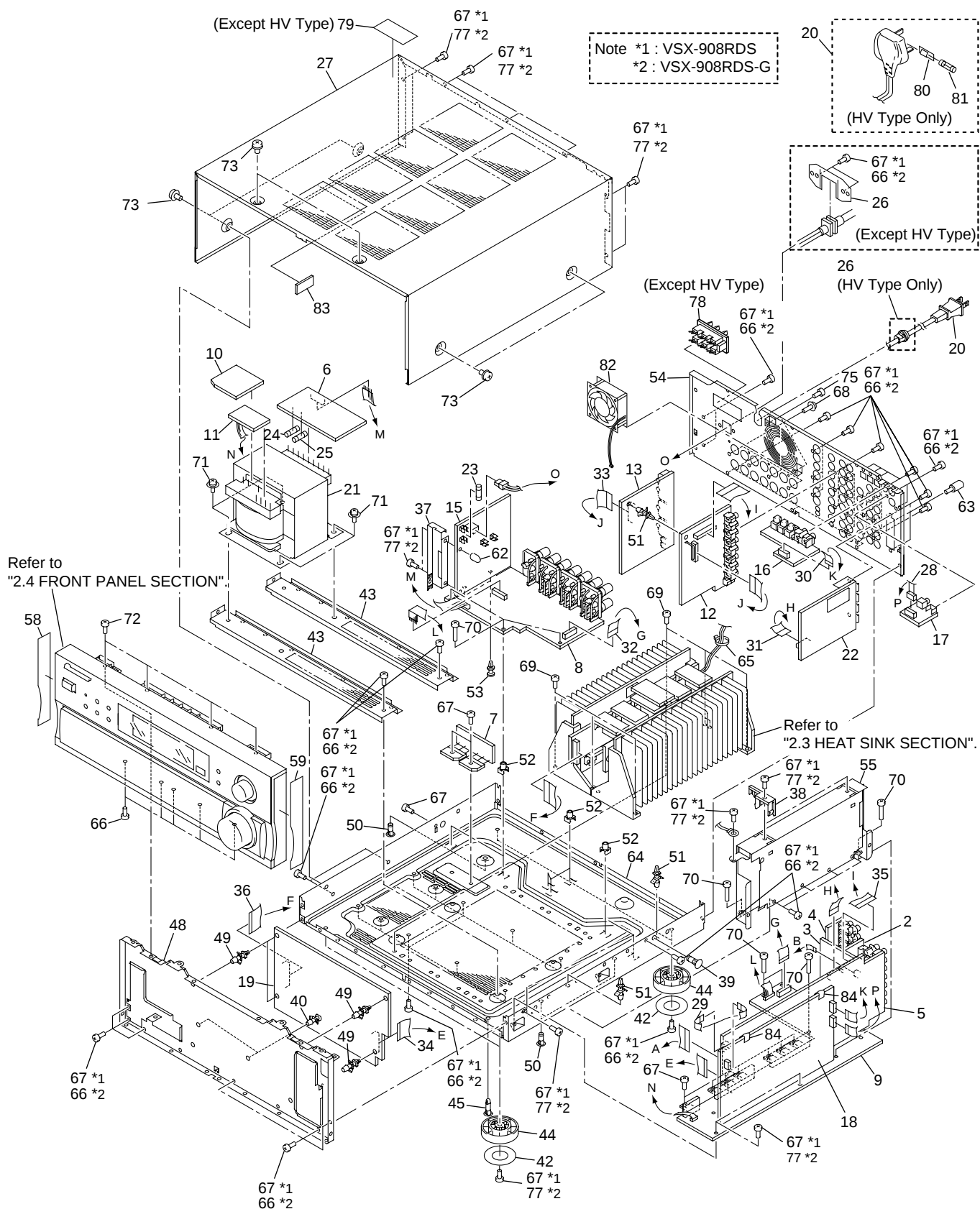
| Mark | No. | Description                         | Part No.               | Mark | No. | Description                     | Part No.               |
|------|-----|-------------------------------------|------------------------|------|-----|---------------------------------|------------------------|
| NSP  | 1   | AM Loop Antenna                     | ATB7009                | NSP  | 11  | Polyethylene Bag (0.03×230×340) | Z21-038                |
|      | 2   | FM Wire Antenna                     | ADH7010                |      | 12  | Warranty Card                   | ARY7022                |
|      | 3   | Operating Instructions(English)     | See Contrast table (2) |      | 13  | Spacer                          | AHB7032                |
|      | 4   | Remote Control Unit                 | See Contrast table (2) |      | 14  | Operating Instructions          | See Contrast table (2) |
|      | 5   | Alkaline Dry Cell Battery (LR6, AA) | VEM1012                |      | 15  | Operating Instructions          | See Contrast table (2) |
|      | 6   | .....                               |                        |      | 16  | Operating Instructions          | See Contrast table (2) |
|      | 7   | Front Pad                           | AHA7253                |      | 17  | Operating Instructions          | See Contrast table (2) |
|      | 8   | Rear Pad                            | AHA7254                |      | 18  | Operating Instructions          | See Contrast table (2) |
|      | 9   | Packing Case                        | See Contrast table (2) |      | 19  | Operating Instructions          | See Contrast table (2) |
|      | 10  | Packing Sheet                       | RHC1023                |      | 20  | Operating Instructions          | See Contrast table (2) |

### (2) CONTRAST TABLE

VSX-908RDS/HY/EW, HY/GR, HV and VSX-908RDS-G/HY are constructed the same except for the following :

| Mark | No. | Symbol and Description              | Part No.          |                   |                |                  | Remarks |
|------|-----|-------------------------------------|-------------------|-------------------|----------------|------------------|---------|
|      |     |                                     | VSX-908RDS /HY/EW | VSX-908RDS /HY/GR | VSX-908RDS /HV | VSX-908RDS -G/HY |         |
|      | 3   | Operating Instructions (English)    | ARB7187           | Not used          | ARB7187        | ARB7187          |         |
|      | 4   | Remote Control Unit (CU-VSX162)     | AXD7214           | AXD7214           | AXD7214        | Not used         |         |
|      | 4   | Remote Control Unit (CU-VSX165)     | Not used          | Not used          | Not used       | AXD7236          |         |
|      | 9   | Packing Case                        | AHD7814           | AHD7814           | AHD7814        | AHD7815          |         |
|      | 14  | Operating Instructions (German)     | ARC7244           | ARC7244           | Not used       | ARC7244          |         |
|      | 15  | Operating Instructions (French)     | ARC7245           | Not used          | Not used       | ARC7245          |         |
|      | 16  | Operating Instructions (Italian)    | ARC7246           | Not used          | Not used       | ARC7246          |         |
|      | 17  | Operating Instructions (Dutch)      | ARC7270           | Not used          | Not used       | ARC7270          |         |
|      | 18  | Operating Instructions (Swedish)    | ARC7280           | Not used          | Not used       | ARC7280          |         |
|      | 19  | Operating Instructions (Spanish)    | ARC7281           | Not used          | Not used       | ARC7281          |         |
|      | 20  | Operating Instructions (Portuguese) | ARC7282           | Not used          | Not used       | ARC7282          |         |

## 2.2 EXTERIOR



**(1) EXTERIOR PARTS LIST**

| Mark | No. | Description                  | Part No.               | Mark | No. | Description         | Part No.               |
|------|-----|------------------------------|------------------------|------|-----|---------------------|------------------------|
|      | 1   | *****                        |                        |      | 41  | *****               |                        |
| NSP  | 2   | EXTERNAL IN Assy             | AWX7413                |      | 42  | Cushion 55          | PNM1316                |
| NSP  | 3   | A-PINJACK Assy               | AWX7412                | NSP  | 43  | Frame 26            | ANG7238                |
|      | 4   | CONNECTION Assy              | AWX7347                |      | 44  | Insulator           | PNW2766                |
|      | 5   | MAIN CONTROL Assy            | AWX7410                |      | 45  | Locking Card Spacer | DEC1908                |
|      | 6   | TRANS 2-1 ASSY               | AWX7403                |      | 46  | *****               |                        |
|      | 7   | DIODE Assy                   | AWX7343                |      | 47  | *****               |                        |
|      | 8   | SP/PS Assy                   | AWX7359                | NSP  | 48  | Panel Stay 26       | AND7031                |
|      | 9   | REGULATOR Assy               | AWX7310                |      | 49  | PC Support          | VEC1549                |
|      | 10  | TRANS 1 Assy                 | AWX7316                | NSP  | 50  | PCB Holder          | AEC7057                |
|      | 11  | TRANS 2-2 Assy               | AWX7518                | NSP  | 51  | PCB Holder          | PNW2100                |
|      | 12  | VIDEO Assy                   | AWX7422                | NSP  | 52  | PCB Mould           | AMR1525                |
|      | 13  | S-VIDEO Assy                 | AWX7395                |      | 53  | PCB Spacer          | AEC1372                |
|      | 14  | *****                        |                        |      | 54  | Rear Panel          | See Contrast table (2) |
|      | 15  | PRIMARY Assy                 | See Contrast table (2) |      | 55  | Shield Case         | ANK7054                |
|      | 16  | DIGITAL-I/O Assy             | AWX7396                |      | 56  | *****               |                        |
| NSP  | 17  | RF TERMINAL Assy             | AWX7376                |      | 57  | *****               |                        |
|      | 18  | DSP Assy                     | AWX7272                |      | 58  | Side Escutcheon L   | See Contrast table (2) |
|      | 19  | V-AMP Assy                   | AWX7309                |      | 59  | Side Escutcheon R   | See Contrast table (2) |
| △    | 20  | AC Power Cord                | See Contrast table (2) |      | 60  | *****               |                        |
| △    | 21  | Power Transformer (T1)       | ATS7253                |      | 61  | *****               |                        |
|      | 22  | FM/AM TUNER Unit             | AXX7048                |      | 62  | Stud Cover          | AEC7105                |
| △    | 23  | Fuse (FU1 : T4A)             | AEK-514                |      | 63  | Terminal Screw      | AKE-031                |
| △    | 24  | Fuse (FU4 : T2A)             | AEK-511                | NSP  | 64  | Under Base 26       | ANA7089                |
| △    | 25  | Fuse (FU5 : T2A)             | AEK-511                | NSP  | 65  | Binder (BK-1)       | ZCA-BK1                |
|      | 26  | AC Cord Spacer               | See Contrast table (2) |      | 66  | Screw               | BBT30P080FCC           |
|      | 27  | Bonnet Case                  | See Contrast table (2) |      | 67  | Screw               | BBZ30P080FZK           |
|      | 28  | 2P Shield with Housing (J24) | ADX7250                |      | 68  | Screw               | ABA1193                |
|      | 29  | Lead Card 07P (J13)          | ADD7161                |      | 69  | Screw               | IBZ30P080FCC           |
|      | 30  | Lead Card 11P AD (J22)       | ADD7170                |      | 70  | Screw               | BBZ30P180FMC           |
|      | 31  | Lead Card 13P AD (J16)       | ADD7169                |      | 71  | Screw               | ABA1015                |
|      | 32  | Lead Card 14P (J17)          | ADD7165                |      | 72  | Screw               | See Contrast table (2) |
|      | 33  | Lead Card 21P (J18)          | ADD7164                |      | 73  | Screw               | See Contrast table (2) |
|      | 34  | Lead Card 23P BD SLD (J12)   | ADD7160                |      | 74  | Screw               | BBZ30P060FCC           |
|      | 35  | Lead Card 26P (J15)          | ADD7163                |      | 75  | Screw               | IBZ30P100FCC           |
|      | 36  | Lead Card 28P (J23)          | ADD7171                |      | 76  | Screw               | BBT30P080FZK           |
|      | 37  | Assy Holder                  | ANG7121                |      | 77  | Screw               | BBZ30P080FCC           |
|      | 38  | Assy Holder B                | AMR7267                | △    | 78  | AC Socket 3P        | See Contrast table (2) |
|      | 39  | Card Spacer                  | AEC7133                |      | 79  | Caution Label       | See Contrast table (2) |
|      | 40  | Card Spacer                  | DEC1772                |      | 80  | Fuse Holder         | See Contrast table (2) |
|      |     |                              |                        | △    | 81  | Fuse (T5A)          | See Contrast table (2) |
|      |     |                              |                        | △    | 82  | Fan Motor           | AXM7012                |
|      |     |                              |                        | NSP  | 83  | Spacer              | AEB1254                |
|      |     |                              |                        |      | 84  | Remo-con. Cushion   | AEB7167                |

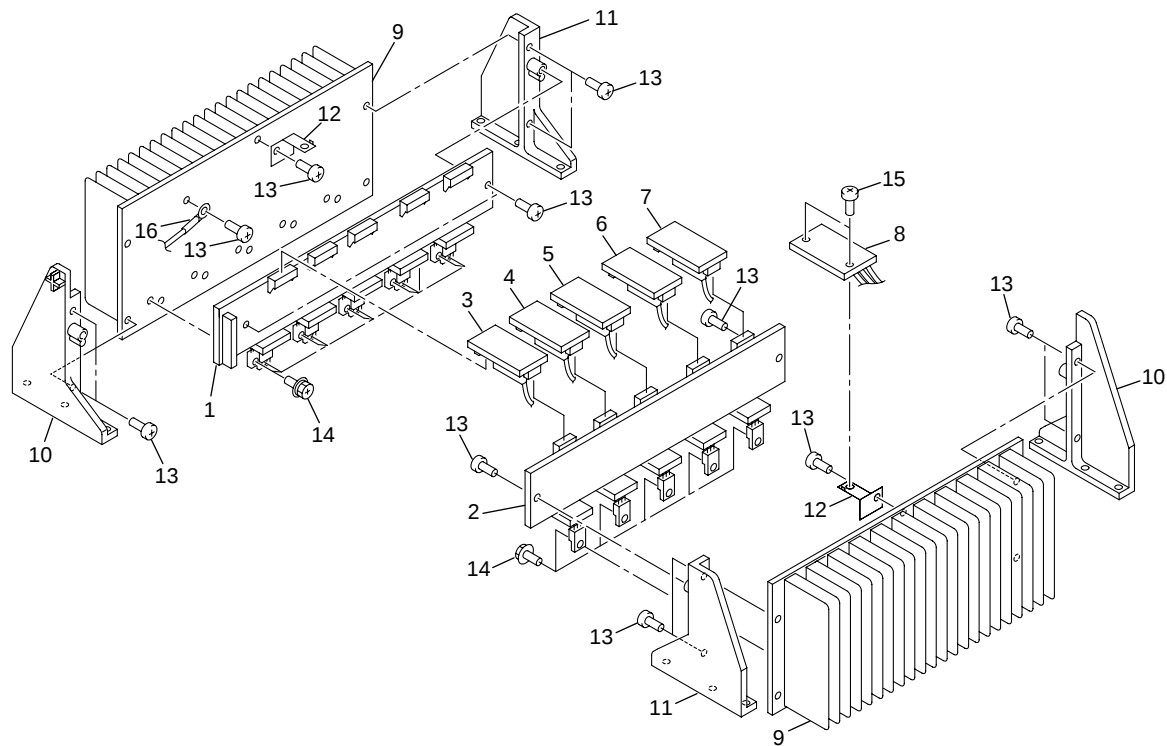
# VSX-908RDS, VSX-908RDS-G

## (2) CONTRAST TABLE

VSX-908RDS/HY/EW, HY/GR, HV and VSX-908RDS-G/HY are constructed the same except for the following :

| Mark | No. | Symbol and Description | Part No.             |                      |                   |                     | Remarks |
|------|-----|------------------------|----------------------|----------------------|-------------------|---------------------|---------|
|      |     |                        | VSX-908RDS<br>/HY/EW | VSX-908RDS<br>/HY/GR | VSX-908RDS<br>/HV | VSX-908RDS<br>-G/HY |         |
| △    | 15  | PRIMARY Assy           | AWX7345              | AWX7345              | AWX7454           | AWX7345             |         |
|      | 20  | AC Power Cord          | ADG7029              | ADG7029              | VDG1063           | ADG7029             |         |
|      | 26  | AC Cord Spacer         | ANG1153              | ANG1153              | Not used          | ANG1153             |         |
|      | 26  | Cord Stopper           | Not used             | Not used             | CM-22B            | Not used            |         |
|      | 27  | Bonnet Case            | AZN7808              | AZN7808              | AZN7808           | AZN7809             |         |
|      | 54  | Rear Panel             | ANC7742              | ANC7742              | ANC7818           | ANC7866             |         |
|      | 58  | Side Escutheon L 98    | AAK7660              | AAK7660              | AAK7660           | Not used            |         |
|      | 58  | Side Escutheon L D8    | Not used             | Not used             | Not used          | AAK7662             |         |
|      | 59  | Side Escutheon R 98    | AAK7661              | AAK7661              | AAK7661           | Not used            |         |
|      | 59  | Side Escutheon R D8    | Not used             | Not used             | Not used          | AAK7663             |         |
| △    | 72  | Screw                  | BBT30P100FZK         | BBT30P100FZK         | BBT30P100FZK      | BBT30P100FCC        |         |
|      | 73  | Screw                  | FBT40P080FZK         | FBT40P080FZK         | FBT40P080FZK      | FBT40P080FNI        |         |
|      | 78  | AC Socket 3p           | AKP-502              | AKP-502              | Not used          | AKP-502             |         |
|      | 79  | Caution Label          | ARW7036              | ARW7036              | Not used          | ARW7036             |         |
| △    | 80  | Fuse Holder            | Not used             | Not used             | VKR1003           | Not used            |         |
|      | 81  | Fuse (T5A)             | Not used             | Not used             | PEK1003           | Not used            |         |

2.3 HEAT SINK SECTION



(1) HEAT SINK SECTION PARTS LIST

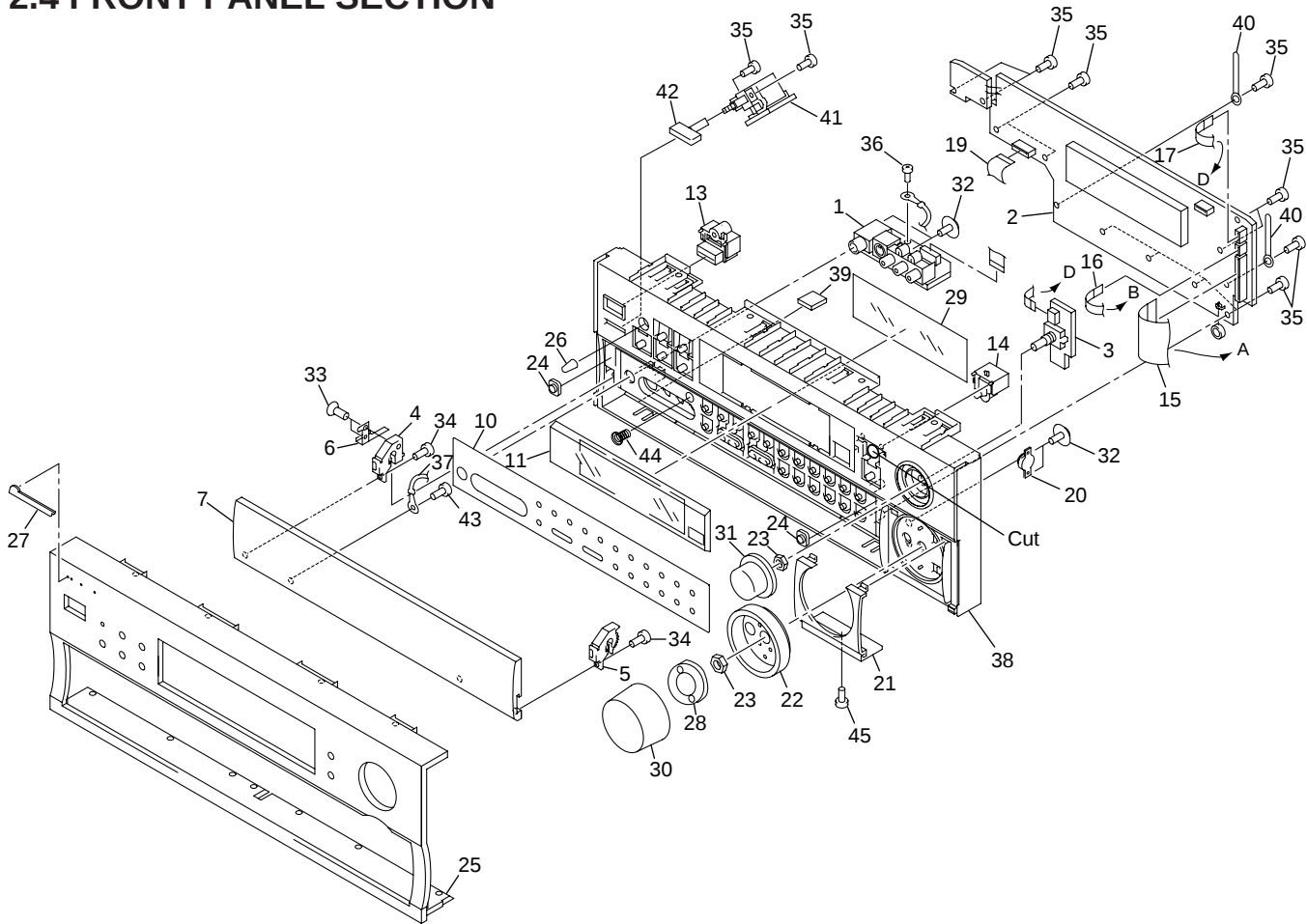
| Mark | No. | Description        | Part No.               |
|------|-----|--------------------|------------------------|
|      | 1   | C-AMP N Assy       | AWX7318                |
| NSP  | 2   | C-AMP-P Assy       | AWX7317                |
| NSP  | 3   | OUTPUT-SL Assy     | AWX7322                |
| NSP  | 4   | OUTPUT-FL Assy     | AWX7319                |
|      | 5   | OUTPUT-C Assy      | AWX7321                |
| NSP  | 6   | OUTPUT-FR Assy     | AWX7320                |
| NSP  | 7   | OUTPUT-SR Assy     | AWX7323                |
|      | 8   | VL-TERMINAL Assy   | AWX7324                |
| NSP  | 9   | Heat Sink          | ANH7102                |
|      | 10  | Heat Sink Holder B | AMR7256                |
|      | 11  | Heat Sink Holder A | AMR7255                |
| NSP  | 12  | Power Supply Plate | ANG7240                |
|      | 13  | Screw              | See Contrast table (2) |
|      | 14  | Screw              | ABA1082                |
|      | 15  | Screw              | IBZ30P080FCC           |
| △    | 16  | Thermistor         | AEX7004                |

(2) CONTRAST TABLE

VSX-908RDS/HY/EW, HY/GR, HV and VSX-908RDS-G/HY are constructed the same except for the following :

| Mark | No. | Symbol and Description | Part No.             |                      |                   |                     | Remarks |
|------|-----|------------------------|----------------------|----------------------|-------------------|---------------------|---------|
|      |     |                        | VSX-908RDS<br>/HY/EW | VSX-908RDS<br>/HY/GR | VSX-908RDS<br>/HV | VSX-908RDS<br>-G/HY |         |
|      | 13  | Screw                  | BBZ30P080FZK         | BBZ30P080FZK         | BBZ30P080FZK      | BBZ30P080FCC        |         |

## 2.4 FRONT PANEL SECTION



### (1) FRONT PANEL SECTION PARTS LIST

| Mark | No. | Description               | Part No.               | Mark | No.                          | Description            | Part No.               |
|------|-----|---------------------------|------------------------|------|------------------------------|------------------------|------------------------|
| NSP  | 1   | H. PHONE/F. VIDEO Assy    | AWX7342                | 26   | LED Lens                     | PNW2019                |                        |
|      | 2   | DISPLAY Assy              | AWX7414                | 27   | Name Plate                   | See Contrast table (2) |                        |
|      | 3   | ROTARY ENCODER Assy       | AWX7405                | 28   | Ring Spacer D5               | AWL7038                |                        |
|      | 4   | Door Hinge L              | See Contrast table (2) | 29   | FL Sheet D10                 | AAK7629                |                        |
|      | 5   | Door Hinge R              | See Contrast table (2) | 30   | Volume Knob (MASTER VOLUME)  | See Contrast table (2) |                        |
| NSP  | 6   | Magnet Angle              | ANG7241                | 31   | Rotary Knob (INPUT SELECTOR) | See Contrast table (2) |                        |
|      | 7   | Door Panel                | See Contrast table (2) | 32   | Screw                        | ABA7053                |                        |
|      | 8   | .....                     |                        | 33   | Screw                        | PBA1096                |                        |
|      | 9   | .....                     |                        | 34   | Screw                        | BBZ30P060FCC           |                        |
|      | 10  | Door Sheet                | See Contrast table (2) | 35   | Screw                        | BPZ30P080FMC           |                        |
|      | 11  | Display Panel             | See Contrast table (2) | NSP  | 36                           | Screw                  | See Contrast table (2) |
|      | 12  | .....                     |                        |      | 37                           | Cord with Plug         | ADH7020                |
|      | 13  | Power Button (STANDBY/ON) | See Contrast table (2) |      | 38                           | Panel Base             | See Contrast table (2) |
|      | 14  | MR Button (MULTIROOM)     | See Contrast table (2) |      | 39                           | Magnet                 | AMF7002                |
|      | 15  | Lead Card 32P (J11)       | ADD7159                |      | 40                           | Cord Clamper           | RNH-184                |
|      | 16  | Lead Card 05P (J14)       | ADD7162                |      | 41                           | P-SW Assy              | AWX7330                |
|      | 17  | Lead Card 06P (J20)       | ADD7167                |      | 42                           | Power Button MG        | See Contrast table (2) |
|      | 18  | .....                     |                        |      | 43                           | Screw                  | See Contrast table (2) |
|      | 19  | Lead Card 12P (J21)       | ADD7166                |      | 44                           | GND Spring             | ABH7172                |
|      | 20  | Damper Assy (60)          | AXA7076                |      | 45                           | Screw                  | See Contrast table (2) |
|      | 21  | Sub Panel                 | See Contrast table (2) |      |                              |                        |                        |
|      | 22  | Volume Ring               | See Contrast table (2) |      |                              |                        |                        |
|      | 23  | Nut                       | NK90FUC                |      |                              |                        |                        |
|      | 24  | Door Cusion               | See Contrast table (2) |      |                              |                        |                        |
|      | 25  | Front Panel               | See Contrast table (2) |      |                              |                        |                        |

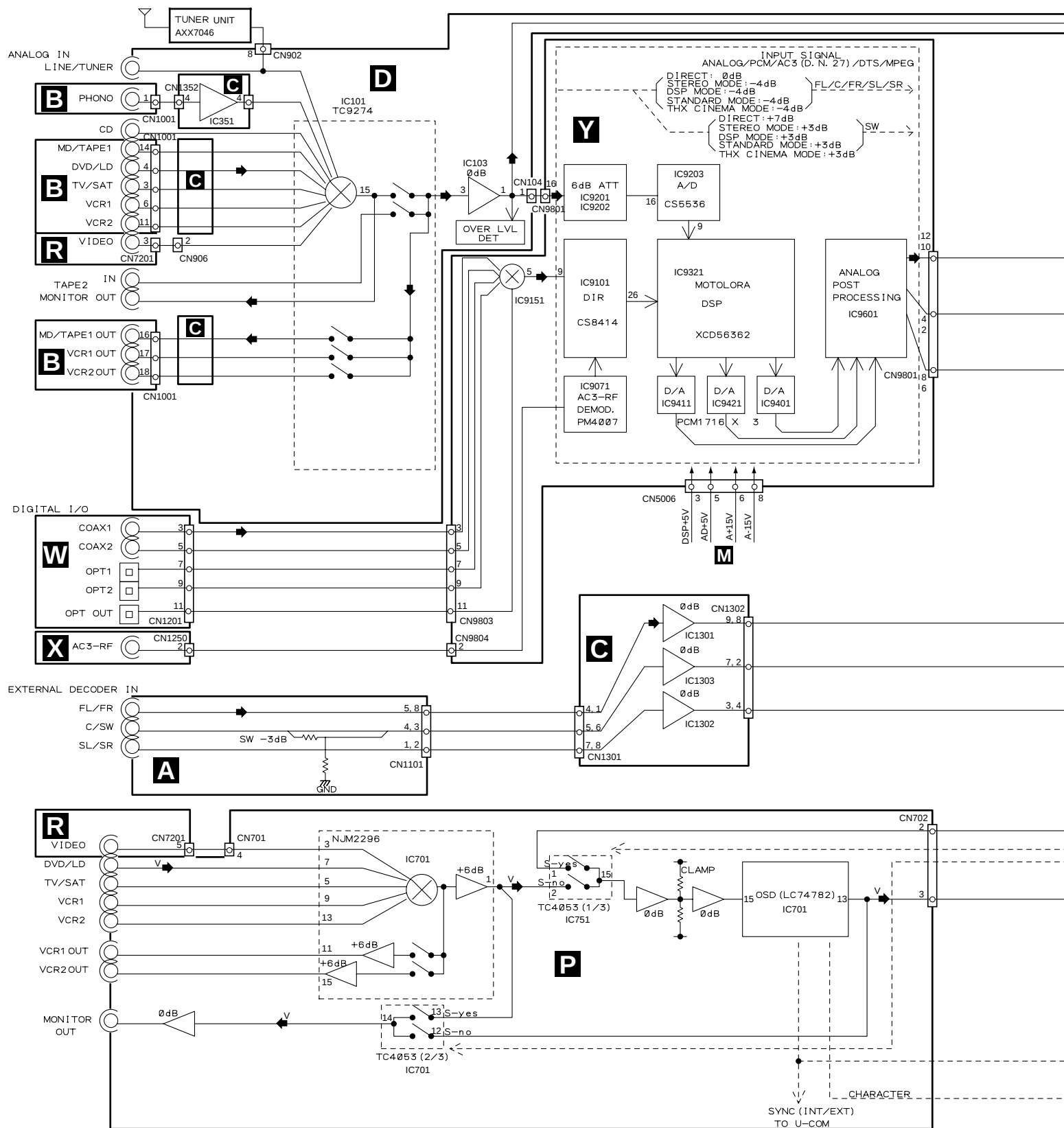
**(2) CONTRAST TABLE**

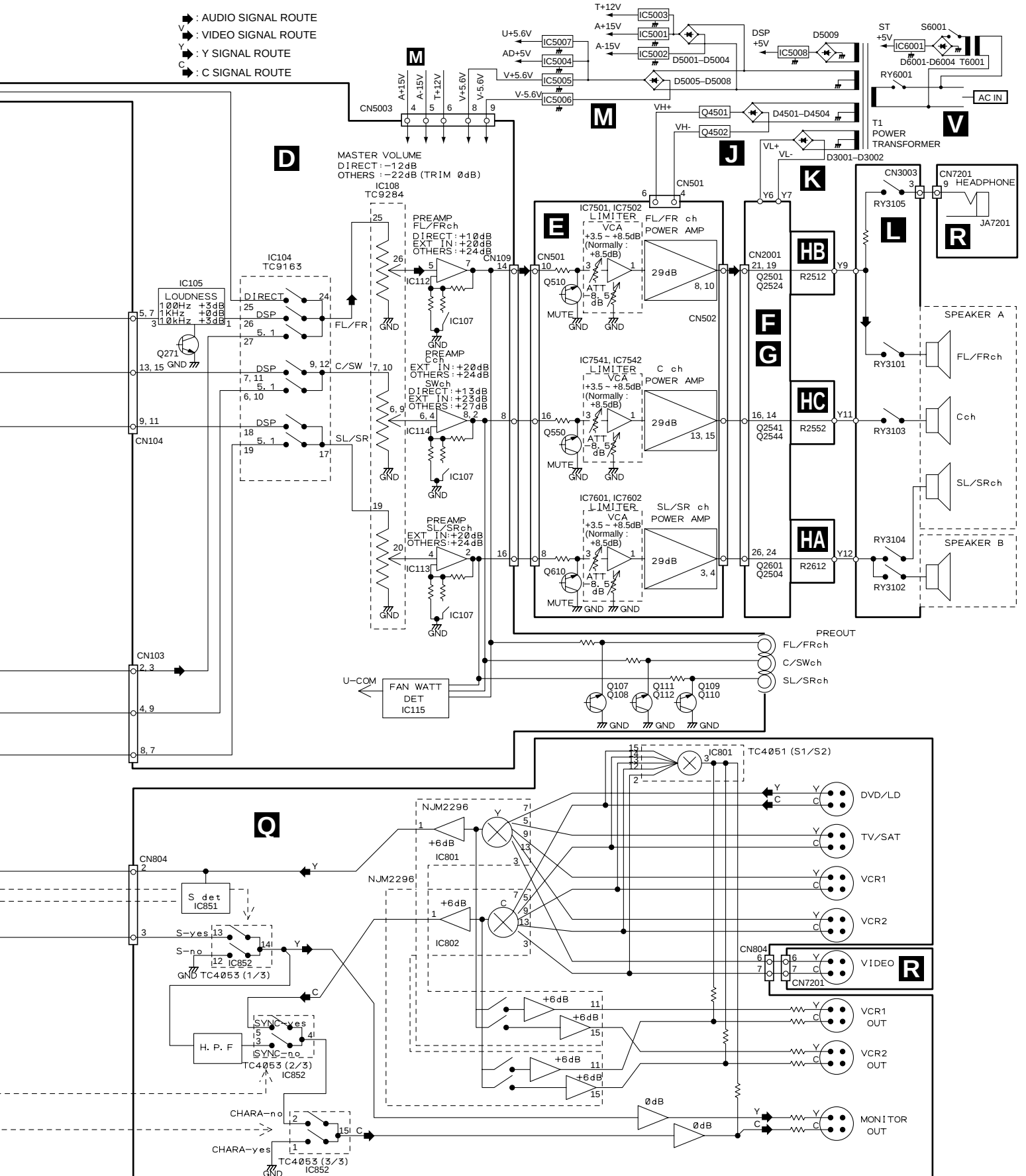
VSX-908RDS/HY/EW, HY/GR, HV and VSX-908RDS-G/HY are constructed the same except for the following :

| Mark | No. | Symbol and Description | Part No.             |                      |                   |                     | Remarks |
|------|-----|------------------------|----------------------|----------------------|-------------------|---------------------|---------|
|      |     |                        | VSX-908RDS<br>/HY/EW | VSX-908RDS<br>/HY/GR | VSX-908RDS<br>/HV | VSX-908RDS<br>-G/HY |         |
|      | 4   | Door Hinge 26 L        | AMR7252              | AMR7252              | AMR7252           | Not used            |         |
|      | 4   | Door Hinge D10 L       | Not used             | Not used             | Not used          | AMR7250             |         |
|      | 5   | Door Hinge 26 R        | AMR7253              | AMR7253              | AMR7253           | Not used            |         |
|      | 5   | Door Hinge D10 R       | Not used             | Not used             | Not used          | AMR7251             |         |
|      | 7   | Door Panel 98          | ANB7199              | ANB7199              | ANB7199           | Not used            |         |
|      | 7   | Door Panel E07         | Not used             | Not used             | Not used          | ANB7175             |         |
|      | 10  | Door Sheet 98R         | AAK7664              | AAK7664              | AAK7664           | Not used            |         |
|      | 10  | Door Sheet 98RG        | Not used             | Not used             | Not used          | AAH7057             |         |
|      | 11  | Display Panel SD       | AAK7630              | AAK7630              | AAK7630           | Not used            |         |
|      | 11  | Display Panel SDG      | Not used             | Not used             | Not used          | AAK7631             |         |
|      | 13  | Power Button           | AAD7440              | AAD7440              | AAD7440           | Not used            |         |
|      | 13  | Power Button G         | Not used             | Not used             | Not used          | AAD7485             |         |
|      | 14  | MR Button 26           | AAD7514              | AAD7514              | AAD7514           | Not used            |         |
|      | 14  | MR Button G            | Not used             | Not used             | Not used          | AAD7541             |         |
|      | 21  | Sub Panel 98           | ANB7200              | ANB7200              | ANB7200           | Not used            |         |
|      | 21  | Sub Panel D8           | Not used             | Not used             | Not used          | ANB7207             |         |
|      | 22  | Volume Ring 98         | AAH7028              | AAH7028              | AAH7028           | Not used            |         |
|      | 22  | Volume Ring D10        | Not used             | Not used             | Not used          | AAH7016             |         |
|      | 24  | Door Cusion B          | AEB7152              | AEB7152              | AEB7152           | Not used            |         |
|      | 24  | Door Cusion G          | Not used             | Not used             | Not used          | AEB7153             |         |
|      | 25  | Front Panel 908        | ANB7173              | ANB7173              | ANB7173           | Not used            |         |
|      | 25  | Front Panel 98RG       | Not used             | Not used             | Not used          | ANB7176             |         |
|      | 27  | Name Plate B           | PAN1376              | PAN1376              | PAN1376           | Not used            |         |
|      | 27  | Name Plate G           | Not used             | Not used             | Not used          | PAN1377             |         |
|      | 30  | Volume Knob 98         | AAB7199              | AAB7199              | AAB7199           | Not used            |         |
|      | 30  | Volume Knob 98HL       | Not used             | Not used             | Not used          | AAB7210             |         |
|      | 31  | Rotary Knob 29         | AAB7221              | AAB7221              | AAB7221           | Not used            |         |
|      | 31  | Rotary Knob E07        | Not used             | Not used             | Not used          | AAB7209             |         |
|      | 36  | Screw                  | BBZ30P080FZK         | BBZ30P080FZK         | BBZ30P080FZK      | BBZ30P080FCC        |         |
|      | 38  | Panel Base 98          | AMB7637              | AMB7637              | AMB7637           | Not used            |         |
|      | 38  | Panel Base D8          | Not used             | Not used             | Not used          | AMB7572             |         |
|      | 42  | Power Button M         | AAD7442              | AAD7442              | AAD7442           | Not used            |         |
|      | 42  | Power Button MG        | Not used             | Not used             | Not used          | AAD7491             |         |
|      | 43  | Screw                  | BBZ30P050FZK         | BBZ30P050FZK         | BBZ30P050FZK      | BBZ30P050FMC        |         |
|      | 45  | Screw                  | BBT30P080FZK         | BBT30P080FZK         | BBT30P080FZK      | BBT30P080FCC        |         |

## 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

### 3.1 BLOCK DIAGRAM





### 3.2 OVERALL WIRING CONNECTION DIAGRAM

**T** ROTARY ENCODER ASSY (AWX7405)

**S** DISPLAY ASSY (AWX7414)

**E** (**E** 1/2, **E** 2/2)  
V-AMP ASSY (AWX7309)

**G** C-AMP-P ASSY (AWX7317)

**HE** OUTPUT-SR ASSY (AWX7323)

**HD** OUTPUT-FR ASSY (AWX7320)

**HC** OUTPUT-C ASSY (AWX7321)

**HB** OUTPUT-FL ASSY (AWX7319)

**HA** OUTPUT-SL ASSY (AWX7322)

**I** VL-TERMINAL ASSY (AWX7324)

**M** REGULATOR ASSY (AWX7310)

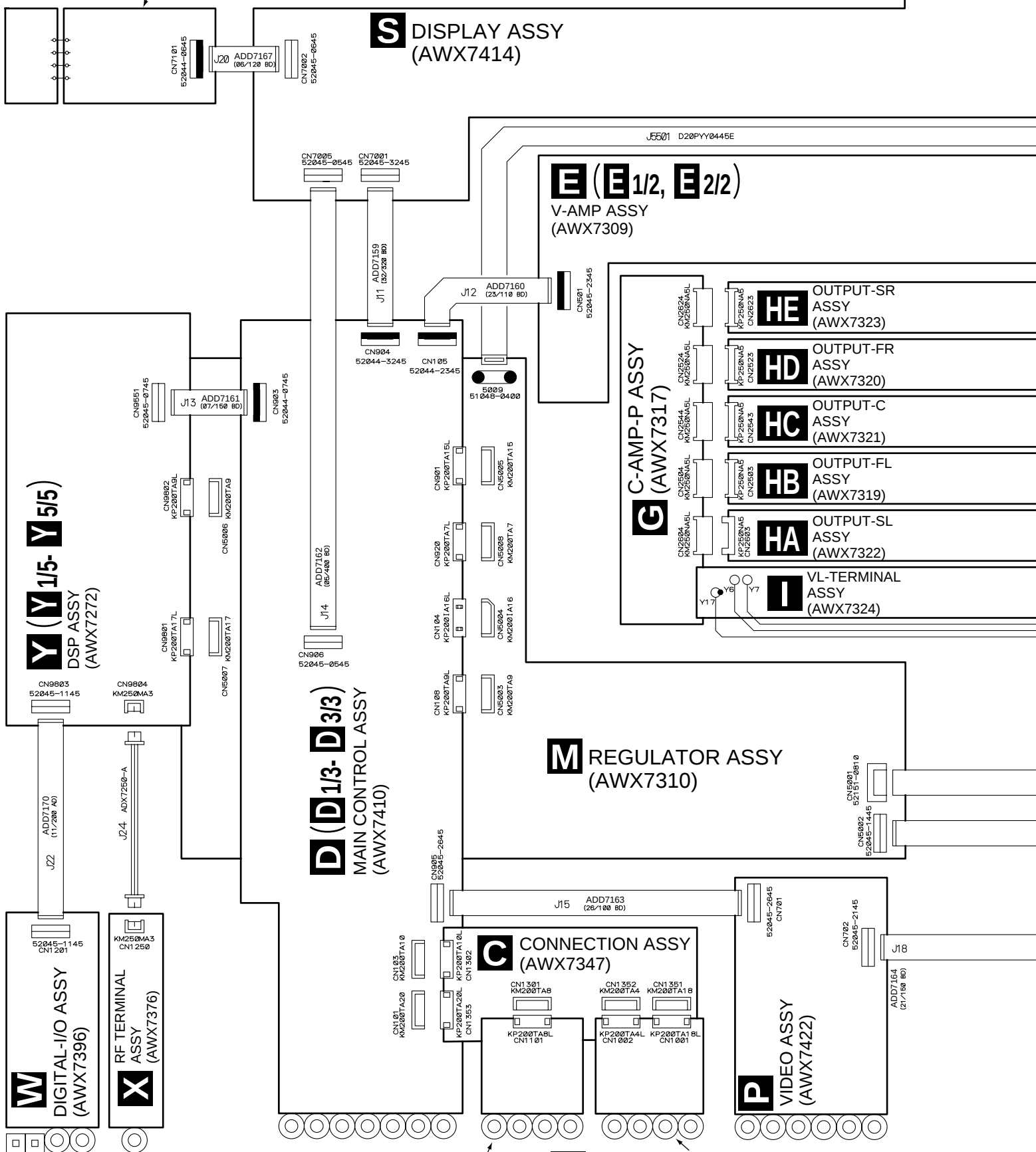
**D** (**D** 1/3, **D** 3/3)  
MAIN CONTROL ASSY (AWX7410)

**C** CONNECTION ASSY (AWX7347)

**P** VIDEO ASSY (AWX7422)

**A** EXTERNAL IN ASSY (AWX7413)

**B** A-PINJACK ASSY (AWX7412)





### 3.3 EXTERNAL IN, A-PINJACK and CONNECTION ASSYS

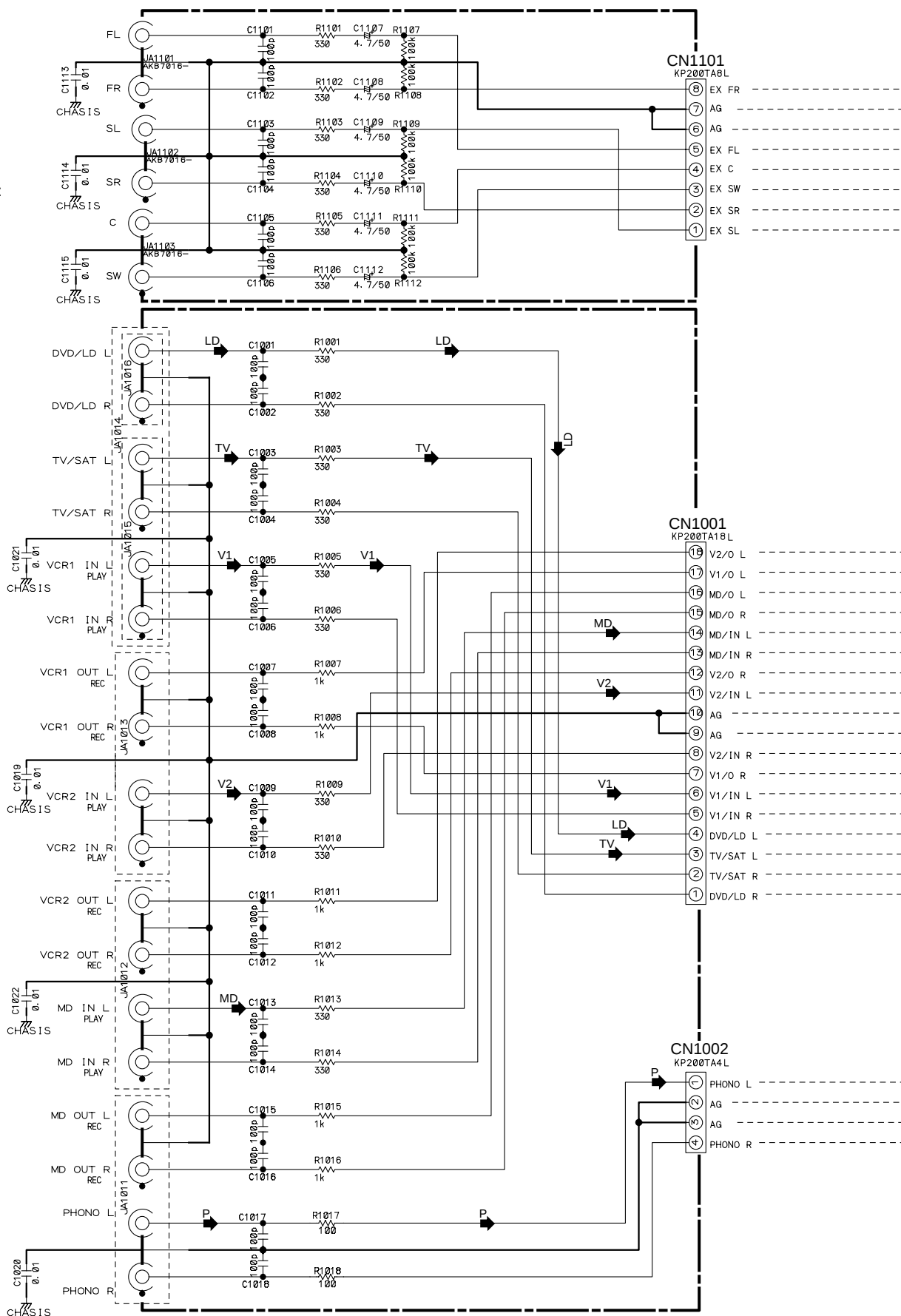
#### A EXTERNAL IN ASSY (AWX7413)

JA1101-JA1103 :  
AKB7095

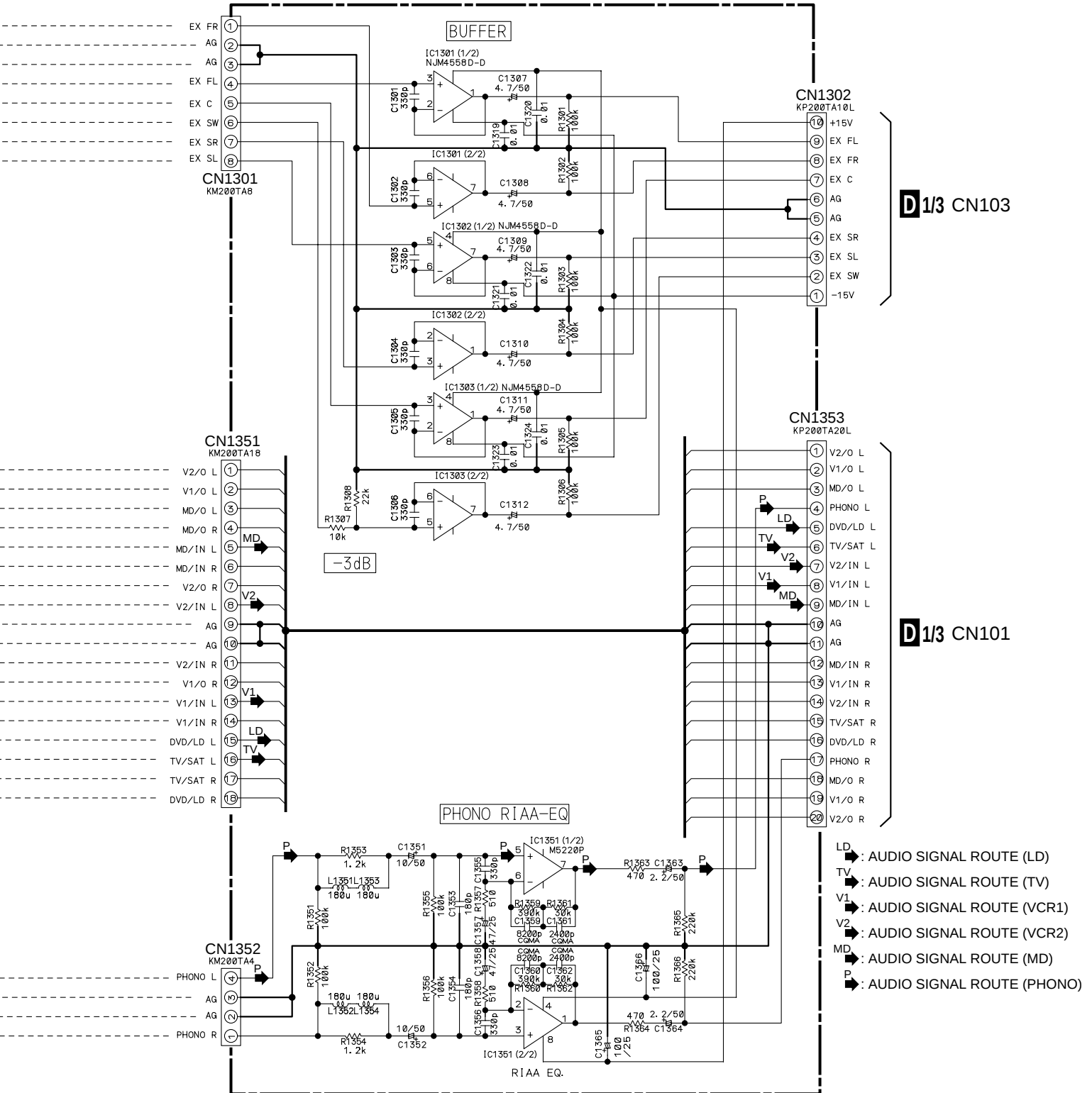
#### B A-PINJACK ASSY (AWX7412)

JA1015: AKB7048  
JA1016: AKB7120

JA1011-JA1013 :  
AKB7048

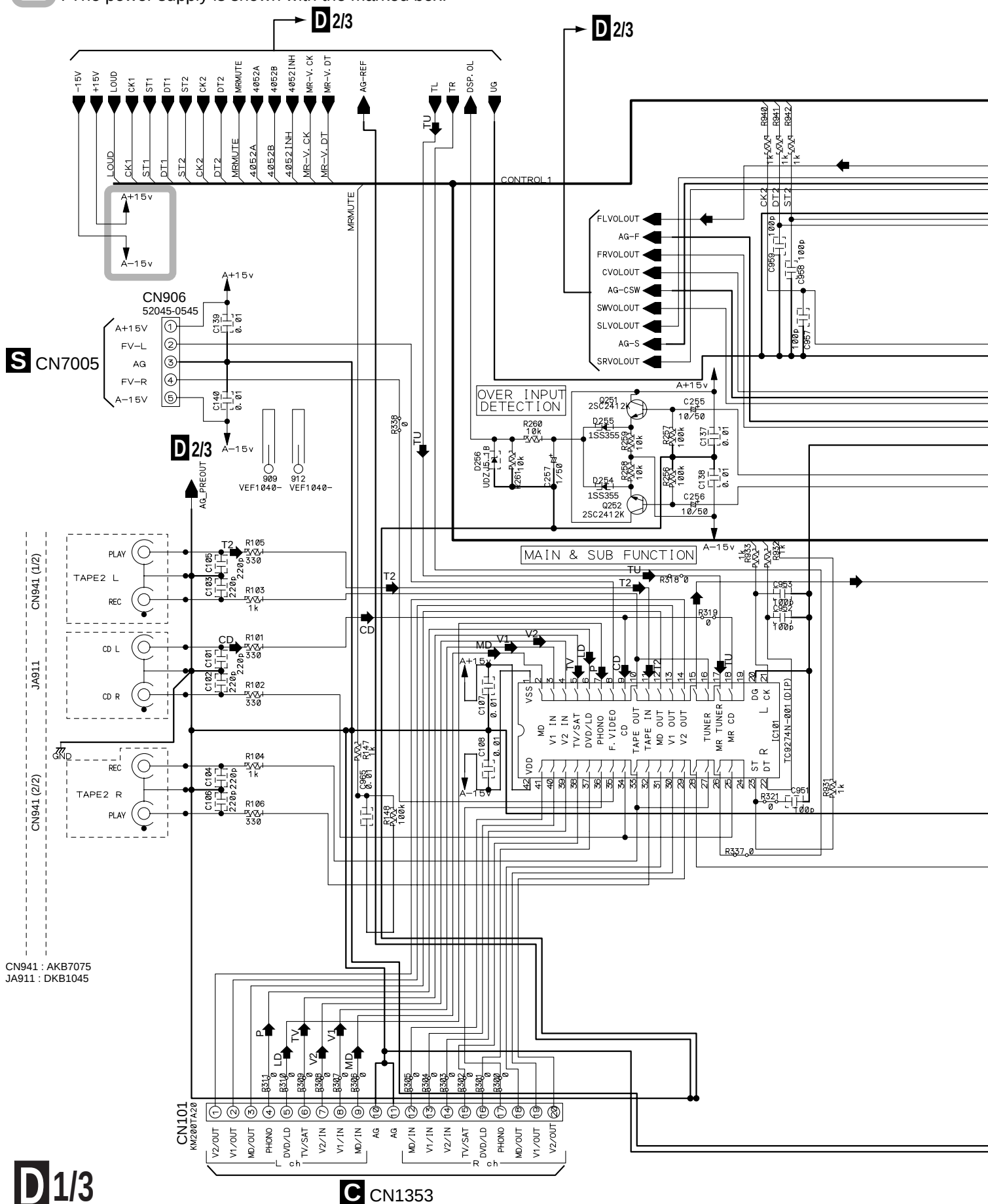


# **C** CONNECTION ASSY (AWX7347)



### 3.4 MAIN CONTROL ASSY (1/3)

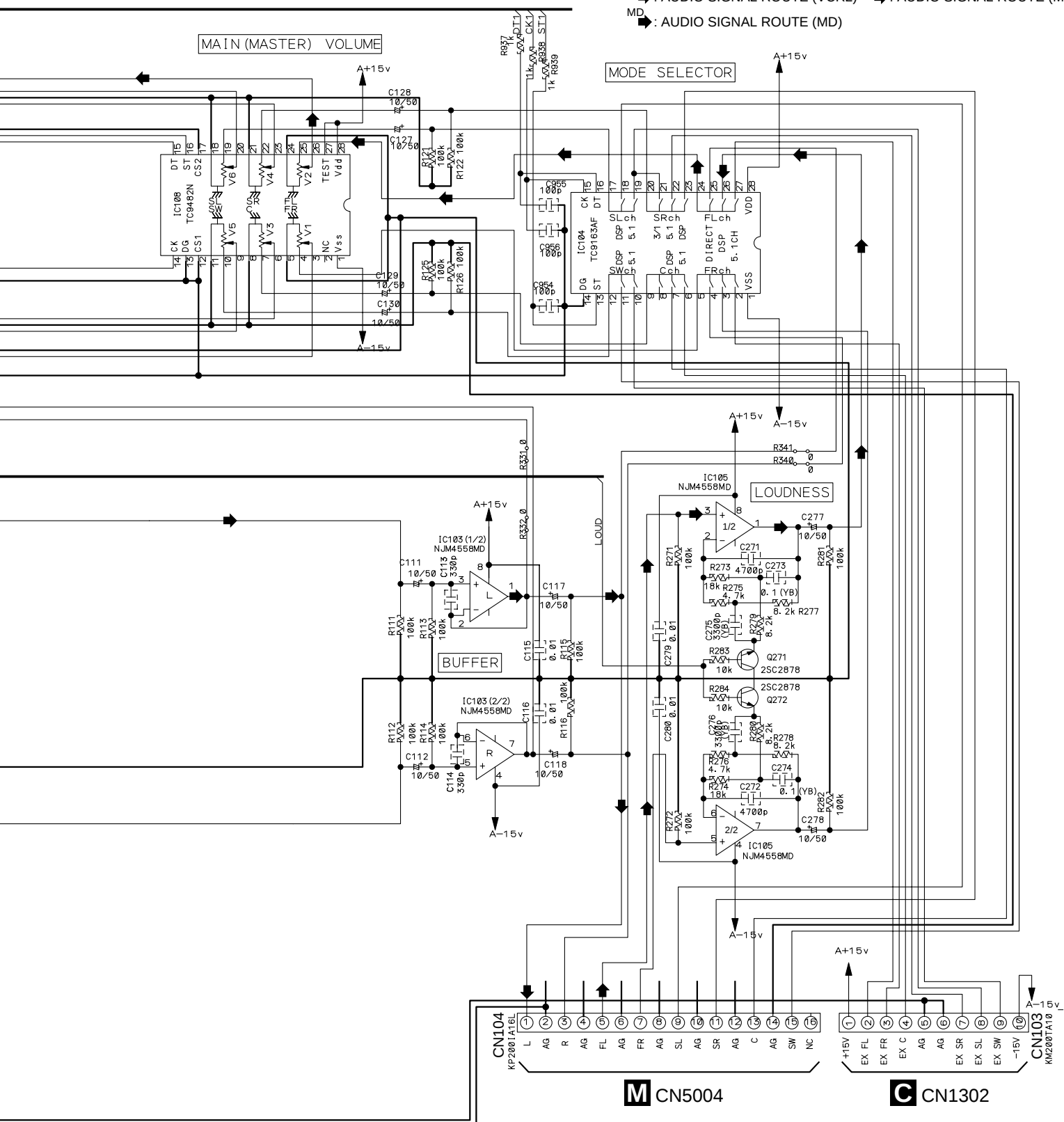
 : The power supply is shown with the marked box.



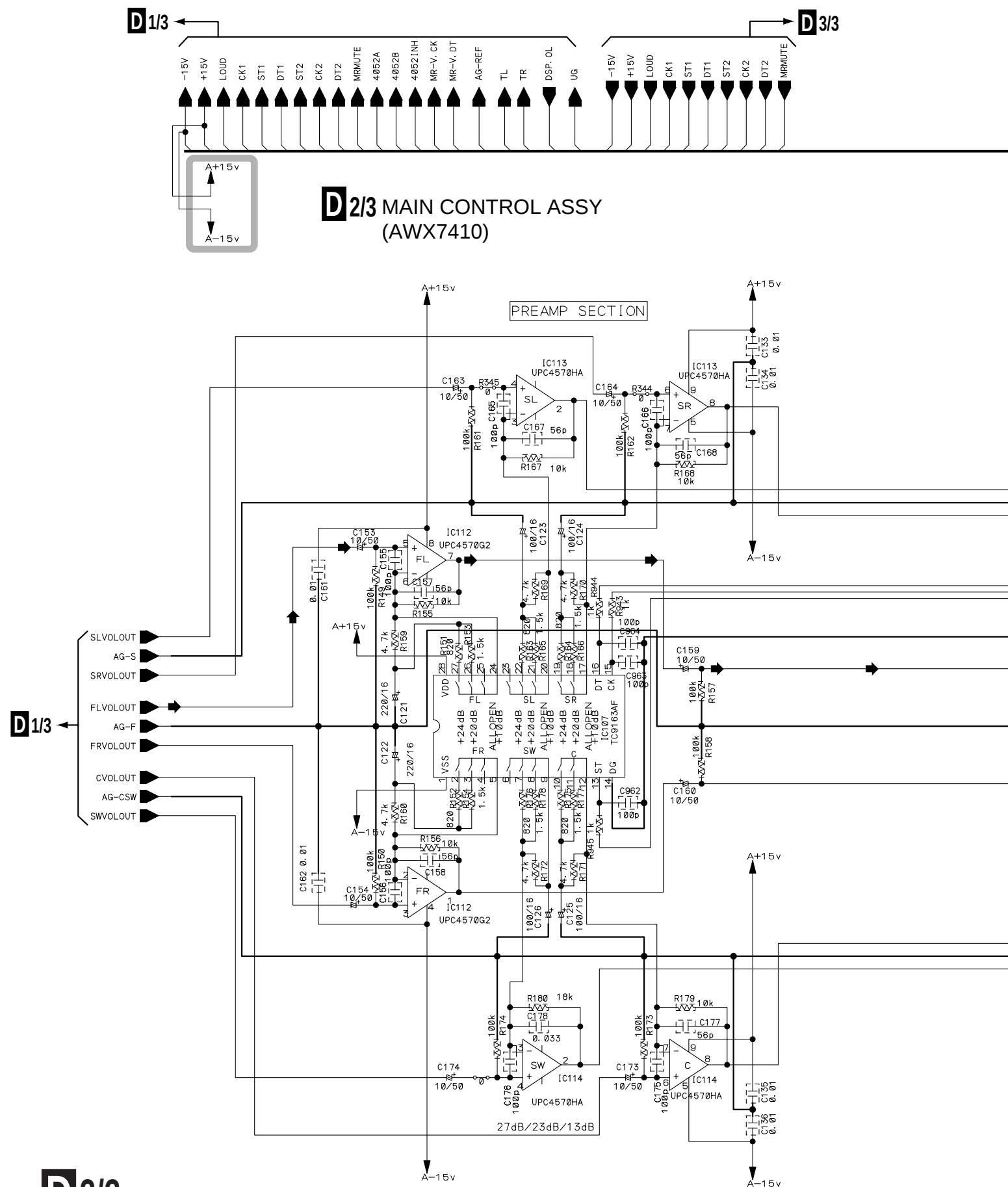
## VSX-908RDS, VSX-908RDS-G

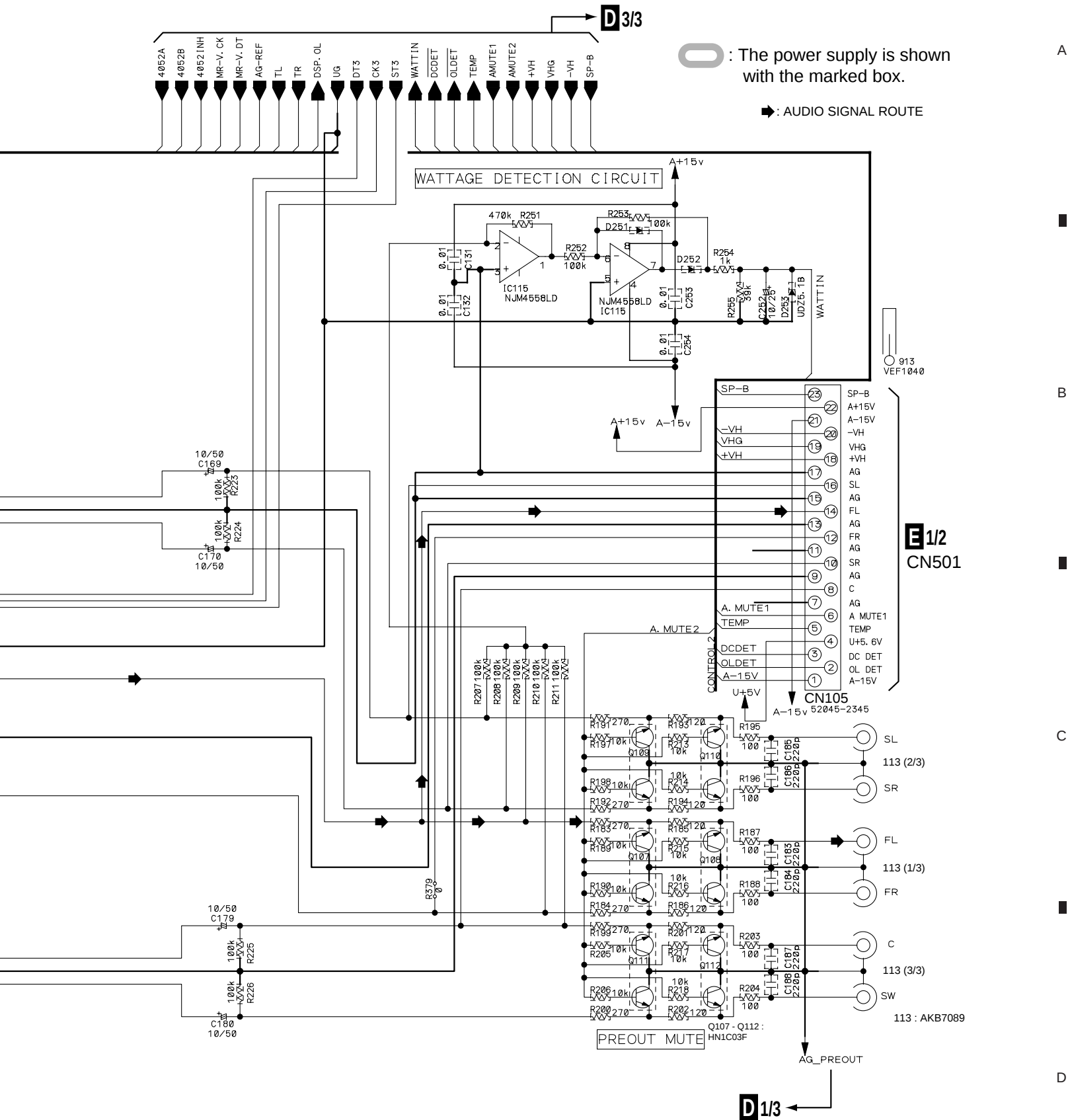
**D1/3**MAIN CONTROL ASSY  
(AWX7410)

- ◆ : AUDIO SIGNAL ROUTE  
 LD ◆ : AUDIO SIGNAL ROUTE (LD)  
 TV ◆ : AUDIO SIGNAL ROUTE (TV)  
 V1 ◆ : AUDIO SIGNAL ROUTE (VCR1)  
 V2 ◆ : AUDIO SIGNAL ROUTE (VCR2)  
 MD ◆ : AUDIO SIGNAL ROUTE (MD)
- P ◆ : AUDIO SIGNAL ROUTE (PHONO)  
 TU ◆ : AUDIO SIGNAL ROUTE (TUNER)  
 CD ◆ : AUDIO SIGNAL ROUTE (CD)  
 T2 ◆ : AUDIO SIGNAL ROUTE (TAPE2)  
 MR ◆ : AUDIO SIGNAL ROUTE (MR)

**M** CN5004**C** CN1302**D1/3**

### 3.5 MAIN CONTROL ASSY (2/3)





### 3.6 MAIN CONTROL ASSY (3/3)

A

B

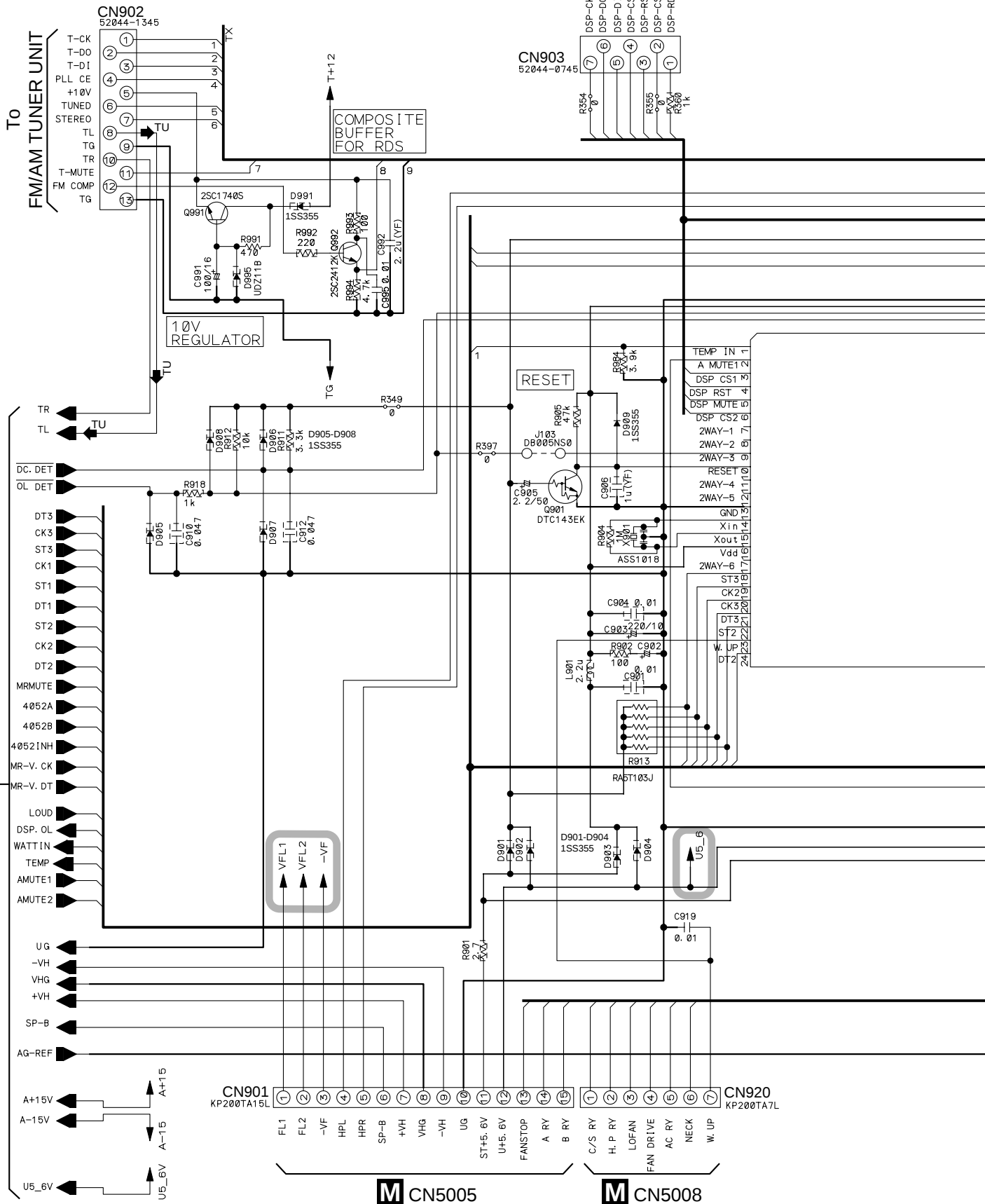
C

D

D2/3

M CN5005

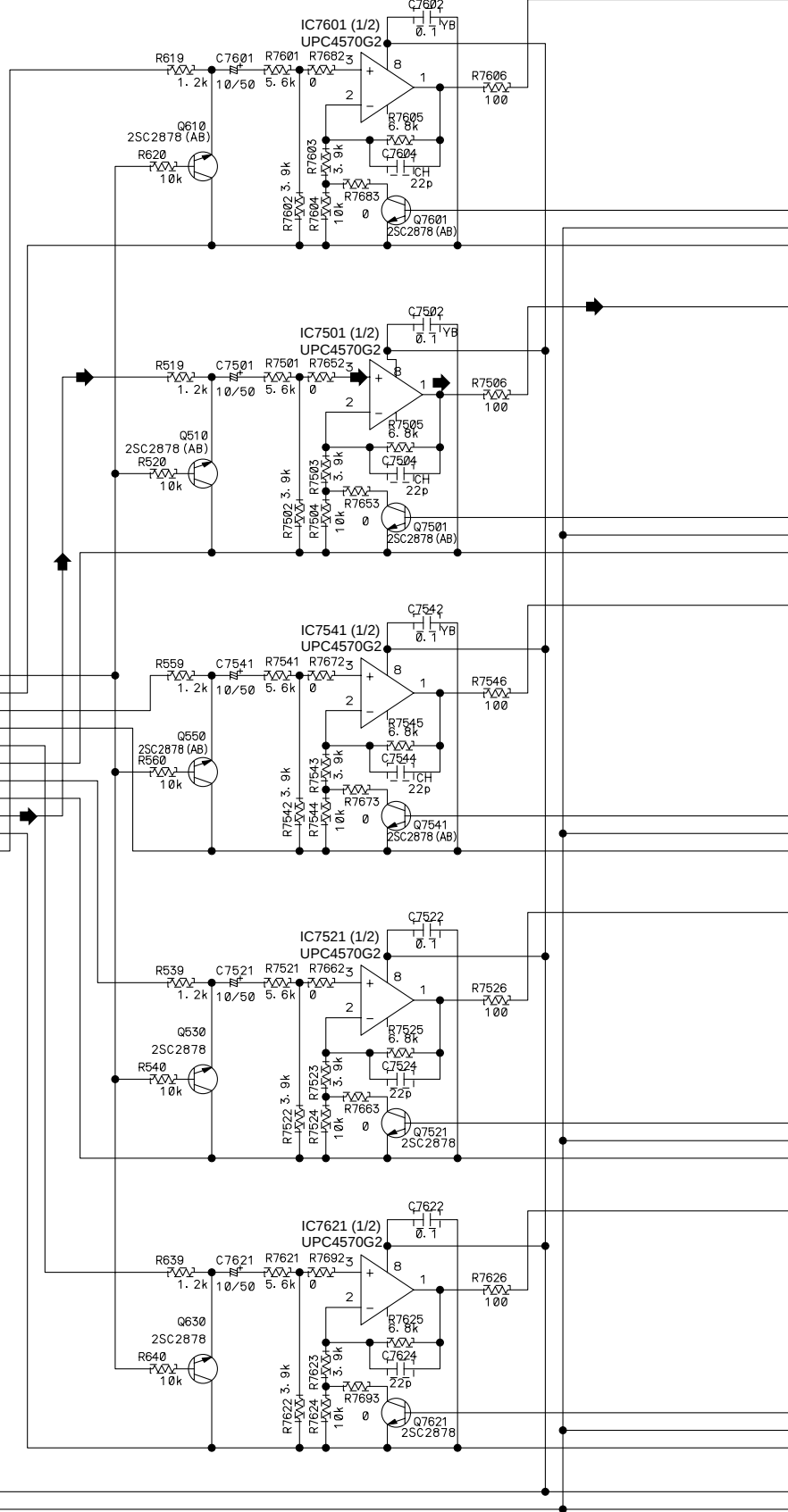
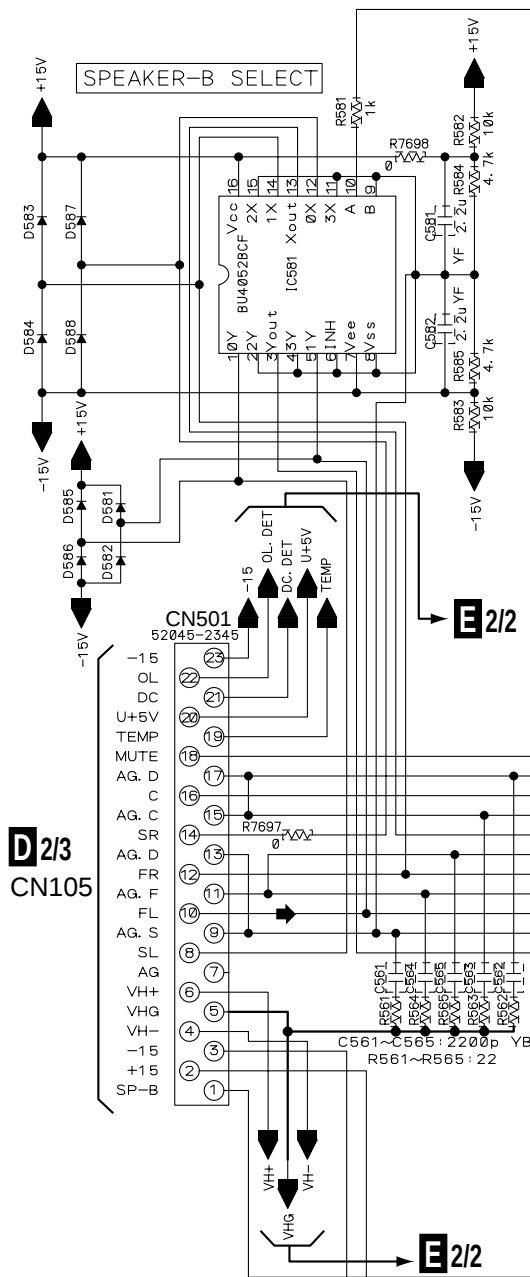
M CN5008





3.7 V-AMP ASSY (1/2)

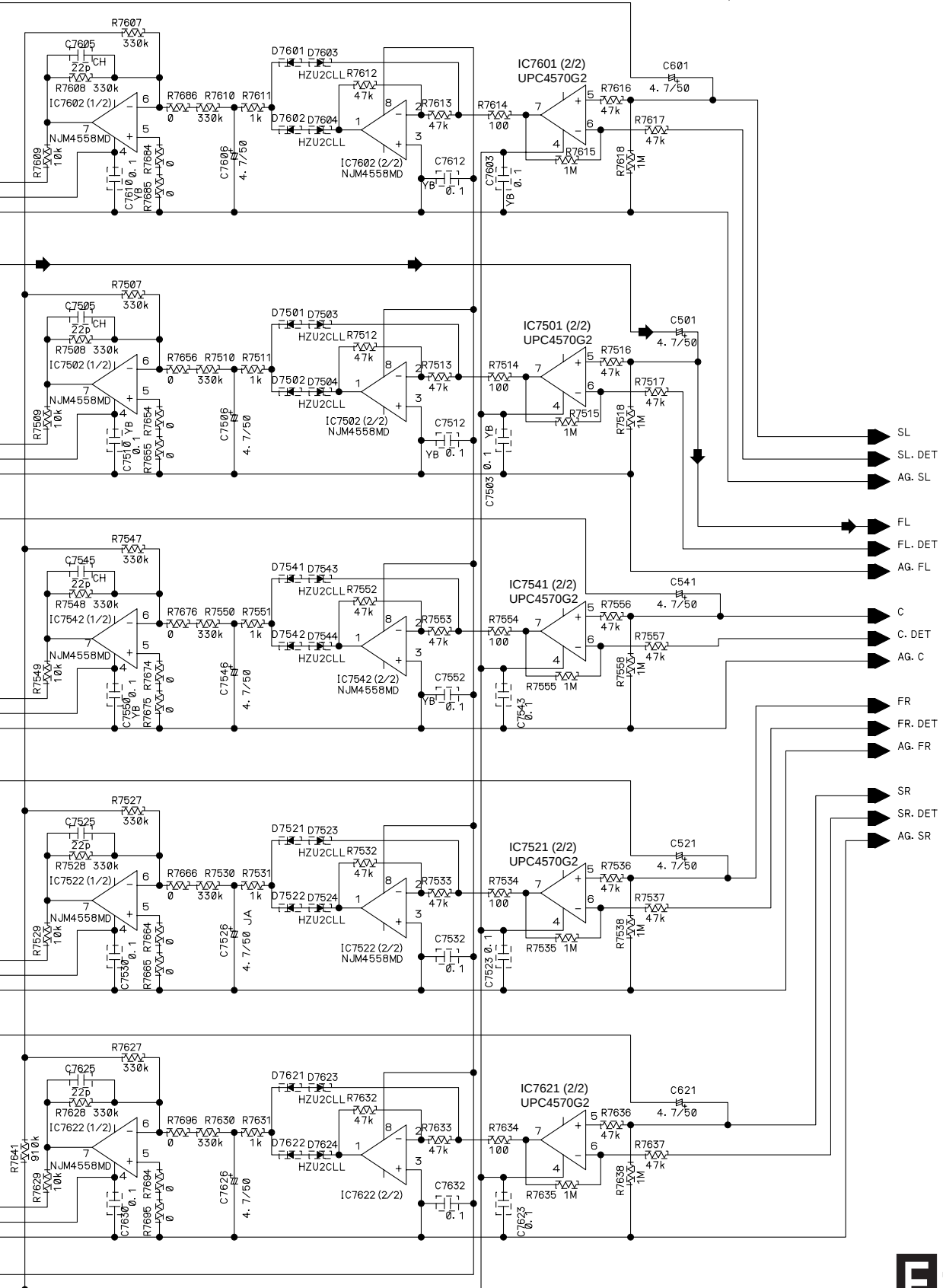
**E** 1/2 V-AMP ASSY  
(AWX7309)



- NO MARK DIODE:1SS355
- RESISTOR:1/4W, JX
- NO MARK ELECTROLYTIC CAPACITOR:CEAS  
JA:CEJA
- NON ELECTROLYTICAL CAPACITOR:CCCCH TYPE

MAIN CHANNEL LIMITER

➡: AUDIO SIGNAL ROUTE





**E 2/2** V-AMP ASSY  
(AWX7309)

POWER AMP VOLTAGE AMPLIFYING STAGE

➡: AUDIO SIGNAL ROUTE

- NO MARK DIODE:1SS355
- RESISTOR:1/4W, J%
- NO MARK ELECTROLYTIC CAPACITOR:CEAS  
JA:CEJA
- NON ELECTROLYTICAL CAPACITOR:CCCCH TYPE

CN502  
52045-2845

- |    |        |   |        |
|----|--------|---|--------|
| 1  | BI+    | } | SL     |
| 2  | BI-    |   |        |
| 3  | G-     |   |        |
| 4  | NFB    | } | FL     |
| 5  | G+     |   |        |
| 6  | BI+    |   |        |
| 7  | BI-    | } | C      |
| 8  | G-     |   |        |
| 9  | NFB    |   |        |
| 10 | G+     | } | FR     |
| 11 | B+     |   |        |
| 12 | B-     |   |        |
| 13 | G-     | } | SR     |
| 14 | NFB    |   |        |
| 15 | G+     |   |        |
| 16 | BI+    | } | AMP G  |
| 17 | BI-    |   |        |
| 18 | G-     |   |        |
| 19 | NFB    | } | DC DET |
| 20 | G+     |   |        |
| 21 | BI+    |   |        |
| 22 | BI-    | } |        |
| 23 | G-     |   |        |
| 24 | NFB    |   |        |
| 25 | G+     | } |        |
| 26 | OL DET |   |        |
| 27 | AMP G  |   |        |
| 28 | DC DET | } |        |
| 29 |        |   |        |
| 30 |        |   |        |

**F** CN2001

**E 1/2**

**E 1/2**

3.9 C-AMP-N, C-AMP-P, OUTPUT-SL, OUTPUT-FL, OUTPUT-C, OUTPUT-FR, OUTPUT-SR and VL-TERMINAL ASSYS

A

**F**

C-AMP-N ASSY  
(AWX7318)

B

**E** 2/2

CN502

C

PUF: RD1/4PUF\*\*\*J-T  
NON FRAMABLE TYPE

DIODES WITHOUT INDICATION: 1SS133

**G**

C-AMP-P ASSY  
(AWX7317)

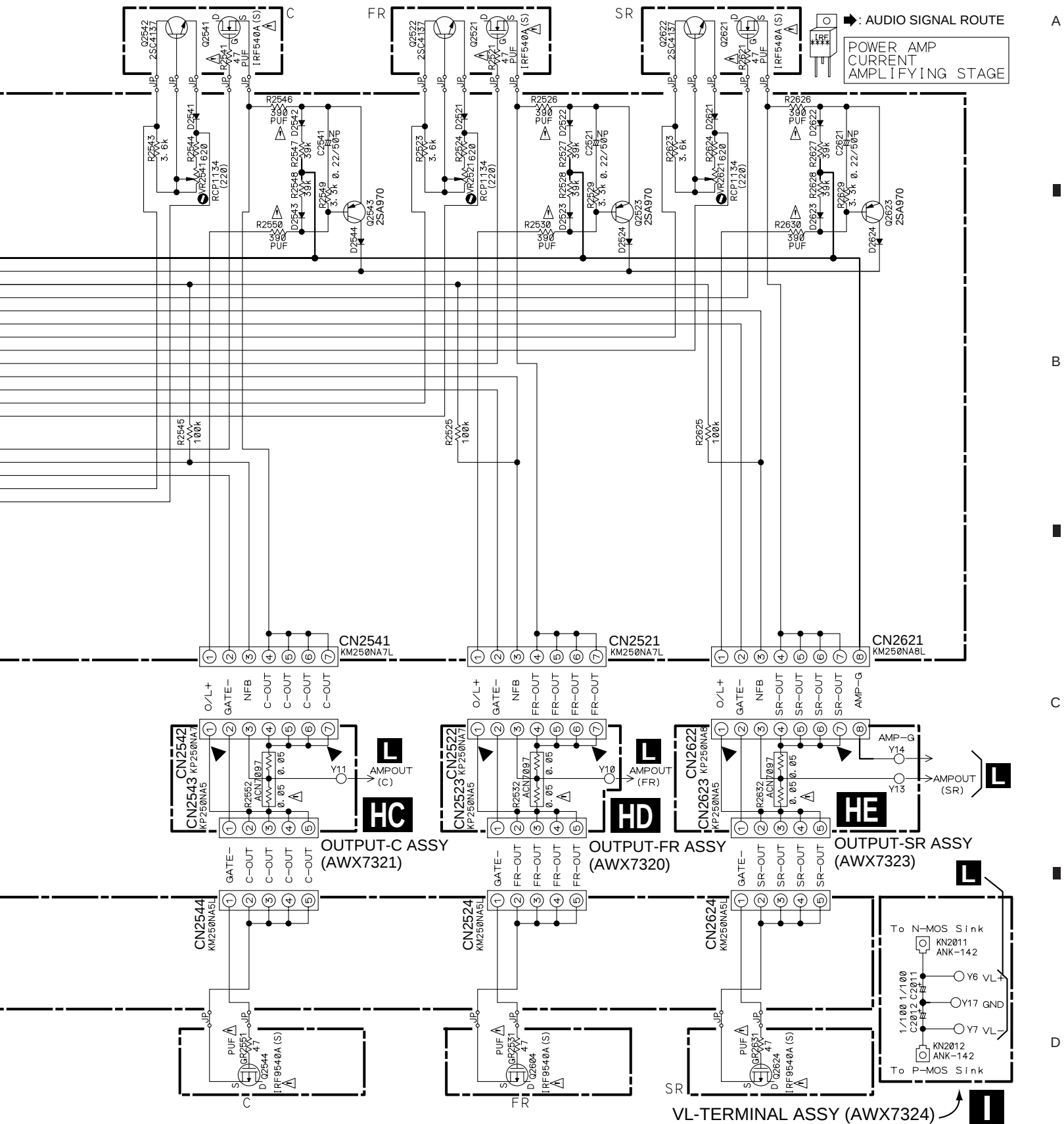
D

**F**

**G**

**HA**

**HB**



3.10 TRANS 2-1, DIODE and SP/PS ASSYS

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.  
REPLACE ONLY WITH SAME TYPE NO. 49102.5 MFD, BY  
LITTELFUSE INC. FOR IC4501, IC4502 (AEK7014).

Y1 : ADX7284- (BLK) Y5 : ADX7288- (BLU)  
Y2 : ADX7285- (BWN) Y6 : ADX7289- (RED)  
Y3 : ADX7286- (GRY) Y7 : ADX7290- (BLU)  
Y4 : ADX7287- (RED) Y14 : ADX7297- (BLK)

RECTIFIER FOR POWER AMP "VL"

**J**  
TRANS 2-1 ASSY  
(AWX7403)

**K** DIODE ASSY  
(AWX7343)

**HE**

TRANS  
SECONDARY

R4501-R4503 : 22  
C4501-C4502 :  
0.033/250

POWER TRANSFORMER

VH

VL

REG

FU4, FU5 : T2A  
AEK-511

FUSE HOLDER  
H4501-4504  
AKR1004

\* :

|       |         |
|-------|---------|
| D4505 | MTZJ20A |
| D4508 |         |
| D4509 | MTZJ12B |
| D4510 |         |

AMP FOR  
POWER AMP VOLTAGE  
AMPLIFYING STAGE "VH"

• NOTE FOR FUSE REPLACEMENT

**CAUTION** -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.  
REPLACE WITH SAME TYPE AND RATINGS ONLY.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.  
REPLACE ONLY WITH SAME TYPE NO. 491.750 MFD, BY  
LITTELFUSE INC. FOR IC3001 (AEK7007).

**V**  
CN6003

RY AC  
ST G  
ST+5V  
W UP

CN3001  
KM20TA4

CN3002  
KM250MA3

CN3002

FAN+  
FAN-  
STOP DET

TO FAN

COOLING FAN

(NORMAL : 0V/STOP : +2.7V)



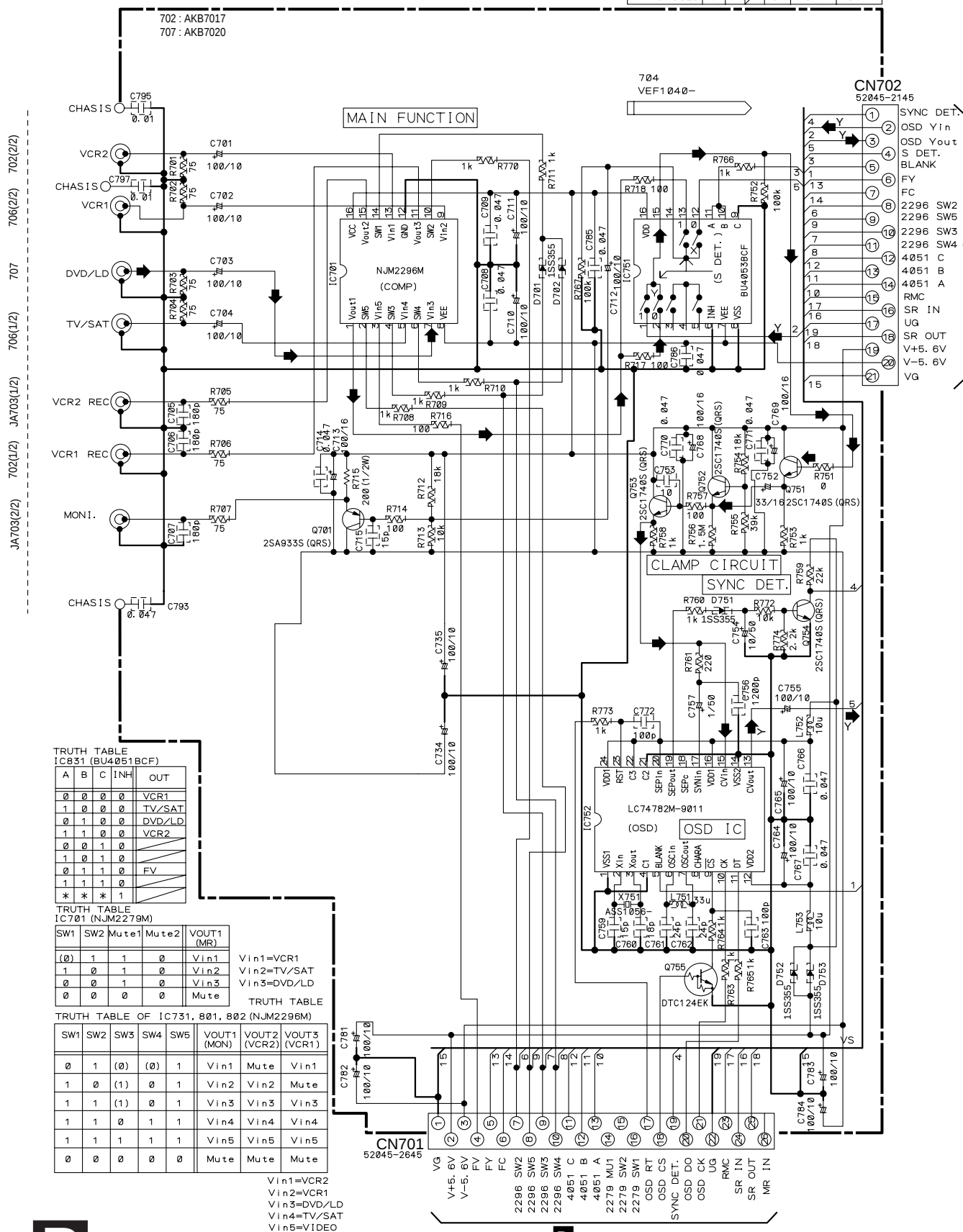




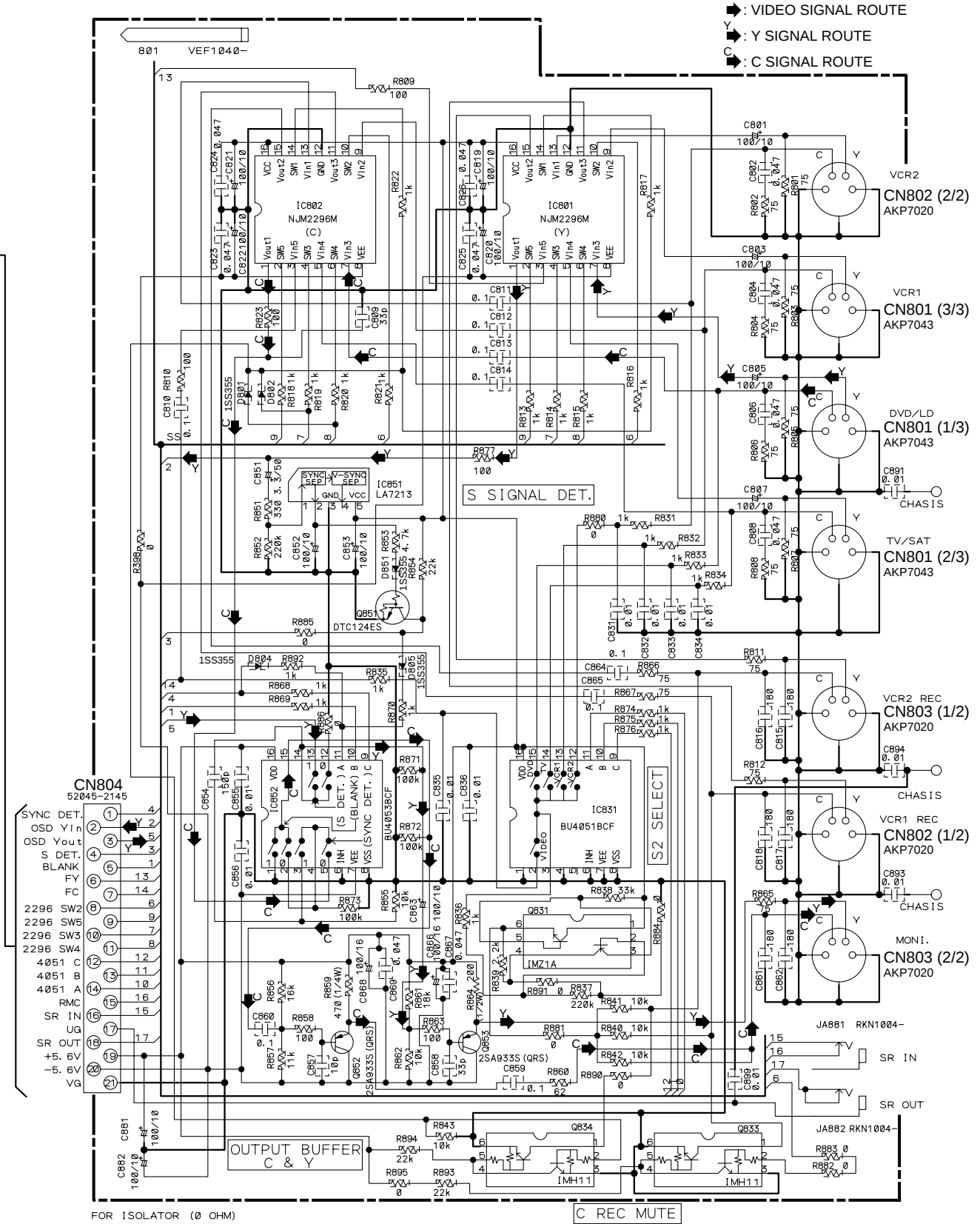
### 3.12 VIDEO and S-VIDEO ASSYS

**P** VIDEO ASSY  
(AWX7422)

| CONDITION  | A | B | C | INH | X OUT | Y OUT |
|------------|---|---|---|-----|-------|-------|
| S NOT USED | 0 | 0 |   | 0   | 1X    | 1Y    |
| S USED     | 1 | 1 |   | 0   | 0X    | 0Y    |



# S-VIDEO ASSY (AWX7395)

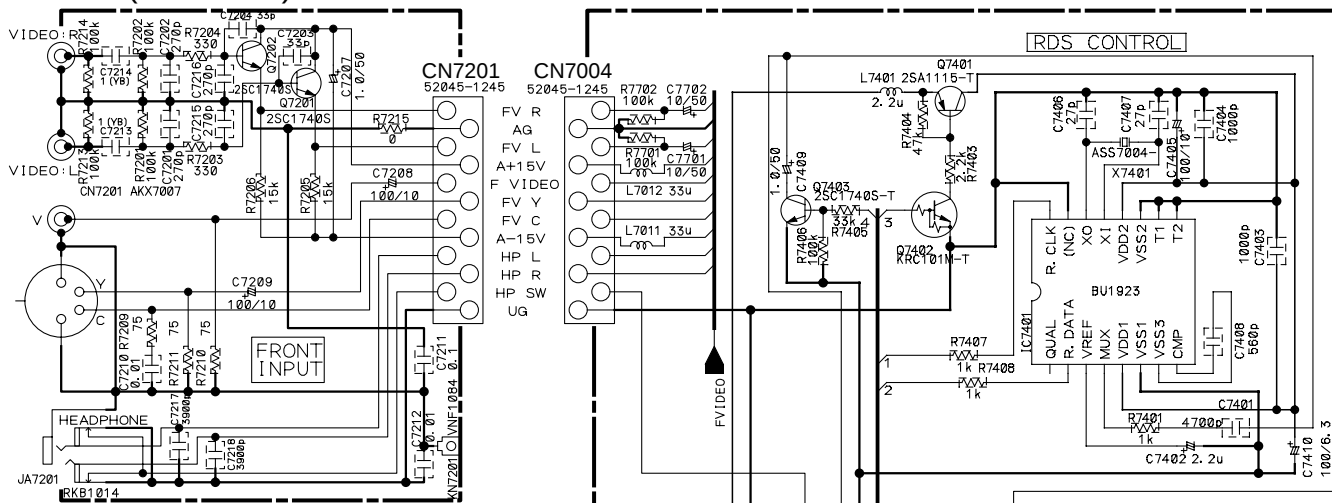


FOR ISOLATOR (0 OHM)

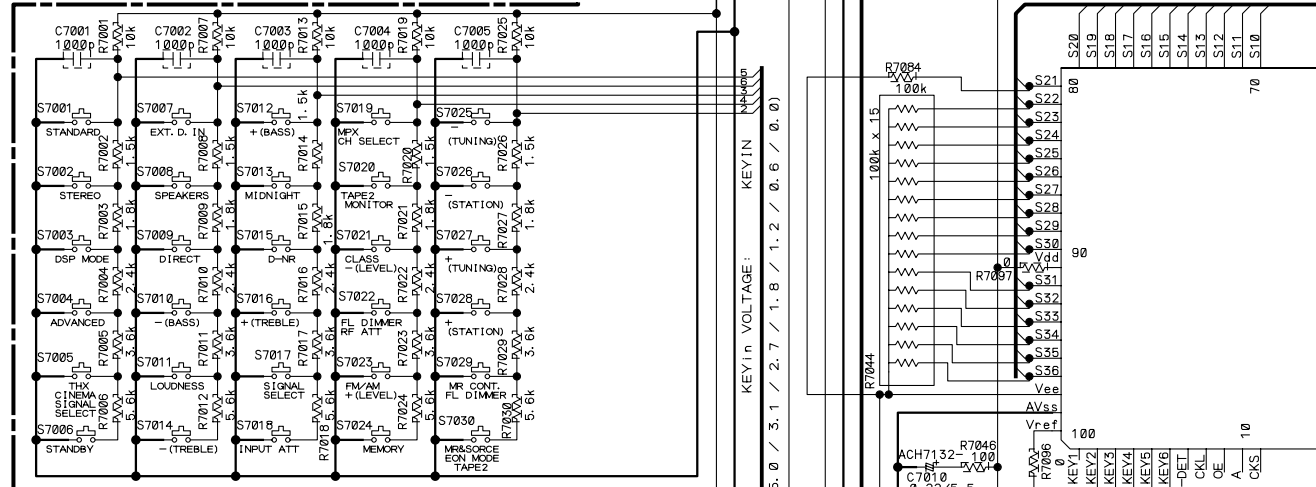
R771 R887  
 R775 R888  
 R776 R889  
 R777  
 R778

### 3.13 H. PHONE/F. VIDEO, DISPLAY and ROTARY ENCODER ASSYS

#### **R** H. PHONE/F. VIDEO ASSY (AWX7342)



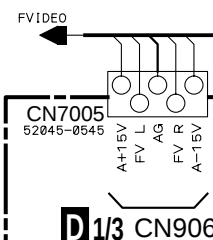
B



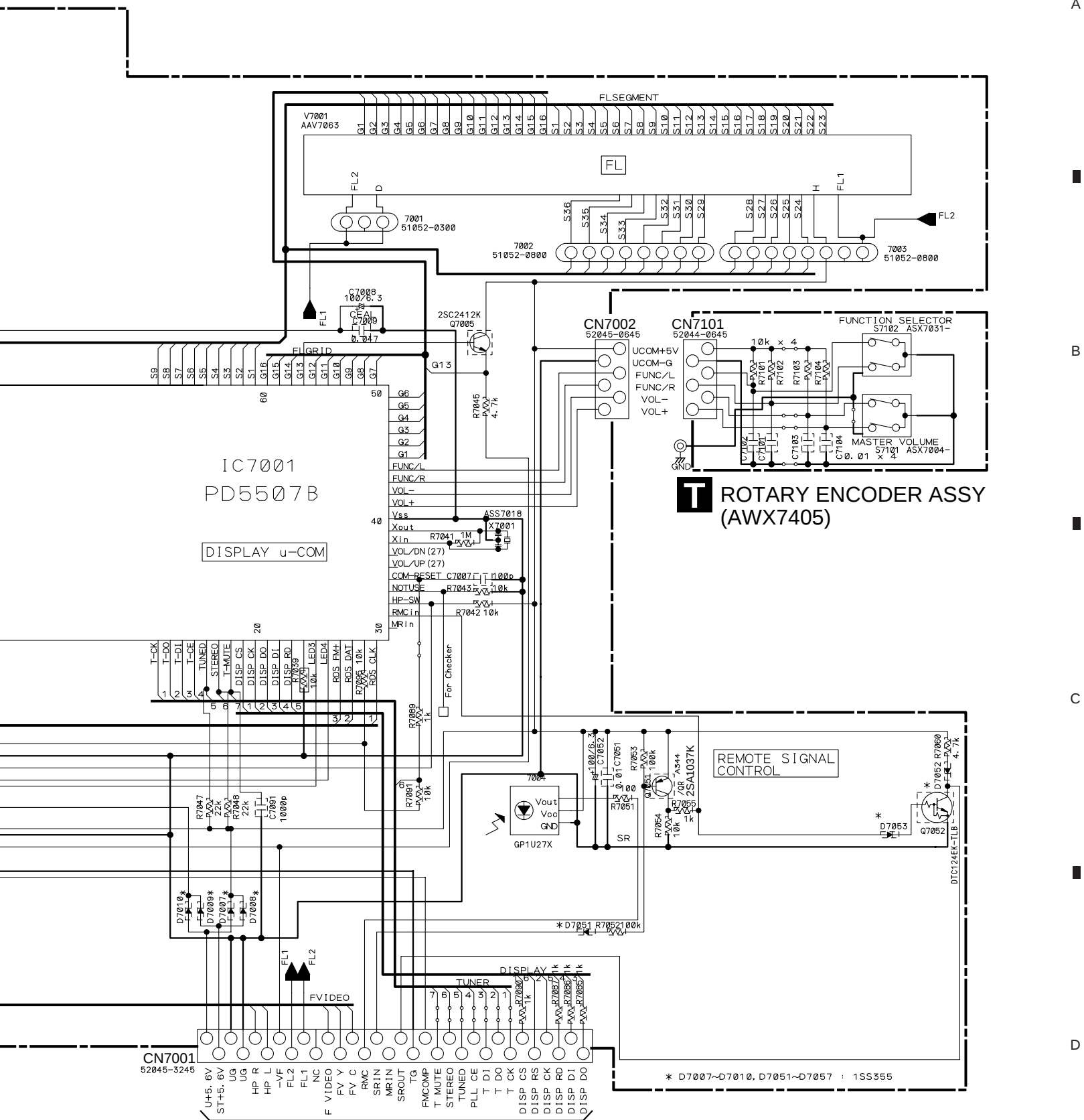
C

- S7001: STANDARD
- S7002: STEREO
- S7003: DSP MODE
- S7004: ADVANCED
- S7005: THX CINEMA
- S7006: STAND BY/ON
- S7007: EXTERNAL DECODER IN
- S7008: SPEAKERS
- S7009: DIRECT
- S7010: BASS -
- S7011: LOUDNESS
- S7012: BASS +
- S7013: MIDNIGHT
- S7014: TREBLE -
- S7015: DIGITAL NR
- S7016: TREBLE +
- S7017: SIGNAL SELECT
- S7018: INPUT ATT
- S7019: MPX
- S7020: TAPE2 MONITOR
- S7021: CLASS
- S7022: RF ATT
- S7023: FM/AM
- S7024: MEMORY
- S7025: TUNING -
- S7026: STATION -
- S7027: TUNING +
- S7028: STATION +
- S7029: FL DIMMER
- S7030: EON MODE

#### **S** DISPLAY ASSY (AWX7414)

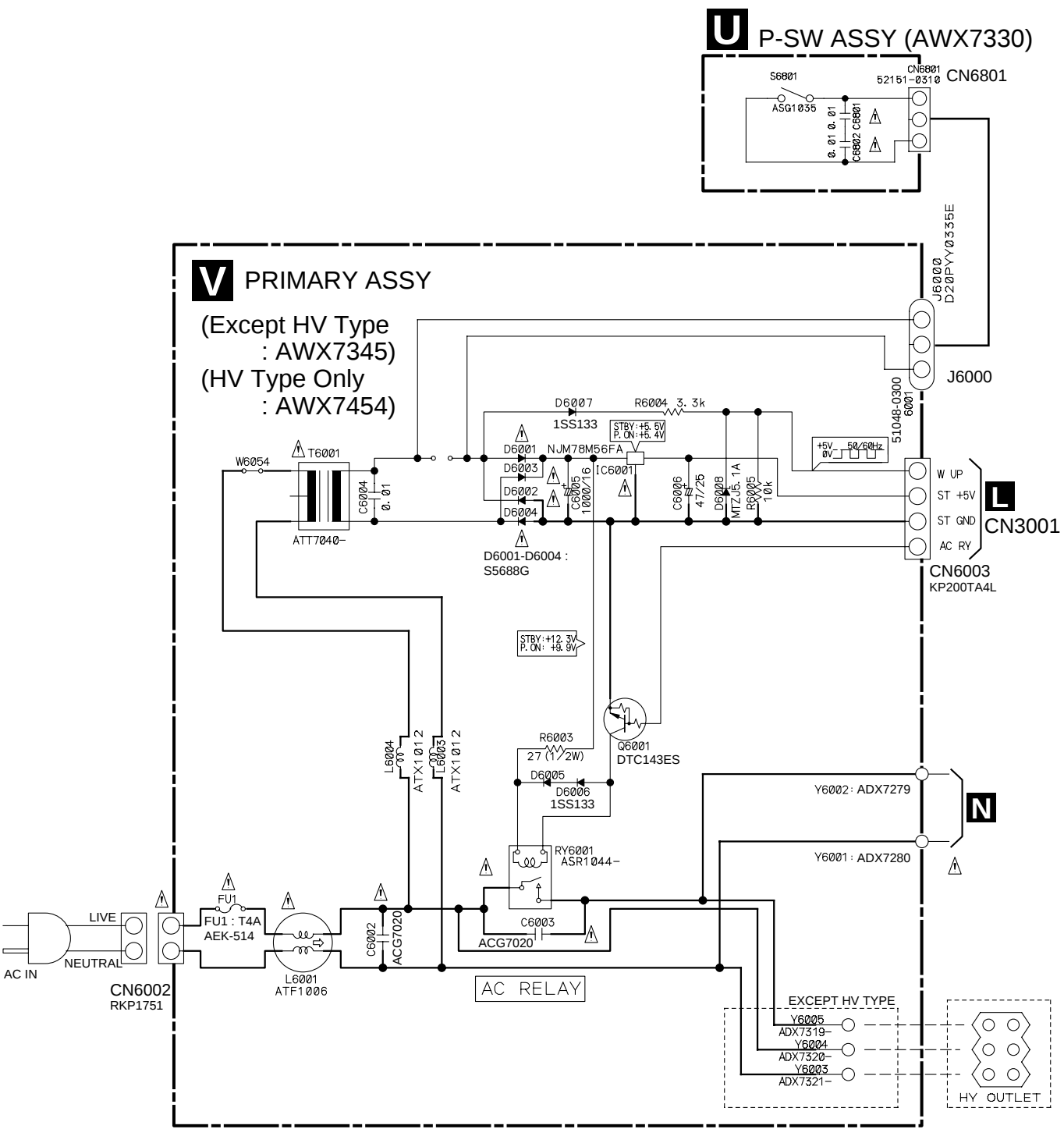


**D** 1/3 CN906



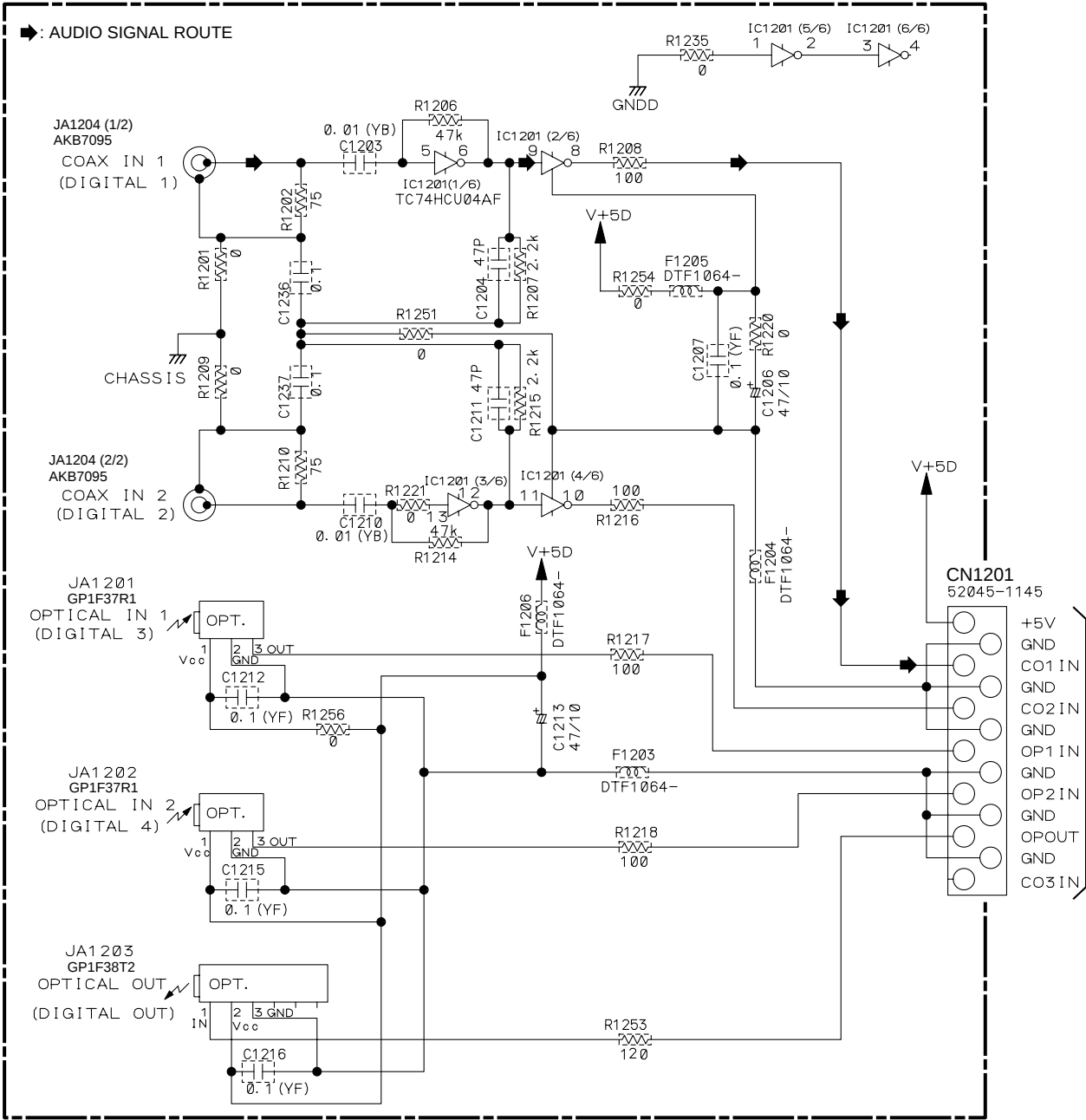
D 3/3 CN904

3.14 PRIMARY and P-SW ASSY

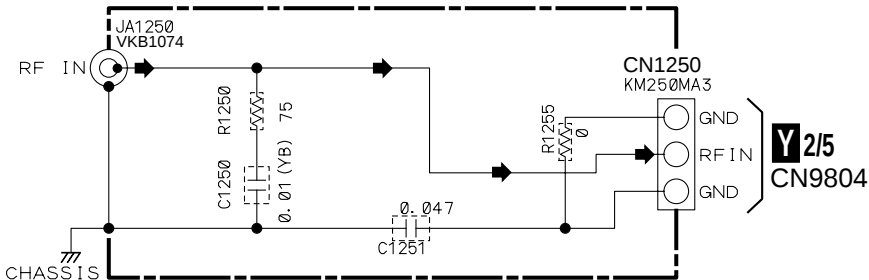


3.15 DIGITAL-I/O and RF TERMINAL ASSYS

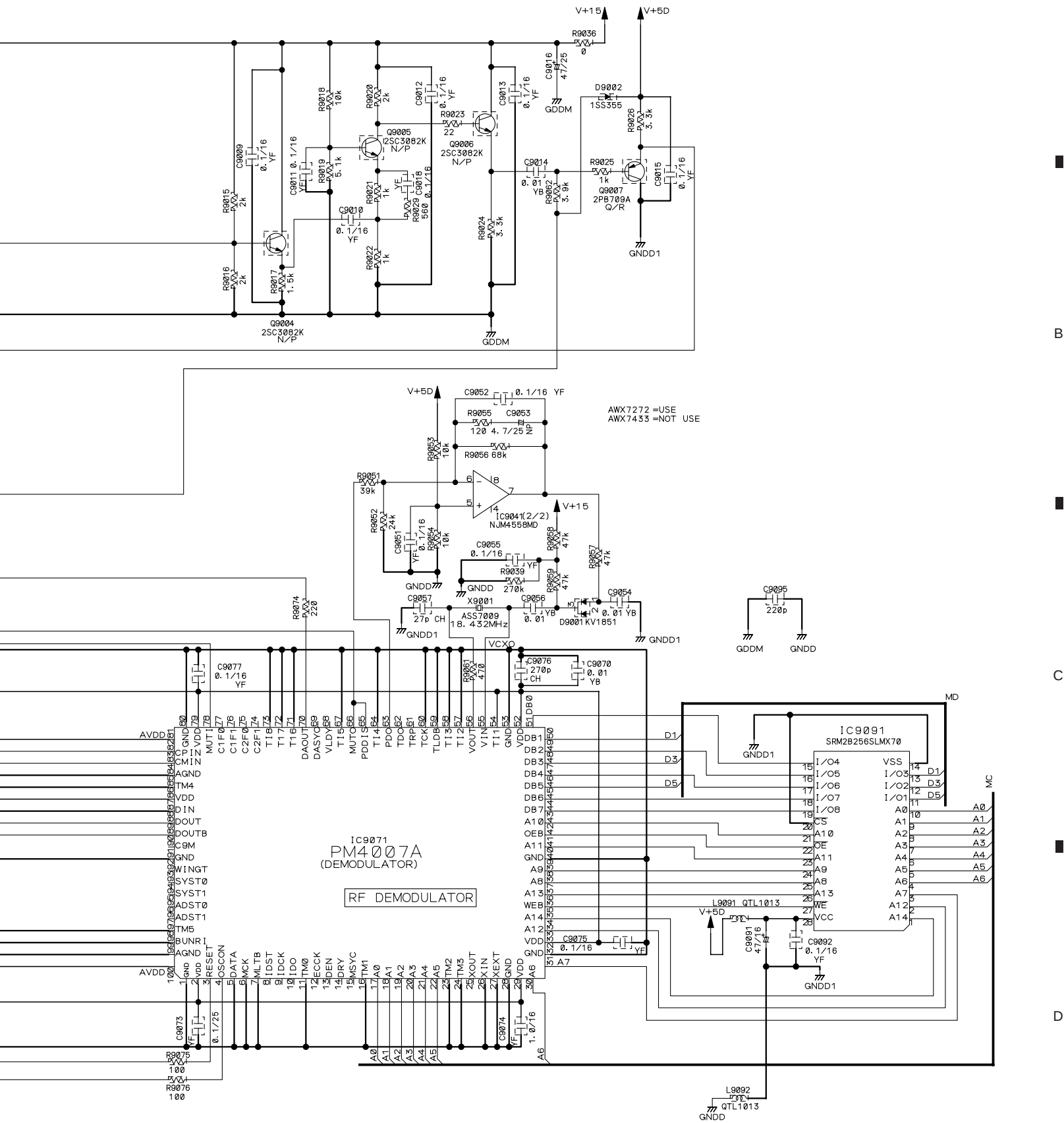
**W** DIGITAL-I/O ASSY (AWX7396)



**X** RF TERMINAL ASSY (AWX7376)





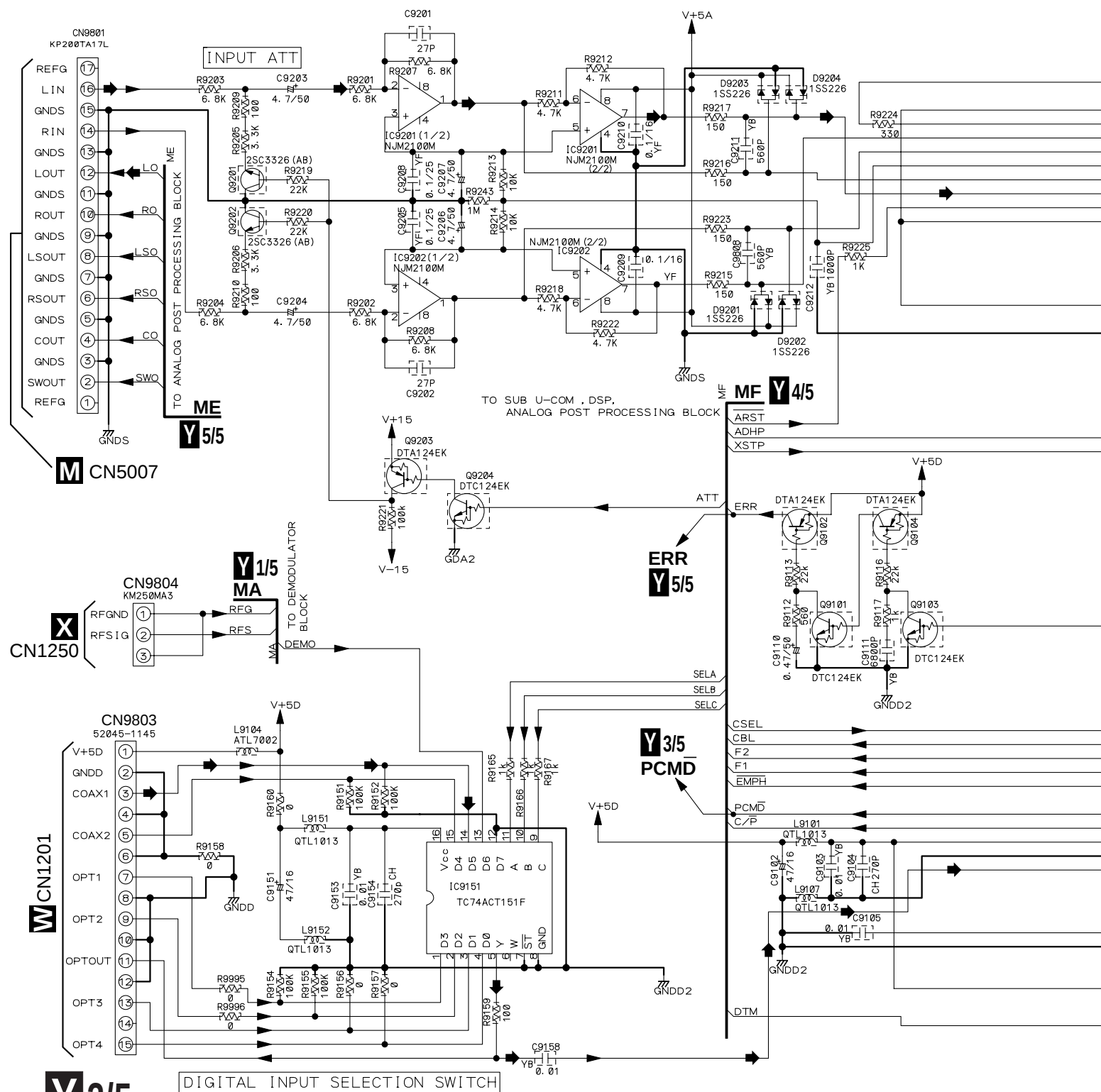


### 3.17 DSP ASSY (2/5)

 : The power supply is shown with the marked box.

 : AUDIO SIGNAL ROUTE

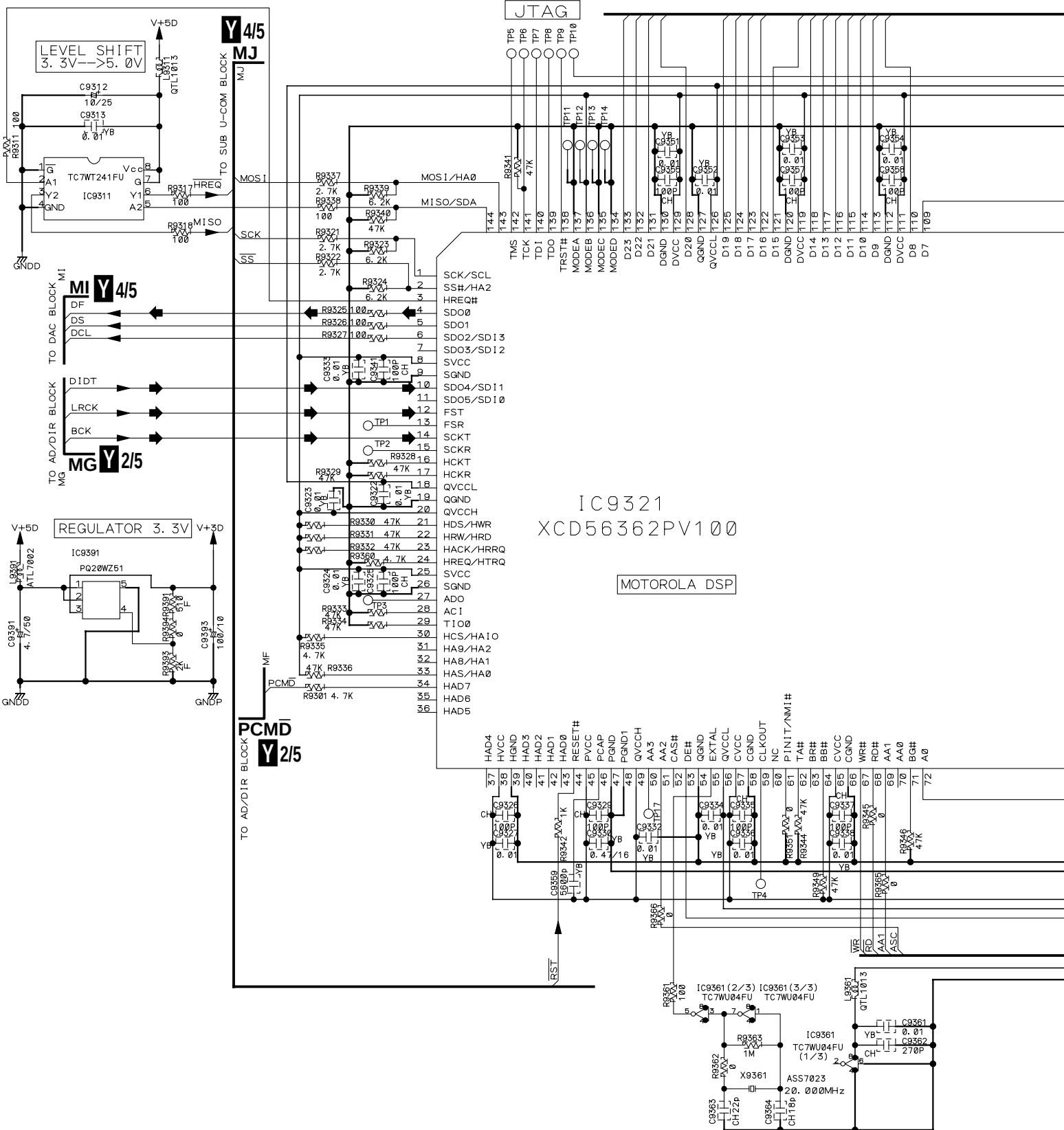
**Y 2/5** DSP ASSY  
(AWX7272)

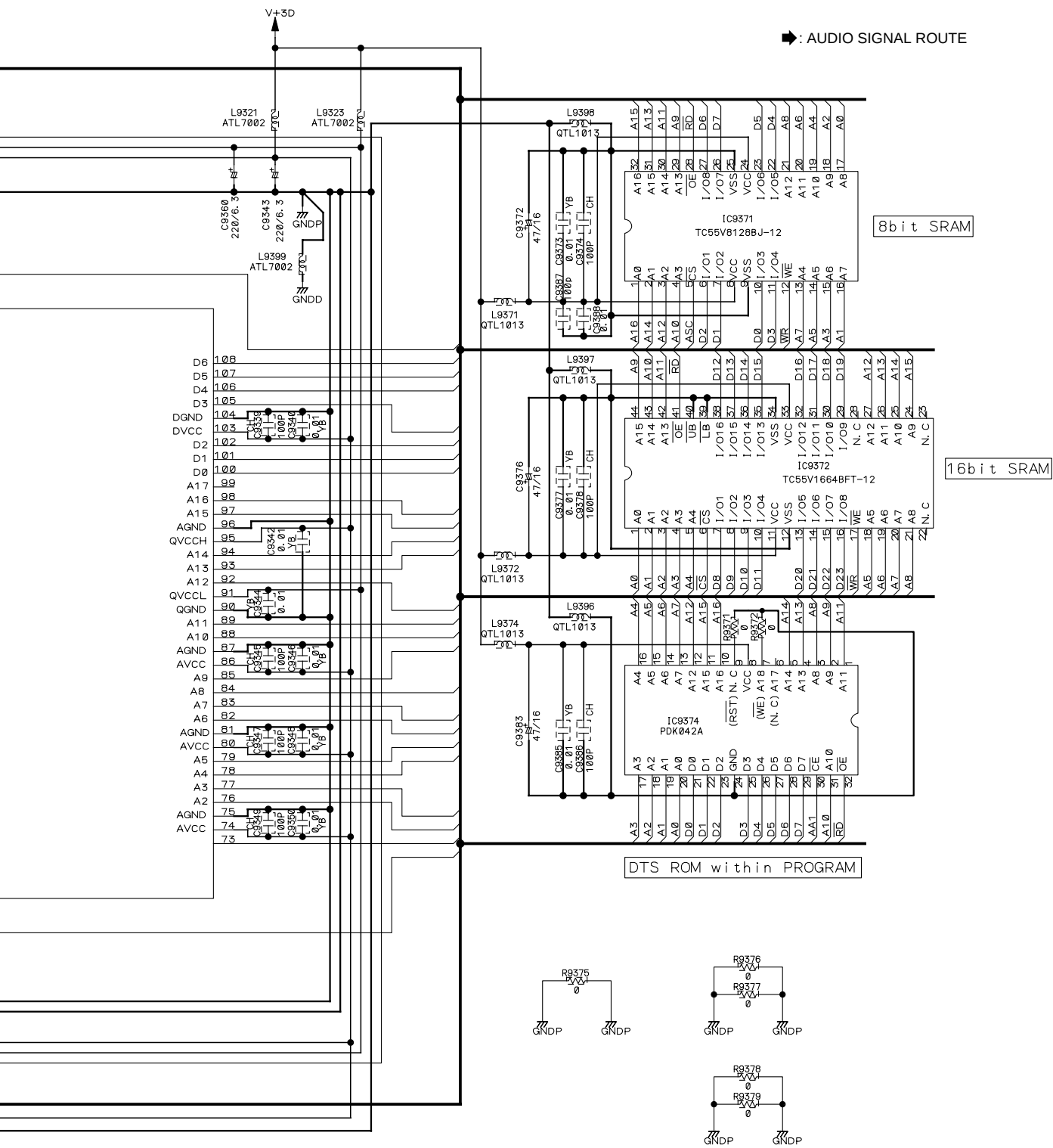




### 3.18 DSP ASSY (3/5)

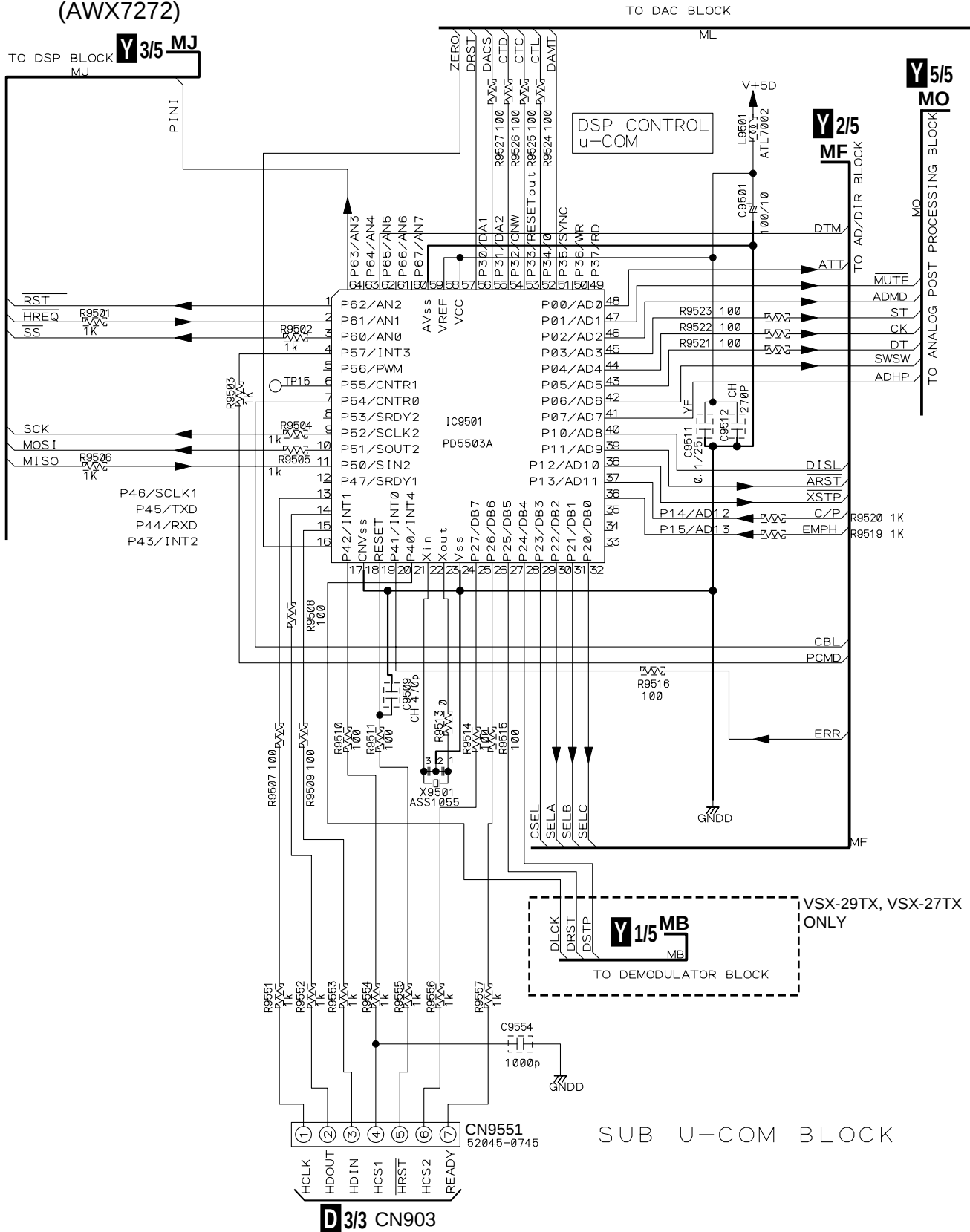
**Y**3/5 DSP ASSY  
(AWX7272)

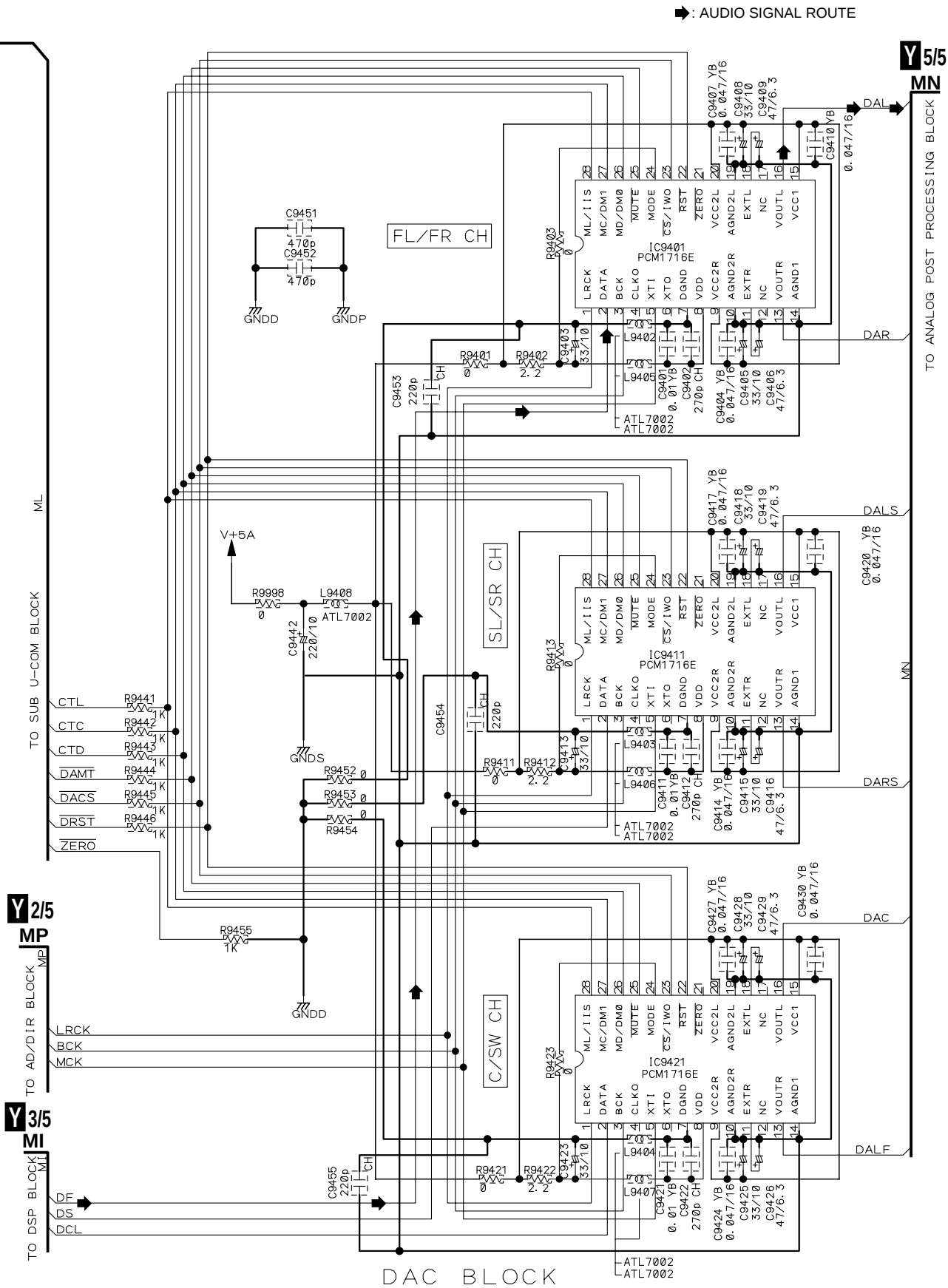




3.19 DSP ASSY (4/5)

**Y** 4/5 DSP ASSY  
(AWX7272)





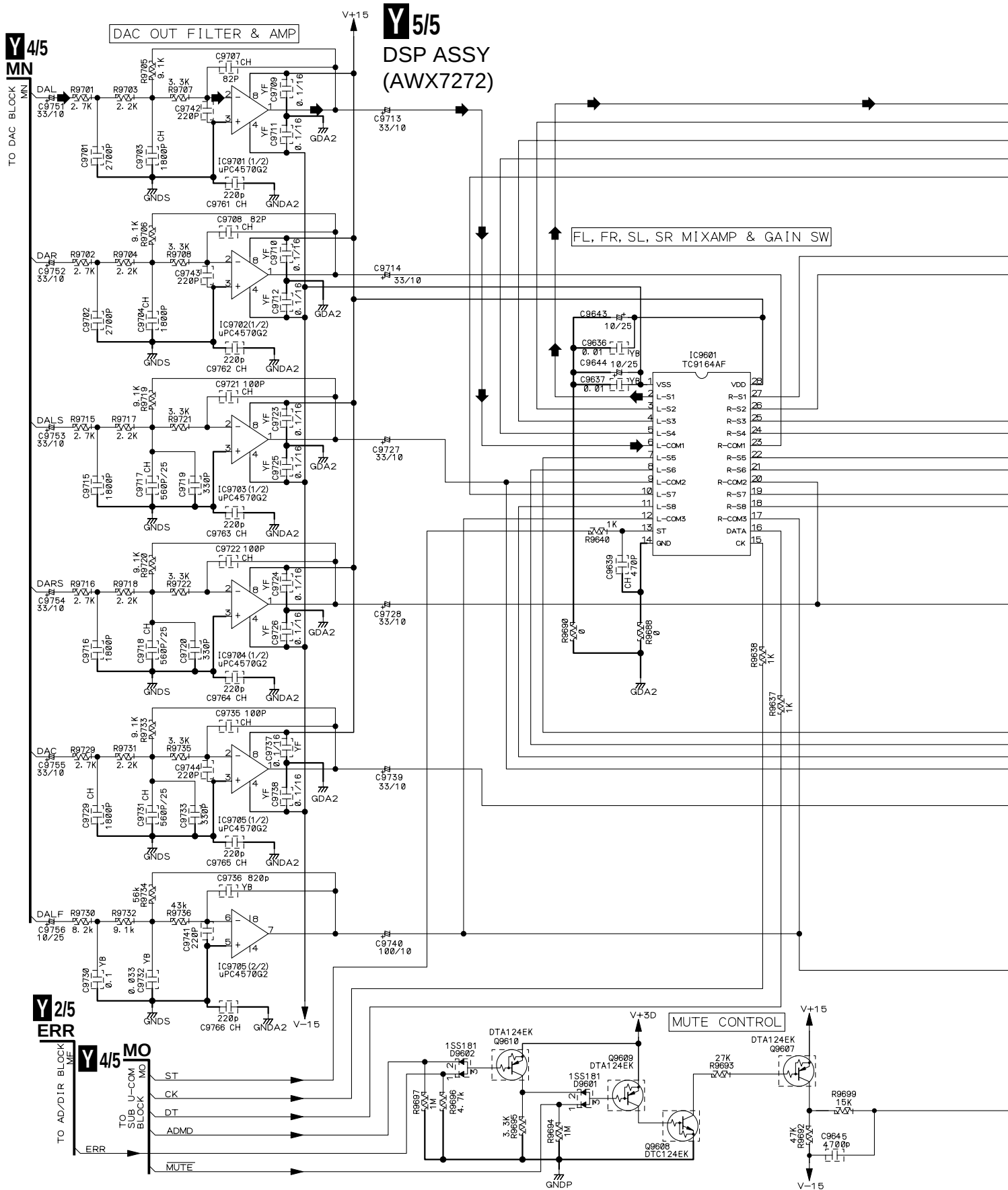
3.20 DSP ASSY (5/5)

A

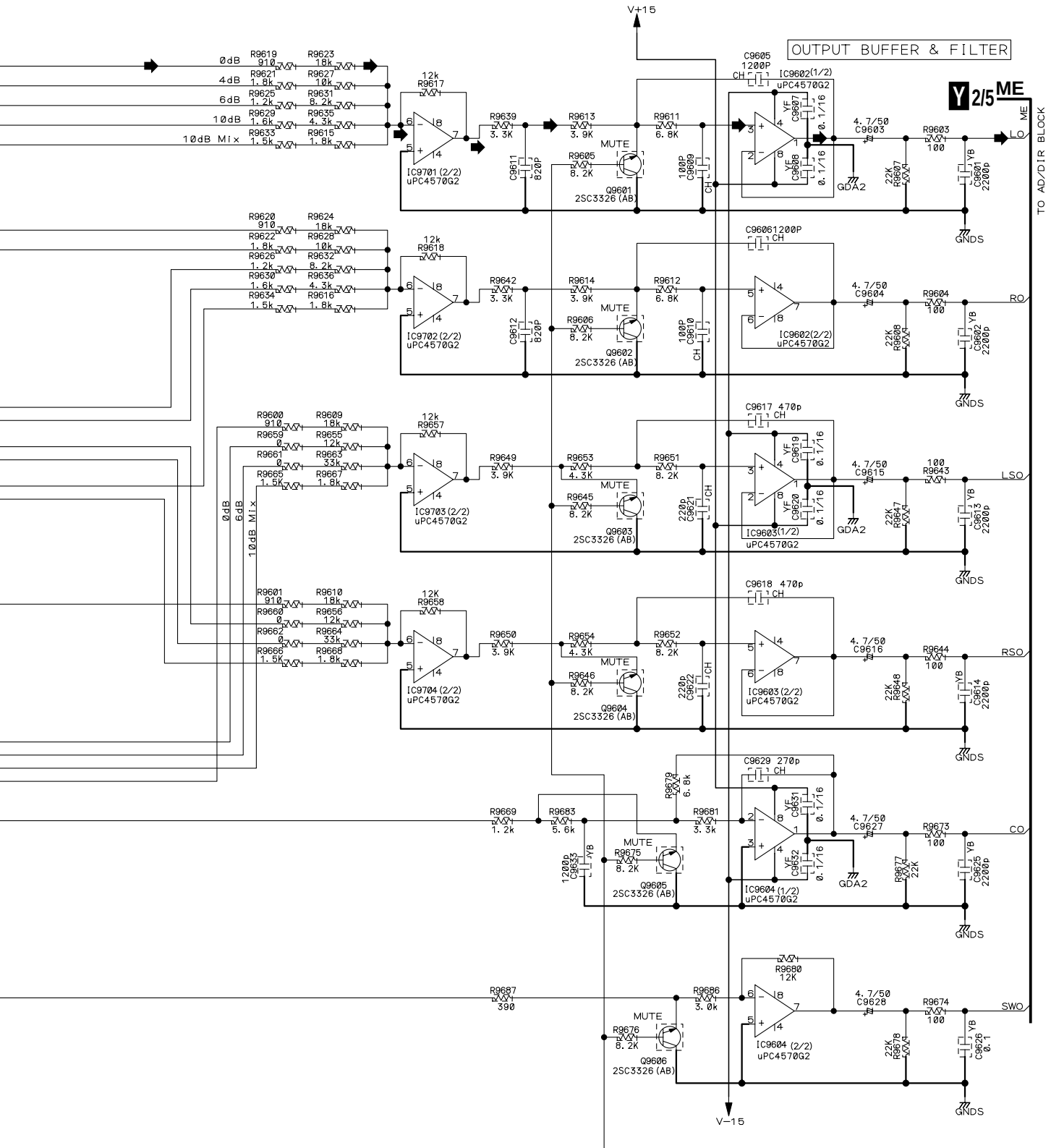
B

C

D



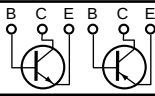
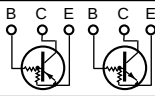
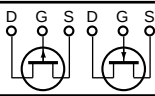
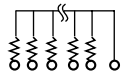
➡: AUDIO SIGNAL ROUTE



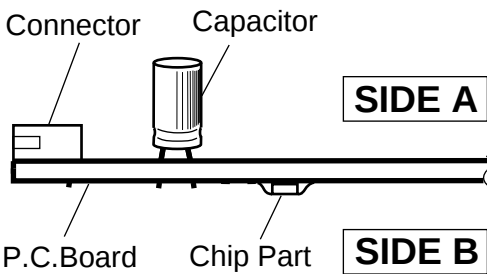
4. PCB CONNECTION DIAGRAM

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     |

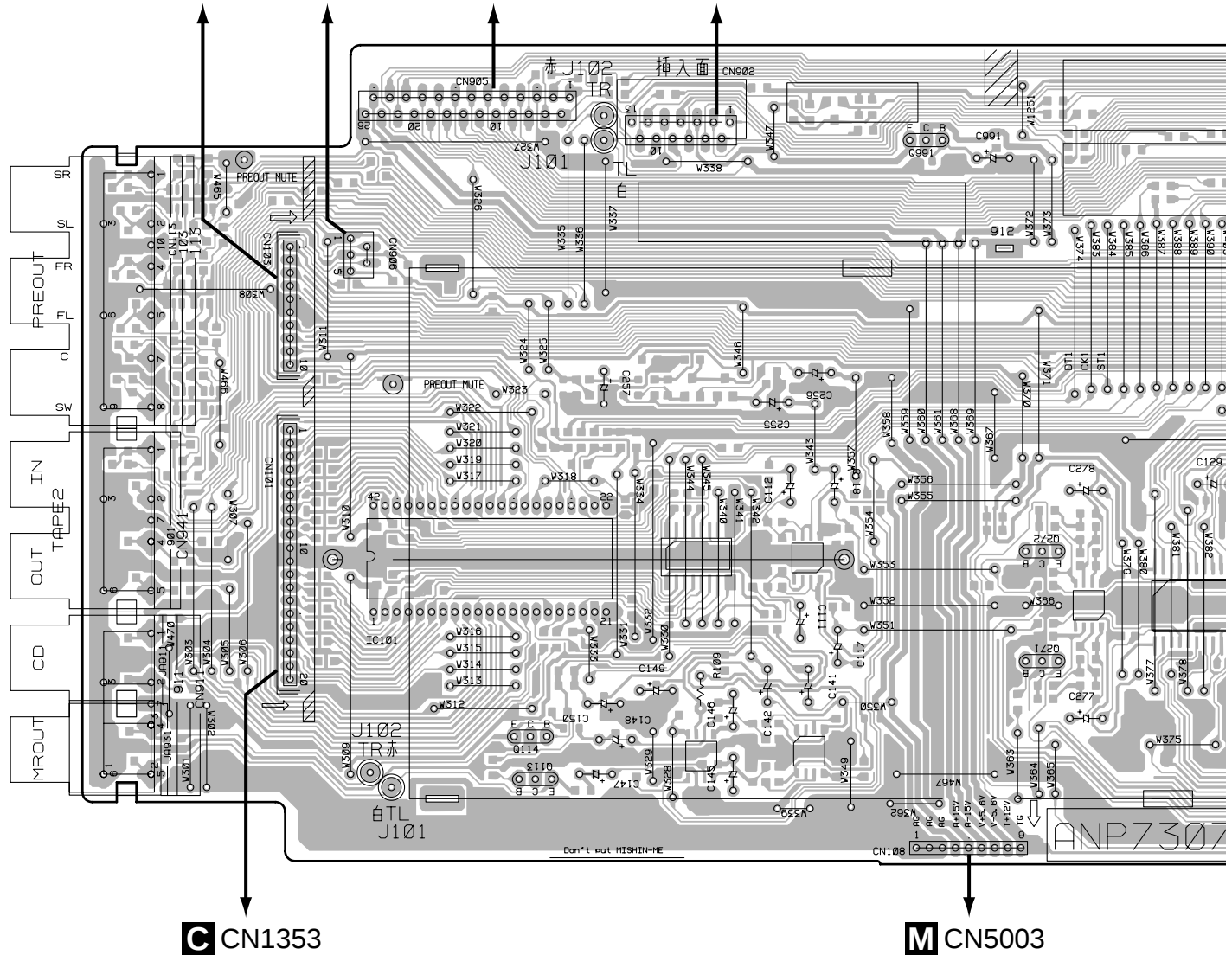
- 3. The parts mounted on this PCB include all necessary parts for several destinations.  
For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.





4.2 MAIN CONTROL ASSY

**C** CN1302 **S** CN7005 **P** CN701 To FM/AM TUNER UNIT



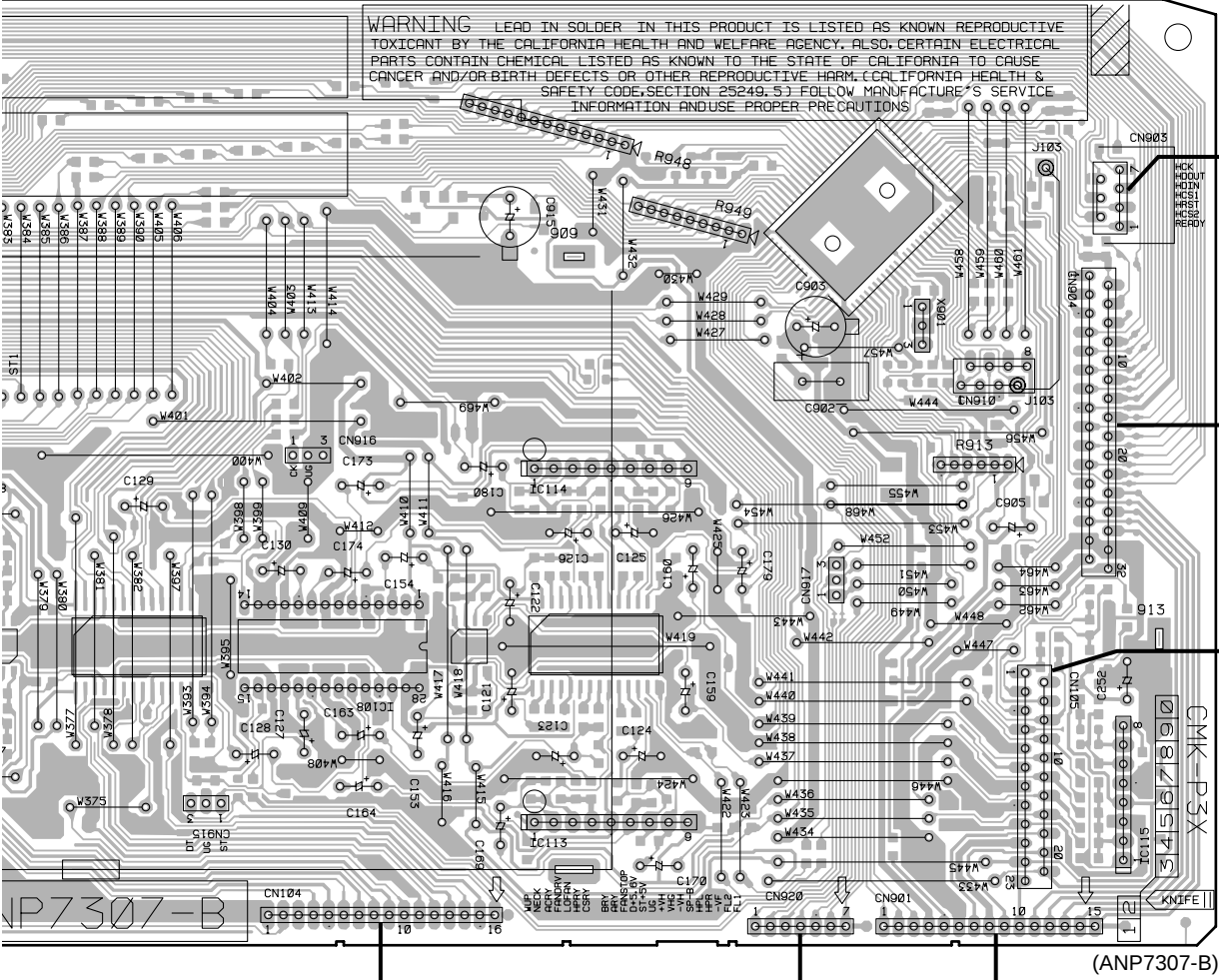
IC101  
Q114  
Q113

Q991

Q272  
Q271

SIDE A

D MAIN CONTROL ASSY



Y  
CN9551

S  
CN7001

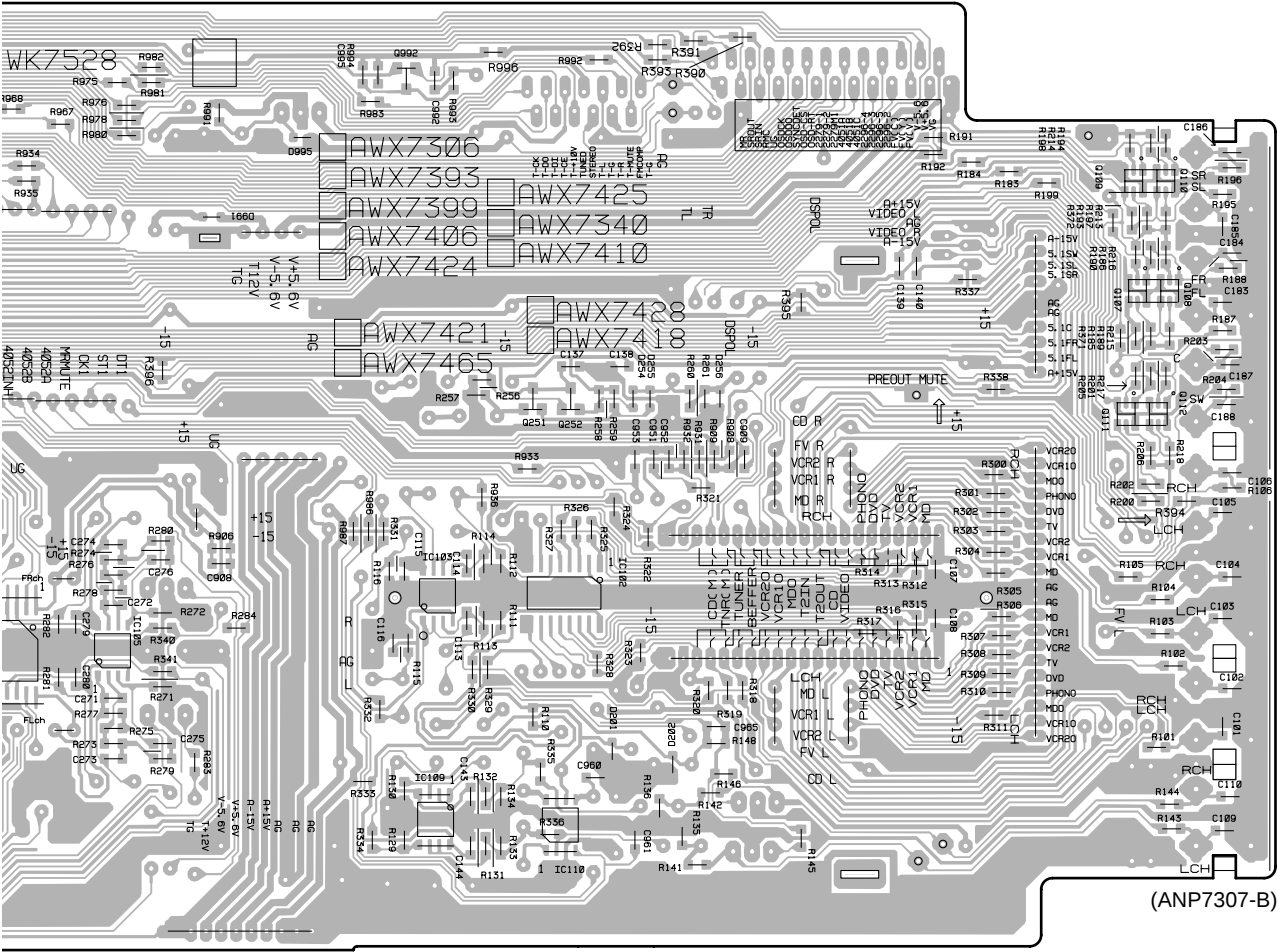
E  
CN501

M  
CN5004

M  
CN5008

M  
CN5005

**SIDE B**



(ANP7307-B)

IC105

Q902

Q251 Q252

Q109

Q110

IC103

IC102

Q107

Q108

IC109

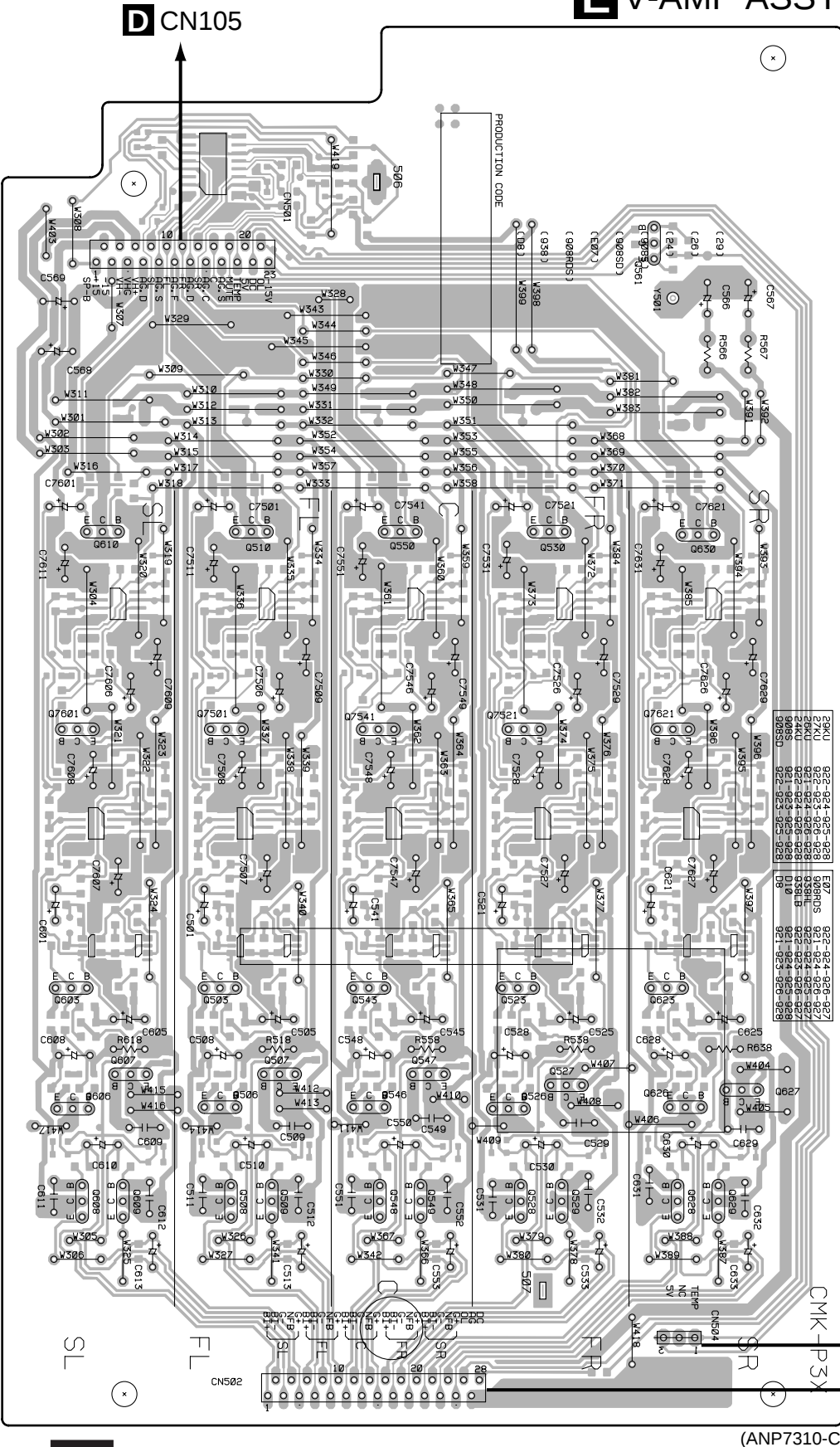
IC110

Q111

Q112

4.3 V-AMP ASSY

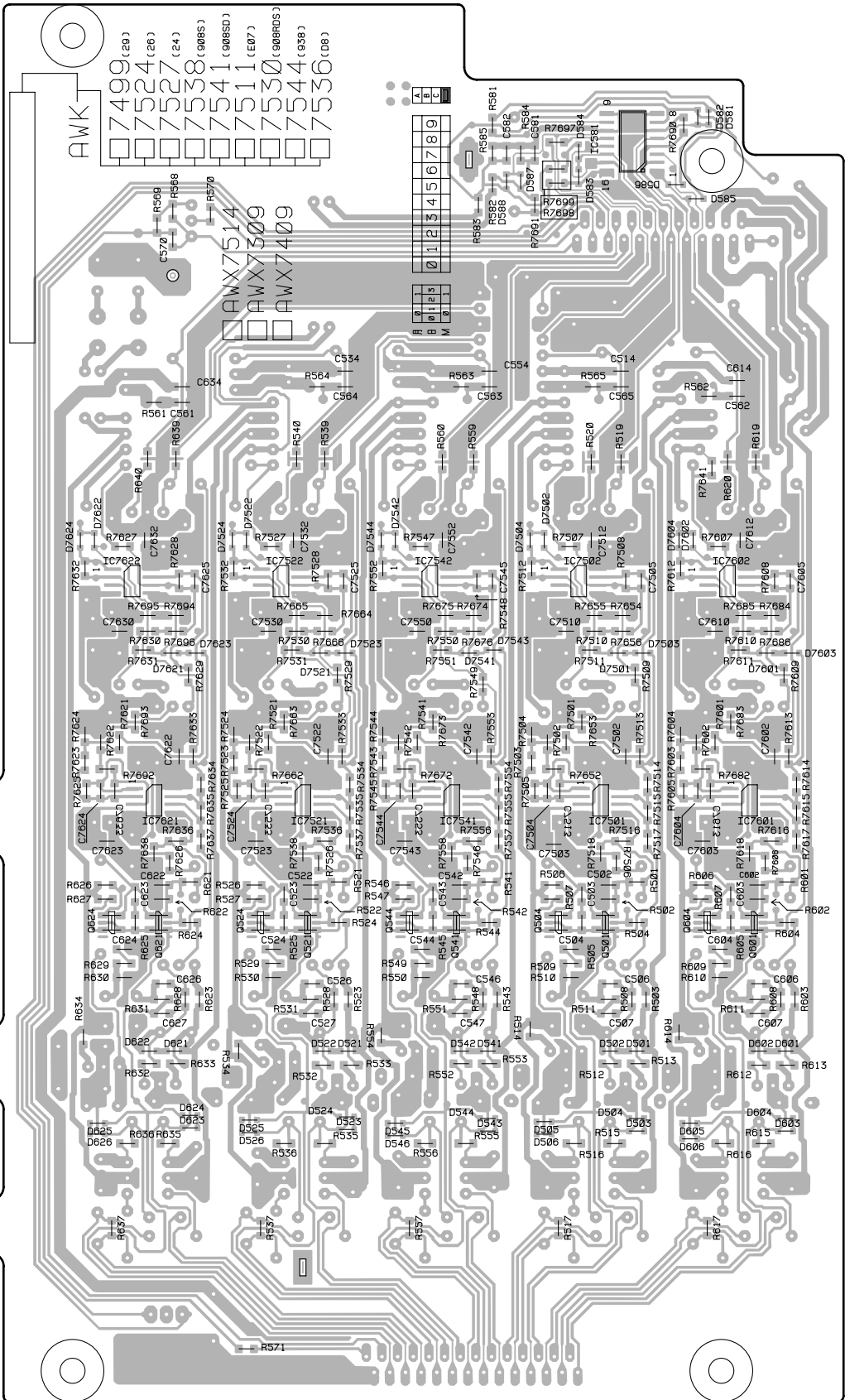
V-AMP ASSY



- Q561
- Q610 Q510 Q550 Q530 Q630
- Q7601 Q7501 Q7541 Q7521 Q7621
- Q603 Q503 Q543 Q523 Q623
- Q607 Q507 Q547 Q527 Q627
- Q606 Q506 Q546 Q526 Q626
- Q608 Q508 Q548 Q528 Q628
- Q609 Q509 Q549 Q529 Q629

To THERMISTOR  
CN2001

V-AMP ASSY



IC581

IC7622 IC7522 IC7542 IC7502 IC7602

IC7621 IC7521 IC7541 IC7501 IC7601

Q624 Q524 Q544 Q504 Q604  
Q621 Q521 Q541 Q501 Q601

(ANP7310-C)

SIDE B



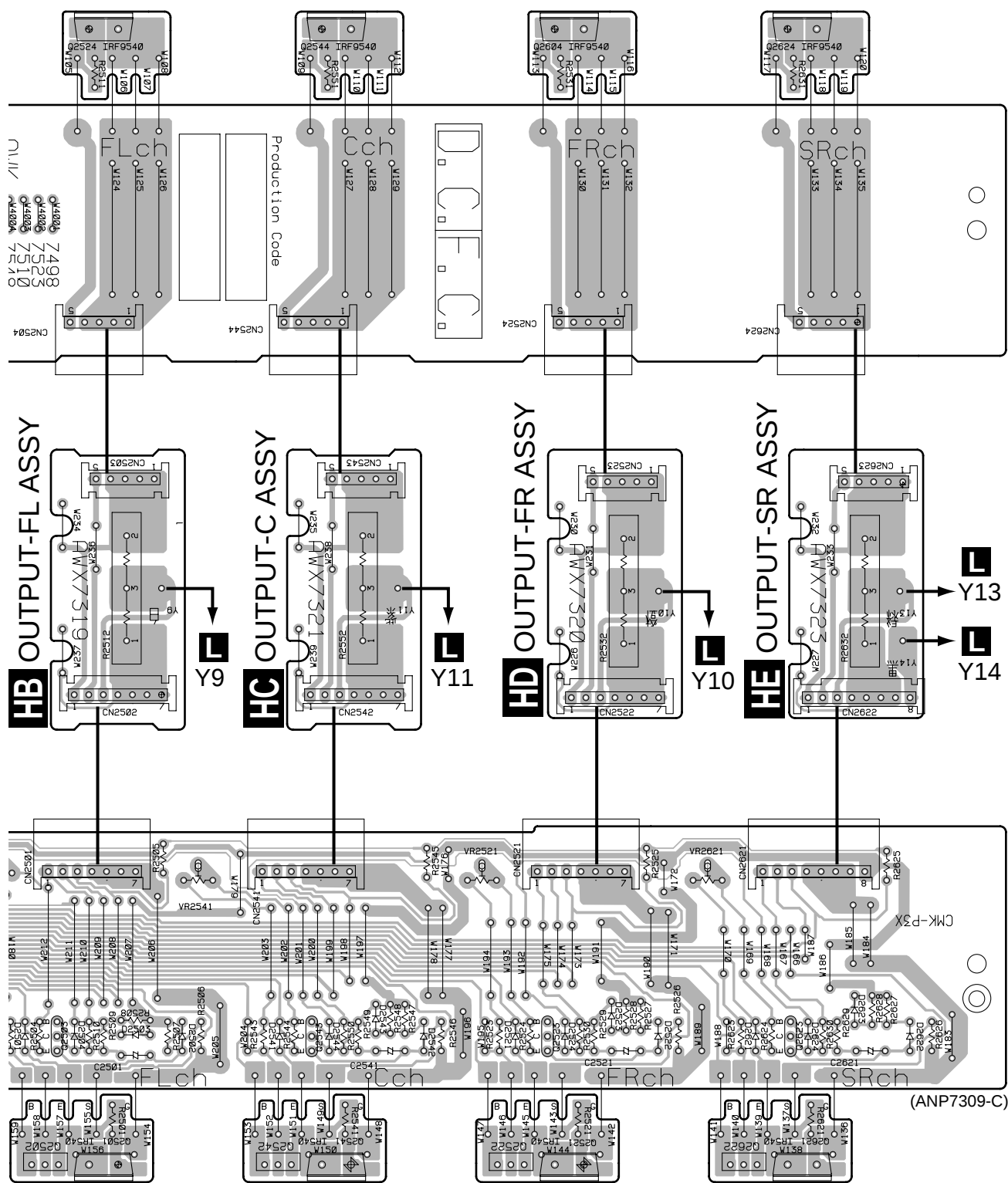
#### 4.4 C-AMP-N, C-AMP-P, OUTPUT-SL, OUTPUT-FL, OUTPUT-C, OUTPUT-FR, OUTPUT-SR and VL-TERMINAL ASSYS

## G C-AMP-P ASSY

VL-TERMINAL ASSY

## F C-AMP-N ASSY

**E** CN502**SIDE A**



|       |        |        |        |
|-------|--------|--------|--------|
| 2501  | VR2541 | VR2521 | VR2621 |
| Q2503 | Q2543  | Q2523  | Q2623  |
| Q2502 | Q2542  | Q2522  | Q2622  |

4.5 TRANS 2-1, DIODE, TRANS 1 and TRANS 2-2 ASSYS

Line Voltage Selection

Line Voltage can be changed by the following modification:

- 1. Disconnect the AC power cord.
- 2. Remove the cover.
- 3. Change the connection wire from TRANS 1 ASSY (Terminal No. Y6002) to AMP ASSY (Terminal No. Y6002) as follows.

| Voltage  | Terminal No. of TRANS 1 ASSY |
|----------|------------------------------|
| 220-230V | Y6002/HY/HL/HV               |
| 240V     | Y6002/J, KU                  |

- 4. Stick a line voltage label on the rear panel.

| Description | Part No. |
|-------------|----------|
| 220V label  | AAX-193  |
| 240V label  | AAX-192  |

TRANS 2-2 ASSY

TRANS 1 ASSY

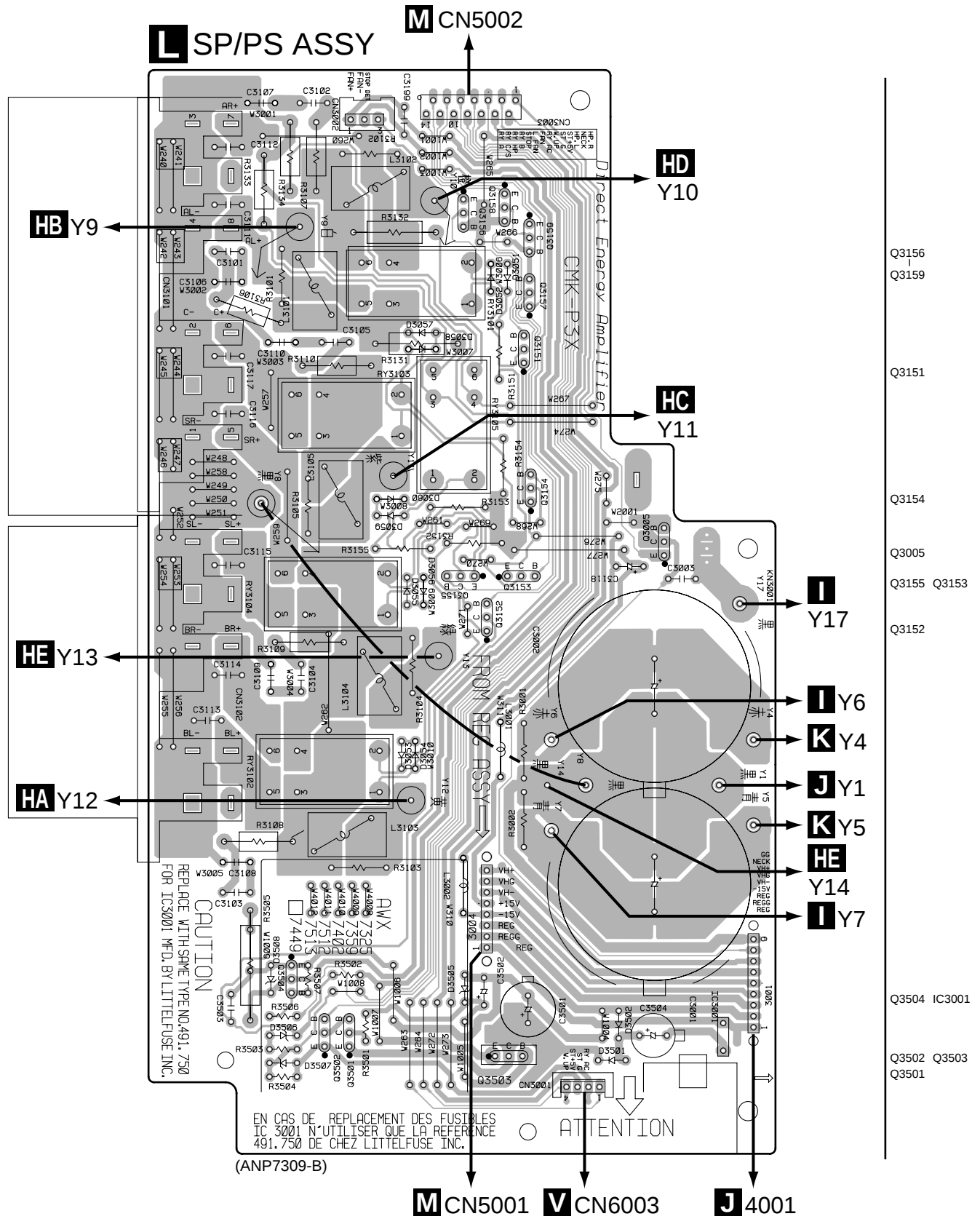
T1 POWER TRANSFORMER

TRANS 2-1 ASSY

DIODE ASSY

SIDE A

## 4.6 SP/PS ASSY

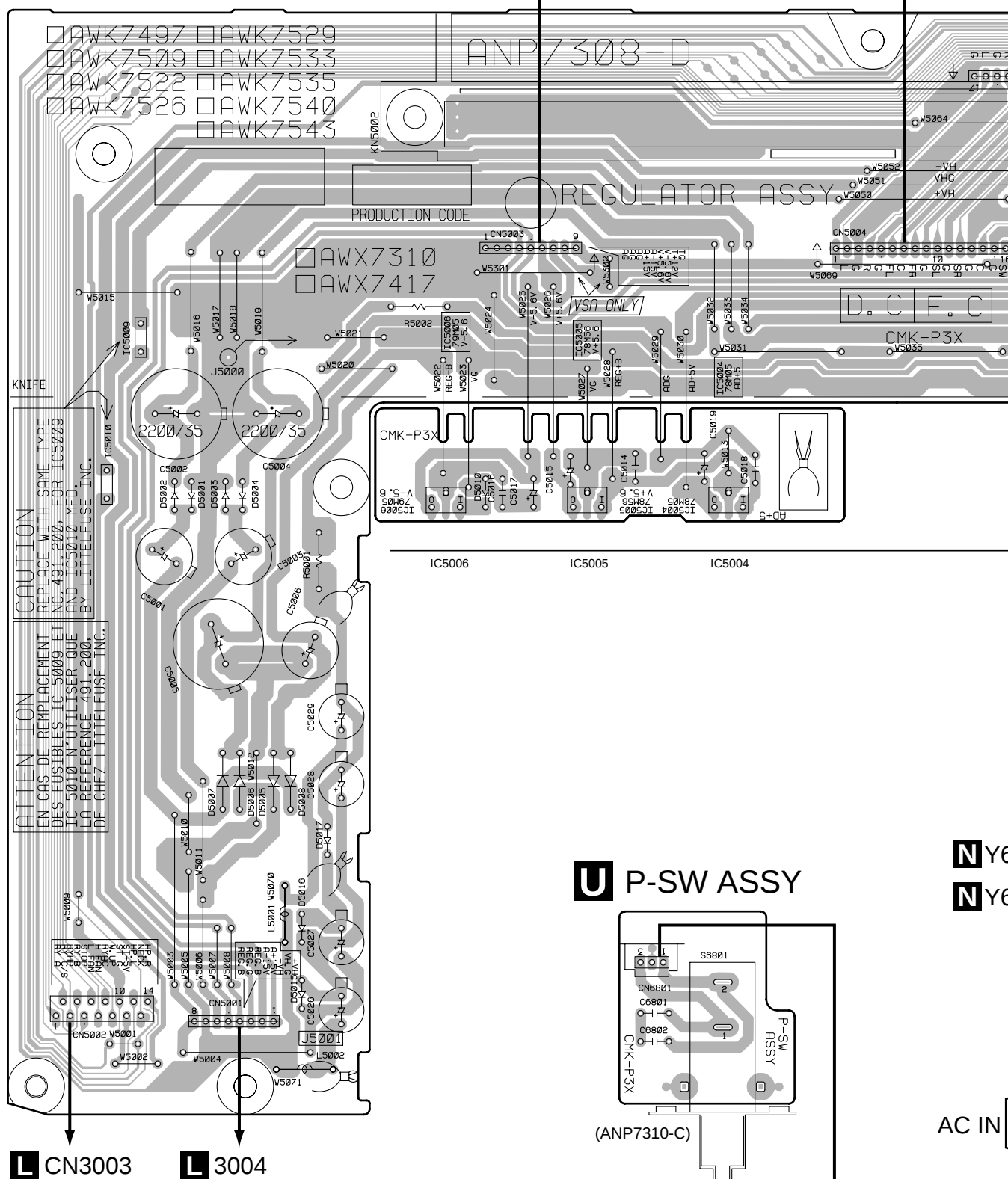


# 4.7 REGULATOR, PRIMARY and P-SW ASSYS

## M REGULATOR ASSY

D CN108

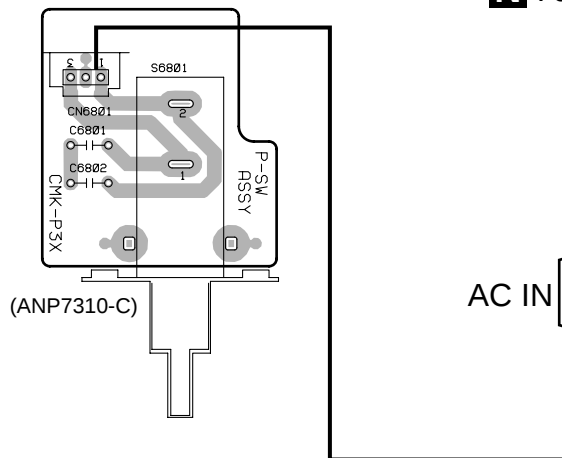
D CN104

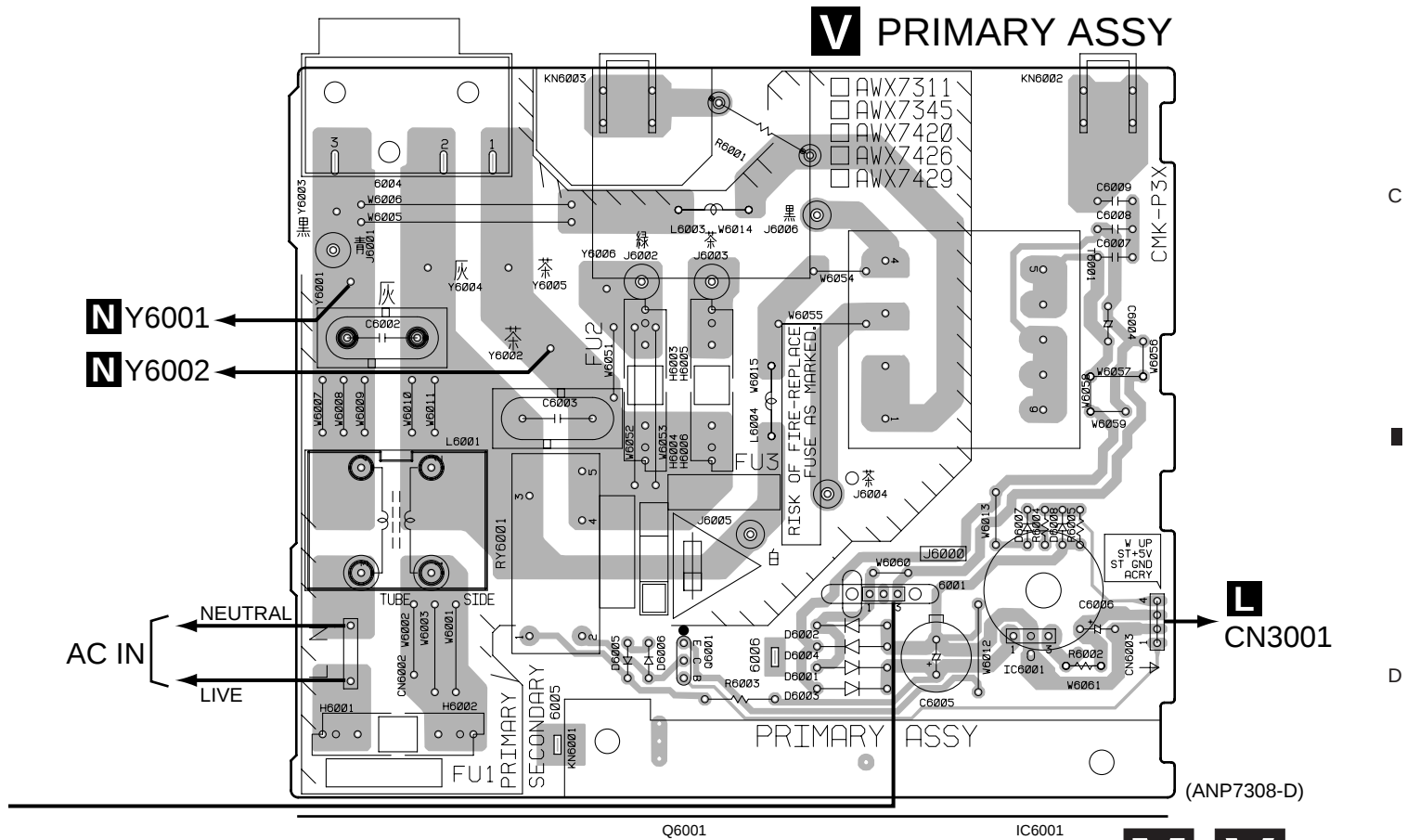
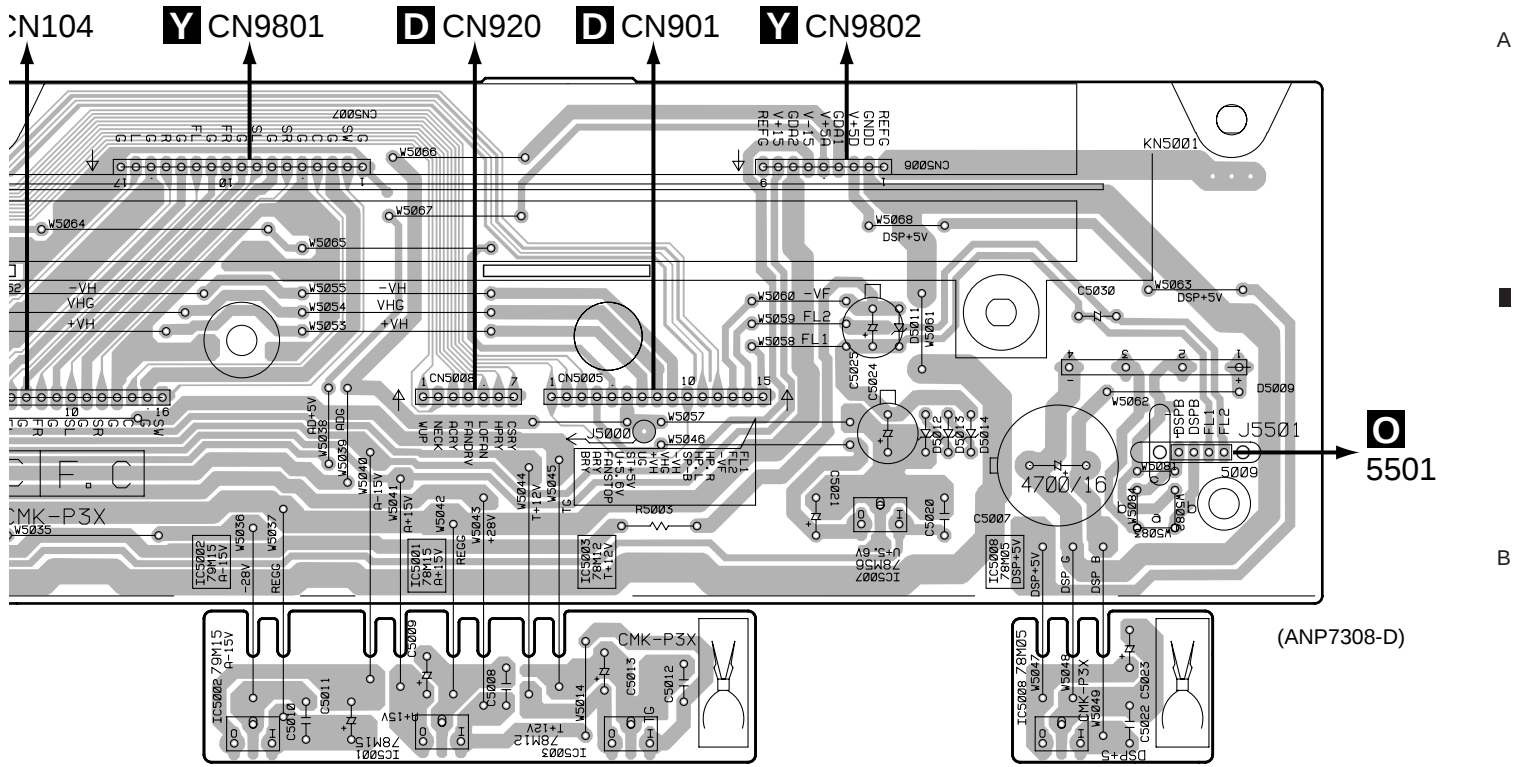


## U P-SW ASSY

N Y6

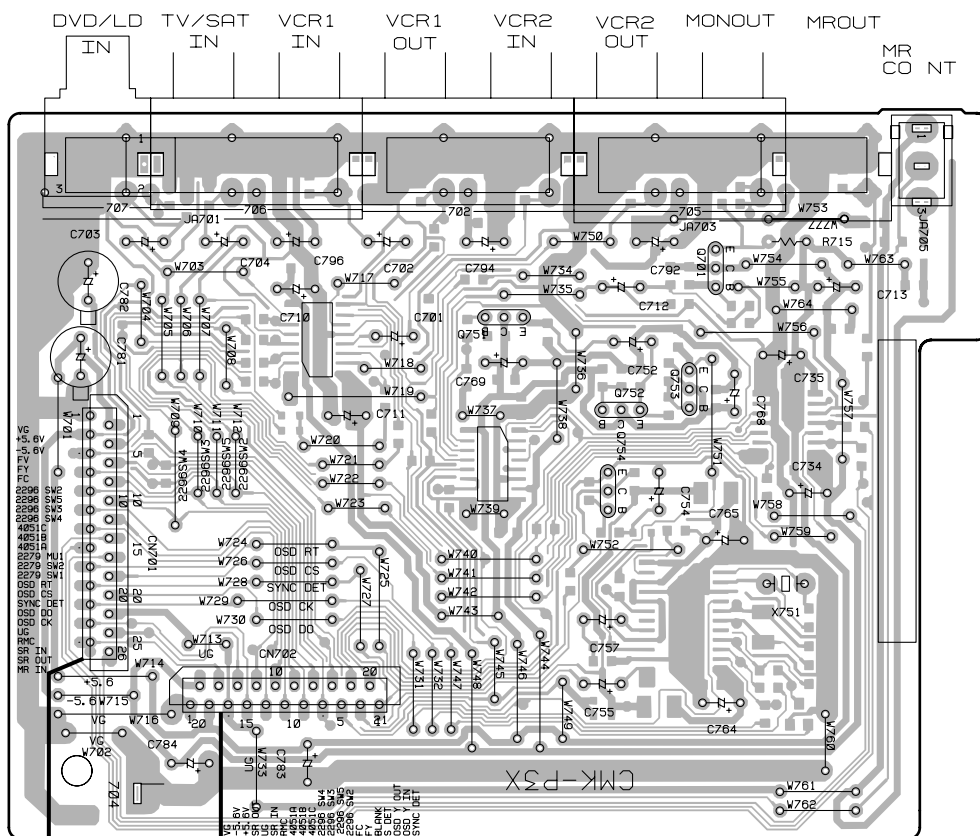
N Y6





# 4.8 VIDEO ASSY

## P VIDEO ASSY

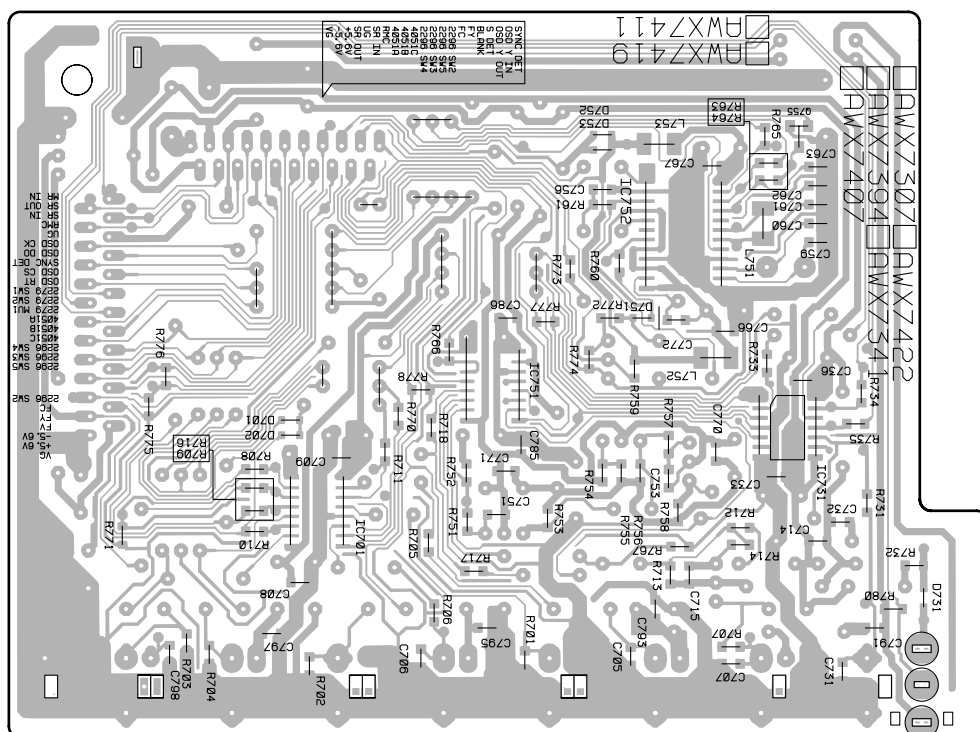


SIDE A

D CN905

Q CN804

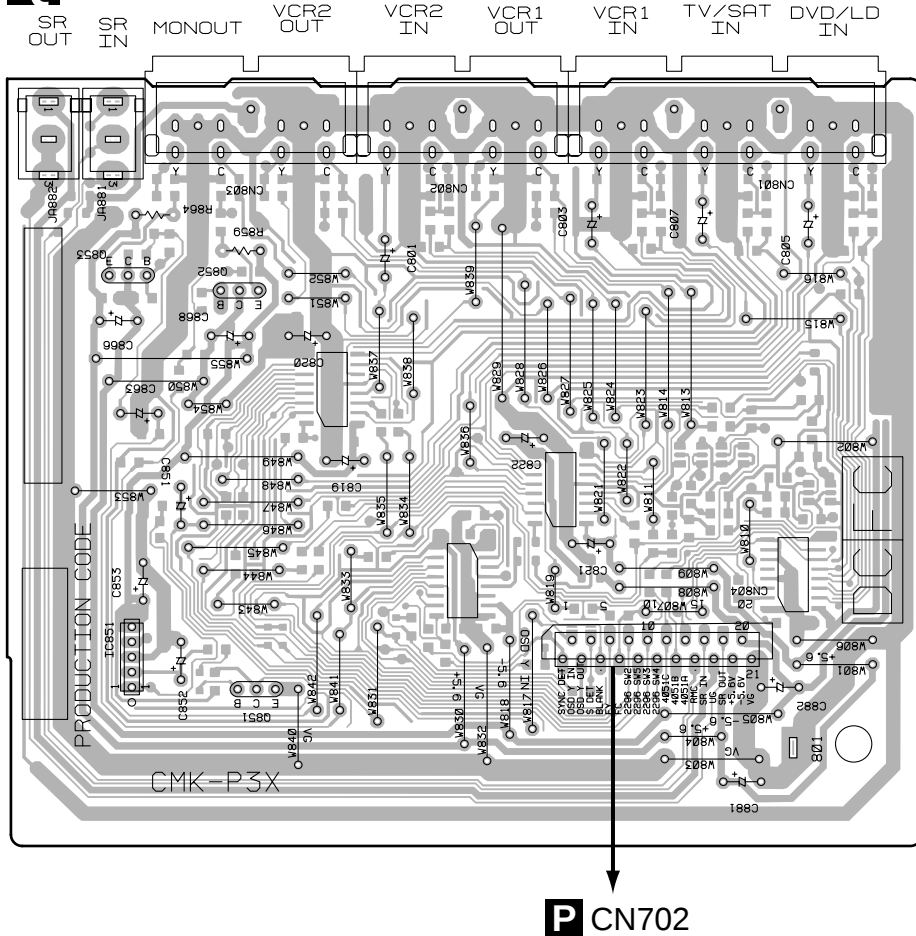
## P VIDEO ASSY



SIDE B

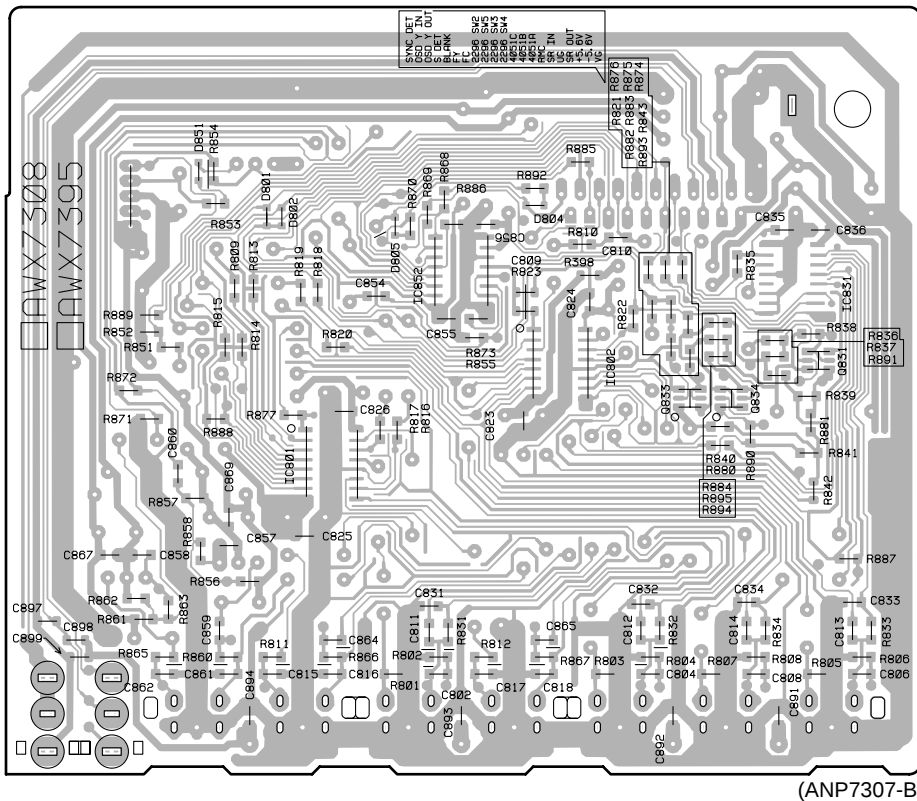
(ANP7307-B)

## 4.9 S-VIDEO ASSY

**Q** S-VIDEO ASSY

Q853 Q852

IC851 Q851

**SIDE A****Q** S-VIDEO ASSY

IC852 IC831

IC802 Q831

Q833 Q834

IC801

**SIDE B**

4.10 H. PHONE/F. VIDEO, DISPLAY and ROTARY ENCODER ASSYS

A

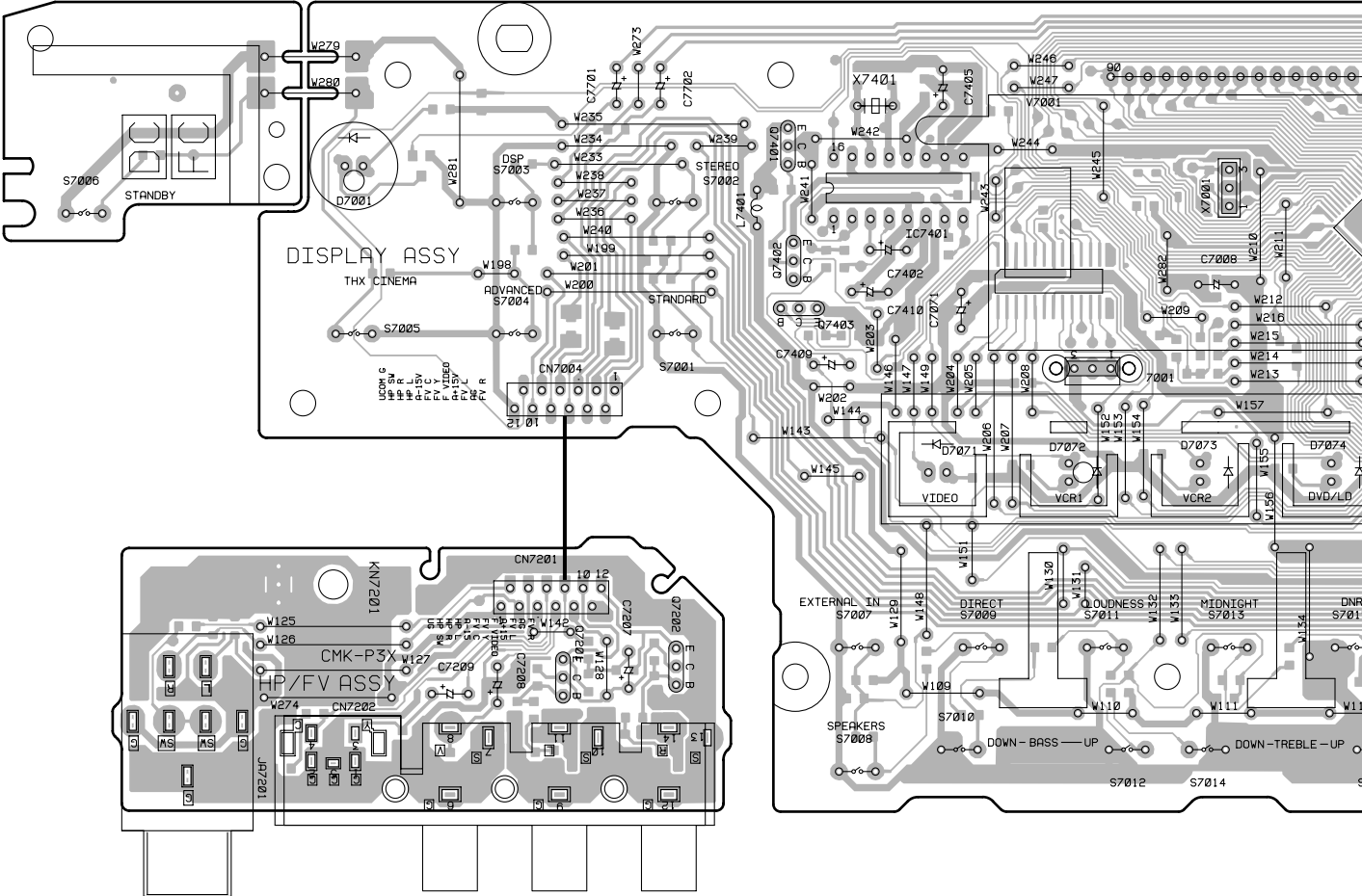
B

S DISPLAY ASSY

C

D

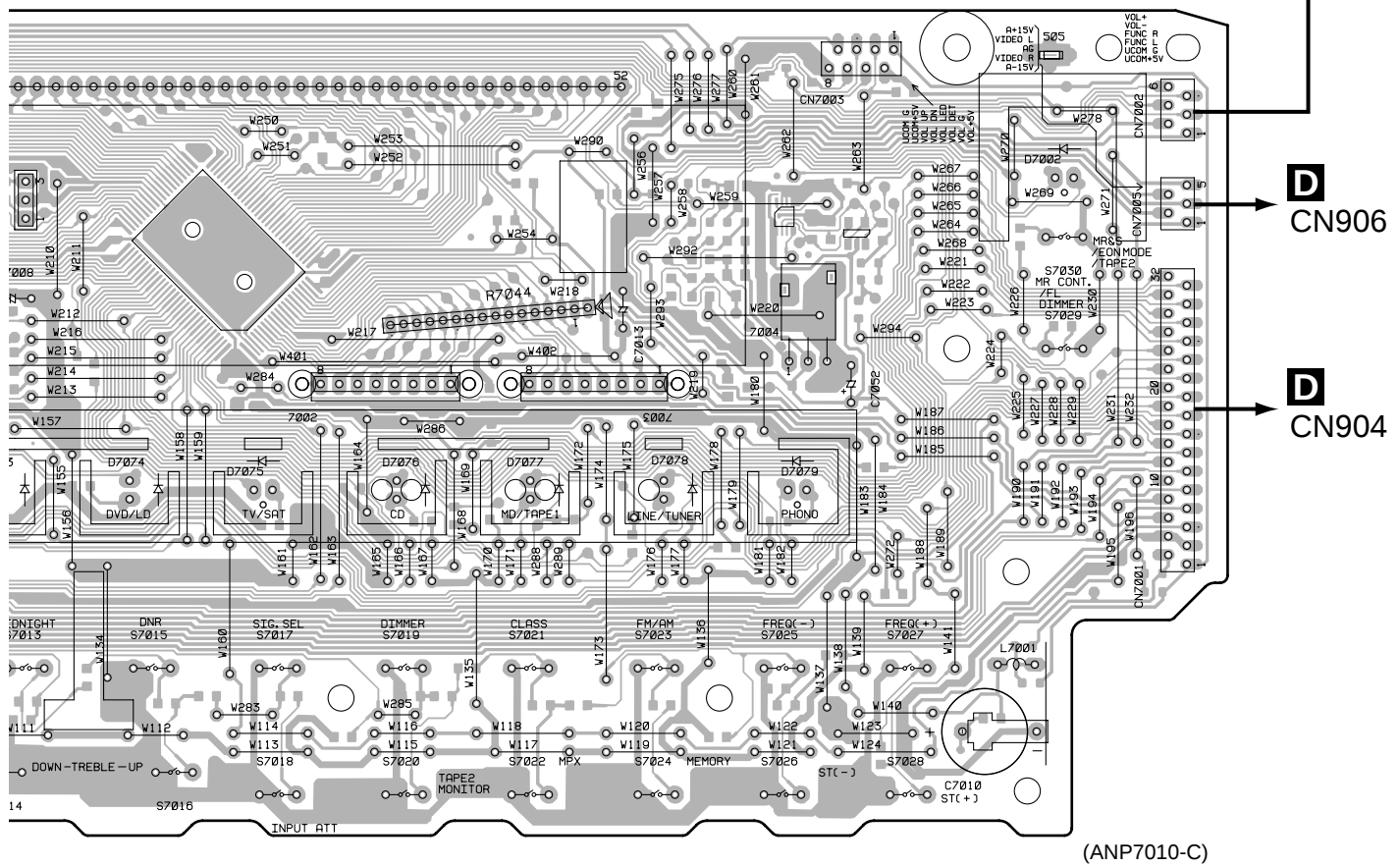
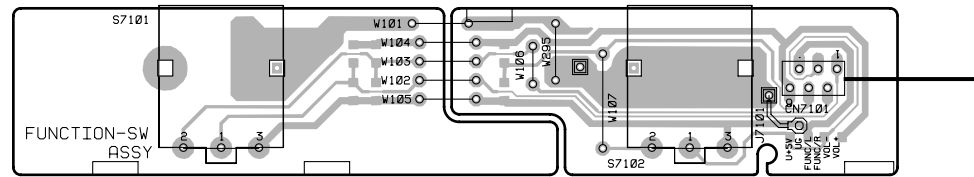
R H. PHONE/F. VIDEO ASSY



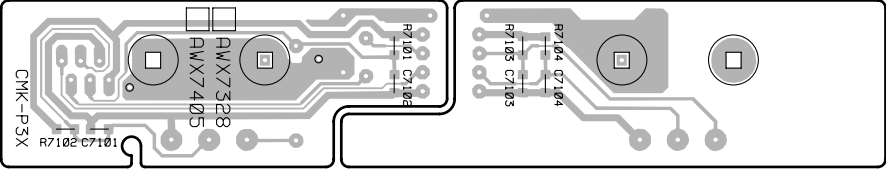
Q7201 Q7202

Q7401 IC7401  
Q7403

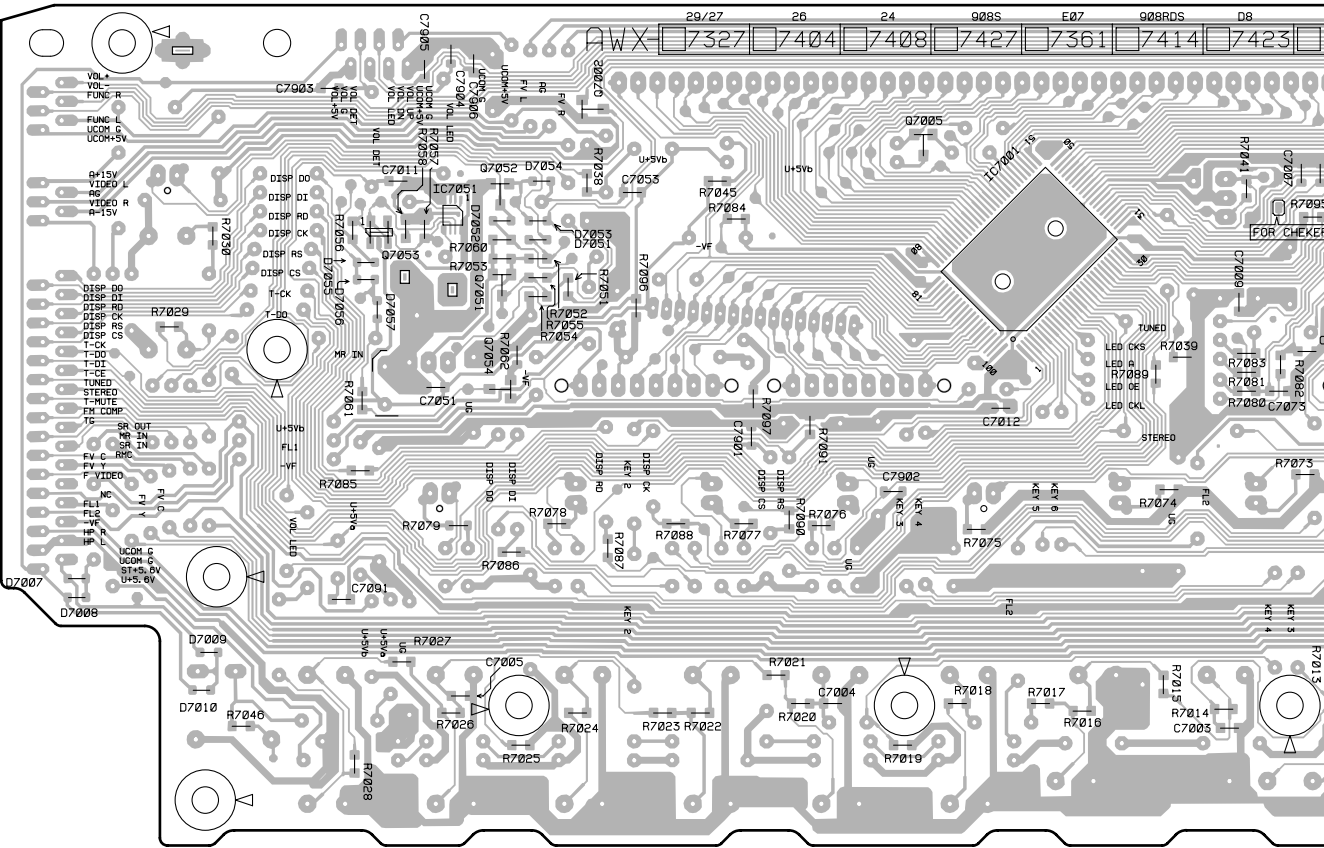
## T ROTARY ENCODER ASSY



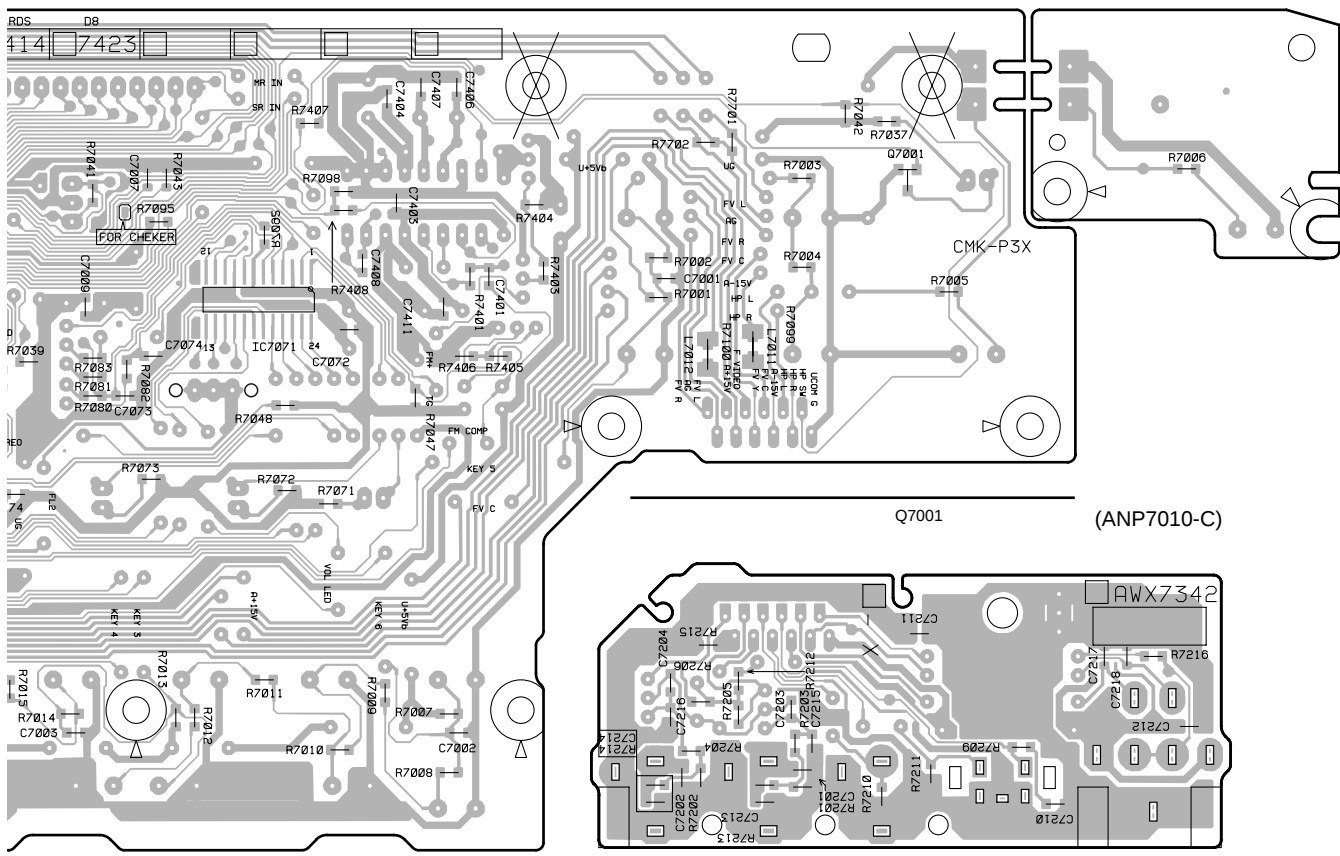
ROTARY ENCODER ASSY



DISPLAY ASSY



Q7053 Q7052 Q7002 Q7005 IC7001  
IC7051  
Q7051 Q7054



**R** H. PHONE/F. VIDEO ASSY

IC7071

**SIDE B**

**R S**

# 4.11 DSP ASSY

**W** CN1201 **X** CN1250 **Y** DSP ASSY

IC9151 Q9001-Q9003  
Q9032 Q9004-Q9007

Q9101-Q9104

IC9071 IC9091

IC9101

Q9201-Q9204

IC9102 IC9204  
IC9501 IC9203

IC9103

IC9401 IC9601  
IC9311 IC9321

IC9361 IC9411 IC9601

Q9603

IC9371 IC9421

IC9372

Q9605

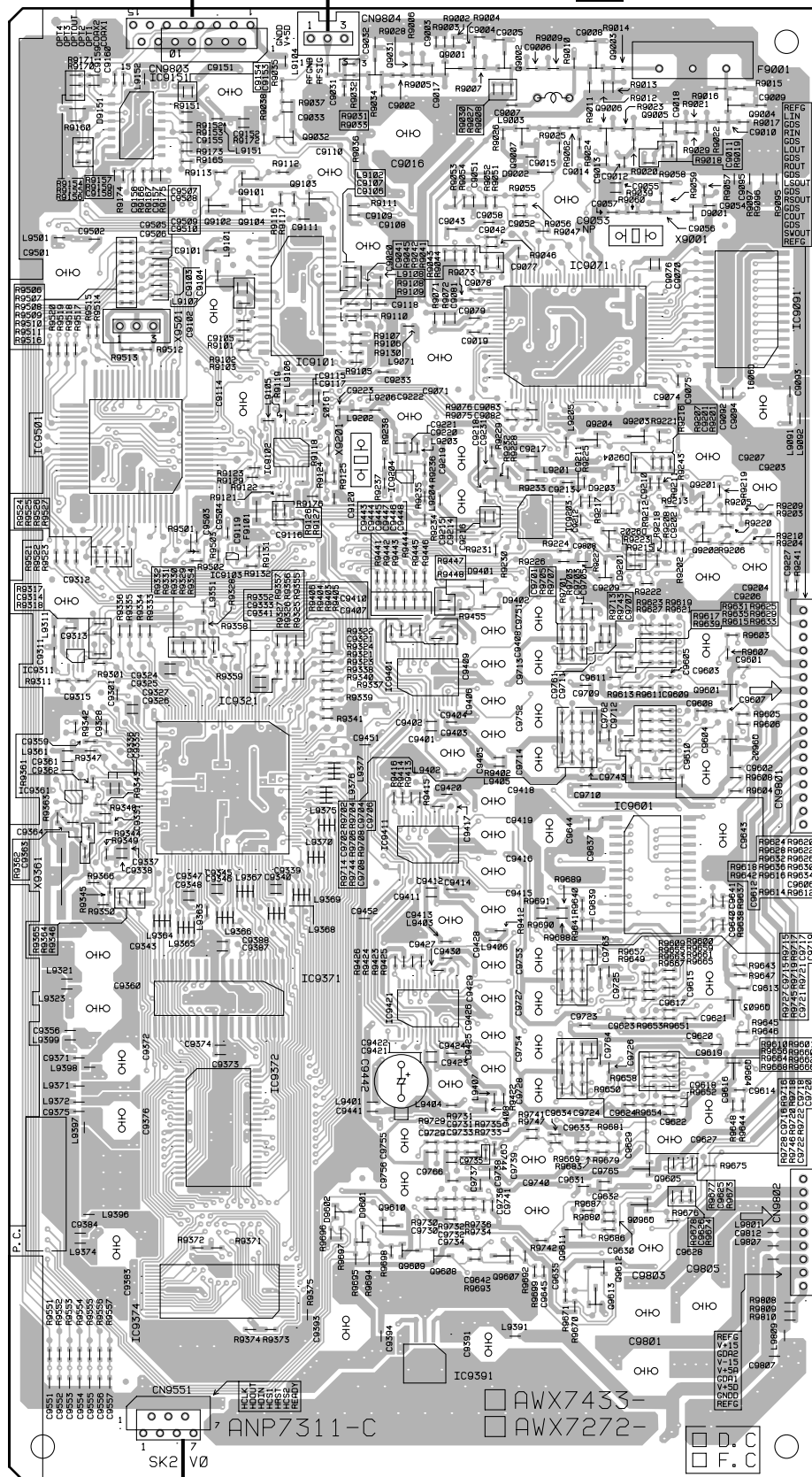
Q9606

Q9811-Q9813

Q9609 Q9608

IC9374

IC9391



**M** CN5007

**M** CN5006

**D** CN903

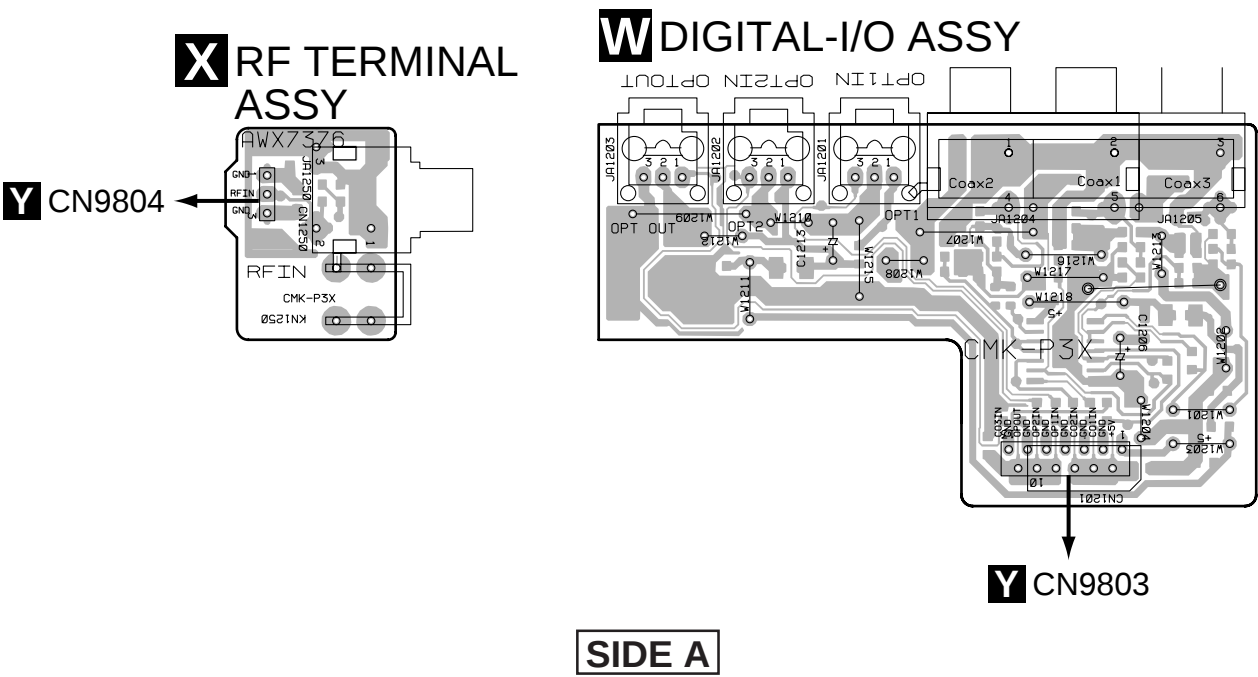
**SIDE A**

**Y**



4.12 DIGITAL-I/O and RF TERMINAL ASSYS

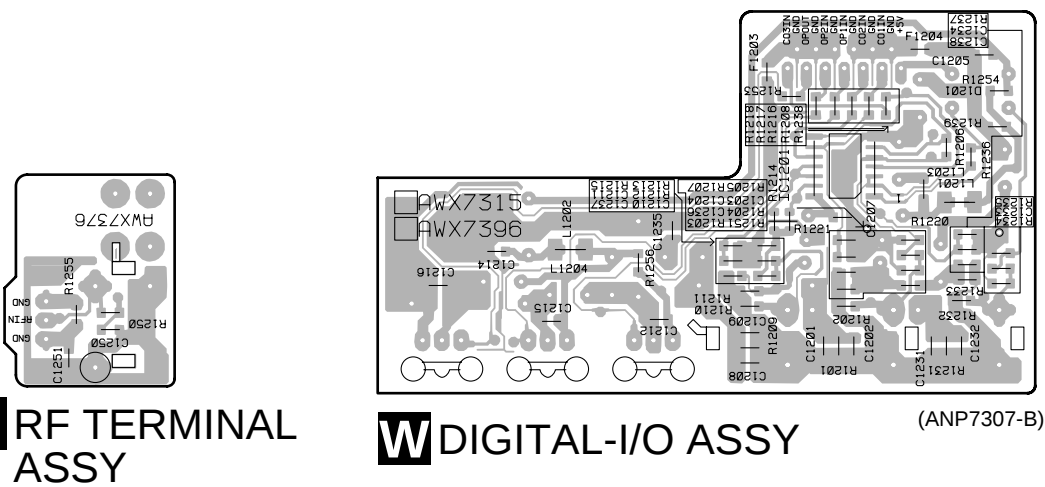
A



B

C

D



## 5. PCB PARTS LIST

NOTES: ● 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.

- 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%).

$560\ \Omega \rightarrow 56 \times 10^1 \rightarrow 561 \dots\dots\dots RD1/4PU \begin{array}{|c|c|c|} \hline 5 & 6 & 1 \\ \hline \end{array} J$   
 $47k\ \Omega \rightarrow 47 \times 10^3 \rightarrow 473 \dots\dots\dots RD1/4PU \begin{array}{|c|c|c|} \hline 4 & 7 & 3 \\ \hline \end{array} J$   
 $0.5\ \Omega \rightarrow R50 \dots\dots\dots RN2H \begin{array}{|c|c|c|} \hline R & 5 & 0 \\ \hline \end{array} K$   
 $1\ \Omega \rightarrow 1R0 \dots\dots\dots RS1P \begin{array}{|c|c|c|} \hline 1 & R & 0 \\ \hline \end{array} K$

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

$5.62k\ \Omega \rightarrow 562 \times 10^1 \rightarrow 5621 \dots\dots\dots RN1/4PC \begin{array}{|c|c|c|c|} \hline 5 & 6 & 2 & 1 \\ \hline \end{array} F$

| Mark | No. | Description                     | Part No. |
|------|-----|---------------------------------|----------|
| NSP  |     | MAIN ASSY                       | AWK7528  |
| NSP  |     | └ RF TERMINAL ASSY              | AWX7376  |
|      |     | └ S-VIDEO ASSY                  | AWX7395  |
|      |     | └ DIGITAL-I/O ASSY              | AWX7396  |
|      |     | └ MAIN CONTROL ASSY             | AWX7410  |
|      |     | └ VIDEO ASSY                    | AWX7422  |
| NSP  |     | COMPLEX ASSY (EXCEPT HV TYPE)   | AWK7529  |
| NSP  |     | COMPLEX ASSY (ONLY HV TYPE)     | AWK7557  |
|      |     | └ REGULATOR ASSY                | AWX7310  |
|      |     | └ PRIMARY ASSY (EXCEPT HV TYPE) | AWX7345  |
|      |     | └ PRIMARY ASSY (ONLY HV TYPE)   | AWX7454  |
|      |     | └ CONNECTION ASSY               | AWX7347  |
|      |     | └ A-PINJACK ASSY                | AWX7412  |
|      |     | └ EXTERNAL IN ASSY              | AWX7413  |
|      |     | └ TRANS 2-2 ASSY                | AWX7518  |
|      |     | └ TRANS 1 ASSY                  | AWX7316  |
| NSP  |     | FRONT/VAMP ASSY                 | AWK7530  |
|      |     | └ V-AMP ASSY                    | AWX7309  |
|      |     | └ P-SW ASSY                     | AWX7330  |
|      |     | └ H.PHONE/F.VIDEO ASSY          | AWX7342  |
| NSP  |     | └ ROTARY ENCODER                | AWX7405  |
|      |     | └ DISPLAY ASSY                  | AWX7414  |
| NSP  |     | POWER/CURRENT ASSY              | AWK7510  |
| NSP  |     | └ C-AMP-P ASSY                  | AWX7317  |
|      |     | └ C-AMP-N ASSY                  | AWX7318  |
| NSP  |     | └ OUTPUT-FL ASSY                | AWX7319  |
| NSP  |     | └ OUTPUT-FR ASSY                | AWX7320  |
|      |     | └ OUTPUT-C ASSY                 | AWX7321  |
| NSP  |     | └ OUTPUT-SL ASSY                | AWX7322  |
| NSP  |     | └ OUTPUT-SR ASSY                | AWX7323  |
|      |     | └ VL-TERMINAL ASSY              | AWX7324  |
|      |     | └ DIODE ASSY                    | AWX7343  |
|      |     | └ SP/PS ASSY                    | AWX7359  |
|      |     | └ TRANS 2-1 ASSY                | AWX7403  |
|      |     | DSP ASSY                        | AWX7272  |

### **A** EXTERNAL IN ASSY

#### CAPACITORS

|             |             |
|-------------|-------------|
| C1101-C1106 | CCCSL101J50 |
| C1107-C1112 | CEAT4R7M50  |
| C1113-C1115 | CKCYF103Z50 |

#### RESISTORS

|               |             |
|---------------|-------------|
| All Resistors | RD1/4PU□□□J |
|---------------|-------------|

#### OTHERS

|                           |           |
|---------------------------|-----------|
| JA1101-JA1103 2P PIN JACK | AKB7095   |
| CN1101 8P SOCKET          | KP200TA8L |

| Mark | No. | Description | Part No. |
|------|-----|-------------|----------|
|------|-----|-------------|----------|

### **B** A-PINJACK ASSY

#### CAPACITORS

|             |             |
|-------------|-------------|
| C1001-C1018 | CCCSL101J50 |
| C1019-C1022 | CKCYF103Z50 |

#### RESISTORS

|               |             |
|---------------|-------------|
| All Resistors | RD1/4PU□□□J |
|---------------|-------------|

#### OTHERS

|                                   |            |
|-----------------------------------|------------|
| JA1011-JA1013, JA1015 4P PIN JACK | AKB7048    |
| 1016 2P PINJACK                   | AKB7120    |
| CN1001 18P SOCKET                 | KP200TA18L |
| CN1002 4P SOCKET                  | KP200TA4L  |

### **C** CONNECTION ASSY

#### SEMICONDUCTORS

|               |            |
|---------------|------------|
| IC1351        | M5220P     |
| IC1301-IC1303 | NJM4558D-D |

#### COILS AND FILTERS

|             |         |
|-------------|---------|
| L1351-L1354 | LAU181J |
|-------------|---------|

#### CAPACITORS

|              |             |
|--------------|-------------|
| C1353, C1354 | CCCSL181J50 |
| C1301-C1306  | CCCSL331J50 |
| C1351, C1352 | CEAT100M50  |
| C1365, C1366 | CEAT101M25  |
| C1363, C1364 | CEAT2R2M50  |

|              |             |
|--------------|-------------|
| C1357, C1358 | CEAT470M25  |
| C1307-C1312  | CEAT4R7M50  |
| C1355, C1356 | CKCYB331K50 |
| C1313-C1318  | CKCYF103Z50 |
| C1361, C1362 | CQMA242J50  |

|              |            |
|--------------|------------|
| C1359, C1360 | CQMA822J50 |
|--------------|------------|

#### RESISTORS

|               |             |
|---------------|-------------|
| All Resistors | RD1/4PU□□□J |
|---------------|-------------|

#### OTHERS

|                   |            |
|-------------------|------------|
| CN1351 18P PLUG   | KM200TA18  |
| CN1352 4P PLUG    | KM200TA4   |
| CN1301 8P PLUG    | KM200TA8   |
| CN1302 10P SOCKET | KP200TA10L |
| CN1353 20P SOCKET | KP200TA20L |

# VSX-908RDS, VSX-908RDS-G

| Mark | No. | Description | Part No. |
|------|-----|-------------|----------|
|------|-----|-------------|----------|

## **D** MAIN CONTROL ASSY

### SEMICONDUCTORS

|                        |             |
|------------------------|-------------|
| IC115                  | NJM4558LD   |
| IC103, IC105           | NJM4558MD   |
| IC901                  | PD5506A     |
| IC104, IC107           | TC9163AF    |
| IC101                  | TC9274N-001 |
| IC108                  | TC9482N     |
| IC112                  | UPC4570G2   |
| IC113, IC114           | UPC4570HA   |
| Q991                   | 2SC1740S    |
| Q251, Q252, Q992       | 2SC2412K    |
| Q271, Q272             | 2SC2878     |
| Q902-Q905              | DTA124EK    |
| Q901                   | DTC143EK    |
| Q107-Q112              | HN1C03F     |
| D251, D252, D254, D255 | 1SS355      |
| D901-D910, D991        | 1SS355      |
| D995                   | UDZ11B      |
| D253, D256             | UDZS5.1B    |

### COILS AND FILTERS

|      |           |              |
|------|-----------|--------------|
| L901 | CHIP COIL | LCTA2R2J3225 |
|------|-----------|--------------|

### CAPACITORS

|                              |              |
|------------------------------|--------------|
| C902                         | ACH7058      |
| C155, C156, C165, C166       | CCSQCH101J50 |
| C175, C176, C951-C959        | CCSQCH101J50 |
| C962-C964                    | CCSQCH101J50 |
| C101-C106, C183-C188         | CCSQCH221J50 |
| C113, C114                   | CCSQCH331J50 |
| C157, C158, C167, C168, C177 | CCSQCH560J50 |
| C111, C112, C117, C118       | CEAT100M50   |
| C127-C130, C153, C154        | CEAT100M50   |
| C159, C160, C163, C164       | CEAT100M50   |
| C169, C170, C173, C174       | CEAT100M50   |
| C179, C180, C252, C255, C256 | CEAT100M50   |
| C277, C278                   | CEAT101M16   |
| C123-C126, C991              | CEAT101M16   |
| C257                         | CEAT1R0M50   |
| C903                         | CEAT221M10   |
| C121, C122                   | CEAT221M16   |
| C905                         | CEAT2R2M50   |
| C915                         | CEAT331M10   |
| C107, C108, C115, C116       | CKSQYB103K50 |
| C131-C140, C161, C162        | CKSQYB103K50 |
| C253, C254, C279, C280, C901 | CKSQYB103K50 |
| C904, C908, C909, C914, C919 | CKSQYB103K50 |
| C965, C995                   | CKSQYB103K50 |
| C273, C274                   | CKSQYB104K25 |
| C275, C276                   | CKSQYB332K50 |
| C178                         | CKSQYB333K50 |
| C271, C272                   | CKSQYB472K50 |
| C910, C912                   | CKSQYB473K50 |
| C906                         | CKSQYF105Z16 |
| C992                         | CKSQYF225Z16 |

### RESISTORS

|                 |             |
|-----------------|-------------|
| R948            | RA12T473J   |
| R913            | RA5T103J    |
| R949            | RA8T103J    |
| Other Resistors | RS1/10S□□□J |

| Mark | No. | Description | Part No. |
|------|-----|-------------|----------|
|------|-----|-------------|----------|

### OTHERS

|               |                                |            |
|---------------|--------------------------------|------------|
| CN903         | 7P FFC CONNECTOR               | 52044-0745 |
| CN902         | 13P FFC CONNECTOR              | 52044-1345 |
| CN906         | 5P FFC CONNECTOR               | 52045-0545 |
| CN105         | 23P FFC CONNECTOR              | 52045-2345 |
| CN905         | 26P FFC CONNECTOR              | 52045-2645 |
| CN904         | 32P FFC CONNECTOR              | 52045-3245 |
| CN941         | 4P PIN JACK                    | AKB7015    |
| 113           | 6P PIN JACK                    | AKB7089    |
| JA911         | 2P PIN JACK                    | DKB1045    |
| CN103         | 10P PLUG                       | KM200TA10  |
| CN101         | 20P PLUG                       | KM200TA20  |
| CN104         | 16P SOCKET                     | KP200IA16L |
| CN901         | 15P SOCKET                     | KP200TA15L |
| CN920         | 7P SOCKET                      | KP200TA7L  |
| CN108         | 9P SOCKET                      | KP200TA9L  |
| 909, 912, 913 | PCB BINDER                     | VEF1040    |
| X901          | CERAMIC RESONATOR<br>(4.19MHz) | ASS1018    |

## **E** V-AMP ASSY

### SEMICONDUCTORS

|                                   |           |
|-----------------------------------|-----------|
| IC581                             | BU4052BCF |
| IC7502, IC7522, IC7542, IC7602    | NJM4558MD |
| IC7622                            | NJM4558MD |
| IC7501, IC7521, IC7541, IC7601    | UPC4570G2 |
| IC7621                            | UPC4570G2 |
| Q503, Q523, Q543, Q603, Q623      | 2SA1048   |
| Q506, Q509, Q526, Q529, Q546      | 2SA970    |
| Q549, Q606, Q609, Q626, Q629      | 2SA970    |
| Q507, Q508, Q527, Q528            | 2SC2240   |
| Q547, Q548, Q561, Q607, Q608      | 2SC2240   |
| Q627, Q628                        | 2SC2240   |
| Q510, Q530, Q550, Q610, Q630      | 2SC2878   |
| Q7501, Q7521, Q7541, Q7601, Q7621 | 2SC2878   |
| Q501, Q521, Q541, Q601, Q621      | FMS3      |
| Q504, Q524, Q544, Q604, Q624      | FMW4      |
| D501, D502, D504, D505            | 1SS355    |
| D521, D522, D524, D525            | 1SS355    |
| D541, D542, D544, D545            | 1SS355    |
| D581-D588, D601, D602             | 1SS355    |
| D604, D605, D621, D622            | 1SS355    |
| D624, D625, D7501, D7502          | 1SS355    |
| D7521, D7522, D7541, D7542        | 1SS355    |
| D7601, D7602, D7621, D7622        | 1SS355    |
| D7503, D7504, D7523, D7524        | HZU2CLL   |
| D7543, D7544, D7603, D7604        | HZU2CLL   |
| D7623, D7624                      | HZU2CLL   |
| D503, D523, D543, D603, D623      | UDZS6.8B  |
| D506, D526, D546, D606, D626      | UDZS8.2B  |

### CAPACITORS

|                              |              |
|------------------------------|--------------|
| C511, C512, C531, C532       | CCCSL181K2H  |
| C551, C552, C611, C612       | CCCSL181K2H  |
| C631, C632                   | CCCSL181K2H  |
| C509, C529, C549, C609, C629 | CCCSL5R0C2H  |
| C504, C524, C544, C604, C624 | CCSQCH101J50 |
| C7504, C7505, C7524, C7525   | CCSQCH220J50 |
| C7544, C7545, C7604, C7605   | CCSQCH220J50 |
| C7624, C7625                 | CCSQCH220J50 |
| C502, C522, C542, C602, C622 | CCSQCH221J50 |
| C506, C507, C526, C527       | CCSQL560J50  |

| Mark | No.                                                                                                                                                | Description                                                                  | Part No. |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------|
|      | C546, C547, C606, C607<br>C626, C627<br>C7501, C7521, C7541, C7601, C7621<br>C505, C508, C525, C528, C545<br>C548, C605, C608, C625, C628          | CCSQL560J50<br>CCSQL560J50<br>CEAT100M50<br>CEAT101M16<br>CEAT101M16         |          |
|      | C510, C530, C550, C610, C630<br>C513, C533, C553, C568, C569<br>C613, C633<br>C501, C521, C541, C601, C621<br>C7506, C7526, C7546, C7606, C7626    | CEAT470M16<br>CEAT470M50<br>CEAT470M50<br>CEAT4R7M50<br>CEAT4R7M50           |          |
|      | C7502, C7503, C7510, C7512<br>C7522, C7523, C7530, C7532<br>C7542, C7543, C7550, C7552<br>C7602, C7603, C7610, C7612<br>C7622, C7623, C7630, C7632 | CKSQYB104K25<br>CKSQYB104K25<br>CKSQYB104K25<br>CKSQYB104K25<br>CKSQYB104K25 |          |
|      | C561–C565<br>C503, C523, C543, C603, C623<br>C570<br>C581, C582                                                                                    | CKSQYB222K50<br>CKSQYB332K50<br>CKSQYF223Z50<br>CKSQYF225Z16                 |          |

**RESISTORS**

|   |                              |              |
|---|------------------------------|--------------|
|   | R518, R538, R558, R618, R638 | RD1/4MUF473J |
| △ | R513, R514, R533, R534       | RS1/10S121J  |
| △ | R553, R554, R613, R614       | RS1/10S121J  |
| △ | R633, R634                   | RS1/10S121J  |
|   | Other Resistors              | RS1/10S□□□J  |

**OTHERS**

|       |                   |            |
|-------|-------------------|------------|
| CN501 | 23P FFC CONNECTOR | 52045-2345 |
| CN502 | 28P FFC CONNECTOR | 52045-2845 |
| CN504 | 3P PLUG           | KM250MA3   |
| 506   | PCB BINDER        | VEF1040    |

**F C-AMP-N ASSY****SEMICONDUCTORS**

|   |                                   |          |
|---|-----------------------------------|----------|
|   | Q2503, Q2523, Q2543, Q2603, Q2623 | 2SA970   |
|   | Q2001, Q2002                      | 2SC1740S |
|   | Q2502, Q2522, Q2542, Q2602, Q2622 | 2SC4137  |
| △ | Q2501, Q2521, Q2541, Q2601, Q2621 | IRF540A  |
|   | D2501–D2504, D2521–D2524          | 1SS133   |
|   | D2541–D2544, D2601–D2604          | 1SS133   |
|   | D2621–D2624                       | 1SS133   |

**CAPACITORS**

|                                   |             |
|-----------------------------------|-------------|
| C2501, C2521, C2541, C2601, C2621 | CEANPR22M50 |
| C2001                             | CEAT101M10  |

**RESISTORS**

|   |                                   |              |
|---|-----------------------------------|--------------|
| △ | R2506, R2510, R2526, R2530, R2546 | RD1/4PUF391J |
| △ | R2550, R2606, R2610, R2626, R2630 | RD1/4PUF391J |
| △ | R2501, R2521, R2541, R2601, R2621 | RD1/4PUF470J |
|   | VR2501, VR2521, VR2541 (22Ω)      | RCP1134      |
|   | VR2601, VR2621 (22Ω)              | RCP1134      |
|   | Other Resistors                   | RD1/4PU□□□J  |

**OTHERS**

|                                |                   |            |
|--------------------------------|-------------------|------------|
| CN2001                         | 28P FFC CONNECTOR | 52045-2845 |
| CN2501, CN2521, CN2541, CN2601 | 7P PLUG           | KM250NA7L  |
| CN2621                         | 8P PLUG           | KM250NA8L  |

| Mark                  | No.                               | Description         | Part No. |
|-----------------------|-----------------------------------|---------------------|----------|
| <b>G</b>              |                                   | <b>C-AMP-P ASSY</b> |          |
| <b>SEMICONDUCTORS</b> |                                   |                     |          |
| △                     | Q2504, Q2524, Q2544, Q2604, Q2624 | IRF9540A            |          |

**RESISTORS**

|   |                                   |              |
|---|-----------------------------------|--------------|
| △ | R2511, R2531, R2551, R2611, R2631 | RD1/4PUF470J |
|---|-----------------------------------|--------------|

**OTHERS**

|                        |         |           |
|------------------------|---------|-----------|
| CN2504, CN2524, CN2544 | 5P PLUG | KM250NA5L |
| CN2604, CN2624         | 5P PLUG | KM250NA5L |

**HA OUTPUT-SL ASSY****RESISTORS**

|   |                  |         |
|---|------------------|---------|
| △ | R2612 (0.05Ω/5W) | ACN7097 |
|---|------------------|---------|

**OTHERS**

|        |           |          |
|--------|-----------|----------|
| CN2603 | 5P SOCKET | KP250NA5 |
| CN2602 | 7P SOCKET | KP250NA7 |

**HB OUTPUT-FL ASSY****RESISTORS**

|   |                  |         |
|---|------------------|---------|
| △ | R2512 (0.05Ω/5W) | ACN7097 |
|---|------------------|---------|

**OTHERS**

|        |           |          |
|--------|-----------|----------|
| CN2503 | 5P SOCKET | KP250NA5 |
| CN2502 | 7P SOCKET | KP250NA7 |

**HC OUTPUT-C ASSY****RESISTORS**

|   |                  |         |
|---|------------------|---------|
| △ | R2552 (0.05Ω/5W) | ACN7097 |
|---|------------------|---------|

**OTHERS**

|        |           |          |
|--------|-----------|----------|
| CN2543 | 5P SOCKET | KP250NA5 |
| CN2542 | 7P SOCKET | KP250NA7 |

**HD OUTPUT-FR ASSY****RESISTORS**

|   |                  |         |
|---|------------------|---------|
| △ | R2532 (0.05Ω/5W) | ACN7097 |
|---|------------------|---------|

**OTHERS**

|        |           |          |
|--------|-----------|----------|
| CN2523 | 5P SOCKET | KP250NA5 |
| CN2522 | 7P SOCKET | KP250NA7 |

**HE OUTPUT-SR ASSY****RESISTORS**

|   |                  |         |
|---|------------------|---------|
| △ | R2632 (0.05Ω/5W) | ACN7097 |
|---|------------------|---------|

**OTHERS**

|        |           |          |
|--------|-----------|----------|
| CN2623 | 5P SOCKET | KP250NA5 |
| CN2622 | 8P SOCKET | KP250NA8 |

# VSX-908RDS, VSX-908RDS-G

| Mark     | No.                       | Description     | Part No.     |
|----------|---------------------------|-----------------|--------------|
| <b>I</b> | <b>VL-TERMINAL ASSY</b>   |                 |              |
|          | <b>CAPACITORS</b>         |                 |              |
|          | C2011, C2012              |                 | CEAT1R0M2A   |
|          | <b>OTHERS</b>             |                 |              |
|          | KN2011,KN2012             | GROUND PLATE    | ANK-142      |
| <b>J</b> | <b>TRANS 2-1 ASSY</b>     |                 |              |
|          | <b>SEMICONDUCTORS</b>     |                 |              |
|          | △ IC4501, IC4502 (2.5A)   |                 | AEK7014      |
|          | Q4502                     |                 | 2SA1837      |
|          | Q4501                     |                 | 2SC4793      |
|          | Q4504                     |                 | DTA143ES     |
|          | Q4505                     |                 | DTC124ES     |
|          | Q4503                     |                 | DTC143ES     |
|          | D4509, D4510              |                 | MTZJ12B      |
|          | D4513                     |                 | MTZJ16B      |
|          | D4505–D4508               |                 | MTZJ20A      |
|          | D4501–D4504, D4511, D4512 |                 | S5688G       |
|          | <b>CAPACITORS</b>         |                 |              |
|          | C4503 (1μF/100V, NP)      |                 | ACH1237      |
|          | C4507, C4508              |                 | CEAT471M63   |
|          | C4509, C4510              |                 | CECA101M50   |
|          | C4501, C4502              |                 | CQMA333K2E   |
|          | <b>RESISTORS</b>          |                 |              |
|          | R4509, R4510              |                 | RD1/4PMF332J |
|          | R4501–R4503               |                 | RFA1/4PS220J |
|          | Other Resistors           |                 | RD1/4PU□□□□  |
|          | <b>OTHERS</b>             |                 |              |
|          | 4001                      | 9P CABLE HOLDER | 51048-0900   |
|          | H4501–H4504               | FUSE CLIP       | AKR1004      |
|          | 4501, 4502                | HEAT SINK       | ANH-309      |
|          | 4503, 4504                | SCREW           | BPZ30P080FZK |
| <b>K</b> | <b>DIODE ASSY</b>         |                 |              |
|          | <b>SEMICONDUCTORS</b>     |                 |              |
|          | △ D3001, D3002            |                 | D5SBA20(B)   |
| <b>L</b> | <b>SP/PS ASSY</b>         |                 |              |
|          | <b>SEMICONDUCTORS</b>     |                 |              |
|          | IC3001 (750mA)            |                 | AEK7007      |
|          | Q3504                     |                 | 2SC2235      |
|          | Q3503                     |                 | 2SC4793      |
|          | Q3005, Q3156–Q3159, Q3501 |                 | DTA124ES     |
|          | Q3502                     |                 | DTC124ES     |
|          | Q3151–Q3155               |                 | DTC143ES     |
|          | D3051–D3060               |                 | 1SS133       |
|          | D3506, D3508              |                 | MTZJ12C      |
|          | D3505                     |                 | MTZJ27D      |
|          | D3507                     |                 | MTZJ5.1B     |
|          | D3501, D3502              |                 | S5688G       |
|          | <b>COILS AND FILTERS</b>  |                 |              |
|          | L3101–L3105               | AF CHOKE COIL   | ATH1053      |

| Mark     | No.                               | Description         | Part No.    |
|----------|-----------------------------------|---------------------|-------------|
|          | <b>SWITCHES AND RELAYS</b>        |                     |             |
|          | RY3101-RY3105                     |                     | ASR7014     |
|          | <b>CAPACITORS</b>                 |                     |             |
|          | C3001, C3002 (22000μF/56V)        |                     |             |
|          | C3118                             |                     | CEAT100M50  |
|          | C3502                             |                     | CEAT1R0M50  |
|          | C3504                             |                     | CEAT471M25  |
|          | C3501                             |                     | CEAT471M35  |
|          | C3101–C3110                       |                     | CFTYA224J50 |
|          | C3503                             |                     | CKCYF103Z50 |
|          | C3111–C3117                       |                     | CQMA332K2E  |
|          | <b>RESISTORS</b>                  |                     |             |
|          | R3151–R3155                       |                     | RD1/2PM331J |
|          | R3503                             |                     | RD1/4PU102J |
|          | R3507                             |                     | RD1/4PU103J |
|          | R3504                             |                     | RD1/4PU104J |
|          | R3506                             |                     | RD1/4PU222J |
|          | R3501                             |                     | RD1/4PU471J |
|          | R3502                             |                     | RD1/4PU473J |
|          | R3133, R3134                      |                     | RS1LMF471J  |
|          | R3106–R3110                       |                     | RS1LMF4R7J  |
|          | R3131, R3132                      |                     | RS2LMF331J  |
|          | R3505                             |                     | RS3LMF221J  |
|          | Other Resistors                   |                     | RD1/4PM□□□□ |
|          | <b>OTHERS</b>                     |                     |             |
|          | 3004                              | 8P CABLE HOLDER     | 51048-0800  |
|          | 3001                              | 9P CABLE HOLDER     | 51048-0900  |
|          | CN3003                            | 14P FFC CONNECTOR   | 52045-1445  |
|          | CN3101                            | 8P SPEAKER TERMINAL | AKE7044     |
|          | CN3102                            | 6P SPEAKER TERMINAL | AKE7045     |
|          | J3002                             | JUMPER WIRE 8P      | D20PYY0825E |
|          | J3001                             | JUMPER WIRE 9P      | D20PYY0915E |
|          | CN3001                            | 4P PLUG             | KM200TA4    |
|          | CN3002                            | 3P PLUG             | KM250MA3    |
|          | KN3001                            | EARTH METAL FITTING | VNF1084     |
| <b>M</b> | <b>REGULATOR ASSY</b>             |                     |             |
|          | <b>SEMICONDUCTORS</b>             |                     |             |
|          | △ IC5009, IC5010 (200mA)          |                     | AEK7023     |
|          | △ IC5004, IC5008                  |                     | NJM78M05FA  |
|          | △ IC5003                          |                     | NJM78M12FA  |
|          | △ IC5001                          |                     | NJM78M15FA  |
|          | △ IC5005, IC5007                  |                     | NJM78M56FA  |
|          | △ IC5006                          |                     | NJM79M05FA  |
|          | △ IC5002                          |                     | NJM79M15FA  |
|          | D5010                             |                     | 1SS133      |
|          | △ D5009                           |                     | D3SBA20(B)  |
|          | D5012–D5014                       |                     | MTZJ10C     |
|          | D5011                             |                     | MTZJ5.1B    |
|          | △ D5001–D5008, D5015–D5017        |                     | S5688G      |
|          | <b>CAPACITORS</b>                 |                     |             |
|          | C5015, C5017, C5019, C5021, C5023 |                     | CEAT101M10  |
|          | C5009, C5011, C5013, C5025        |                     | CEAT101M25  |
|          | C5024                             |                     | CEAT101M50  |
|          | C5026                             |                     | CEAT221M35  |
|          | C5027, C5028                      |                     | CEAT221M50  |

| Mark | No.                                                                                        | Description | Part No.                                                            |
|------|--------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------|
|      | C5001, C5003, C5006<br>C5002, C5004<br>C5005<br>C5007<br>C5008, C5010, C5012, C5014, C5016 |             | CEAT222M25<br>CEAT222M35<br>CEAT332M25<br>CEAT472M16<br>CKCYF103Z50 |
|      | C5018, C5020, C5022                                                                        |             | CKCYF103Z50                                                         |

**RESISTORS**

|             |             |
|-------------|-------------|
| R5001–R5003 | RD1/2PM620J |
|-------------|-------------|

**OTHERS**

|                |                     |            |
|----------------|---------------------|------------|
| 5009           | 4P CABLE HOLDER     | 51048-0400 |
| CN5002         | 14P FFC CONNECTOR   | 52045-1445 |
| CN5001         | 8P JUMPER CONNECTOR | 52147-0810 |
| J5000          | BOARD IN WIRE       | DB022ND0   |
| CN5004         | 16P PLUG            | KM200IA16  |
| CN5005         | 15P PLUG            | KM200TA15  |
| CN5007         | 17P PLUG            | KM200TA17  |
| CN5008         | 7P PLUG             | KM200TA7   |
| CN5003, CN5006 | 9P PLUG             | KM200TA9   |
| KN5001, KN5002 |                     | VNF1084    |
|                | EARTH METAL FITTING |            |

**TRANS 1 ASSY**

TRANS 1 Assy has no service parts.

**TRANS 2-2 ASSY****SEMICONDUCTORS**

|               |         |
|---------------|---------|
| △ IC5501 (4A) | AEK7018 |
|---------------|---------|

**CAPACITORS**

|                    |             |
|--------------------|-------------|
| △ C5502 (1μF/100V) | ACH1237     |
| △ C5501            | CEANPR47M50 |

**RESISTORS**

|                 |              |
|-----------------|--------------|
| △ R5501         | RFA1/4PS100J |
| Other Resistors | RD1/4PU□□□J  |

**OTHERS**

|      |                 |            |
|------|-----------------|------------|
| 5501 | 4P CABLE HOLDER | 51048-0400 |
|------|-----------------|------------|

**VIDEO ASSY****SEMICONDUCTORS**

|                       |               |
|-----------------------|---------------|
| IC751                 | BU4053BCF     |
| IC752                 | LC74782M-9011 |
| IC701                 | NJM2296M      |
| Q701                  | 2SA933S       |
| Q751–Q754             | 2SC1740S      |
| Q755                  | DTC124EK      |
| D701, D702, D751–D753 | 1SS355        |

**COILS AND FILTERS**

|            |           |              |
|------------|-----------|--------------|
| L752, L753 | CHIP COIL | LCTA100J3225 |
| L751       | CHIP COIL | LCTA330J3225 |

**CAPACITORS**

|            |              |
|------------|--------------|
| C753       | CCSQCH100D50 |
| C763, C772 | CCSQCH101J50 |
| C715, C759 | CCSQCH150J50 |
| C760       | CCSQCH180J50 |
| C705–C707  | CCSQCH181J50 |

| Mark | No.                                                                                     | Description | Part No.                                                             |
|------|-----------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------|
|      | C761, C762<br>C754<br>C701–C704, C710–C712<br>C734, C735, C755, C764, C765<br>C781–C784 |             | CCSQCH240J50<br>CEAT100M50<br>CEAT101M10<br>CEAT101M10<br>CEAT101M10 |

|                                                        |                                                                        |
|--------------------------------------------------------|------------------------------------------------------------------------|
| C713, C768, C769<br>C757<br>C752<br>C795, C797<br>C756 | CEAT101M16<br>CEAT1R0M50<br>CEAT330M16<br>CKSQYB103K50<br>CKSQYB122K50 |
|--------------------------------------------------------|------------------------------------------------------------------------|

|                                                              |                              |
|--------------------------------------------------------------|------------------------------|
| C708, C709, C714, C766, C767<br>C770, C771, C785, C786, C793 | CKSQYB473K50<br>CKSQYB473K50 |
|--------------------------------------------------------------|------------------------------|

**RESISTORS**

|                         |                            |
|-------------------------|----------------------------|
| R715<br>Other Resistors | RD1/2VM201J<br>RS1/10S□□□J |
|-------------------------|----------------------------|

**OTHERS**

|               |                   |            |
|---------------|-------------------|------------|
| CN702         | 21P FFC CONNECTOR | 52045-2145 |
| CN701         | 26P FFC CONNECTOR | 52045-2645 |
| 702, 705, 706 | 2P RCA PIN JACK   | AKB7017    |
| 707           | 1P RCA PIN JACK   | AKB7020    |
| 704           | PCB BINDER        | VEF1040    |

|      |                                    |         |
|------|------------------------------------|---------|
| X751 | CRYSTAL RESONATOR<br>(14.31818MHz) | ASS1056 |
|------|------------------------------------|---------|

**S-VIDEO ASSY****SEMICONDUCTORS**

|              |           |
|--------------|-----------|
| IC831        | BU4051BCF |
| IC852        | BU4053BCF |
| IC851        | LA7213    |
| IC801, IC802 | NJM2296M  |
| Q852, Q853   | 2SA933S   |

|                              |          |
|------------------------------|----------|
| Q851                         | DTC124ES |
| Q833, Q834                   | IMH11    |
| Q831                         | IMZ1A    |
| D801, D802, D804, D805, D851 | 1SS355   |

**CAPACITORS**

|                       |              |
|-----------------------|--------------|
| C857                  | CCSQCH100D50 |
| C854                  | CCSQCH151J50 |
| C815–C818, C861, C862 | CCSQCH181J50 |
| C898                  | CCSQCH221J50 |
| C809, C858            | CCSQCH330J50 |

|                                                                                           |                                                                    |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| C801, C803, C805, C807<br>C819–C822, C852, C853, C863<br>C881, C882<br>C866, C868<br>C851 | CEAT101M10<br>CEAT101M10<br>CEAT101M10<br>CEAT101M16<br>CEAT3R3M50 |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------|

|                                                                                                                  |                                                                              |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| C831–C836, C855, C856, C891<br>C893, C894, C899<br>C810–C814, C859, C860<br>C864, C865<br>C802, C804, C806, C808 | CKSQYB103K50<br>CKSQYB103K50<br>CKSQYB104K25<br>CKSQYB104K25<br>CKSQYB473K50 |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|

|                       |              |
|-----------------------|--------------|
| C823–C826, C867, C869 | CKSQYB473K50 |
|-----------------------|--------------|

**RESISTORS**

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| R864<br>R859<br>Other Resistors | RD1/2VM201J<br>RD1/4VM471J<br>RS1/10S□□□J |
|---------------------------------|-------------------------------------------|

# VSX-908RDS, VSX-908RDS-G

| Mark          | No.          | Description         | Part No.   |
|---------------|--------------|---------------------|------------|
| <b>OTHERS</b> |              |                     |            |
|               | CN804        | 21P FFC CONNECTOR   | 52045-2145 |
|               | CN802, CN803 | 4P MINI DIN SOCKET  | AKP7020    |
|               | CN801        | 4P MINI DIN SOCKET  | AKP7043    |
|               | JA881, JA882 | REMOTE CONTROL JACK | RKN1004    |
|               | 801          | PCB BINDER          | VEF1040    |

## R H. PHONE/F. VIDEO ASSY

### SEMICONDUCTORS

|              |          |
|--------------|----------|
| Q7201, Q7202 | 2SC1740S |
|--------------|----------|

### CAPACITORS

|                            |              |
|----------------------------|--------------|
| C7201, C7202, C7215, C7216 | CCSQCH271J50 |
| C7203, C7204               | CCSQCH330J50 |
| C7208, C7209               | CEAT101M10   |
| C7207                      | CEAT470M35   |
| C7210, C7212               | CKSQYB103K50 |
| C7211                      | CKSQYB104K25 |
| C7213, C7214               | CKSQYB105K10 |
| C7217, C7218               | CKSQYB392K50 |

### RESISTORS

|               |             |
|---------------|-------------|
| All Resistors | RS1/10S□□□J |
|---------------|-------------|

### OTHERS

|        |                     |            |
|--------|---------------------|------------|
| CN7201 | 12P FFC CONNECTOR   | 52045-1245 |
| CN7202 | FRONT PIN JACK 4P   | AKX7007    |
| JA7201 | HEADPHONE JACK      | RKB1014    |
| KN7201 | EARTH METAL FITTING | VNF1084    |

## S DISPLAY ASSY

### SEMICONDUCTORS

|                          |                |
|--------------------------|----------------|
| IC7401                   | BU1923         |
| IC7001                   | PD5507B        |
| Q7051                    | 2SA1037K       |
| Q7401                    | 2SA1993        |
| Q7403                    | 2SC1740S       |
| Q7005                    | 2SC2412K       |
| Q7001, Q7002, Q7052      | DTC124EK       |
| Q7402                    | DTC143ES       |
| D7007-D7010, D7051-D7053 | 1SS355         |
| D7001, D7002             | SLR-343VR(MNP) |

### COILS AND FILTERS

|              |              |
|--------------|--------------|
| L7011, L7012 | LCTA330J3225 |
| L7001, L7401 | LFA2R2J      |

### SWITCHES AND RELAYS

|             |         |
|-------------|---------|
| S7001-S7030 | VSG1009 |
|-------------|---------|

### CAPACITORS

|                                  |              |
|----------------------------------|--------------|
| C7010 (0.047μF/5.5V)             | ACH7132      |
| C7007                            | CCSQCH101J50 |
| C7406, C7407                     | CCSQCH270J50 |
| C7008, C7013                     | CEAL101M6R3  |
| C7701, C7702                     | CEAT100M50   |
| C7405                            | CEAT101M10   |
| C7052, C7410                     | CEAT101M6R3  |
| C7409                            | CEAT1R0M50   |
| C7402                            | CEAT2R2M50   |
| C7001-C7005, C7091, C7403, C7404 | CKSQYB102K50 |

| Mark | No.   | Description | Part No.     |
|------|-------|-------------|--------------|
|      | C7051 |             | CKSQYB103K50 |
|      | C7401 |             | CKSQYB472K50 |
|      | C7009 |             | CKSQYB473K50 |
|      | C7408 |             | CKSQYB561K50 |

### RESISTORS

|                 |             |
|-----------------|-------------|
| R7044           | RA15T104J   |
| Other Resistors | RS1/10S□□□J |

### OTHERS

|            |                              |            |
|------------|------------------------------|------------|
| 7001       | 3P CABLE HOLDER              | 51052-0300 |
| 7002, 7003 | 8P CABLE HOLDER              | 51052-0800 |
| CN7005     | 5P FFC CONNECTOR             | 52045-0545 |
| CN7002     | 6P FFC CONNECTOR             | 52045-0645 |
| CN7004     | 12P FFC CONNECTOR            | 52045-1245 |
| CN7001     | 32P FFC CONNECTOR            | 52045-3245 |
| V7001      | FL TUBE                      | AAV7063    |
| X7401      | CRYSTAL RESONATOR (4.332MHz) | ASS7004    |
| X7001      | CERAMIC RESONATOR (7.2MHz)   | ASS7018    |
| 7004       | REMOTE RECEIVER UNIT         | GP1U28X    |

## T ROTARY ENCODER ASSY

### SWITCHES AND RELAYS

|       |         |
|-------|---------|
| S7101 | ASX7004 |
| S7102 | ASX7031 |

### CAPACITORS

|             |              |
|-------------|--------------|
| C7101-C7104 | CKSQYB103K50 |
|-------------|--------------|

### RESISTORS

|               |             |
|---------------|-------------|
| All Resistors | RS1/10S□□□J |
|---------------|-------------|

### OTHERS

|        |                  |            |
|--------|------------------|------------|
| CN7101 | 6P FFC CONNECTOR | 52044-0645 |
|--------|------------------|------------|

## U P-SW ASSY

### SWITCHES AND RELAYS

|       |         |
|-------|---------|
| S6801 | ASG1035 |
|-------|---------|

### CAPACITORS

|              |             |
|--------------|-------------|
| C6801, C6802 | CGCYX103K25 |
|--------------|-------------|

### OTHERS

|        |            |
|--------|------------|
| CN6801 | 52151-0310 |
|--------|------------|

## V PRIMARY ASSY

### (1) CONTRAST TABLE

AWX7345 and AWX7454 are constructed the same except for the following :

| Mark | Symbol and Description | Part No. |          | Remarks |
|------|------------------------|----------|----------|---------|
|      |                        | AWX7345  | AWX7454  |         |
|      | Y6003 BOARD IN         | ADX7321  | Not used |         |
|      | Y6004 BOARD IN         | ADX7320  | Not used |         |
|      | Y6005 BOARD IN         | ADX7319  | Not used |         |

| Mark                              | No.                        | Description          | Part No.     |
|-----------------------------------|----------------------------|----------------------|--------------|
| <b>(2) PARTS LIST FOR AWX7345</b> |                            |                      |              |
| <b>SEMICONDUCTORS</b>             |                            |                      |              |
|                                   | IC6001                     |                      | NJM78M56FA   |
|                                   | Q6001                      |                      | DTC143ES     |
|                                   | D6005–D6007                |                      | 1SS133       |
|                                   | D6008                      |                      | MTZJ5.1A     |
| △                                 | D6001–D6004                |                      | S5688G       |
| <b>COILS AND FILTERS</b>          |                            |                      |              |
| △                                 | L6001                      | LINE FILTER          | ATF1006      |
| △                                 | L6003, L6004               |                      | ATX1012      |
| <b>TRANSFORMERS</b>               |                            |                      |              |
| △                                 | T6001                      | STANDBY TRANS.       | ATT7040      |
| <b>SWITCHES AND RELAYS</b>        |                            |                      |              |
| △                                 | RY6001                     | POWER RELAY          | ASR1044      |
| <b>CAPACITORS</b>                 |                            |                      |              |
| △                                 | C6002, C6003               | (10000pF/AC250V)     | ACG7020      |
|                                   | C6005                      |                      | CEAT102M16   |
|                                   | C6006                      |                      | CEAT470M25   |
|                                   | C6004                      |                      | CKCYF103Z50  |
| <b>RESISTORS</b>                  |                            |                      |              |
|                                   | R6003                      |                      | RD1/2PM270J  |
|                                   | Other Resistors            |                      | RD1/4PU□□□J  |
| <b>OTHERS</b>                     |                            |                      |              |
|                                   | 6001                       | 3P CABLE HOLDER      | 51048-0300   |
|                                   | Y6005                      | AWG18 BOARD IN       | ADX7319      |
|                                   | Y6004                      | AWG18 BOARD IN       | ADX7320      |
|                                   | Y6003                      | AWG18 BOARD IN       | ADX7321      |
|                                   | H6001, H6002               | FUSE CLIP            | AKR1004      |
|                                   | J6000                      | 3P JUMPER WIRE       | D20PYY0335E  |
|                                   | CN6003                     | 4P SOCKET            | KP200TA4L    |
| △                                 | CN6002                     | AC CORD SOCKET       | RKP1751      |
|                                   | 6005, 6006                 | PCB BINDER           | VEF1040      |
|                                   | 6002, 6003                 | SCREW TERMINAL       | VNE1948      |
| <b>W DIGITAL-I/O ASSY</b>         |                            |                      |              |
| <b>SEMICONDUCTORS</b>             |                            |                      |              |
|                                   | IC1201                     |                      | TC74HCU04AF  |
| <b>COILS AND FILTERS</b>          |                            |                      |              |
|                                   | F1203–F1206                | CHIP BEAD            | DTF1064      |
| <b>CAPACITORS</b>                 |                            |                      |              |
|                                   | C1204, C1211               |                      | CCSQCH470J50 |
|                                   | C1206, C1213               |                      | CEAT470M10   |
|                                   | C1203, C1210               |                      | CKSQYB103K50 |
|                                   | C1207, C1212, C1215, C1216 |                      | CKSQYF104Z25 |
|                                   | C1236, C1237               |                      | CKSQYF104Z25 |
| <b>RESISTORS</b>                  |                            |                      |              |
|                                   | All Resistors              |                      | RS1/10S□□□J  |
| <b>OTHERS</b>                     |                            |                      |              |
|                                   | CN1201                     | 11P FFC CONNECTOR    | 52045-1145   |
|                                   | JA1204                     | 2P PIN JACK          | AKB7095      |
|                                   | JA1201, JA1202             |                      | GP1F37R1     |
|                                   |                            | OPTICAL RECEIVE MOD. |              |
|                                   | JA1203                     | OPTICAL LINK MOD.    | GP1F38T2     |

| Mark                      | No.                               | Description           | Part No.        |
|---------------------------|-----------------------------------|-----------------------|-----------------|
| <b>X RF TERMINAL ASSY</b> |                                   |                       |                 |
| <b>CAPACITORS</b>         |                                   |                       |                 |
|                           | C1251                             |                       | CKSQYB473K50    |
|                           | C1250                             |                       | CKSQYF473Z50    |
| <b>RESISTORS</b>          |                                   |                       |                 |
|                           | All Resistors                     |                       | RS1/10S□□□J     |
| <b>OTHERS</b>             |                                   |                       |                 |
|                           | CN1250                            | 3P PLUG               | KM250MA3        |
|                           | JA1250                            | 1P PIN JACK (AU, BLK) | VKB1074         |
|                           | 1250                              | SCREW TERMINAL        | VNE1948         |
| <b>Y DSP ASSY</b>         |                                   |                       |                 |
| <b>SEMICONDUCTORS</b>     |                                   |                       |                 |
|                           | IC9203                            |                       | CS5360-KS       |
|                           | IC9101                            |                       | CS8414-CS       |
|                           | IC9201, IC9202                    |                       | NJM2100M        |
|                           | IC9041                            |                       | NJM4558MD       |
|                           | IC9401, IC9411, IC9421            |                       | PCM1716E        |
|                           | IC9501                            |                       | PD5503A         |
|                           | IC9374                            |                       | PDK042A         |
|                           | IC9071                            |                       | PM4007A         |
|                           | IC9391                            |                       | PQ20WZ51        |
|                           | IC9091                            |                       | SRM2B256SLMX70  |
|                           | IC9372                            |                       | TC55V1664BFT-12 |
|                           | IC9371                            |                       | TC55V8128BJ-12  |
|                           | IC9151                            |                       | TC74ACT151F     |
|                           | IC9102                            |                       | TC74VHC157FT    |
|                           | IC9103                            |                       | TC7SH08FU       |
|                           | IC9311                            |                       | TC7WT241FU      |
|                           | IC9204, IC9361                    |                       | TC7WU04FU       |
|                           | IC9601                            |                       | TC9164AF        |
|                           | IC9602–IC9604, IC9701–IC9705      |                       | UPC4570G2       |
|                           | IC9321                            |                       | XCD56362PV100   |
|                           | Q9007                             |                       | 2PB709A         |
|                           | Q9003, Q9032                      |                       | 2PD601A         |
|                           | Q9001, Q9002, Q9004–Q9006, Q9031  |                       | 2SC3082K        |
|                           | Q9201, Q9202, Q9601–Q9606         |                       | 2SC3326         |
|                           | Q9102, Q9104, Q9203, Q9607        |                       | DTA124EK        |
|                           | Q9609, Q9610                      |                       | DTA124EK        |
|                           | Q9101, Q9103, Q9204, Q9205, Q9608 |                       | DTC124EK        |
|                           | D9601, D9602                      |                       | 1SS181          |
|                           | D9201–D9204                       |                       | 1SS226          |
|                           | D9002                             |                       | 1SS355          |
|                           | D9001                             |                       | KV1851          |
| <b>COILS AND FILTERS</b>  |                                   |                       |                 |
|                           | F9001                             | BPF                   | ATF7001         |
|                           | L9003                             | INDUCTOR              | ATH7001         |
|                           | L9071, L9104, L9321, L9323, L9391 |                       | ATL7002         |
|                           | L9399, L9402–L9408, L9501, L9801  |                       | ATL7002         |
|                           | L9807, L9809                      |                       | ATL7002         |
|                           |                                   | CHIP FERRITE BEAD     |                 |
|                           | F9072                             | CHIP BEAD             | DTF1064         |
|                           | L9091, L9092, L9101, L9102        |                       | QTL1013         |
|                           | L9105–L9108, L9151, L9152         |                       | QTL1013         |
|                           | L9203–L9206, L9311, L9361         |                       | QTL1013         |
|                           | L9371, L9372, L9374, L9396–L9398  |                       | QTL1013         |
|                           |                                   | CHIP SOLID INDUCTOR   |                 |

# VSX-908RDS, VSX-908RDS-G

| Mark              | No.                               | Description  | Part No. |
|-------------------|-----------------------------------|--------------|----------|
| <b>CAPACITORS</b> |                                   |              |          |
|                   | C9329, C9349, C9355, C9357, C9358 | CCSQCH101J50 |          |
|                   | C9378, C9386                      | CCSQCH101J50 |          |
|                   | C9232, C9453–C9455, C9742, C9809  | CCSQCH221J50 |          |
|                   | C9815, C9816                      | CCSQCH221J50 |          |
|                   | C9112, C9512                      | CCSQCH271J50 |          |
|                   | C9224, C9225                      | CCSQCH330J50 |          |
|                   | C9033, C9325, C9326, C9335, C9337 | CCSRCH101J50 |          |
|                   | C9339, C9341, C9345, C9347, C9374 | CCSRCH101J50 |          |
|                   | C9387, C9609, C9610, C9721, C9722 | CCSRCH101J50 |          |
|                   | C9735                             | CCSRCH101J50 |          |
|                   | C9364                             | CCSRCH180J50 |          |
|                   | C9363                             | CCSRCH220J50 |          |
|                   | C9095, C9231, C9233, C9621, C9622 | CCSRCH221J50 |          |
|                   | C9743, C9744, C9761–C9766         | CCSRCH221J50 |          |
|                   | C9057, C9201, C9202               | CCSRCH270J50 |          |
|                   | C9076, C9104, C9106, C9154, C9214 | CCSRCH271J50 |          |
|                   | C9220, C9362, C9402, C9412, C9422 | CCSRCH271J50 |          |
|                   | C9629                             | CCSRCH271J50 |          |
|                   | C9719, C9720, C9733               | CCSRCH331J50 |          |
|                   | C9741                             | CCSRCH470J50 |          |
|                   | C9451, C9452, C9509, C9617, C9618 | CCSRCH471J50 |          |
|                   | C9639                             | CCSRCH471J50 |          |
|                   | C9211, C9717, C9718, C9731, C9808 | CCSRCH561J25 |          |
|                   | C9007                             | CCSRCH750J50 |          |
|                   | C9707, C9708                      | CCSRCH820J50 |          |
|                   | C9611, C9612                      | CCSRCH821J25 |          |
|                   | C9312, C9643, C9644, C9756        | CEJA100M25   |          |
|                   | C9071, C9393, C9501, C9740, C9801 | CEJA101M10   |          |
|                   | C9442                             | CEJA221M10   |          |
|                   | C9343, C9360                      | CEJA221M6R3  |          |
|                   | C9216, C9219, C9222, C9403, C9405 | CEJA330M10   |          |
|                   | C9408, C9413, C9415, C9418, C9423 | CEJA330M10   |          |
|                   | C9425, C9428                      | CEJA330M10   |          |
|                   | C9091, C9102, C9108, C9114, C9151 | CEJA470M16   |          |
|                   | C9372, C9376, C9383               | CEJA470M16   |          |
|                   | C9016, C9803, C9805               | CEJA470M25   |          |
|                   | C9406, C9409, C9416, C9419, C9426 | CEJA470M6R3  |          |
|                   | C9429                             | CEJA470M6R3  |          |
|                   | C9206, C9207, C9391               | CEJA4R7M50   |          |
|                   | C9053                             | CEJANP4R7M25 |          |
|                   | C9110                             | CEJAR47M50   |          |
|                   | C9713, C9714, C9727, C9728, C9739 | CEWAR330M10  |          |
|                   | C9751–C9755                       | CEWAR330M10  |          |
|                   | C9203, C9204, C9603, C9604        | CEWAR4R7M50  |          |
|                   | C9615, C9616, C9627, C9628        | CEWAR4R7M50  |          |
|                   | C9113, C9322, C9323, C9332, C9334 | CKSQYB103K50 |          |
|                   | C9342, C9344, C9350–C9354, C9377  | CKSQYB103K50 |          |
|                   | C9385, C9636                      | CKSQYB103K50 |          |
|                   | C9330                             | CKSQYB474K16 |          |
|                   | C9073, C9080, C9205, C9208, C9511 | CKSQYF104Z25 |          |
|                   | C9212, C9554                      | CKSRYB102K50 |          |
|                   | C9014, C9054, C9056, C9070, C9103 | CKSRYB103K50 |          |
|                   | C9105, C9107, C9119, C9153, C9158 | CKSRYB103K50 |          |
|                   | C9221, C9313, C9324, C9327, C9333 | CKSRYB103K50 |          |
|                   | C9336, C9338, C9340, C9346, C9348 | CKSRYB103K50 |          |
|                   | C9361, C9373, C9388, C9401, C9411 | CKSRYB103K50 |          |
|                   | C9421, C9637                      | CKSRYB103K50 |          |
|                   | C9626, C9730                      | CKSRYB104K16 |          |
|                   | C9605, C9606, C9633               | CKSRYB122K50 |          |
|                   | C9703, C9704, C9715, C9716, C9729 | CKSRYB182K50 |          |

| Mark | No.                               | Description  | Part No. |
|------|-----------------------------------|--------------|----------|
|      | C9601, C9602, C9613, C9614, C9625 | CKSRYB222K50 |          |
|      | C9701, C9702                      | CKSRYB272K50 |          |
|      | C9732                             | CKSRYB333K16 |          |
|      | C9645                             | CKSRYB472K50 |          |
|      | C9215, C9218, C9404, C9407, C9410 | CKSRYB473K16 |          |
|      | C9414, C9417, C9420, C9424, C9427 | CKSRYB473K16 |          |
|      | C9430                             | CKSRYB473K16 |          |
|      | C9359                             | CKSRYB562K50 |          |
|      | C9111                             | CKSRYB682K50 |          |
|      | C9020                             | CKSRYB683K16 |          |
|      | C9736                             | CKSRYB821K50 |          |
|      | C9002–C9006, C9008–C9013, C9015   | CKSRYF104Z16 |          |
|      | C9017, C9018, C9031, C9032, C9043 | CKSRYF104Z16 |          |
|      | C9051, C9052, C9055, C9058        | CKSRYF104Z16 |          |
|      | C9074, C9075, C9077–C9079, C9081  | CKSRYF104Z16 |          |
|      | C9092, C9209, C9210, C9607, C9608 | CKSRYF104Z16 |          |
|      | C9619, C9620, C9631, C9632        | CKSRYF104Z16 |          |
|      | C9709–C9712, C9723–C9726          | CKSRYF104Z16 |          |
|      | C9737, C9738                      | CKSRYF104Z16 |          |
|      | C9041, C9042                      | CKSRYF105Z10 |          |

## RESISTORS

|                                  |              |
|----------------------------------|--------------|
| R9158, R9351, R9376–R9379, R9394 | RS1/10S0R0J  |
| R9401, R9411, R9421, R9452–R9454 | RS1/10S0R0J  |
| R9104                            | RS1/10S101J  |
| R9114, R9239, R9504, R9505       | RS1/10S102J  |
| R9214                            | RS1/10S103J  |
| R9393                            | RS1/10S2001F |
| R9074, R9128                     | RS1/10S221J  |
| R9120                            | RS1/10S331J  |
| R9061                            | RS1/10S471J  |
| R9360                            | RS1/10S472J  |
| R9391                            | RS1/10S5100F |
| Other Resistors                  | RS1/16S□□□J  |

## OTHERS

|        |                               |            |
|--------|-------------------------------|------------|
| CN9551 | 7P FFC CONNECTOR              | 52045-0745 |
| CN9803 | 11P FFC CONNECTOR             | 52045-1145 |
|        | PC BOARD DSP                  | ANP7311    |
| CN9804 | 3P PLUG                       | KM250MA3   |
| CN9801 | 17P SOCKET                    | KP200TA17L |
| CN9802 | 9P SOCKET                     | KP200TA9L  |
| X9501  | CERAMIC RESONATOR (7.70MHz)   | ASS1055    |
| X9001  | CRYSTAL RESONATOR (18.432MHz) | ASS7009    |
| X9361  | CRYSTAL RESONATOR (20MHz)     | ASS7023    |
| X9201  | CRYSTAL RESONATOR (12.288MHz) | DSS1030    |

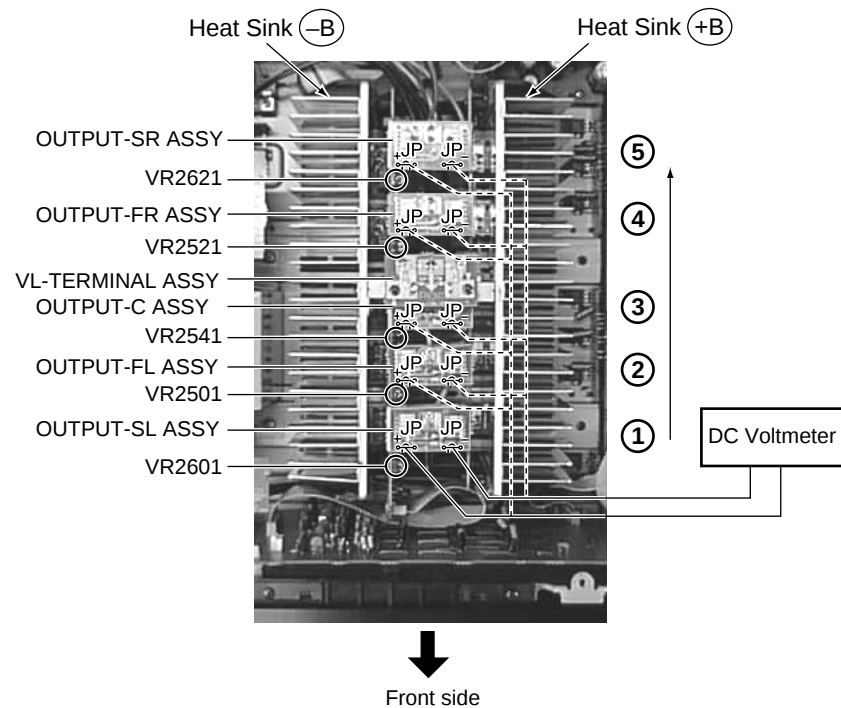
## 6. ADJUSTMENT

### 6.1 IDLE CURRENT ADJUSTMENT

- **CAUTION** : Heatsink's DC level is equal to +B or -B.  
Don't touch them or you will be electricary shocked.

1. Decrease the level of the Adjustment Variable resistors (VR) for the channel to be adjusted. ( Turn counterclockwise.)
2. Set the power switch to ON.
3. Connect the DC voltmeter as shown below and adjust VRs in step No. order so that voltages become  $16\text{mV}^{+4\text{mV}}_{-0\text{mV}}$ .
4. Ages for seven minutes.
5. Readjust in step No. order so that the voltages become  $11.5\text{mV} \pm 1\text{mV}$  (10.5 to 12.5mV). Adjustment is completed.

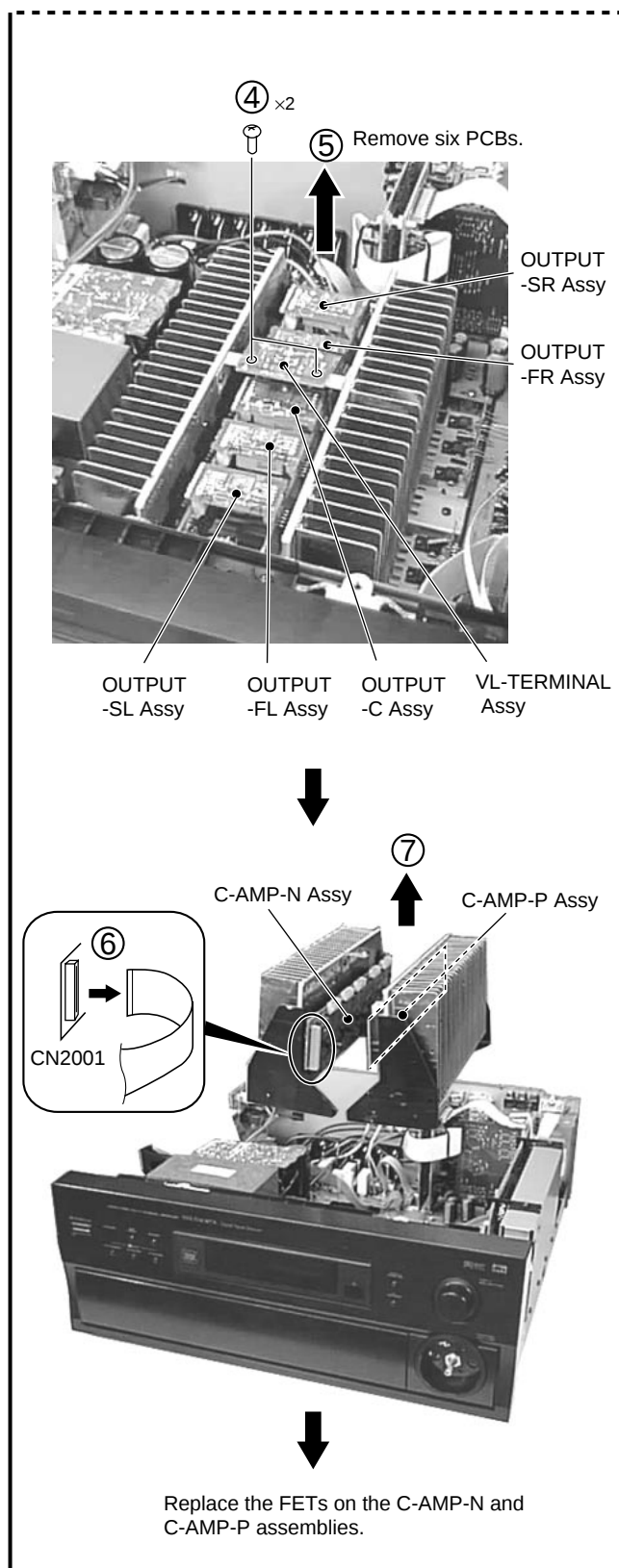
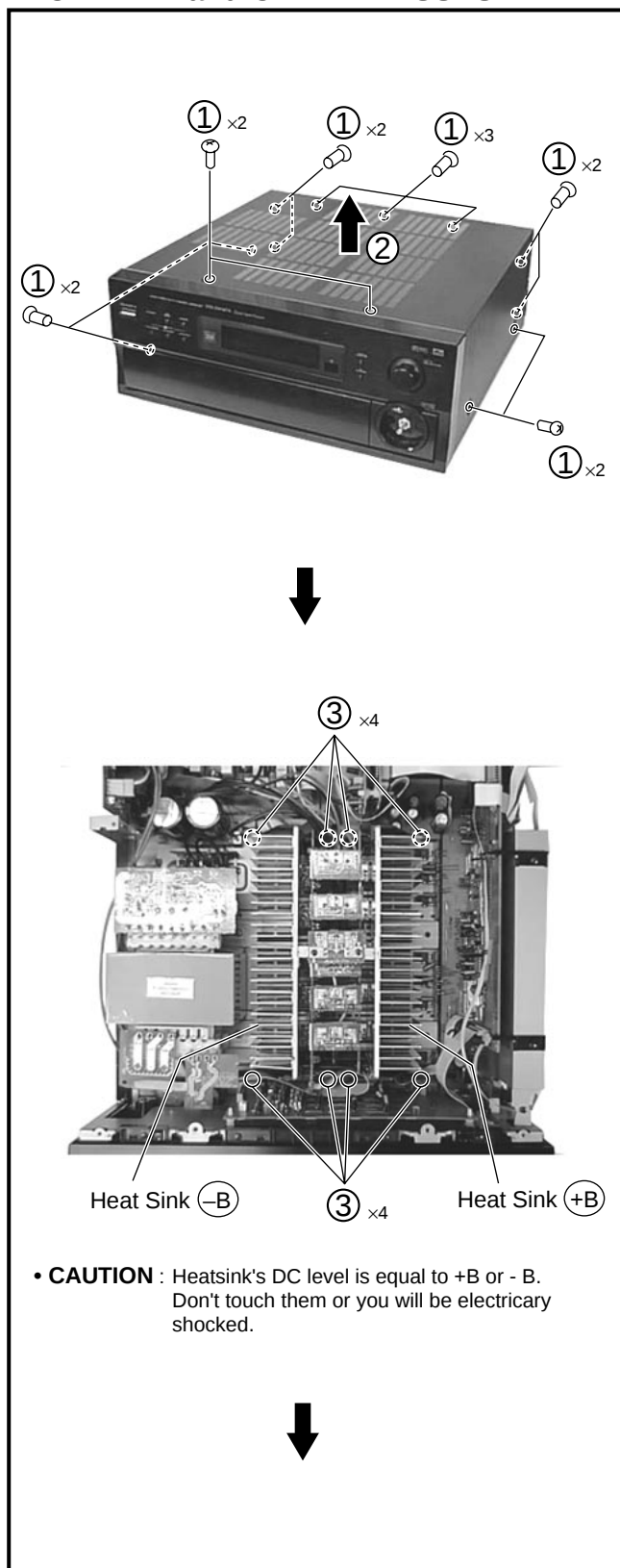
| Step No. | Adjustment VR | Adjustment ch |
|----------|---------------|---------------|
| 1        | VR2601        | SL ch         |
| 2        | VR2501        | FL ch         |
| 3        | VR2541        | C ch          |
| 4        | VR2521        | FR ch         |
| 5        | VR2621        | SR ch         |



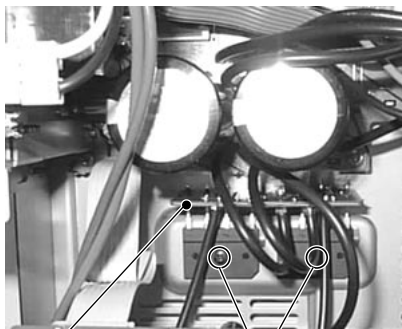
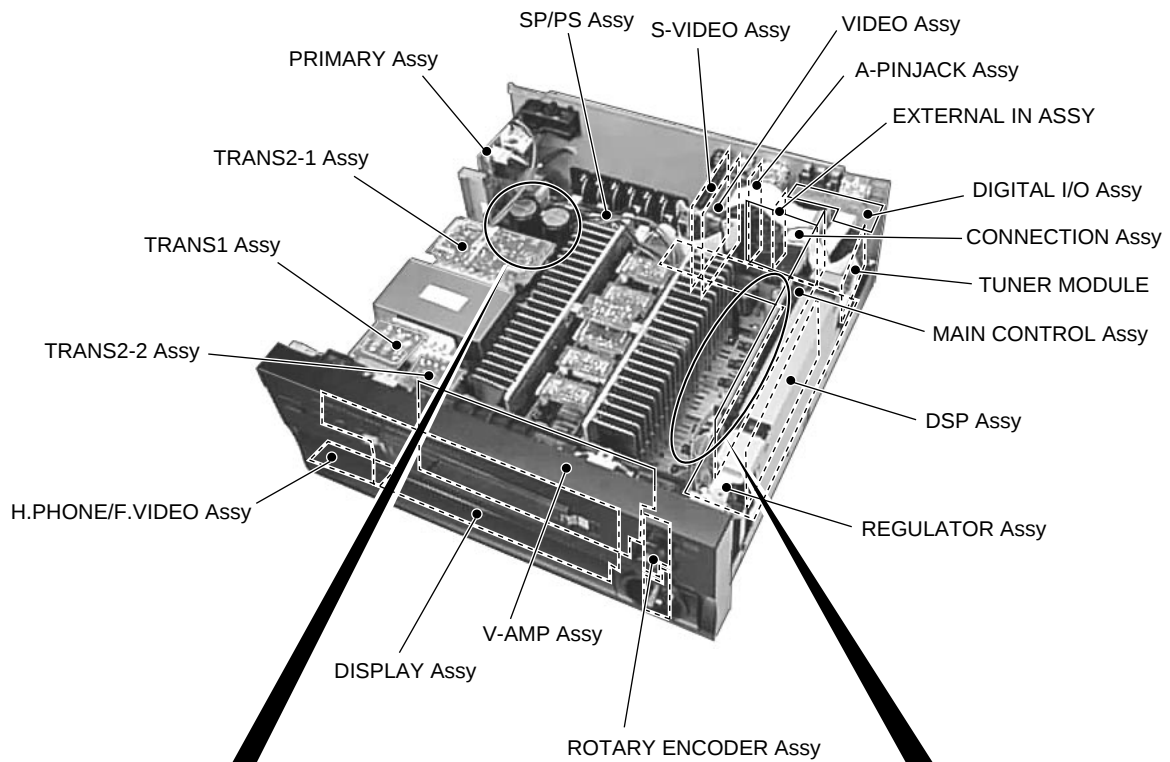
## 7. GENERAL INFORMATION

### 7.1 DISASSEMBLY

#### ■ C-AMP-N and C-AMP-P ASSYS



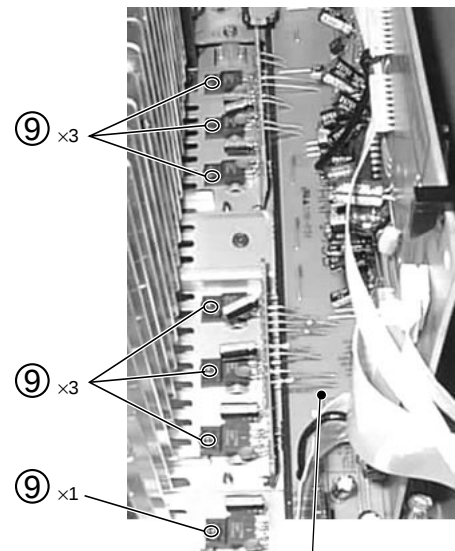
## ■ DIODE, REGULATOR and Other ASSYS



DIODE Assy

⑧ x2

Replace the diode.



REGULATOR Assy

Replace the Regulator IC.

7.2 PARTS

7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

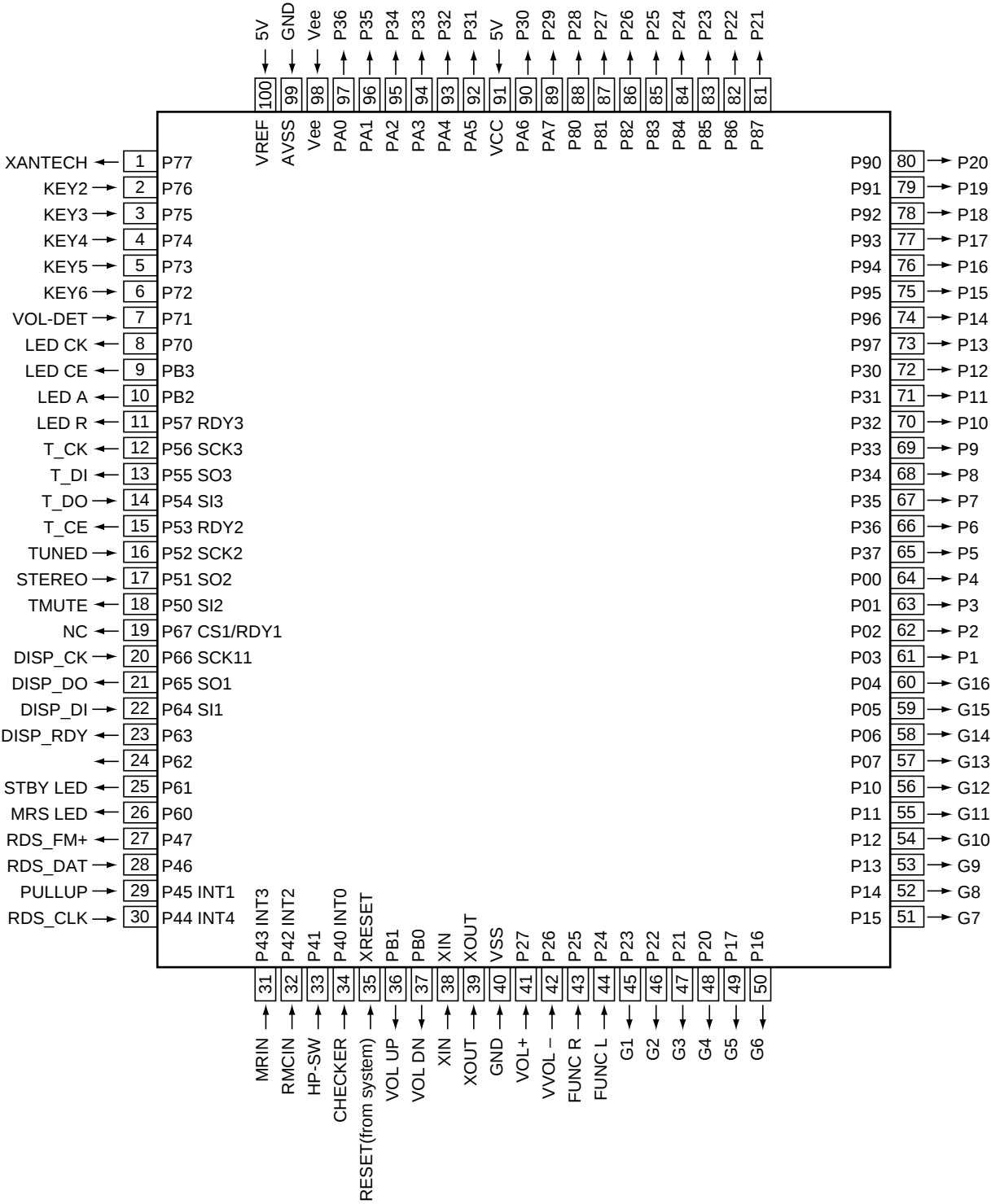
●List of IC

PD5507B, PD5506A

■ PD5507B (DISPLAY ASSY : IC7001)

• Display Control IC

● Pin Assignment (Top View)



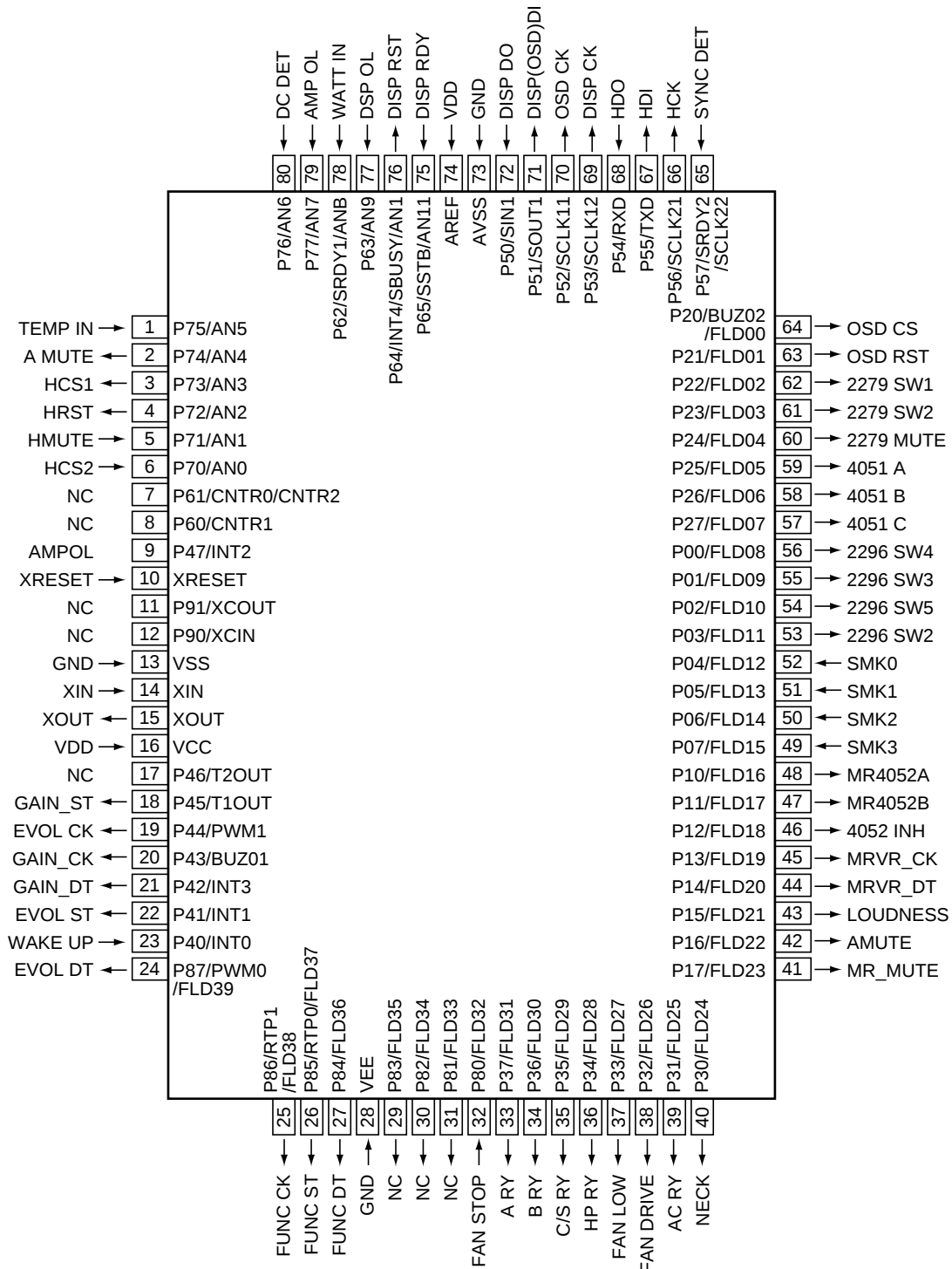
## ● Pin Function

| No. | Pin Name | I/O | Function                                       | No. | Pin Name | I/O | Function             |
|-----|----------|-----|------------------------------------------------|-----|----------|-----|----------------------|
| 1   | XANTECH  | O   | XANTECH ON/OFF                                 | 51  | G7       | O   | Grid output 7        |
| 2   | KEY 2    | I   | Key scan input 2                               | 52  | G8       | O   | Grid output 8        |
| 3   | KEY 3    | I   | Key scan input 3                               | 53  | G9       | O   | Grid output 9        |
| 4   | KEY 4    | I   | Key scan input 4                               | 54  | G10      | O   | Grid output 10       |
| 5   | KEY 5    | I   | Key scan input 5                               | 55  | G11      | O   | Grid output 11       |
| 6   | KEY 6    | I   | Key scan input 6                               | 56  | G12      | O   | Grid output 12       |
| 7   | VOL-DET  | I   | Detection of volume position                   | 57  | G13      | O   | Grid output 13       |
| 8   | LED CKL  | O   | Clock for IC7071 M66311                        | 58  | G14      | O   | Grid output 14       |
| 9   | LED OE   | O   | Output enable for IC7071 M66311                | 59  | G15      | O   | Grid output 15       |
| 10  | LED A    | O   | Data for IC7071 M66311                         | 60  | G16      | O   | Grid output 16       |
| 11  | LED R    | O   | Reset for IC7071 M66311                        | 61  | S1       | O   | Segment output 1     |
| 12  | T-CK     | O   | Clock for tuner module                         | 62  | S2       | O   | Segment output 2     |
| 13  | T-DI     | O   | Data for tuner module                          | 63  | S3       | O   | Segment output 3     |
| 14  | T-DO     | I   | Data from tuner module                         | 64  | S4       | O   | Segment output 4     |
| 15  | T-CE     | O   | Chip enable for tuner module                   | 65  | S5       | O   | Segment output 5     |
| 16  | TUNED    | I   | Tuned data from tuner module                   | 66  | S6       | O   | Segment output 6     |
| 17  | STEREO   | I   | Stereo tuned data from tuner module            | 67  | S7       | O   | Segment output 7     |
| 18  | T-MUTE   | O   | Tuner mute ON/OFF                              | 68  | S8       | O   | Segment output 8     |
| 19  | NC       | O   | Open                                           | 69  | S9       | O   | Segment output 9     |
| 20  | DISP CK  | I   | Clock from IC901 MAIN U-COM                    | 70  | S10      | O   | Segment output 10    |
| 21  | DISP DO  | O   | Data for IC901 MAIN U-COM                      | 71  | S11      | O   | Segment output 11    |
| 22  | DISP DI  | I   | Data from IC901 MAIN U-COM                     | 72  | S12      | O   | Segment output 12    |
| 23  | DISP RDY | O   | Data request for IC901 MAIN U-COM              | 73  | S13      | O   | Segment output 13    |
| 24  | NC       | –   | Open                                           | 74  | S14      | O   | Segment output 14    |
| 25  | STBY LED | O   | Standby LED                                    | 75  | S15      | O   | Segment output 15    |
| 26  | MRS LED  | O   | Sub room LED (MR&S model), EON LED (RDS model) | 76  | S16      | O   | Segment output 16    |
| 27  | RDS FM+  | –   | VDD for IC7401 BU1923 (RDS model only)         | 77  | S17      | O   | Segment output 17    |
| 28  | RDS DAT  | O   | Data for IC7401 BU1923 (RDS model only)        | 78  | S18      | O   | Segment output 18    |
| 29  | NC       | I   | (pull-up)                                      | 79  | S19      | O   | Segment output 19    |
| 30  | RDS CLK  | I   | Clock for IC7401 BU1923 (RDS model only)       | 80  | S20      | O   | Segment output 20    |
| 31  | MR IN    | I   | Sub room remote control (MR&S, MR model only)  | 81  | S21      | O   | Segment output 21    |
| 32  | RMC IN   | I   | Remote control                                 | 82  | S22      | O   | Segment output 22    |
| 33  | HP-SW    | I   | Headphone connect detect                       | 83  | S23      | O   | Segment output 23    |
| 34  | NC       | I   | For unit check test mode detection             | 84  | S24      | O   | Segment output 24    |
| 35  | RESET    | I   | Reset                                          | 85  | S25      | O   | Segment output 25    |
| 36  | VOL/UP   | O   | Control for VOIL UP                            | 86  | S26      | O   | Segment output 26    |
| 37  | VOL/DN   | O   | Control for VOL DOWN                           | 87  | S27      | O   | Segment output 27    |
| 38  | XIN      | –   | Connect a 7.2MHz oscillator                    | 88  | S28      | O   | Segment output 28    |
| 39  | XOUT     | –   |                                                | 89  | S29      | O   | Segment output 29    |
| 40  | VSS      | –   | GND                                            | 90  | S30      | O   | Segment output 30    |
| 41  | VOL+     | I   | Rotary encoder signal +                        | 91  | VCC      | –   | Power supply +5V     |
| 42  | VOL-     | I   | Rotary encoder signal -                        | 92  | S31      | O   | Segment output 31    |
| 43  | FUNC/R   | I   | Rotary encoder signal R                        | 93  | S32      | O   | Segment output 32    |
| 44  | FUNC/L   | I   | Rotary encoder signal L                        | 94  | S33      | O   | Segment output 33    |
| 45  | G1       | O   | Grid output 1                                  | 95  | S34      | O   | Segment output 34    |
| 46  | G2       | O   | Grid output 2                                  | 96  | S35      | O   | Segment output 35    |
| 47  | G3       | O   | Grid output 3                                  | 97  | S36      | O   | Segment output 36    |
| 48  | G4       | O   | Grid output 4                                  | 98  | VEE      | –   | Power supply 5V      |
| 49  | G5       | O   | Grid output 5                                  | 99  | AVSS     | –   | GND                  |
| 50  | G6       | O   | Grid output 6                                  | 100 | VREF     | –   | Reference voltage 5V |

## PD5506A (MAIN CONTROL ASSY : IC901)

• Main Control IC

### • Pin Assignment (Top View)



## ● Pin Function

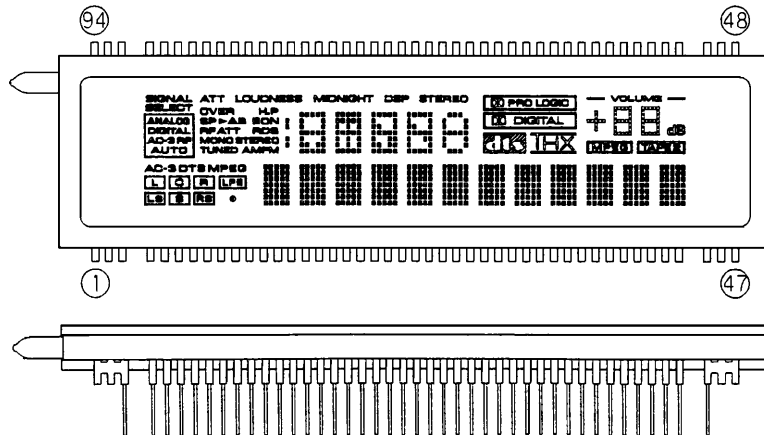
| No. | Pin Name  | I/O | Function                                              | No. | Pin Name | I/O | Function                                                 |
|-----|-----------|-----|-------------------------------------------------------|-----|----------|-----|----------------------------------------------------------|
| 1   | TEMP IN   | I/O | O/open (KU,J,SD), I/Fan temperature A/D input (other) | 41  | MR MUTE  | O   | Audio mute ON/OFF for sub room (MR&S, MR model only)     |
| 2   | A MUTE    | O   | Audio mute ON/OFF                                     | 42  | A MUTE2  | O   | Audio preout mute ON/OFF                                 |
| 3   | DSP CS1   | O   | Chip select for IC9501 DSP U-COM                      | 43  | LOUD     | O   | Loudness ON/OFF                                          |
| 4   | DSP RST   | O   | Reset for IC9501 DSP U-COM                            | 44  | MR-V DT  | O   | Data for IC110 M62429FP control (MR&S model only)        |
| 5   | DSP MUTE  | I   | Mute request from IC9501 DSP U-COM                    | 45  | MR-V CK  | O   | Clock for IC110 M62429FP control (MR&S model only)       |
| 6   | DSP CS2   | I   | Chip select from IC9501 DSP U-COM                     | 46  | 4052 INH | O   | Inhibit for IC102 BU4052BCF control (MR&S model only)    |
| 7   | NC        | O   | Open                                                  | 47  | 4052 B   | O   | Control for IC102 BU4052BCF (MR&S model only)            |
| 8   | NC        | O   | Open                                                  | 48  | 4052 A   |     |                                                          |
| 9   | AMPOL     | I   | Amp Overload detect                                   | 49  | SIMUKE 3 | I   | SIMUKE (pull-up or down)                                 |
| 10  | RESET     | I   | Reset                                                 | 50  | SIMUKE 2 |     |                                                          |
| 11  | NC        | O   | Open                                                  | 51  | SIMUKE 1 |     |                                                          |
| 12  | NC        | O   | Open                                                  | 52  | SIMUKE 0 |     |                                                          |
| 13  | GND       | –   | GND                                                   | 53  | 2296-2   | O   | Control for IC701, 801, 802 NJM2296M                     |
| 14  | XIN       | I   | Connect a 4.19MHz oscillator                          | 54  | 2296-5   |     |                                                          |
| 15  | XOUT      | O   |                                                       | 55  | 2296-3   |     |                                                          |
| 16  | VDD       | –   | Power supply +5V                                      | 56  | 2296-4   |     |                                                          |
| 17  | NC        | O   | Open                                                  | 57  | 4051-C   | O   | Control for IC831 BU4051BCF                              |
| 18  | ST3       | O   | Strobe for IC107 TC9163F control                      | 58  | 4051-B   |     |                                                          |
| 19  | CK2       | O   | Clock for IC108 TC9482N control                       | 59  | 4051-A   |     |                                                          |
| 20  | CK3       | O   | Clock for IC107 TC9163F control                       | 60  | 2279-M   | O   | Control for IC731 NJM2279M (MR&S model only)             |
| 21  | DT3       | O   | Data for IC107 TC9163F control                        | 61  | 2279-2   |     |                                                          |
| 22  | ST2       | O   | Strobe for IC108 TC9482N control                      | 62  | 2279-1   |     |                                                          |
| 23  | W.UP      | I   | AC pulse input                                        | 63  | OSD RST  | O   | Reset for IC752 LC74782M-9011                            |
| 24  | DT2       | O   | Data for IC108 TC9482N control                        | 64  | OSD CS   | O   | Chip select for IC752 LC74782M-9011                      |
| 25  | CK1       | O   | Clock for IC101 TC9274N and IC104 TC9163F control     | 65  | SYNC DET | I   | Detection of synchronizing signal                        |
| 26  | ST1       | O   | Strobe for IC101 TC9274N and IC104 TC9163F control    | 66  | DSP HCK  | O   | Clock for IC9501 DSP U-COM                               |
| 27  | DT1       | O   | Data for IC101 TC9274N and IC104 TC9163F control      | 67  | DSP HDI  | O   | Data for IC9501 DSP U-COM                                |
| 28  | GND       | –   | GND                                                   | 68  | DSP HDO  | I   | Data from IC9501 DSP U-COM                               |
| 29  | NC        | O   | Open                                                  | 69  | DISP CK  | O   | Clock for IC7001 DISP U-COM                              |
| 30  | NC        | O   | Open                                                  | 70  | OSD CK   | O   | Clock for IC752 LC74782M-9011                            |
| 31  | NC        | O   | Open                                                  | 71  | DISP DI  | O   | Data for IC7001 DISP U-COM                               |
| 32  | FAN STOP  | I/O | O/Open (KU,J,SD), I/Fan stop detector (other)         | 72  | DISP DO  | I   | Data from IC7001 DISP U-COM                              |
| 33  | A RY      | O   | SP A relay ON/OFF                                     | 73  | GND      | –   | GND                                                      |
| 34  | B RY      | O   | SP B relay ON/OFF                                     | 74  | VDD      | –   | Power supply +5V                                         |
| 35  | C/S RY    | O   | SP C/S relay ON/OFF                                   | 75  | DISP RDY | I   | Data request from IC7001 DISP U-COM                      |
| 36  | HP RY     | O   | Headphone relay ON/OFF                                | 76  | DISP RST | O   | Reset for IC7001 DISP U-COM                              |
| 37  | FAN LOW   | O   | Open (KU,J,SD), Fan low (other)                       | 77  | DSP OL   | I   | DSP overload detect, A/D input                           |
| 38  | FAN DRIVE | O   | Open (KU,J,SD), Fan drive (other)                     | 78  | WATT IN  | I/O | O/Open (KU,J,SD), I/Fan wattage input, A/D input (other) |
| 39  | AC RY     | O   | AC relay ON/OFF                                       | 79  | AMP OL   | I   | Amp overload detect, A/D input                           |
| 40  | NECK      | O   | Neck ON/OFF (24,26,908,938 only)                      | 80  | DC DET   | I   | Detection of amp power error, A/D input                  |

## 7.2.2 DISPLAY

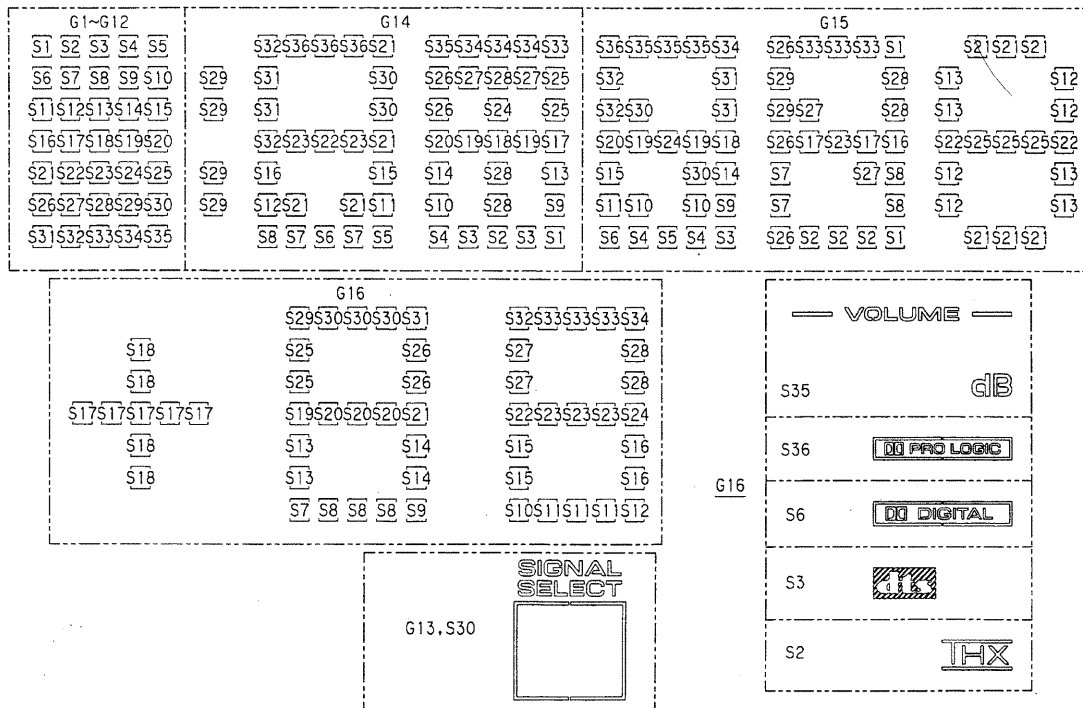
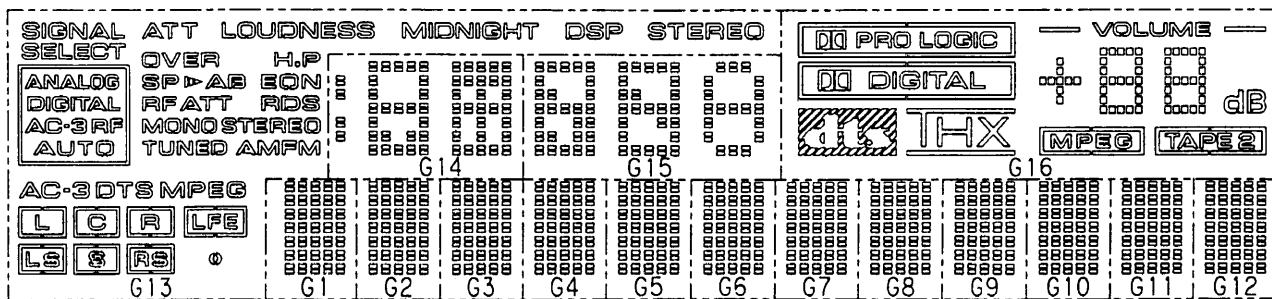
### ■ AAV7063 (DISPLAY ASSY :V7001)

- FL Indicator Tube

#### • Pin Assignment



#### • Grid Assignment



● Anode and Grid Connection

|     | G1~G12 | G13    | G14 | G15 | G16   |     | G1~G12 | G13           | G14 | G15 | G16 |     | G1~G12 | G13             | G14 | G15 | G16 |
|-----|--------|--------|-----|-----|-------|-----|--------|---------------|-----|-----|-----|-----|--------|-----------------|-----|-----|-----|
| S1  | S1     |        | S1  | S1  |       | S13 | S13    | DTS           | S13 | S13 | S13 | S25 | S25    | H.P             | S25 | S25 | S25 |
| S2  | S2     | FM     | S2  | S2  | S2    | S14 | S14    | AC-3<br>(DTS) | S14 | S14 | S14 | S26 | S26    | AUTO            | S26 | S26 | S26 |
| S3  | S3     | AM     | S3  | S3  | S3    | S15 | S15    | RFATT         | S15 | S15 | S15 | S27 | S27    | AC-3RF          | S27 | S27 | S27 |
| S4  | S4     | MPEG   | S4  | S4  | TAPE2 | S16 | S16    | EON           | S16 | S16 | S16 | S28 | S28    | DIGITAL         | S28 | S28 | S28 |
| S5  | S5     | LFE    | S5  | S5  | MPEG  | S17 | S17    | (D)A(B)       | S17 | S17 | S17 | S29 | S29    | ANALOG          | S29 | S29 | S29 |
| S6  | S6     | STEREO | S6  | S6  | S6    | S18 | S18    | (D)A(B)       | S18 | S18 | S18 | S30 | S30    | S30             | S30 | S30 | S30 |
| S7  | S7     | TUNED  | S7  | S7  | S7    | S19 | S19    | (D)           | S19 | S19 | S19 | S31 | S31    | ATT             | S31 | S31 | S31 |
| S8  | S8     | MONO   | S8  | S8  | S8    | S20 | S20    | LS            | S20 | S20 | S20 | S32 | S32    | LOUDNESS        | S32 | S32 | S32 |
| S9  | S9     | R      | S9  | S9  | S9    | S21 | S21    | S             | S21 | S21 | S21 | S33 | S33    | MIDNIGHT        | S33 | S33 | S33 |
| S10 | S10    | C      | S10 | S10 | S10   | S22 | S22    | RS            | S22 | S22 | S22 | S34 | S34    | DSP             | S34 | S34 | S34 |
| S11 | S11    | L      | S11 | S11 | S11   | S23 | S23    | SPD           | S23 | S23 | S23 | S35 | S35    | (DSP)<br>STEREO | S35 | S35 | S35 |
| S12 | S12    | RDS    | S12 | S12 | S12   | S24 | S24    | OVER          | S24 | S24 | S24 | S36 |        |                 | S36 | S36 | S36 |

| Pin No.    | 1  | 2  | 3  | 4  | 5 | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|------------|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Assignment | NL | NL | F1 | NP | D | IC | NL | NL | NL | NL | NL | NL | NL | NL | NL | NL | NL | NL | NL | NL | NL | NL | NL | NL |

| Pin No.    | 25 | 26 | 27  | 28  | 29  | 30  | 31  | 32  | 33  | 34  | 35 | 36 | 37 | 38  | 39  | 40  | 41  | 42  | 43 | 44 | 45 | 46 | 47 |
|------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|----|----|----|----|----|
| Assignment | NL | NL | S36 | S35 | S34 | S33 | S32 | S31 | S30 | S29 | NL | NL | NL | S28 | S27 | S26 | S25 | S24 | H  | NP | F2 | NL | NL |

| Pin No.    | 48 | 49 | 50 | 51 | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  | 61  | 62  | 63  | 64  | 65  | 66 | 67 | 68 | 69 | 70 | 71 |
|------------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|
| Assignment | NL | NL | NL | NP | S23 | S22 | S21 | S20 | S19 | S18 | S17 | S16 | S15 | S14 | S13 | S12 | S11 | S10 | S9 | S8 | S7 | S6 | S5 | S4 |

| Pin No.    | 72 | 73 | 74 | 75  | 76  | 77  | 78  | 79  | 80  | 81  | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Assignment | S3 | S2 | S1 | G16 | G15 | G14 | G13 | G12 | G11 | G10 | G9 | G8 | G7 | G6 | G5 | G4 | G3 | G2 | G1 | NP | NL | NL | NL |

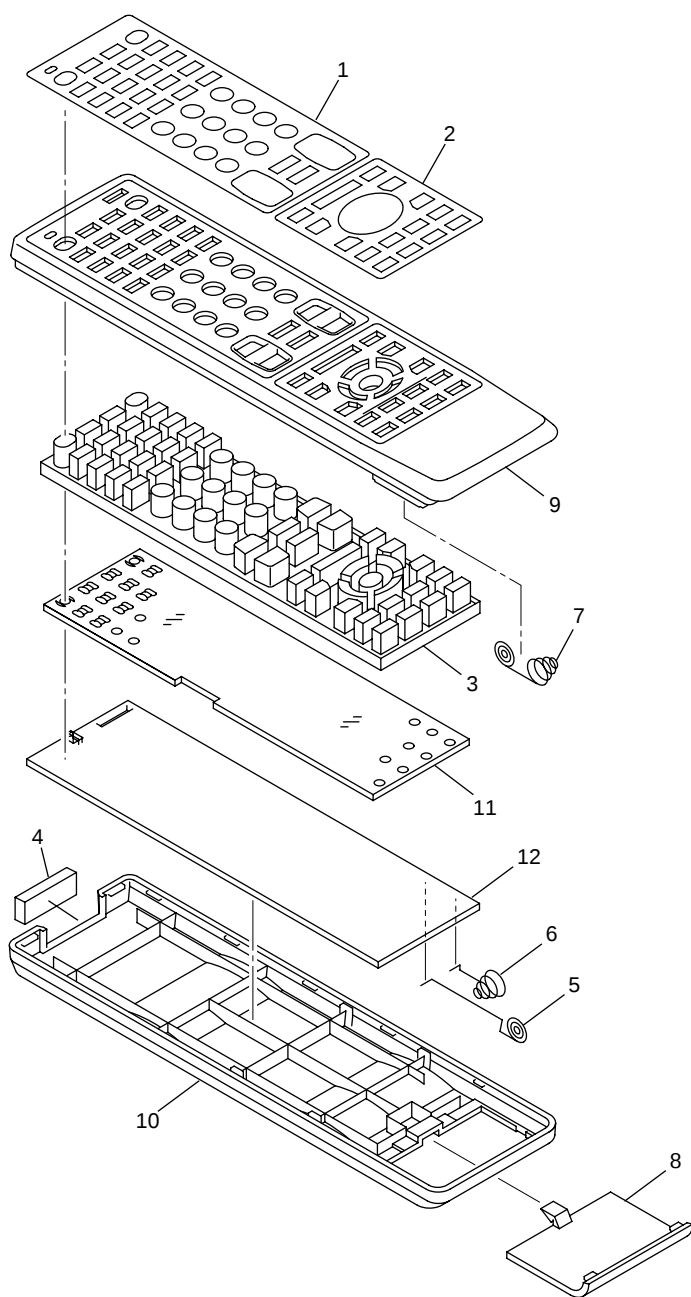
F1, F2 : Filament      G1 to G16 : Grid      S1 to S36 : Anode      D : External connect to F1      NP: No Pin      NL : Lead  
H : Power supply grid usually (ec level = Apply Typ 35.0 VDC)      IC : Internal connection

### 7.3 REMOTE CONTROL UNIT [AXD7214 (CU-VSX162) and AXD7236 (CU-VSX165)]

### 7.3.1 EXPLODED VIEWS AND PARTS LIST

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

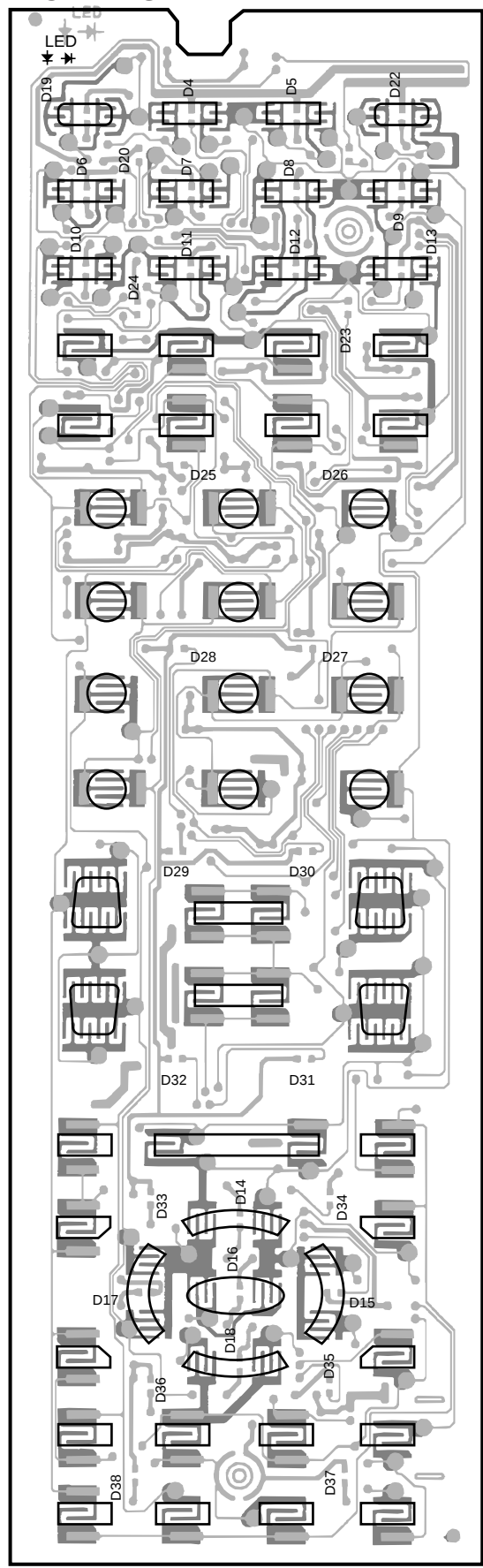
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to  $\nabla$  mark on the product are used for disassembly.



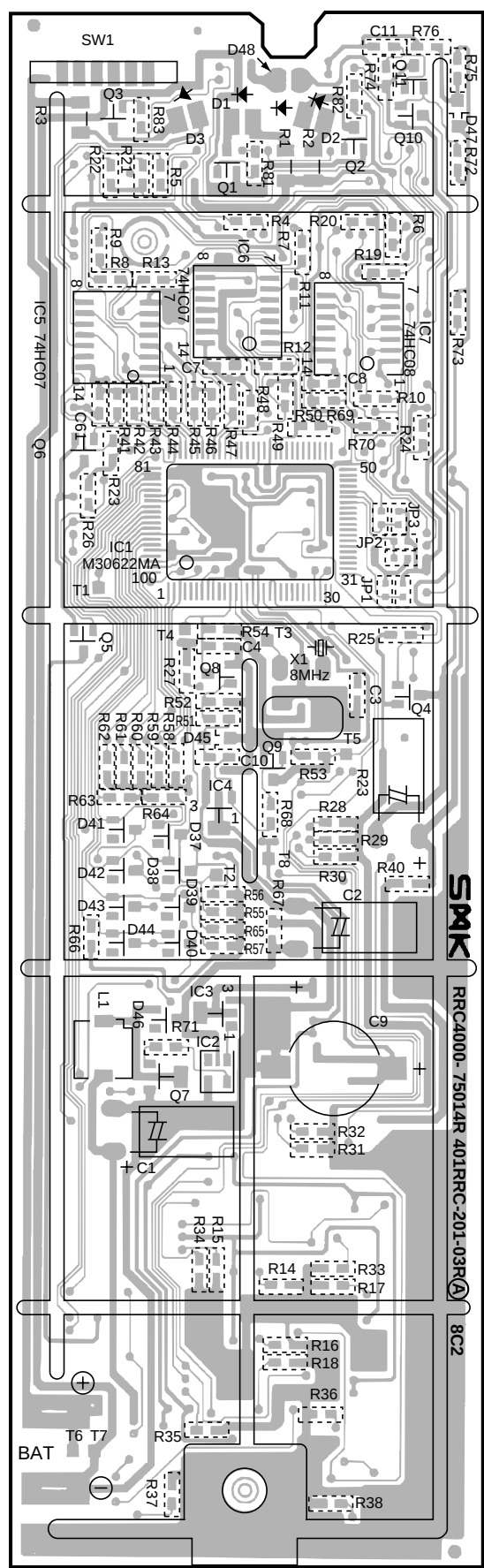
## ● PARTS LIST

| Mark | No. | Description             | Part No. |
|------|-----|-------------------------|----------|
|      | 1   | Name Plate A (AXD7214)  | AZA7356  |
|      | 1   | Name Plate A (AXD7236)  | AZA7353  |
|      | 2   | Name Plate B (AXD7214)  | AZA7376  |
|      | 2   | Name Plate B (AXD7236)  | AZA7377  |
|      | 3   | Rubber Sheet            | AZA7355  |
|      | 4   | Filter                  | AZA7340  |
|      | 5   | Terminal A (+)          | AZB7141  |
|      | 6   | Terminal B (-)          | AZB7142  |
|      | 7   | Spring                  | AZB7143  |
|      | 8   | Battery Cover (AXD7214) | AZN2401  |
|      | 8   | Battery Cover (AXD7236) | AZN7791  |
|      | 9   | Case (A) (AXD7214)      | AZN7780  |
|      | 9   | Case (A) (AXD7236)      | AZN7792  |
|      | 10  | Case (B) (AXD7214)      | AZN7781  |
|      | 10  | Case (B) (AXD7236)      | AZN7793  |
| NSP  | 11  | Illumi Plate            | AZN7782  |
|      | 12  | PCB                     | AZW7254  |

7.3.2 PCB DIAGRAM



SIDE A



SIDE B

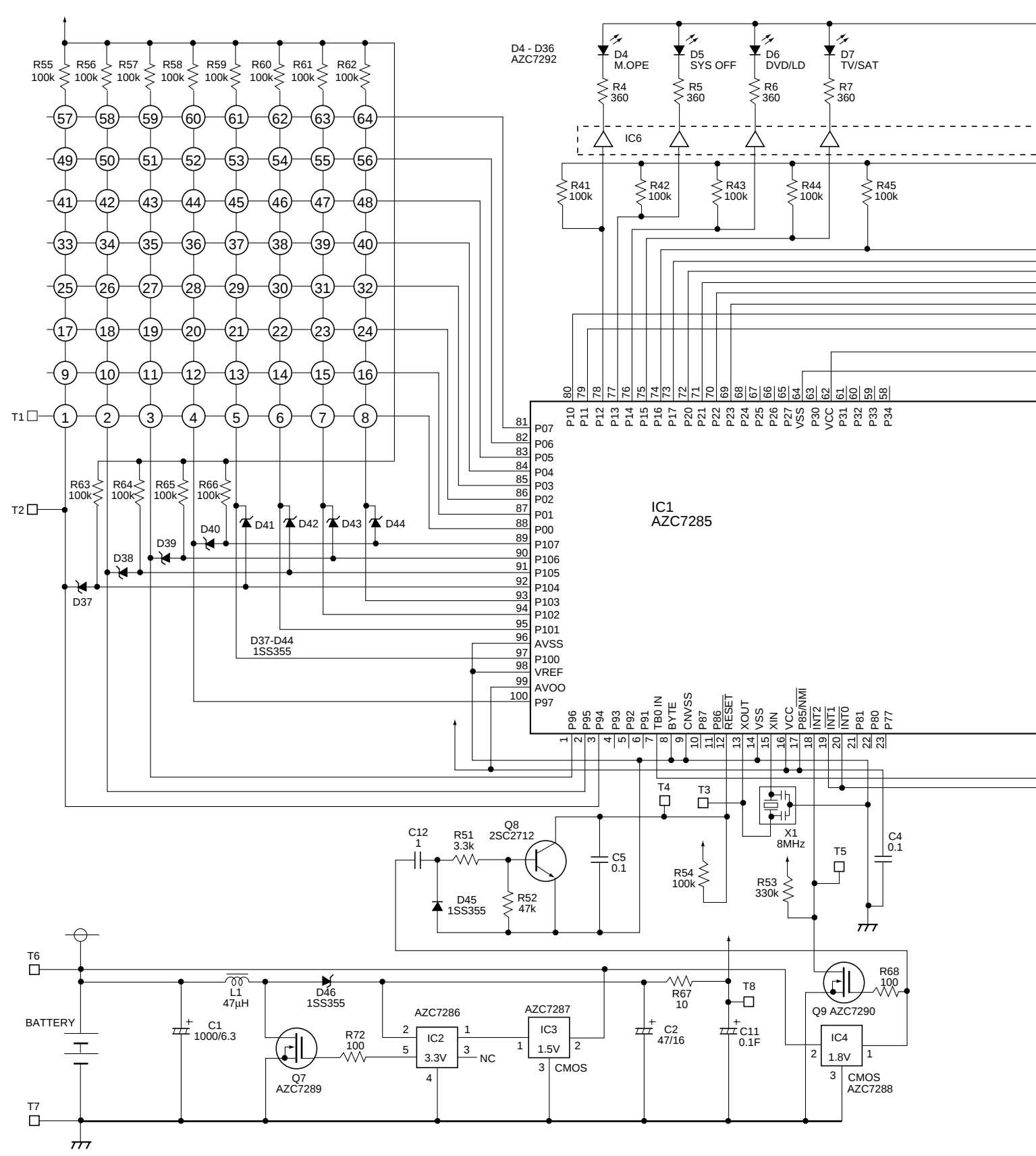
7.3.3 SCHEMATIC DIAGRAM

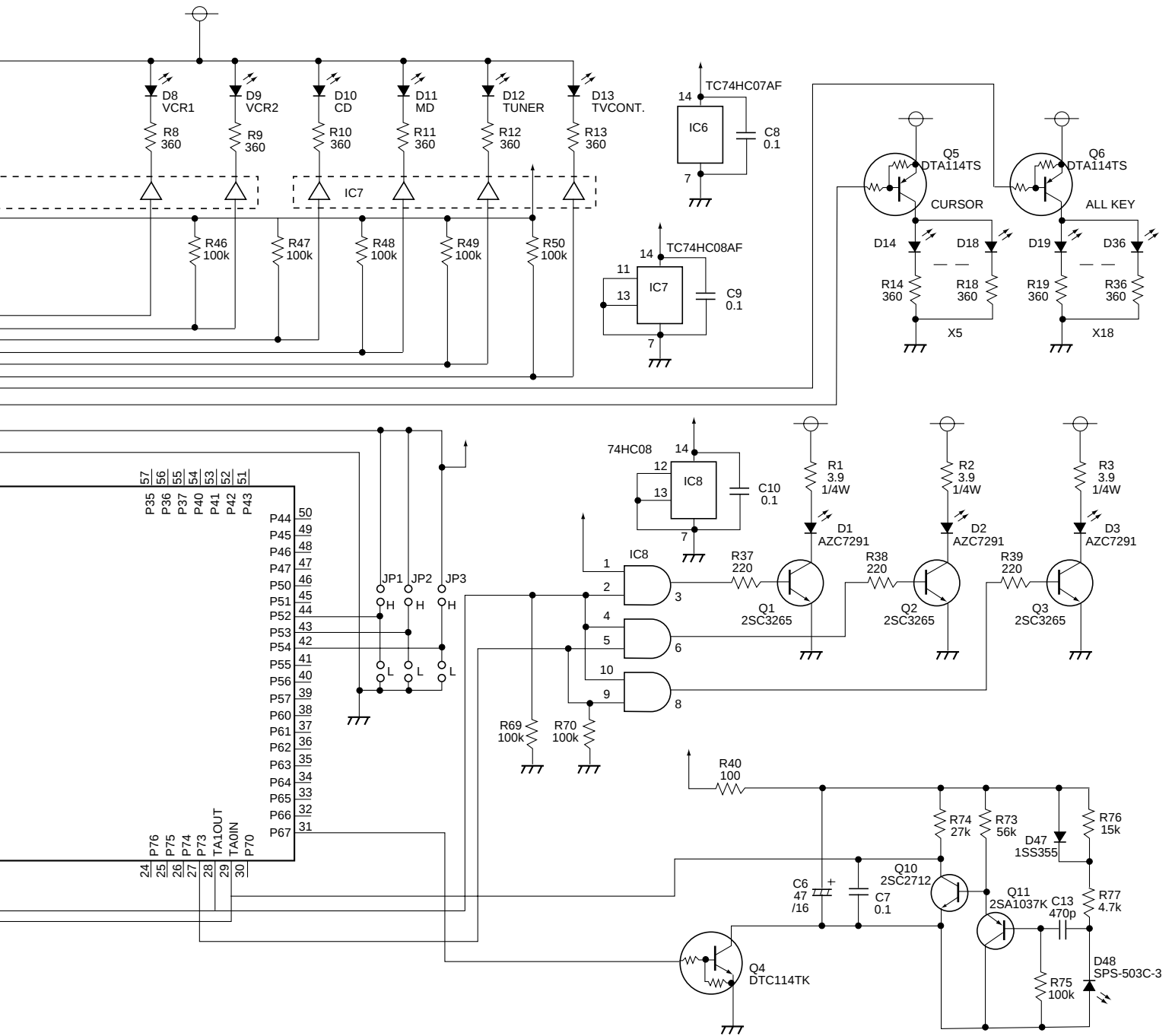
A

B

C

D





7.3.4 PCB PARTS LIST

NOTES: ●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.

●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  $\Omega$  →  $56 \times 10^1$  → 561 ..... RD1/4PU 561 J

47k  $\Omega$  →  $47 \times 10^3$  → 473 ..... RD1/4PU 473 J

0.5  $\Omega$  → R50 ..... RN2H R50 K

1  $\Omega$  → 1R0 ..... RS1P 1R0 K

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

5.62k  $\Omega$  →  $562 \times 10^1$  → 5621 ..... RN1/4PC 5621 F

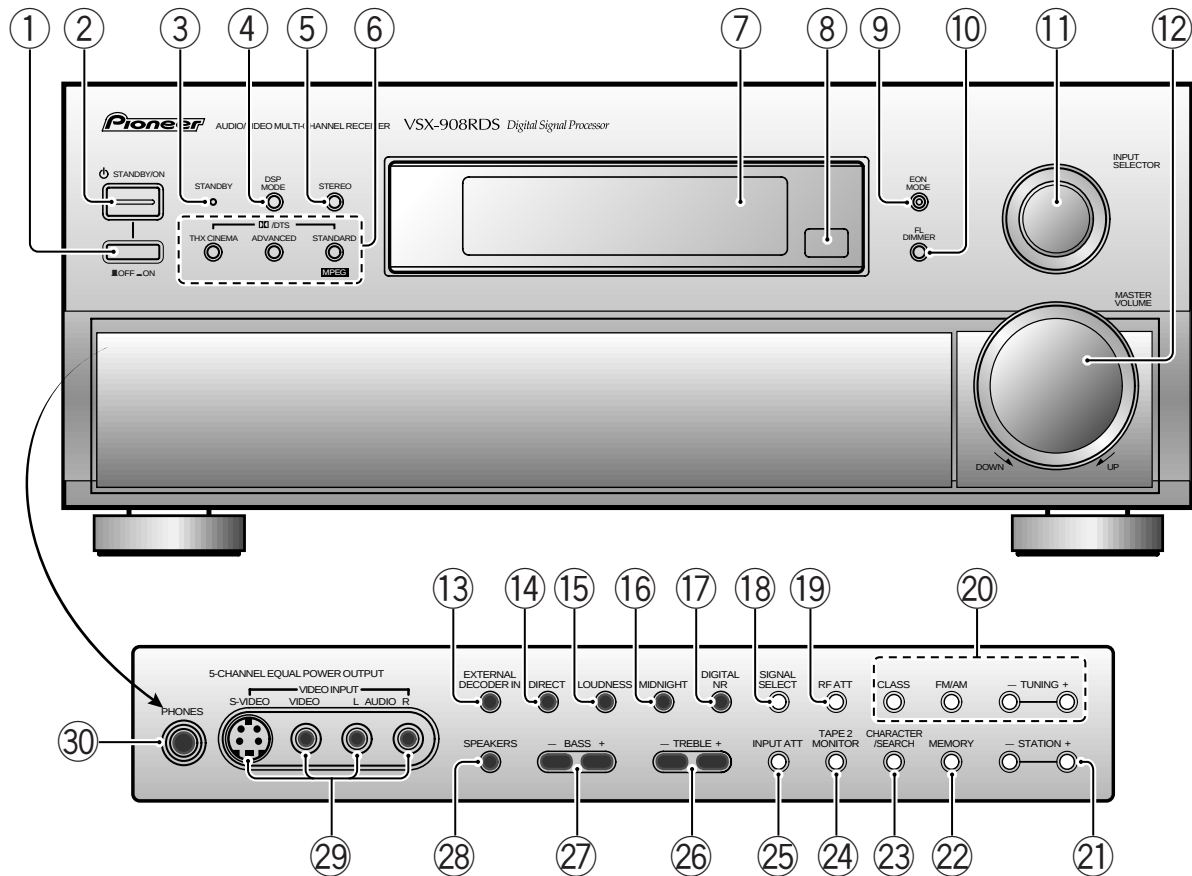
| Mark | No.      | Description          | Part No.   |
|------|----------|----------------------|------------|
|      | IC1      | U-COM(M30662)        | AZC7285    |
|      | IC2      | VOLTAGE REG. 3.3V    | AZC7286    |
|      | IC3      | VOLTAGE DETECTOR 1.5 | AZC7287    |
|      | IC4      | VOLTAGE DETECTOR 1.8 | AZC7288    |
|      | IC5, IC6 |                      | TC74HC07AF |
|      | IC7      |                      | TC74HC08AF |
|      | Q7       | FET(2SK1959)         | AZC7289    |
|      | Q9       | FET(2SK2009)         | AZC7290    |
|      | Q5, Q6   |                      | DTA114TS   |
|      | Q4       |                      | DTC114TK   |
|      | Q11      |                      | 2SA1037K   |
|      | Q8, Q10  |                      | 2SC2712    |
|      | Q1-Q3    |                      | 2SC3265    |
|      | D1-D3    | INFRARED LED         | AZC7291    |
|      | D4-D36   | ORANGE LED           | AZC7292    |
|      | D48      | PIN PHOTO DIODE      | SPS-503C-3 |
|      | D37-D47  |                      | 1SS355     |

## 8. PANEL FACILITIES AND SPECIFICATIONS

### 8.1 PANEL FACILITIES

#### ■ Front Section

All the controls on the front panel are explained and/or referenced here. To open the front panel push gently on the lower third of the panel.



#### ① Main power (■ ON/ ▬ OFF) button

If the button is OFF (▬), the power of the receiver is shut off and the STANDBY/ON button (②) on the receiver or the remote control do not function. Pressing the button again will turn the receiver ON (■) and the receiver enters the standby mode. In the standby mode, you can turn on the receiver using the STANDBY/ON button (②) on the receiver or the remote control.

#### ② ⏻ STANDBY/ON button

Press to switch the receiver ON or into the STANDBY mode.

#### ③ STANDBY indicator

Lights when the receiver is in the STANDBY mode. (Please note that this receiver consumes a small amount of power (1.0 W) during the standby mode.)

#### ④ DSP MODE button

Press repeatedly to select a DSP sound mode. (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2). Use these modes to produce surround sound from standard (two channel) stereo sources and create different listening environments.

#### ⑤ STEREO button

Press to select the STEREO sound mode. In this mode, sound comes from the front (left and right) speakers only.

#### ⑥ DTS/DTS buttons

**THX CINEMA** : Press to select the HOME THX CINEMA mode when listening to Dolby Digital, Dolby Pro Logic, DTS, or a variety of other sources.

**ADVANCED** : Press to select one of the four Advanced Theater modes.

**STANDARD (MPEG)** : Press repeatedly to select the STANDARD or MPEG mode.

#### ⑦ Display

#### ⑧ Remote sensor

Point the remote control toward the remote sensor to operate the receiver.

#### ⑨ EON MODE button/indicator

Press to select the EON mode in the FM mode. The indicator lights when the EON mode is selected.

#### ⑩ FL DIMMER button

Use to adjust the brightness of the main display.

## ⑪ INPUT SELECTOR dial

Turn to select a source component. The source indicators on the display shows the current component:

**DVD/LD** : DVD player or Laser Disc player.

**TV/SAT** : TV tuner or satellite tuner.

**CD** : Compact disc player.

**MD/TAPE 1** : Tape deck or Mini disc recorder connected to MD/TAPE 1/CD-R inputs/outputs.

**TUNER** : The built-in tuner.

**PHONO** : Turntable.

**VIDEO** : Video camera (etc.) connected to the VIDEO INPUT on the front panel.

**VCR 1** : Video cassette recorder connected to VCR 1 inputs.

**VCR 2** : Video cassette recorder or other component connected to VCR 2 inputs.

## ⑫ MASTER VOLUME

Adjusts the overall receiver volume.

## ⑬ EXTERNAL DECODER IN button

Use to hook up an external component that can decode other types of signals and input them into the receiver.

## ⑭ DIRECT button

Switches direct playback on or off. Use to bypass the tone controls and channel level for the most accurate reproduction of a program source. It will automatically put the receiver in the STEREO mode for that function.

## ⑮ LOUDNESS button

Switches the LOUDNESS mode on or off.

## ⑯ MIDNIGHT button

Switches the MIDNIGHT listening mode on or off.

## ⑰ DIGITAL NR button

Switches the DIGITAL NR on or off (STEREO mode only).

## ⑱ SIGNAL SELECT button

Use to select the signal from the digital components. Press SIGNAL SELECT repeatedly to select one of the following:

**ANALOG** : To select an analog signal.

**DIGITAL** : To select an optical or coaxial digital signal.

**AC-3 RF** : To select an AC-3 RF signal.

**AUTO** : This is the default. If there are both analog and digital input signals, the receiver automatically selects the best possible signal.

## ⑲ RF ATT button

Press to turn the RF attenuator on when receiving strong FM signals (nearby stations) to reduce sound distortion. Normally, set the RF attenuator to off. This button does not affect AM reception.

## ⑳ Tuner control buttons

**CLASS** : Press repeatedly to switch the preset station classes.

**FM/AM** : Press to select the AM or FM band.

**TUNING -/+** : Use to manually tune into radio stations.

## ㉑ STATION -/+ buttons

Use to choose programmed radio stations.

## ㉒ MEMORY button

Press to start the memorization of a preset station.

## ㉓ CHARACTER/SEARCH button

Press to select the character input mode, or initiate an RDS PTY search.

## ㉔ TAPE 2 MONITOR button

Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/outputs. Allows monitoring of a recording as it is being made.

## ㉕ INPUT ATT button

Use to lower the input level of an analog signal that is too powerful, thus causing the receiver to distort (the OVER indicator will light furiously).

## ㉖ TREBLE (-/+) buttons

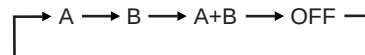
Use to adjust the high frequencies.

## ㉗ BASS (-/+) buttons

Use to adjust low frequencies.

## ㉘ SPEAKERS (A/B) buttons

A is the primary setting. It plays all speakers hooked up to the A system. A and B setting only plays the front speakers of both the A and B systems and the sub-woofer. Multi channel sources will be down-mixed to these speakers so no sound will be lost. B setting only plays the front speakers connected to the B system and Multi channel sources will be down-mixed to these two speakers.



## ㉙ VIDEO INPUT jacks

**S-VIDEO** : Video input for connecting a video camera (etc.), that has an S-Video out.

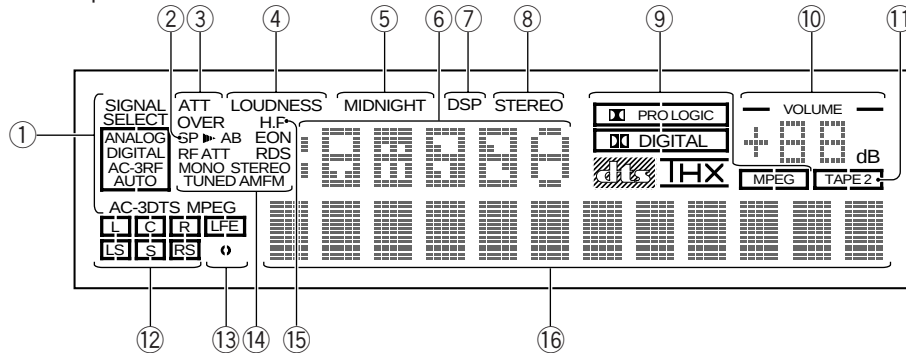
**VIDEO / AUDIO (L/R)** : Video input for connecting a video camera, etc. that has standard video/audio outputs.

## ㉚ PHONES jack

Connect headphones for private listening (no sound will be heard through the speakers).

## ■ Display

All the display information is explained here.



### ① SIGNAL SELECT indicators

Light to indicate the type of input signal assigned for the current component (see "Front Panel", ⑩, SIGNAL SELECT).

**ANALOG** : Lights when an analog signal is selected.

**DIGITAL** : Lights when a digital audio signal is selected (DVD/LD, CD, MD/TAPE1, TV/SAT, VCR 1, VCR 2).

**AC-3RF**: Lights when an AC-3 RF signal is selected (DVD/LD, TV/SAT, VCR 1, VCR 2).

**AUTO**: Lights when the receiver is set to select the input signal automatically (DVD/LD, CD, MD/TAPE 1, TV/SAT, VCR 1, VCR 2).

**AC-3** : Lights when a source with Dolby Digital signals is played.

**DTS** : Lights when a source with DTS audio signals is played.

**MPEG**: Blinks when the MPEG mode is selected, and lights when a source with MPEG audio signals is played.

### ② Speaker indicators

Light to indicate the current speaker system (see "Front Panel", ⑩, SPEAKERS (A/B)).

**SP ▷ A** : Lights when speaker system A is selected.

**SP ▷ B** : Lights when speaker system B is selected.

**SP ▷ AB** : Lights when speaker systems A and B are both selected.

### ③ Analog level indicators

**OVER** : If "ANALOG" is selected in SIGNAL SELECT, this indicator lights to show that an excessively strong signal is being processed. When this occurs, press INPUT ATT on the front panel to attenuate (lower) the signal. Also, when "DIGITAL" is selected in SIGNAL SELECT, this indicator lights to show that a source containing an excessive amount of information is being processed.

**ATT** : Lights when INPUT ATT is used to reduce the level of the input signal (available in ANALOG mode only).

### ④ LOUDNESS indicator

Lights when the LOUDNESS mode is on.

### ⑤ MIDNIGHT indicator

Lights when the MIDNIGHT listening mode is on.

### ⑥ Radio Frequency/Source indicator

Displays the source or the frequency of the current radio station.

### ⑦ DSP indicator

Lights when a DSP or Advanced Theater mode is selected.

### ⑧ STEREO indicator

Lights when a Stereo mode is selected.

### ⑨ Surround/dts (MPEG) mode indicators

**DIGITAL** : When the **DIGITAL** Surround/dts mode on the receiver is on, this indicator lights to indicate playback of a Dolby Digital signal. However, **PRO LOGIC** lights during 2 channel playback of Dolby Digital.

**PRO LOGIC** : When the **DIGITAL** Surround/dts mode on the receiver is on, this indicator lights during 2 channel playback. The indicator does not light when both the A + B speaker systems, just the B speaker system, or the headphones are selected for playback.

**dts** : Lights when DTS signals are input.

**THX**: Lights when the HOME THX CINEMA mode is selected.

**MPEG**: Lights when the MPEG mode is selected. (**DIGITAL** Surround/dts (MPEG) mode is ON)

### ⑩ MASTER VOLUME indicator

Displays current level of master volume.

### ⑪ TAPE 2 indicator

Lights when the TAPE 2 monitor is on.

### ⑫ Program format indicator

When a Dolby Digital or DTS signal is input, the following indicators light to show the channels being played back.

**L** : Left front\*1\*2, **C** : Center\*1, **R** : Right front\*1\*2,

**LS** : Left surround\*1, **S** : Surround (mono)\*2,

**RS** : Right surround\*1

\*1: Indicates 5.1ch Dolby Digital playback.

\*2: Indicates Dolby Pro Logic playback.

### ⑬ LFE indicator

LFE (Low Frequency Effects) indicator lights to indicate that the program source contains an LFE channel. The indicator under the LFE lights during actual playback of the LFE signals (LFE signals are not present in all parts of the soundtrack).

### ⑭ Tuner/ FM/AM indicators

**MONO** : Lights when the tuner is set to receive FM broadcasts with the MONO mode selected.

**STEREO** : Lights when a FM stereo broadcast is received in the auto stereo mode.

**TUNED** : Lights when a broadcast is received.

**AM/FM** : Light to indicate the current band (FM or AM).

**EON**: Lights when an RDS stations transmitting the EON data service is being received.

**RF ATT**: Lights when the RF attenuator is on.

**RDS**: Lights when RDS broadcast is being received.

### ⑮ H.P (headphones)

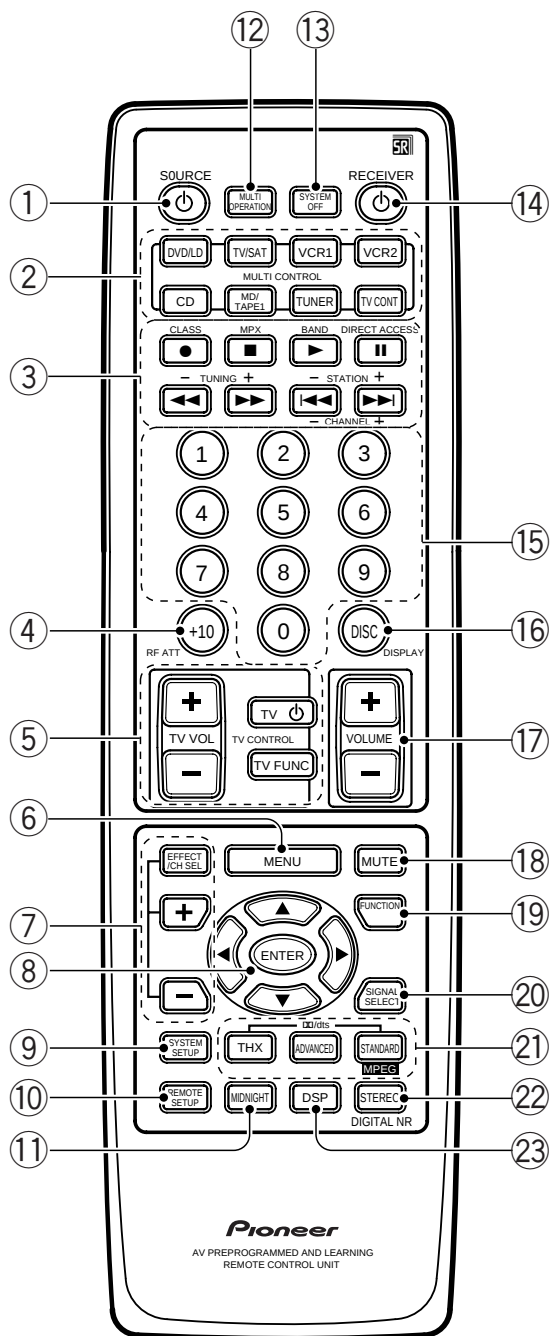
Lights when headphones are connected to the PHONES jack (speakers A and B turn off automatically).

### ⑯ Character display

Displays sound modes, general information, etc.

## Remote Control Unit

These pages describe the buttons on the remote control used to operate the receiver.



### ① SOURCE button

Use to turn on the power of your other components after you have recalled or taught the signals to this remote control.

### ② MULTI CONTROL buttons

Use these buttons to select a source and the corresponding remote operation mode.  
For example, pressing the TUNER button selects the built-in tuner and sets the remote control in the tuner operation mode.

### ③ Component control buttons

[Tuner control]  
**CLASS:** Press repeatedly to switch the preset station classes.  
**MPX:** Press to switch between auto stereo and MONO reception of FM broadcasts.  
**BAND:** Press to select AM or FM band.  
**DIRECT ACCESS:** Press to activate the direct access tuning mode.  
**TUNING +/-:** Use to manually tune into radio stations.  
**STATION +/-:** Use to choose programmed radio stations.

### ④ RF ATT button

Press to turn the RF attenuator on when receiving strong FM signals (nearby stations) to reduce sound distortion. Normally, set the RF attenuator to off. This button does not affect AM reception.

### ⑤ TV CONTROL buttons

The following buttons are used to control the TV only and can be used no matter what function the remote control is set to.  
**TV :** Press to turn the power of the TV on/off.  
**TV FUNC :** Press to select the TV for remote control operation.  
**TV VOL +/- :** Press to control the volume of the TV.

### ⑥ MENU button

Use to display various menus on the TV screen.

### ⑦ EFFECT/CH SEL +/- buttons

**EFFECT :** Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode, the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP or ADVANCED Theater mode (by pressing the ⑪ DSP or ADVANCED button until you get the mode) and then increase or decrease the amount of effect.  
**CH SEL :** You may want to adjust the channels when listening to some sound sources. Use this button to select the channel you want to adjust.  
**+/- :** Use these buttons to select the amount of effect in a sound mode or to adjust the channel level when making surround sound settings.

⑧ ▲/▼/◀/▶/ENTER buttons

Use to operate the on-screen menu on your TV screen and enter commands when setting up surround sound, speakers levels & settings, and other setup features. Specific use of these buttons is described in conjunction with the operations they perform. For more information see each section.

⑨ SYSTEM SETUP button

Use to set up the speaker and sound systems.

⑩ REMOTE SETUP button.

Use to customize the remote control functions and the remote control itself.

Press the SIGNAL SELECT and REMOTE SETUP buttons simultaneously to switch from the SIGNAL SELECT operation to EXTERNAL DECODER operation. Then press the button to get the EXTERNAL DECODER function. To get back to the SIGNAL SELECT control, press the REMOTE SETUP button and the SIGNAL SELECT button simultaneously once again.

⑪ MIDNIGHT button

Switches the MIDNIGHT listening mode on or off.

⑫ MULTI OPERATION button

Use this button to start the MULTI OPERATION mode.

⑬ SYSTEM OFF button

This button turns off components in two ways. First, when pressed, it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will also be turned off.

**For example :** If you programmed power-on for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⑭ RECEIVER ⏻ button

Press to turn power of the receiver on or to STANDBY (off).

⑮ Number buttons

These buttons can perform a variety of different functions depending on the remote operation mode. They are most useful for CD player and tuner operations.

⑯ DISC/DISPLAY button

Press to switch the RDS data while listening to an FM station.

Each press changes the display mode in the order of RT, PS, PTY, and frequency.

This button can perform a variety of different functions depending on the remote operation mode.

⑰ VOLUME button

Use to raise or lower the volume of the receiver.

⑱ MUTE button

Press to mute or restore the volume.

⑲ FUNCTION button

Press to select a source. The button will cycle through all the possible sources.

⑳ SIGNAL SELECT button

Press SIGNAL SELECT repeatedly to select one of the following:

**ANALOG :** To select an analog signal.

**DIGITAL :** To select a digital signal (DVD/LD, TV/SAT, CD, MD/TAPE 1, VCR 1, VCR 2).

**AC-3 RF:** To select an AC-3 RF signal (DVD/LD, TV/SAT, VCR 1, VCR 2).

**AUTO:** This is the default. If there are both analog and digital input signals, the receiver automatically selects the best possible signal. Press the SIGNAL SELECT and REMOTE SETUP buttons simultaneously to switch from the SIGNAL SELECT operation to EXTERNAL DECODER operation. Then press the button to get the EXTERNAL DECODER function. To get back to the SIGNAL SELECT control, press the REMOTE SETUP button and the SIGNAL SELECT button simultaneously once again.

㉑ /dts buttons

Press these buttons to put the receiver in the selected sound mode.

㉒ STEREO/DIGITAL NR button

**STEREO :** Press this button to put the receiver into the stereo mode when it's in a different sound mode. For more information on the sound modes.

**DIGITAL NR :** Switches the DIGITAL NR on or off .

㉓ DSP button

Press repeatedly to select a DSP sound mode.

## Audio Components Connections

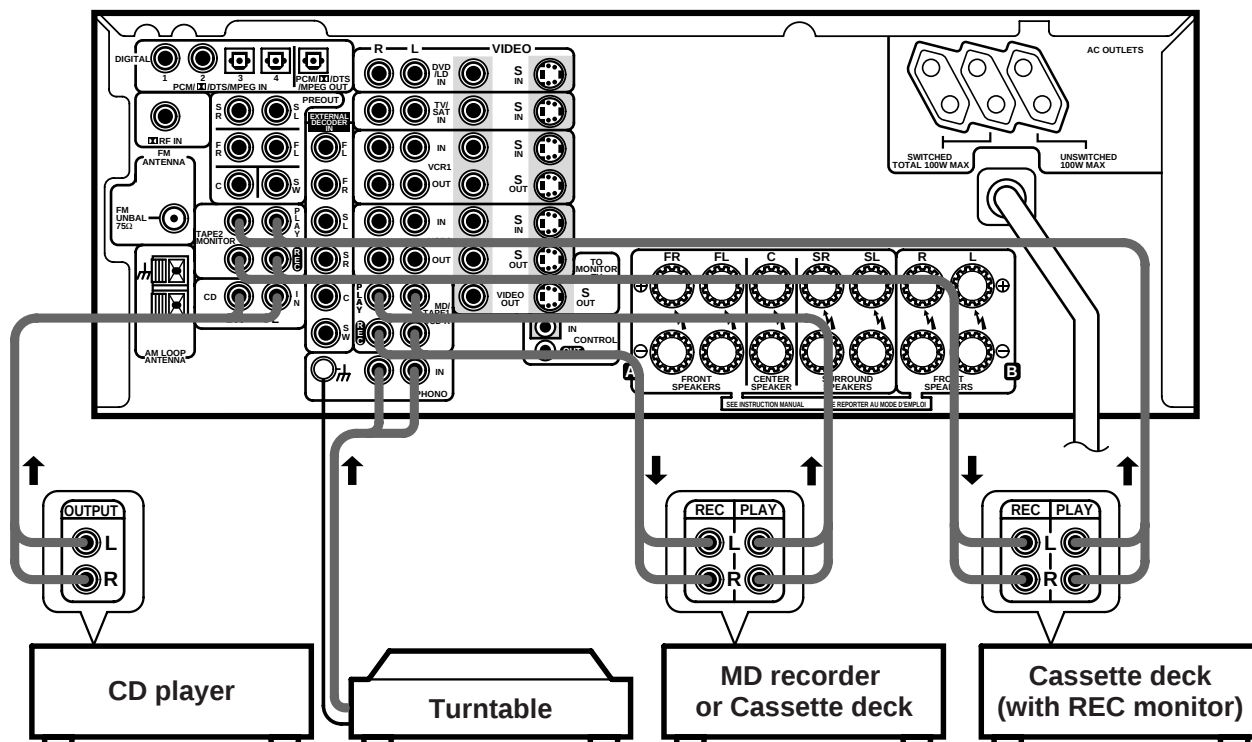
Before making or changing the connections, switch off the power and disconnect the power cord from the AC outlet.

To begin set up connect your audio components to the jacks as shown below. These are all analog connections and your analog audio components (turntable, cassette deck) use these jacks. Remember that for components you want to record with you need to hook up four plugs (a set of stereo ins and a set of stereo outs), but for components that only play (like a turntable) you only need to hook up one set of stereo plugs (two plugs). To use DTS surround sound features you must hook up your digital components to the digital inputs but it is also a good idea to hook up your digital components to analog audio jacks. If you want to record to/from digital components (like an MD) to/from analog components you must hook up your digital equipment with these analog connections.



The arrows indicate the direction of the audio signal.

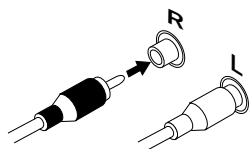
The illustration is not applicable to the UK model.



If your turntable has a ground wire, connect it to the (signal ground) terminal.

### Audio cords

Use audio cords (not supplied) to connect the audio components.



Connect red plugs to R (right) and white plugs to L (left). Be sure to insert completely.

## Cassette deck placement

Depending on where the cassette deck is placed, noise may occur during playback of your cassette deck, which is caused by leakage flux from the transformer in the receiver. If you experience noise, move the cassette deck farther away from the receiver.

## 8.2 SPECIFICATIONS

### Amplifier Section

|                                                                      |                                        |
|----------------------------------------------------------------------|----------------------------------------|
| Continuous Power Output (STEREO MODE)                                |                                        |
| FRONT .....                                                          | 110 W + 110 W (DIN 1 kHz, THD 1 %, 8Ω) |
| Continuous Power Output (SURROUND MODE)                              |                                        |
| FRONT .....                                                          | 110 W + 110 W (DIN 1 kHz, THD 1 %, 8Ω) |
| CENTER .....                                                         | 110 W (DIN 1 kHz, THD 1 %, 8Ω)         |
| SURROUND .....                                                       | 110 W + 110 W                          |
| .....                                                                | (DIN 1 kHz, THD 1 %, 8Ω)               |
| Rated Power Output .....                                             | 100 W + 100 W                          |
| .....                                                                | (20-20 kHz, THD 0.09 %, 8Ω)            |
| • Above specifications are applicable when the power supply is 230V. |                                        |
| Input (Sensitivity/Impedance)                                        |                                        |
| PHONO MM .....                                                       | 4.7 mV/47 kΩ                           |
| VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,                             |                                        |
| MD/TAPE 1/CD-R, TAPE 2 .....                                         | 335 mV/47 kΩ                           |
| Frequency Response                                                   |                                        |
| PHONO MM .....                                                       | 80 dB                                  |
| VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,                             |                                        |
| MD/TAPE 1/CD-R, TAPE 2 .....                                         | 5 Hz to 100,000 Hz $\pm 0$ dB          |
| Output (Level/Impedance)                                             |                                        |
| VCR 1 REC, VCR 2 REC, MD/TAPE 1/CD-R REC,                            |                                        |
| TAPE 2 REC .....                                                     | 335 mV/2.2 kΩ                          |
| Tone Control                                                         |                                        |
| BASS .....                                                           | $\pm 6$ dB (100 Hz)                    |
| TREBLE .....                                                         | $\pm 6$ dB (10 kHz)                    |
| LOUDNESS .....                                                       | +3 dB (100 Hz/10 kHz)                  |
| Signal-to-Noise Ratio (IHF, short circuited, A network)              |                                        |
| PHONO MM .....                                                       | 80 dB                                  |
| VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,                             |                                        |
| MD/TAPE 1/CD-R, TAPE 2 .....                                         | 101 dB                                 |
| Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]                          |                                        |
| PHONO MM .....                                                       | 80 dB                                  |
| VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,                             |                                        |
| MD/TAPE 1/CD-R, TAPE 2 .....                                         | 83 dB                                  |

### VIDEO Section

|                                           |                           |
|-------------------------------------------|---------------------------|
| Input (Sensitivity/Impedance)             |                           |
| VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO ..... | 1 Vp-p/75 Ω               |
| Output (Level/Impedance)                  |                           |
| VCR 1, VCR 2, MONITOR .....               | 1 Vp-p/75 Ω               |
| Frequency Response                        |                           |
| VCR 1, VCR 2, MONITOR .....               | 5 Hz to 10 MHz $\pm 0$ dB |
| Signal-to-Noise Ratio .....               | 65 dB                     |

### FM Tuner Section

|                                     |                                        |
|-------------------------------------|----------------------------------------|
| Frequency Range .....               | 87.5 MHz to 108 MHz                    |
| Usable Sensitivity .....            | Mono: 15.2 dBf, IHF (1.6 $\mu$ V/75 Ω) |
| 50 dB Quieting Sensitivity .....    | Mono: 20.2 dBf                         |
| .....                               | Stereo: 41.2 dBf                       |
| Sensitivity (DIN) .....             | Mono: 1.1 $\mu$ V (S/N 26 dB)          |
| .....                               | Stereo: 50 $\mu$ V (S/N 46 dB)         |
| Signal-to-Noise Ratio .....         | Mono: 76 dB (at 85 dBf)                |
| .....                               | Stereo: 72 dB (at 85 dBf)              |
| Signal-to-Noise Ratio (DIN) .....   | Mono: 62 dB                            |
| .....                               | Stereo: 58 dB                          |
| Distortion .....                    | Stereo: 0.6 % (1 kHz)                  |
| Alternate Channel Selectivity ..... | 70 dB (400 kHz)                        |
| Stereo Separation .....             | 40 dB (1 kHz)                          |
| Frequency Response .....            | 30 Hz to 15 kHz ( $\pm 1$ dB)          |
| Antenna Input .....                 | 75 Ω unbalanced                        |

### AM Tuner Section

|                                       |                      |
|---------------------------------------|----------------------|
| Frequency Range .....                 | 531 kHz to 1.602 kHz |
| Sensitivity (IHF, Loop antenna) ..... | 350 $\mu$ V/m        |
| Selectivity .....                     | 30 dB                |
| Signal-to-Noise Ratio .....           | 50 dB                |
| Antenna .....                         | Loop antenna         |

### Miscellaneous

|                                         |                                              |
|-----------------------------------------|----------------------------------------------|
| Power Requirements                      |                                              |
| UK model .....                          | AC 230 V, 50/60 Hz                           |
| European model .....                    | AC 220 - 230 V, 50/60 Hz                     |
| Power Consumption .....                 | 400 W                                        |
| Power Consumption in Standby mode ..... | 1.0 W                                        |
| AC Outlets (except for the UK model)    |                                              |
| SWITCHED (x2) .....                     | Total 100 W MAX.                             |
| UNSWITCHED .....                        | 100 W MAX.                                   |
| Dimensions .....                        | 420 (W) $\times$ 173 (H) $\times$ 470 (D) mm |
| Weight (without package) .....          | 14.9 kg                                      |

### Furnished Parts

|                                                |   |
|------------------------------------------------|---|
| FM Antenna .....                               | 1 |
| AM Loop Antenna .....                          | 1 |
| Dry Cell Batteries (SIZE "AA" (IEC LR6)) ..... | 2 |
| Remote Control Unit .....                      | 1 |
| Operating Instructions .....                   | 1 |

### NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.

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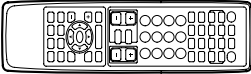
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# VSX-908RDS, VSX-908RDS-G

## ■ Accessories

|                                                                                   |                                                                                   |                                                                                   |                                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|  |  |  |                  |
| FM wire antenna<br>(ADH7010)                                                      | AM loop antenna<br>(ATB7009)                                                      | “AA” IEC LR6 batteries x 2                                                        | Remote control unit<br>(CU-VSX162 : AXD7214)<br>VSX-908RDS<br>(CU-VSX165 : AXD7236)<br>VSX-908RDS-G |