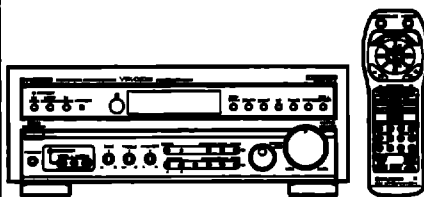


# Service Manual

**PIONEER**  
The Art of Entertainment



ORDER NO.  
**RRV1746**

**AUDIO/VIDEO STEREO RECEIVER**

# VSX-D606S

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

| Type   | Model     | Power Requirement | Remarks |
|--------|-----------|-------------------|---------|
|        | VSX-D606S |                   |         |
| KUXJ I | ○         | AC120V            |         |
| KCXJ I | ○         | AC120V            |         |

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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

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

### 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.

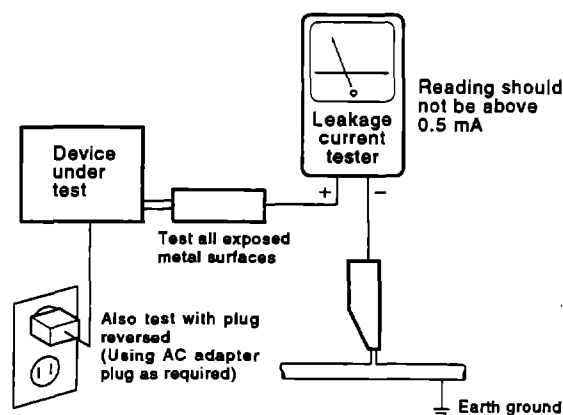
### (FOR USA MODEL ONLY)

#### 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 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



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 ⚠ 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.

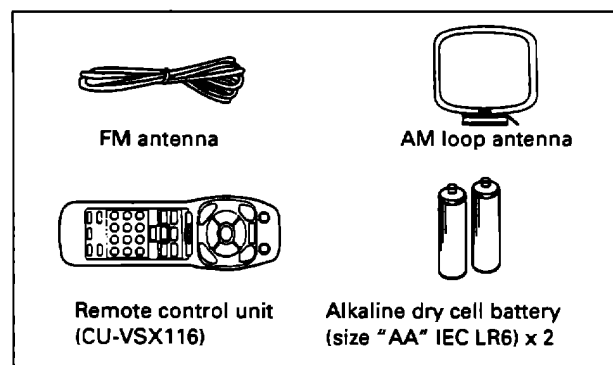
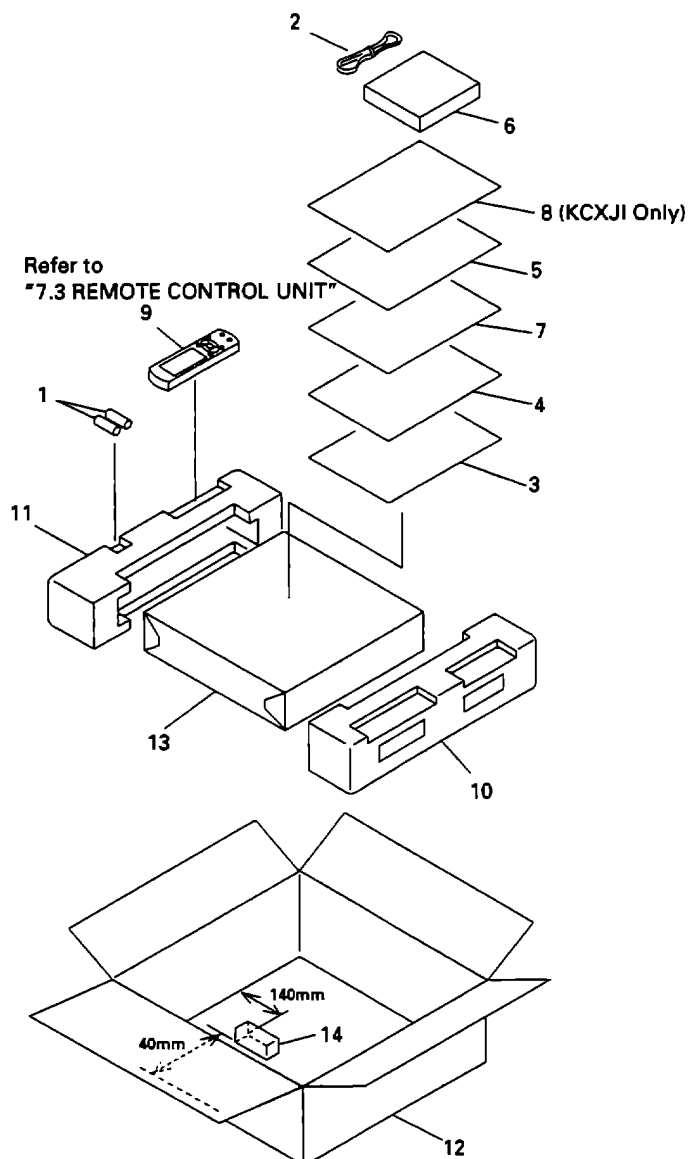
## 2. EXPLODED VIEWS AND PARTS LIST

- 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 parts. Therefore, when replacing, be sure to use parts of identical designation.
  - Screws adjacent to  $\nabla$  mark on the product are used for disassembly.

### 2.1 PACKING

#### (1) PARTS LIST

| Mark | No. | Description                                            | Parts No.              |
|------|-----|--------------------------------------------------------|------------------------|
|      | 1   | Alkaline Dry Cell Battery (LR6,AA)                     | AEX1007                |
|      | 2   | FM Antenna                                             | ADH7004                |
|      | 3   | Operating Instructions (English)                       | ARB7091                |
|      | 4   | Sub Instruction Manual (Remote Control Unit) (English) | ARH7015                |
| NSP  | 5   | Warranty Card                                          | See Contrast table (2) |
|      | 6   | AM Loop Antenna                                        | ATB7009                |
|      | 7   | Sub Instruction Manual (AC-3) (English)                | ARH7016                |
|      | 8   | Operating Instructions (French)                        | See Contrast table (2) |
|      | 9   | Remote Control Unit (CU-VSX116)                        | AXD7106                |
|      | 10  | Front Pad                                              | AHA7137                |
|      | 11  | Rear Pad                                               | AHA7140                |
|      | 12  | Packing Case                                           | AHD7358                |
|      | 13  | Packing Sheet                                          | AHG7010                |
|      | 14  | Sub Pad B                                              | AHB7027                |



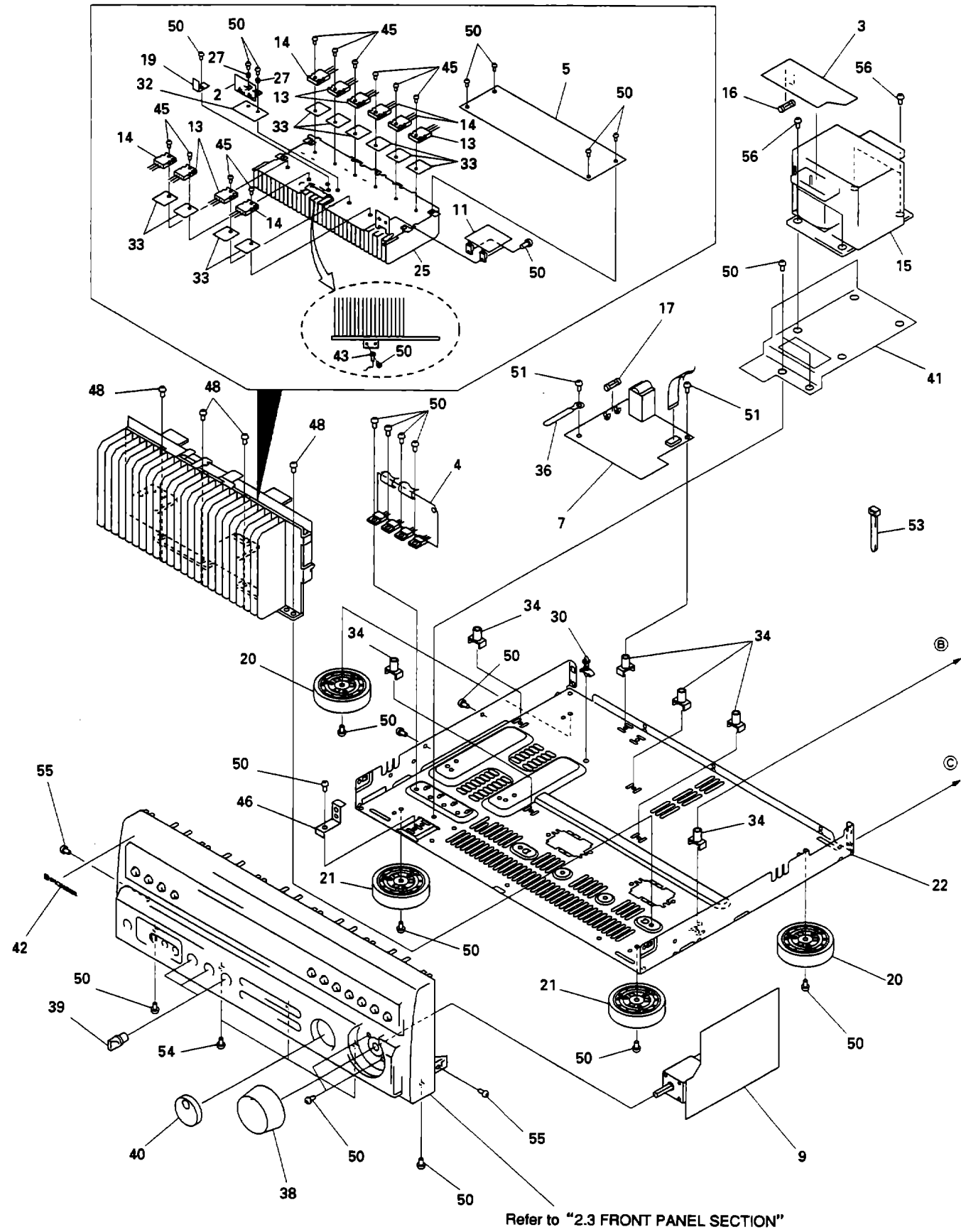
#### (2) CONTRAST TABLE

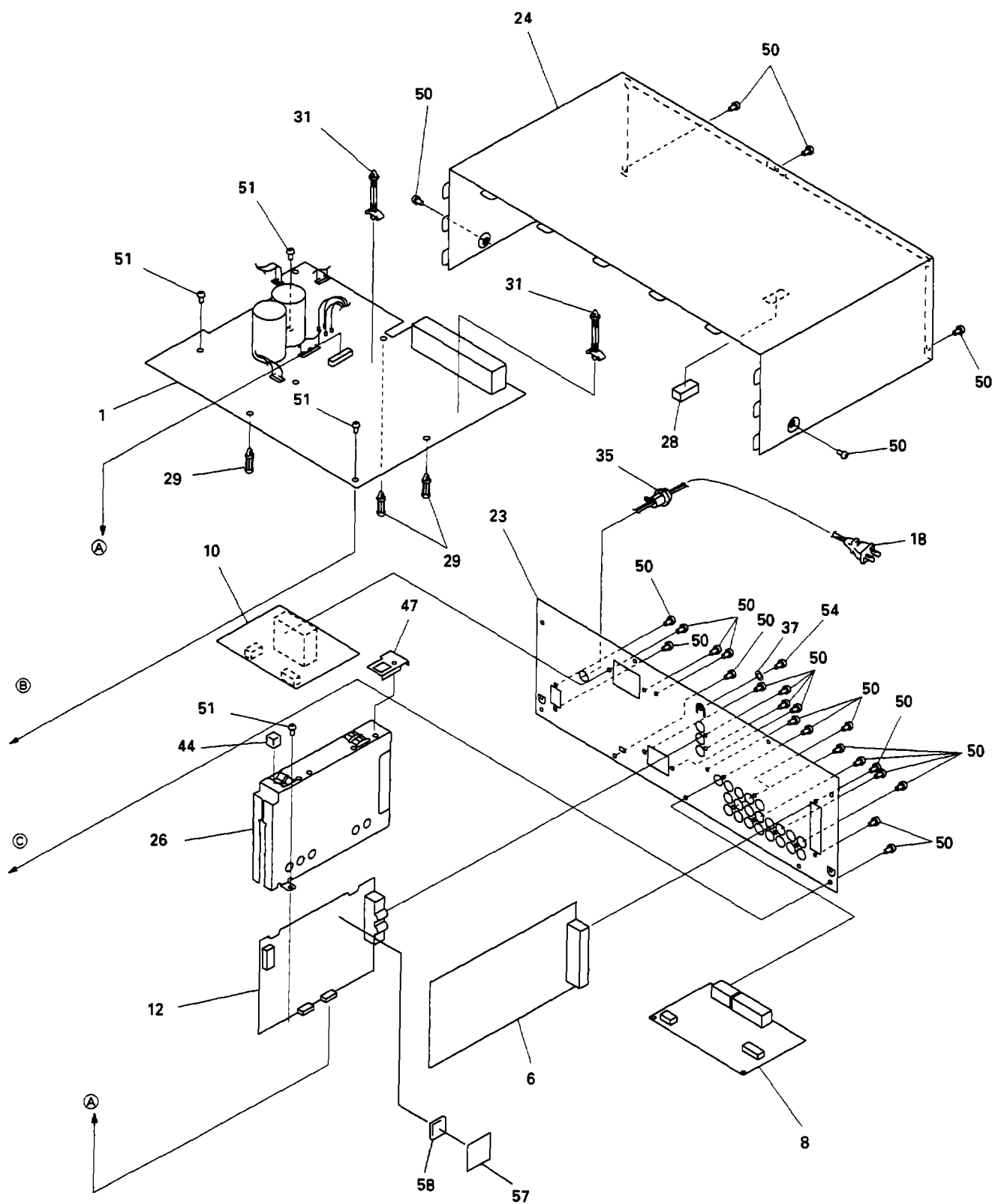
VSX-D606S/KUXJI and KCXJI have the same construction except for the following :

| Mark | No. | Srmbol & Description            | Part No.  |         | Remarks |
|------|-----|---------------------------------|-----------|---------|---------|
|      |     |                                 | VSX-D606S |         |         |
|      |     |                                 | KUXJI     | KCXJI   |         |
| NSP  | 5   | Warranty Card                   | ARY1051   | ARY1075 |         |
|      | 8   | Operating Instructions (French) | Not used  | ARC7141 |         |

# VSX-D606S

## 2.2 EXTERIOR





# VSX-D606S

## (1) PARTS LIST

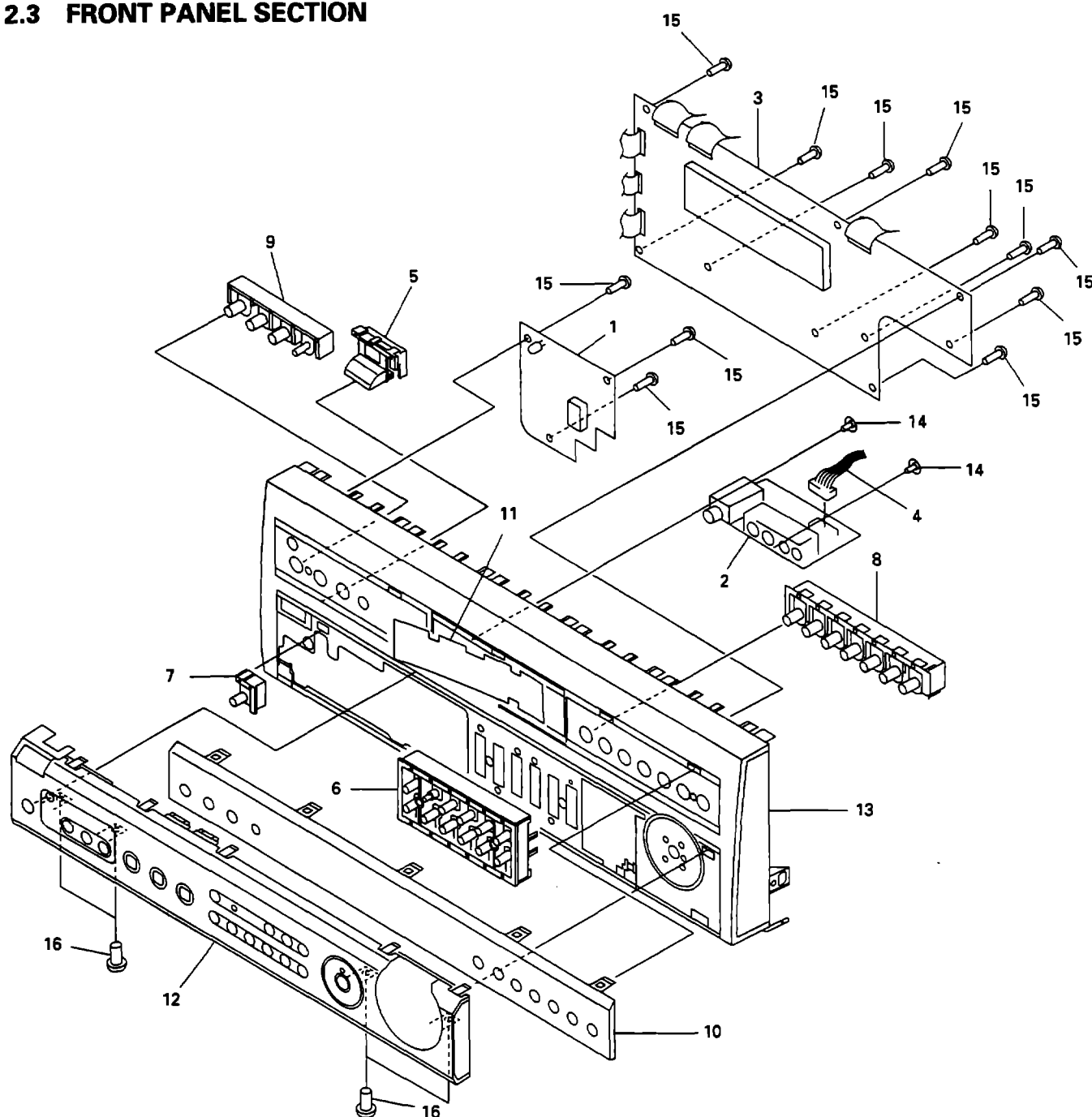
| Mark | No. | Description                | Parts No.              | Mark | No. | Description       | Parts No.    |
|------|-----|----------------------------|------------------------|------|-----|-------------------|--------------|
| NSP  | 1   | INPUT ASSY                 | AWZ8495                |      | 51  | Screw             | BBZ30P200FMC |
|      | 2   | MOS FET ASSY               | AWZ8497                |      | 52  | .....             |              |
|      | 3   | TRANS ASSY                 | AWZ8496                | NSP  | 53  | Binder            | ZCA-BK1      |
|      | 4   | REG.1 ASSY                 | AWZ8507                |      | 54  | Screw             | ABA7008      |
|      | 5   | R/C AMP ASSY               | AWZ8504                |      | 55  | Screw             | ABA-298      |
| NSP  | 6   | FM/AM TUNER MODULE         | AXQ7219                |      | 56  | Screw             | ABA1147      |
|      | 7   | PRIMARY ASSY               | AWZ8865                | NSP  | 57  | DIR RESET SW ASSY | AWX7048      |
|      | 8   | VIDEO/SR ASSY              | AWZ8509                | NSP  | 58  | SPACER            | AEC7090      |
|      | 9   | VOLUME ASSY                | AWZ8508                |      |     |                   |              |
|      | 10  | R/C SPEAKER ASSY           | AWZ8505                |      |     |                   |              |
|      | 11  | REG.2 ASSY                 | AWZ8498                |      |     |                   |              |
| △    | 12  | DOLBY DIGITAL ASSY         | AWX7036                |      |     |                   |              |
| △    | 13  | Transistor                 | 2SA1962                |      |     |                   |              |
| △    | 14  | Transistor                 | 2SC5242                |      |     |                   |              |
| △    | 15  | Power Transformer (AC120V) | ATS7161                |      |     |                   |              |
| △    | 16  | Fuse (FU3-FU5 : 1.6A)      | REK1077                |      |     |                   |              |
| △    | 17  | Fuse (FU1 : 6.3A)          | REK1085                |      |     |                   |              |
| △    | 18  | AC Power Cord              | PDG1015                |      |     |                   |              |
|      | 19  | FET Plate                  | ANG7124                |      |     |                   |              |
|      | 20  | Leg Assy                   | AMR2634                |      |     |                   |              |
|      | 21  | Leg Assy                   | AMR2633                |      |     |                   |              |
|      | 22  | Chassis                    | ANA7052                |      |     |                   |              |
|      | 23  | Rear Panel                 | See Contrast table (2) |      |     |                   |              |
|      | 24  | Bonnet Case                | ANE7136                |      |     |                   |              |
|      | 25  | Radiator                   | ANH7050                |      |     |                   |              |
| NSP  | 26  | Shield Case                | ANK7026                |      |     |                   |              |
|      | 27  | Bushing                    | AEC1402                |      |     |                   |              |
| NSP  | 28  | Cushion                    | AEB7076                |      |     |                   |              |
|      | 29  | PCB Support                | AEC1581                |      |     |                   |              |
|      | 30  | PCB Support                | AEC7006                |      |     |                   |              |
|      | 31  | PCB Support                | AEC7056                |      |     |                   |              |
|      | 32  | Sheet                      | AEE1028                |      |     |                   |              |
|      | 33  | Sheet                      | AEE7010                |      |     |                   |              |
|      | 34  | PCB Mold                   | AMR2533                |      |     |                   |              |
|      | 35  | Cord Stopper               | CM-22C                 |      |     |                   |              |
| NSP  | 36  | Clamper                    | RNE1277                |      |     |                   |              |
|      | 37  | Washer                     | VEC1254                |      |     |                   |              |
|      | 38  | Round Knob L               | AAB7082                |      |     |                   |              |
|      | 39  | Round Knob S               | AAB7106                |      |     |                   |              |
|      | 40  | Jog Knob                   | AAB7048                |      |     |                   |              |
|      | 41  | Trans Flame                | ANG7140                |      |     |                   |              |
|      | 42  | Name Plate                 | PAM1608                |      |     |                   |              |
| NSP  | 43  | Cord with Plug (J105)      | DE012CD0               |      |     |                   |              |
| NSP  | 44  | Cushion                    | AEB7081                |      |     |                   |              |
|      | 45  | Screw                      | ABA1037                |      |     |                   |              |
|      | 46  | PCB Stopper                | ANG7136                |      |     |                   |              |
|      | 47  | ISO Plate                  | ANG7141                |      |     |                   |              |
|      | 48  | Screw                      | ABA7019                |      |     |                   |              |
|      | 49  | .....                      |                        |      |     |                   |              |
|      | 50  | Screw                      | BBZ30P080FZK           |      |     |                   |              |

## (2) CONTRAST TABLE

VSX-D606S/KUXJI and KCXJI have the same construction except for the following :

| Mark | No. | Srmbol & Description | Part No.  |         | Remarks |
|------|-----|----------------------|-----------|---------|---------|
|      |     |                      | VSX-D606S |         |         |
|      |     |                      | KUXJI     | KCXJI   |         |
|      | 23  | Rear Panel           | ANC7480   | ANC7522 |         |

## 2.3 FRONT PANEL SECTION

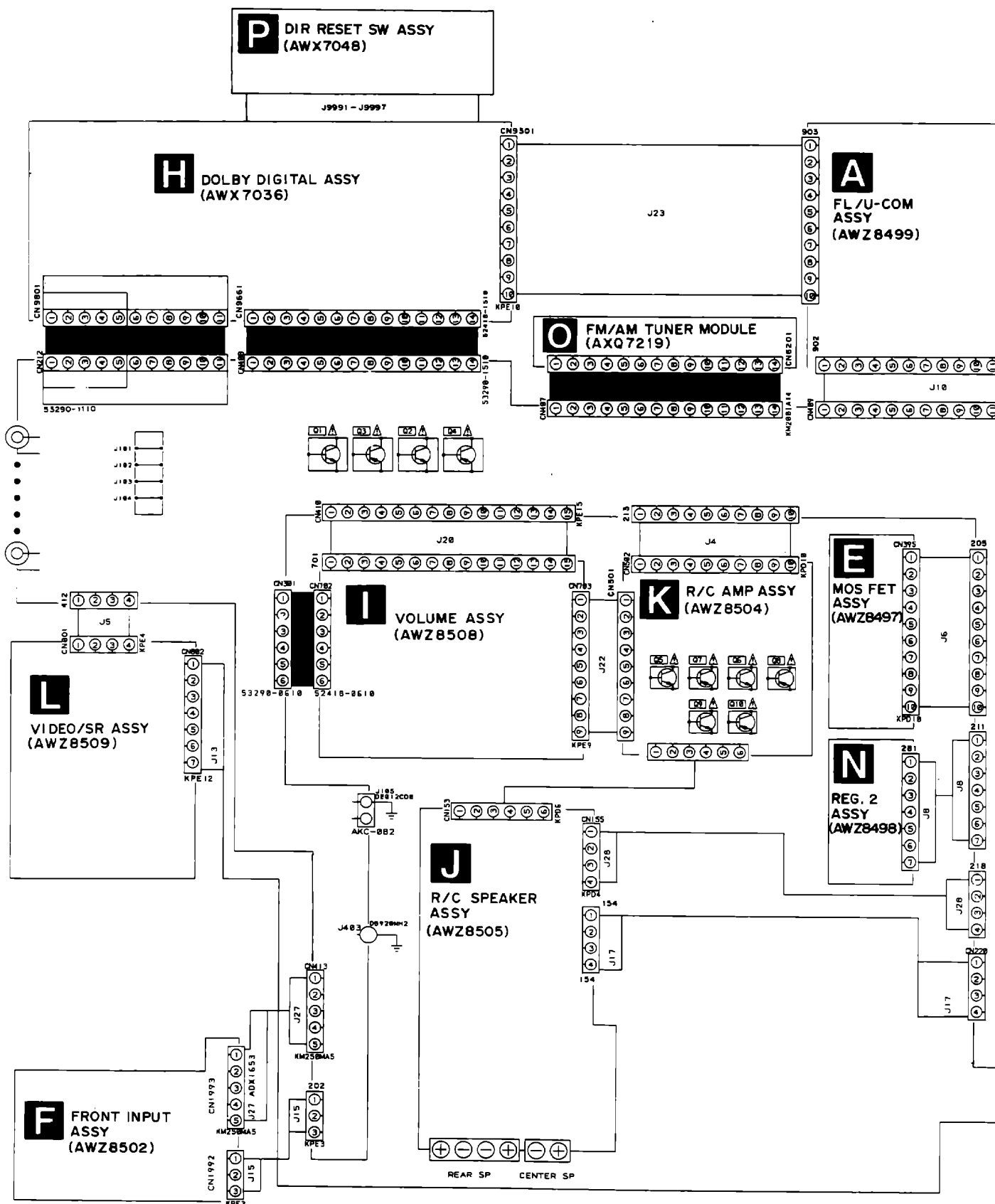


## • PARTS LIST

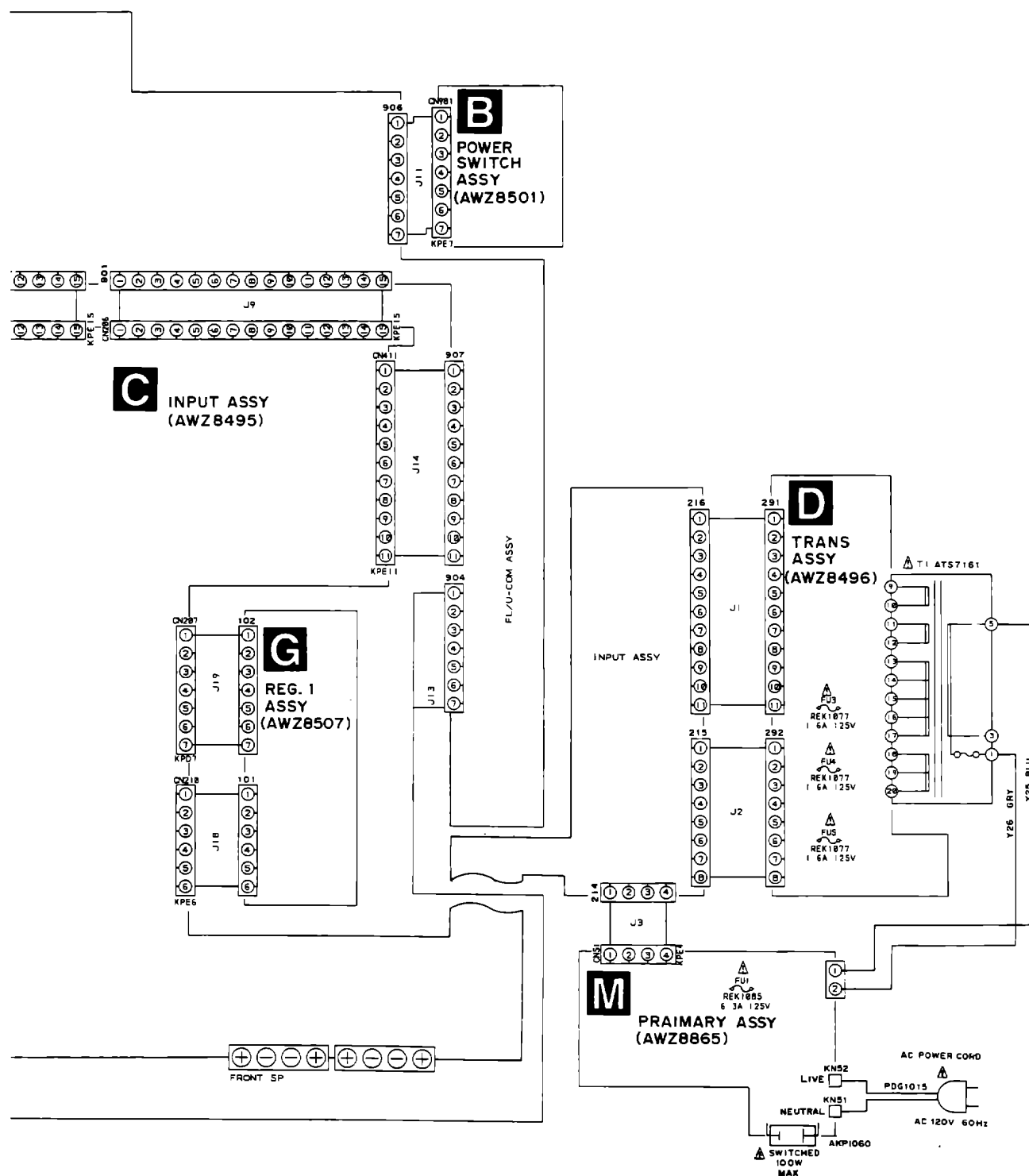
| Mark | No. | Description       | Parts No. | Mark | No.         | Description  | Parts No. |
|------|-----|-------------------|-----------|------|-------------|--------------|-----------|
| NSP  | 1   | Power Switch ASSY | AWZ8501   | 11   | FL Filter   | AAK7294      |           |
| NSP  | 2   | Front Input ASSY  | AWZ8502   | 12   | Sub Panel   | AAP7025      |           |
|      | 3   | FL U-COM ASSY     | AWZ8499   | 13   | Front Panel | AMB7391      |           |
| NSP  | 4   | Housing 5P Shield | ADX1653   | 14   | Screw       | ABA7009      |           |
|      | 5   | Power Button      | AAD7325   | 15   | Screw       | BPZ30P080FMC |           |
|      | 6   | Tuner Button      | AAD7326   | 16   | Screw       | BBZ30P080FZK |           |
|      | 7   | Input Button      | AAD7327   |      |             |              |           |
|      | 8   | Func. Button      | AAD7328   |      |             |              |           |
|      | 9   | SFC Button        | AAD7329   |      |             |              |           |
|      | 10  | FL Panel          | AAK7295   |      |             |              |           |

# 3. SCHEMATIC DIAGRAM

## 3.1 OVERALL CONNECTION DIAGRAM



**NOTE: When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**

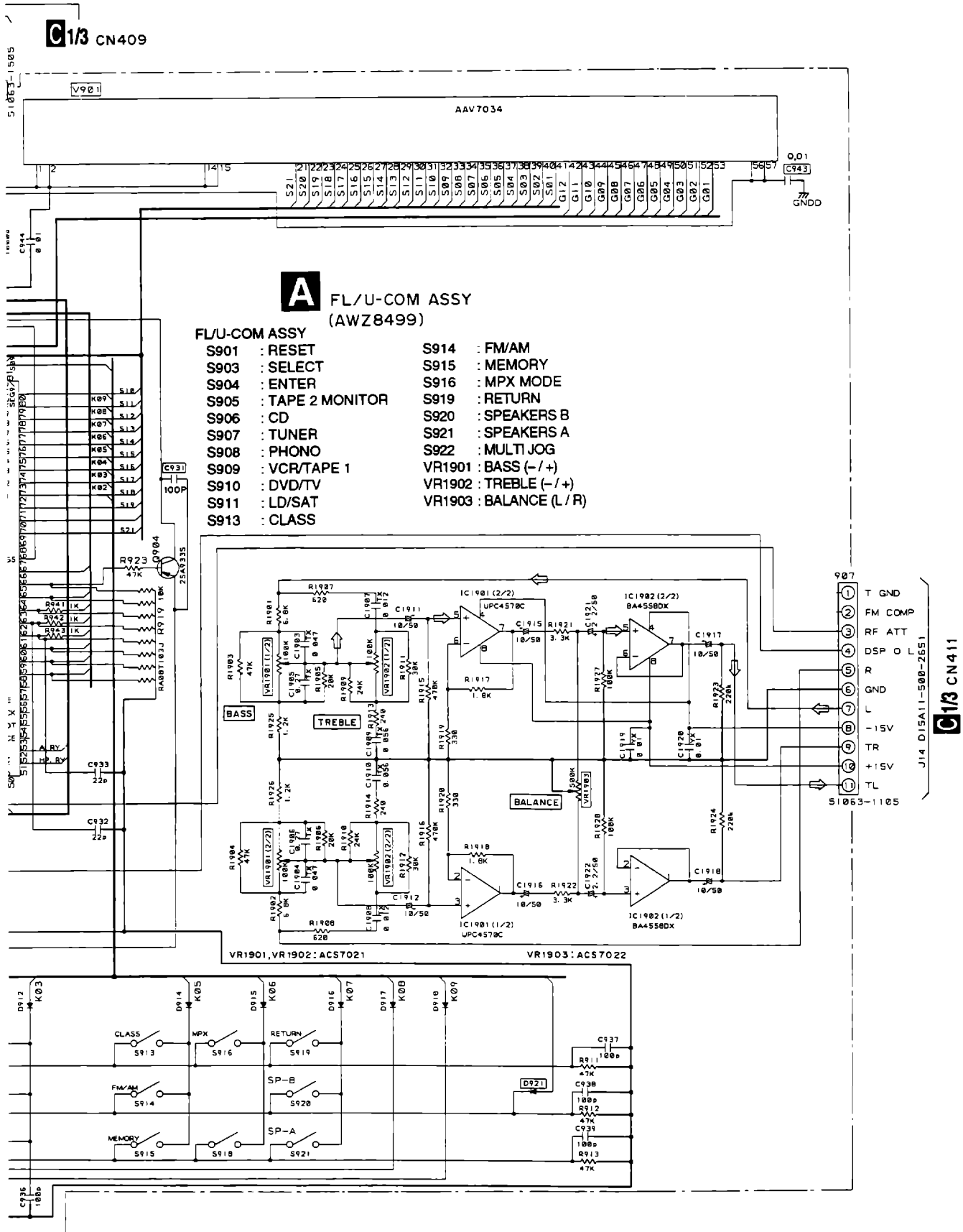


### 3.2 FL/U-COM ASSY AND POWER SWITCH ASSY



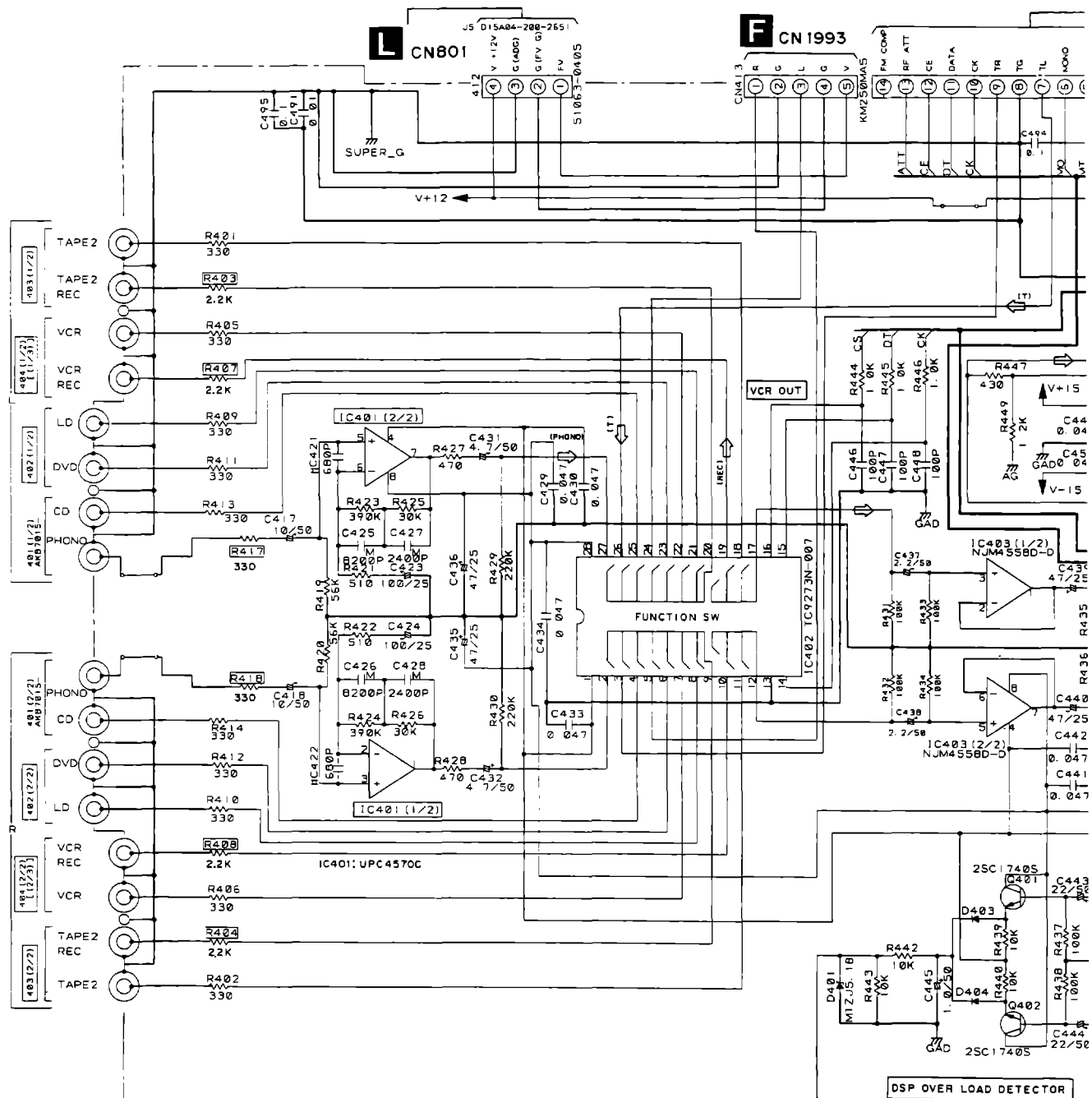
```
S984 : LOUDNESS
S985 : VIDEO INPUT
S986 : SIGNAL SELECT
```

⇒ AUDIO SIGNAL ROUTE



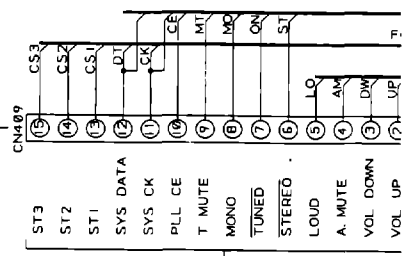
# VSX-D606S

## 3.3 INPUT ASSY (1/3)



**C1/3** INPUT ASSY (AWZ8495)

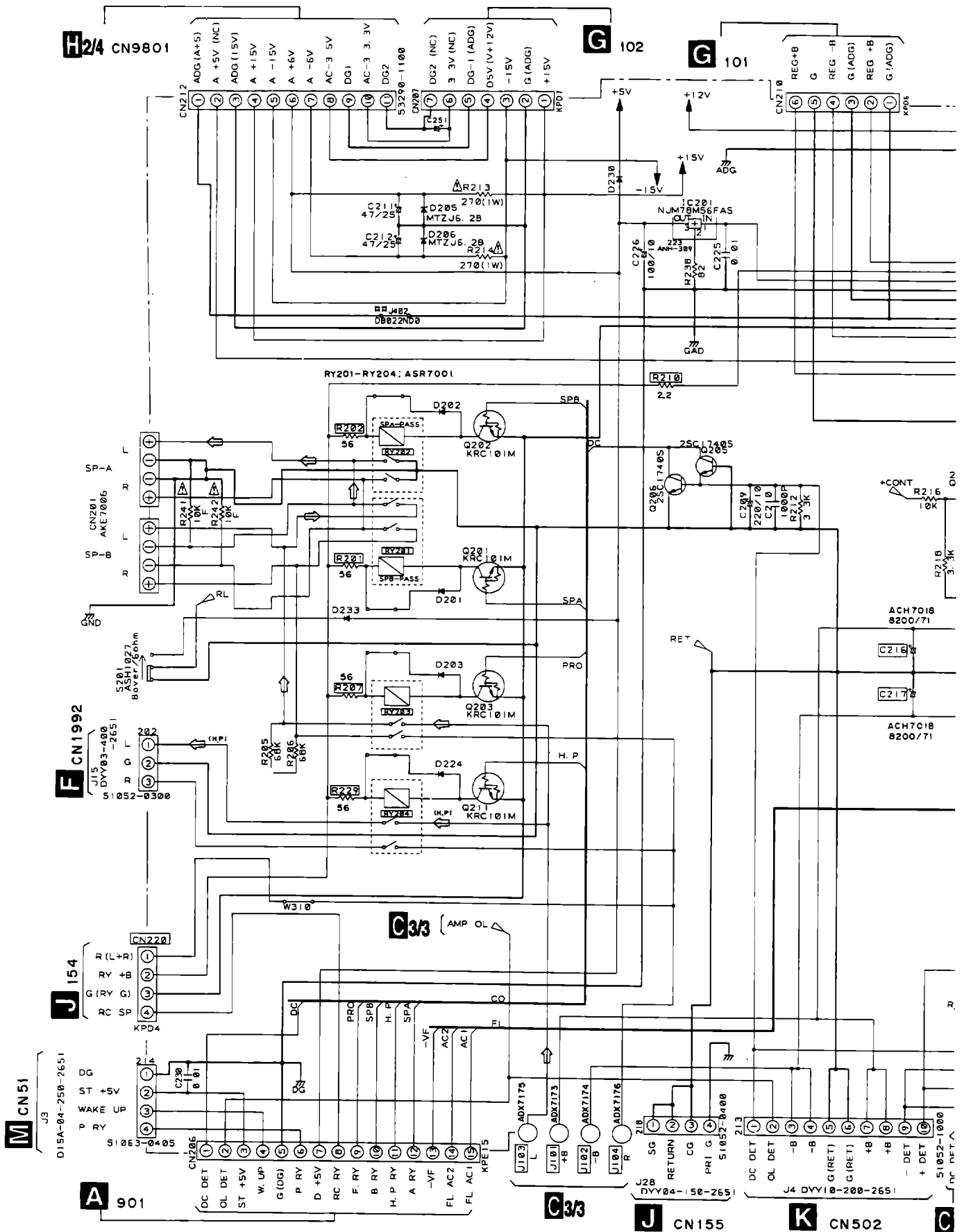
- ⇒: AUDIO SIGNAL ROUTE
- (SL)⇒: AUDIO SIGNAL ROUTE (REAR)
- (C)⇒: AUDIO SIGNAL ROUTE (CENTER)
- (SW)⇒: AUDIO SIGNAL ROUTE (SW)
- (T)⇒: AUDIO SIGNAL ROUTE (TUNER)
- (PHONO)⇒: AUDIO SIGNAL ROUTE (PHONO)
- (REC)⇒: AUDIO SIGNAL ROUTE (REC)





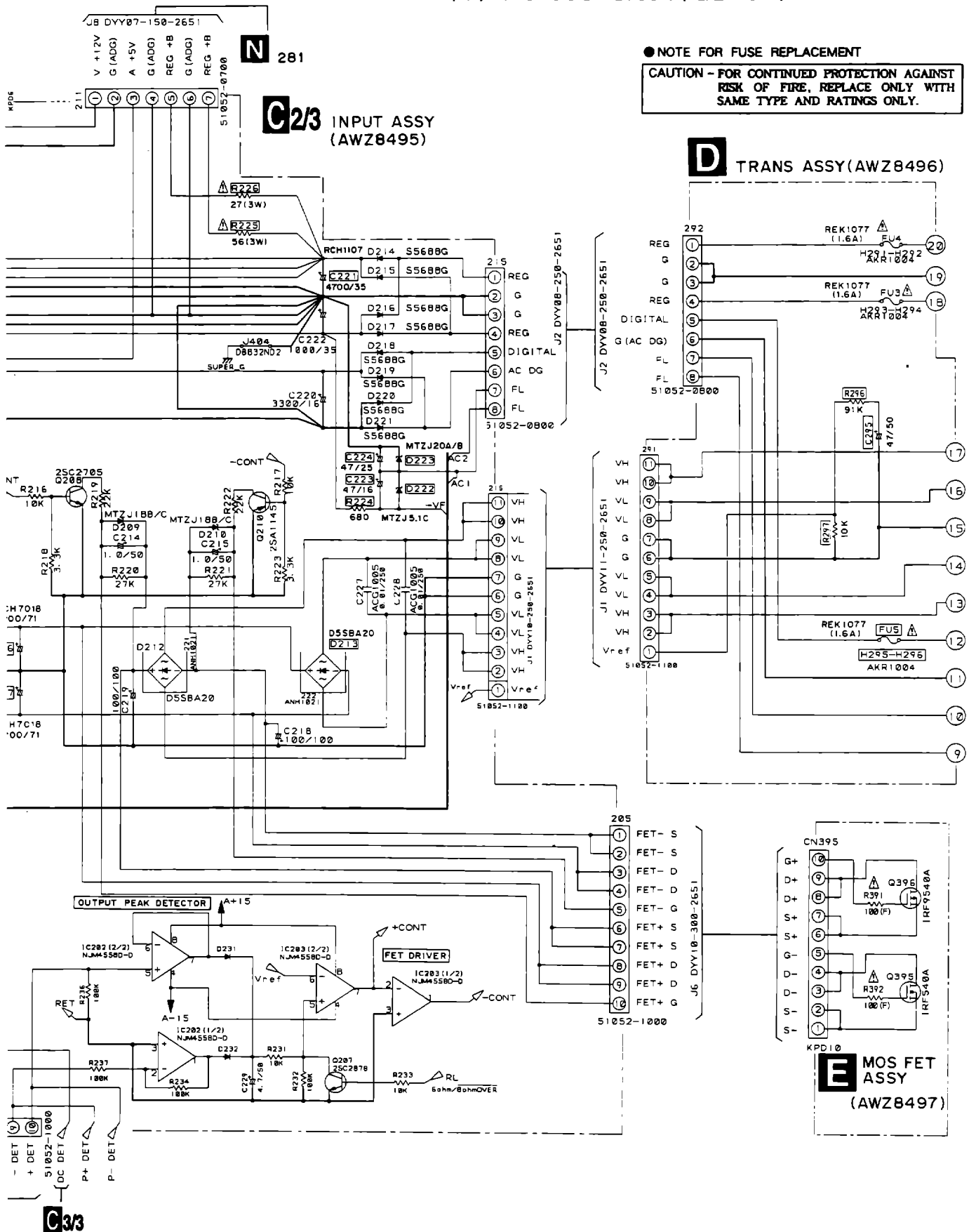
# VSX-D606S

## 3.4 INPUT ASSY (2/3), TRANS ASSY AND MOS FET ASSY

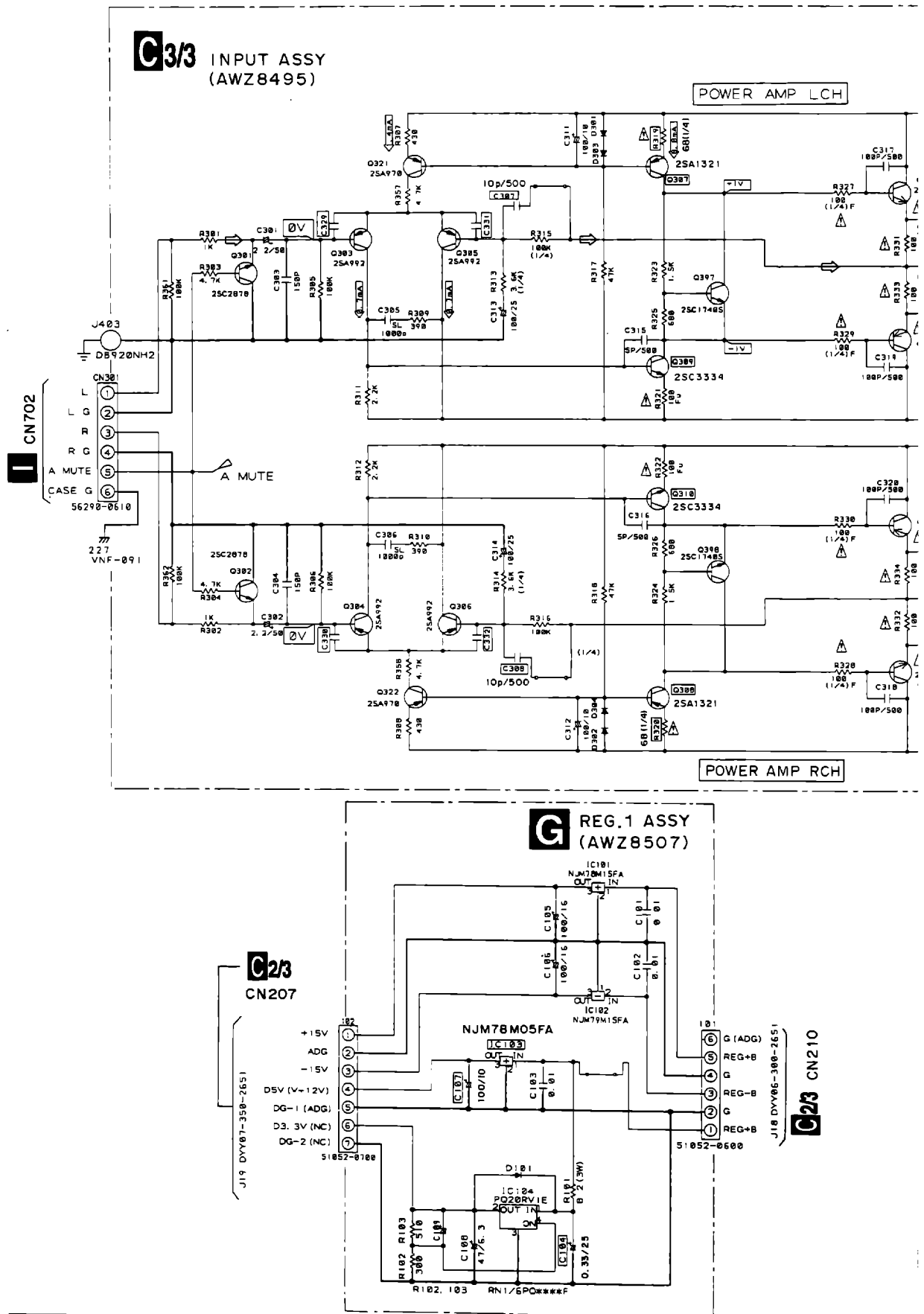


INPUT ASSY  
S201 : IMPEDANCE SELECTOR

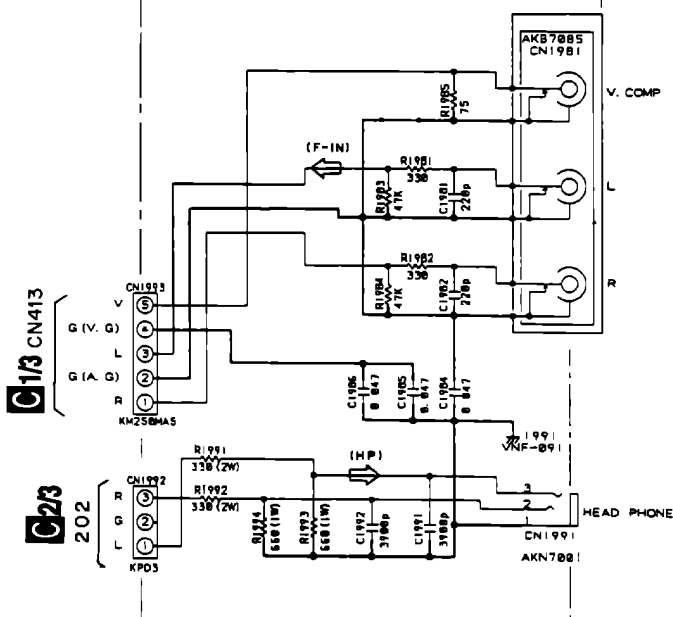
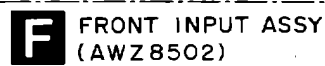
⇒: AUDIO SIGNAL ROUTE  
(H.P)⇒: AUDIO SIGNAL ROUTE (HEADPHONE)



## 3.5 INPUT ASSY (3/3), FRONT INPUT ASSY AND REG.1 ASSY



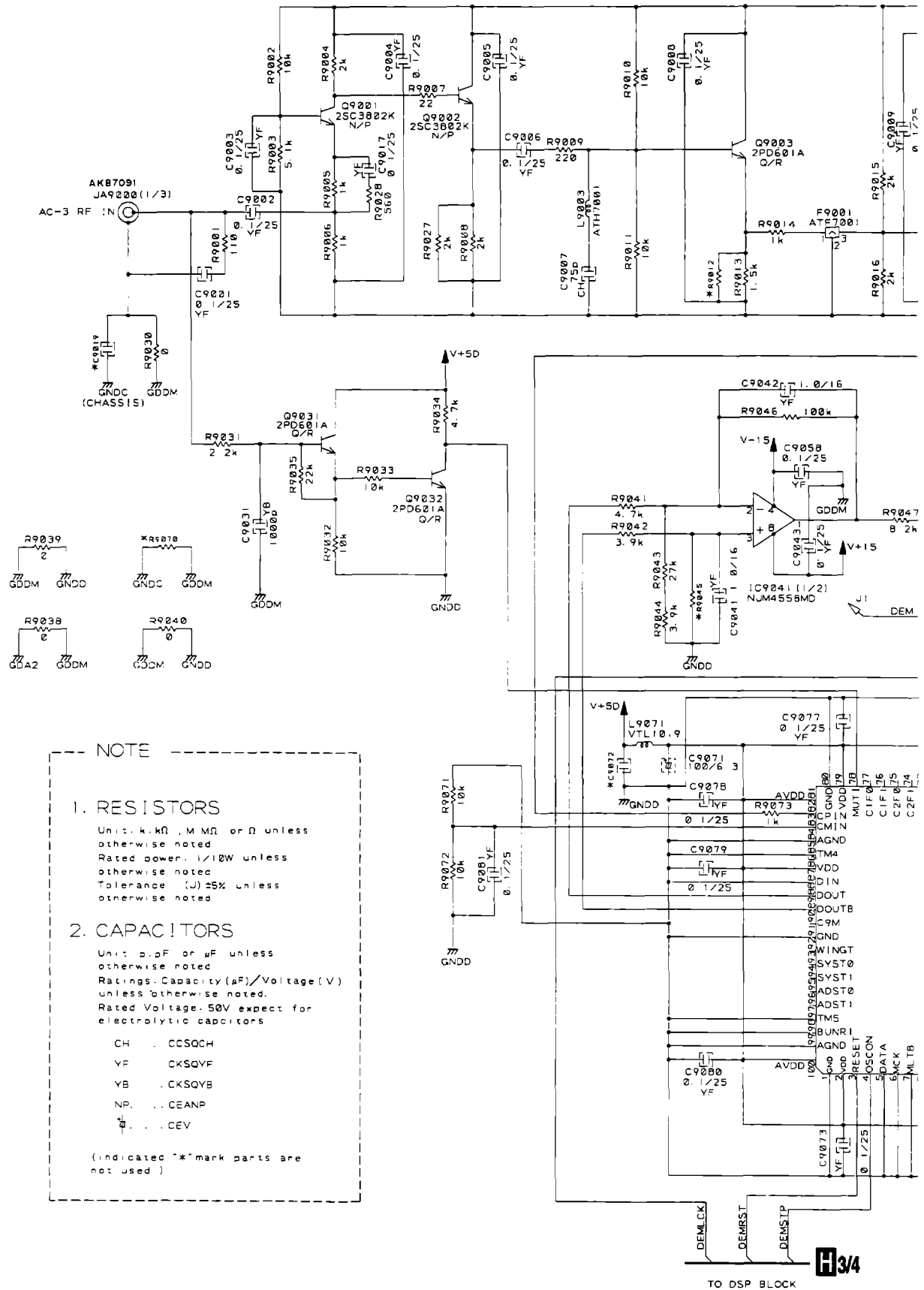
⇒: AUDIO SIGNAL ROUTE  
(H.P)⇒: AUDIO SIGNAL ROUTE (HEADPHONE)  
(F.IN)⇒: AUDIO SIGNAL ROUTE (F.IN)

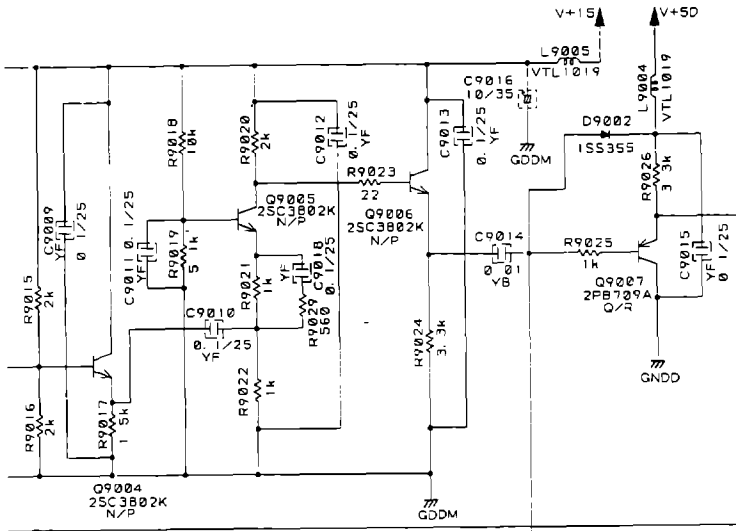


- Noted
- 1 Resistors  
Indicated in ohm 1/4W  
tolerance  $\pm 5\%$   
unless otherwise noted  
K Kohm , M Mohm  
F Non flammable type  
Fu Non flammable quick open type  
FL Non flammable type (RD1/4LMF\*\*\*J type)
  2. Capacitors  
Indicated in capacity ( $\mu\text{F}$ ) / voltage (V)  
unless otherwise noted  
p=pF  
Indication without voltage is 50V except  
electrolytic capacitor  
NL=CEANL<sup>-</sup> , TX=CFTXA<sup>-</sup>
  3. Diodes  
Other diodes (not noted) are 1SS252

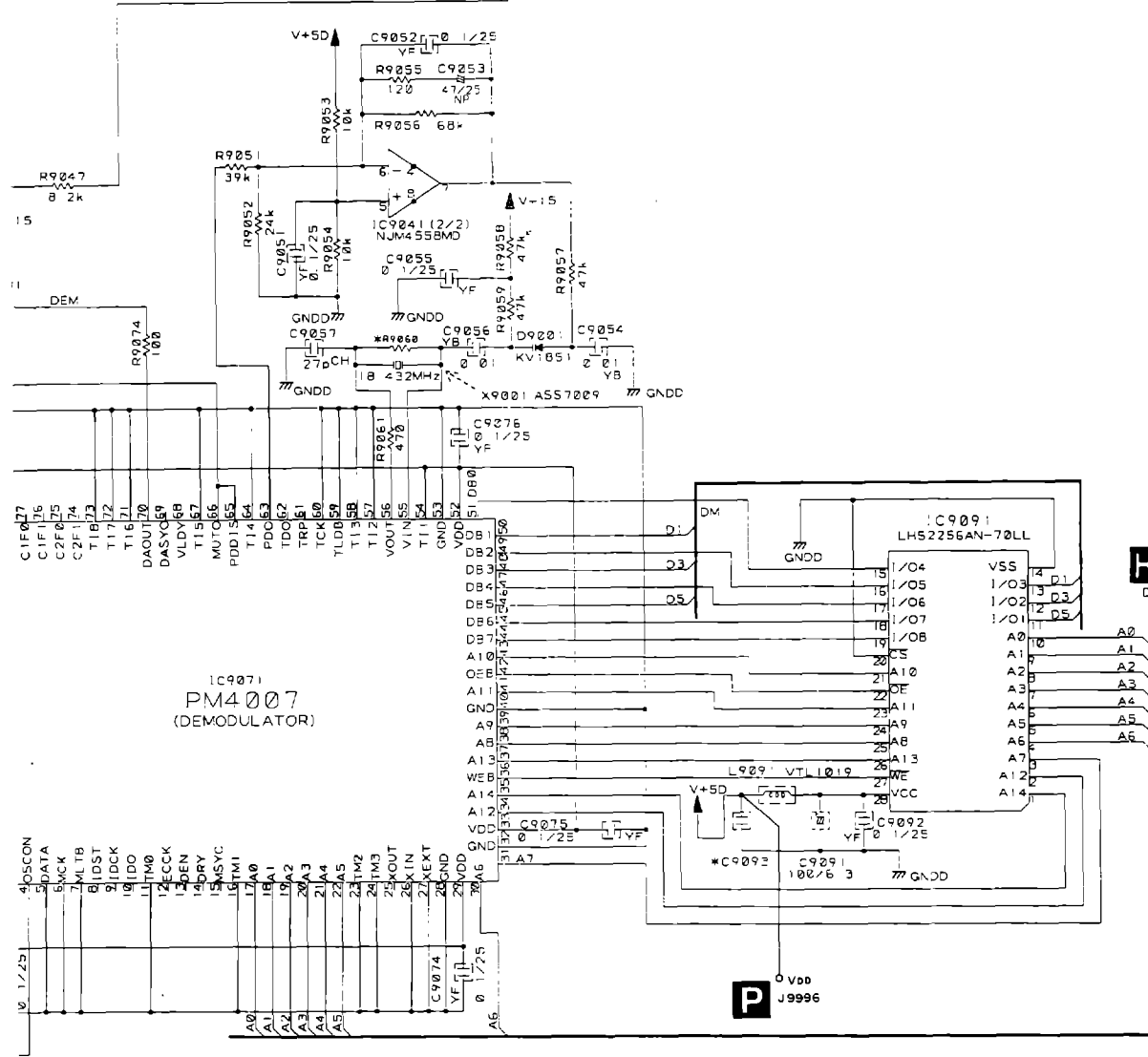
# VSX-D606S

## 3.6 DOLBY DIGITAL ASSY

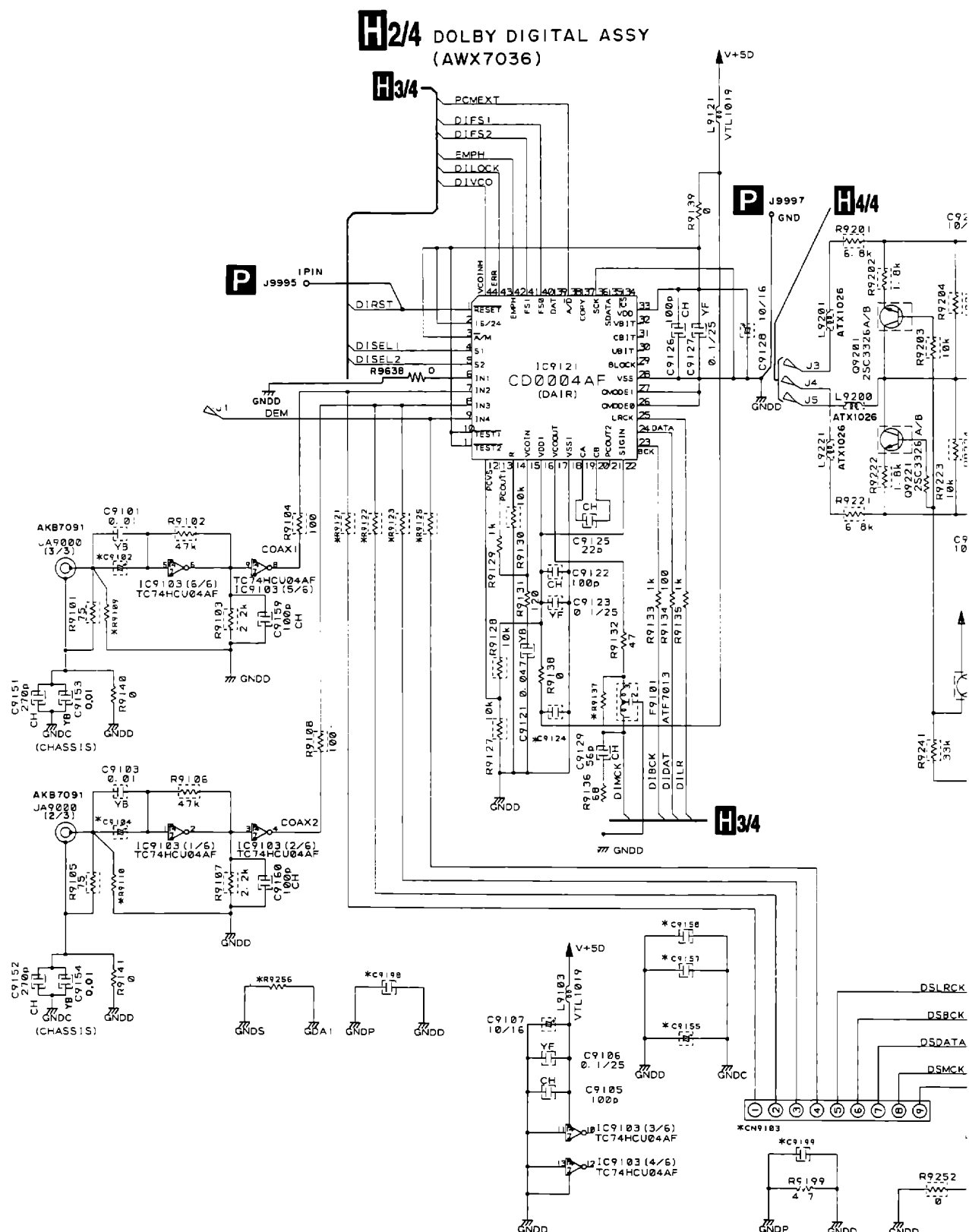


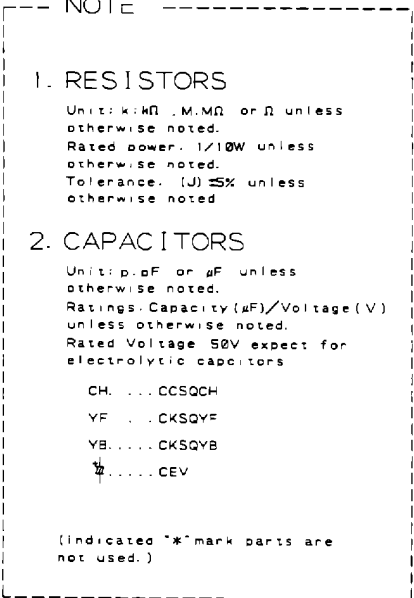


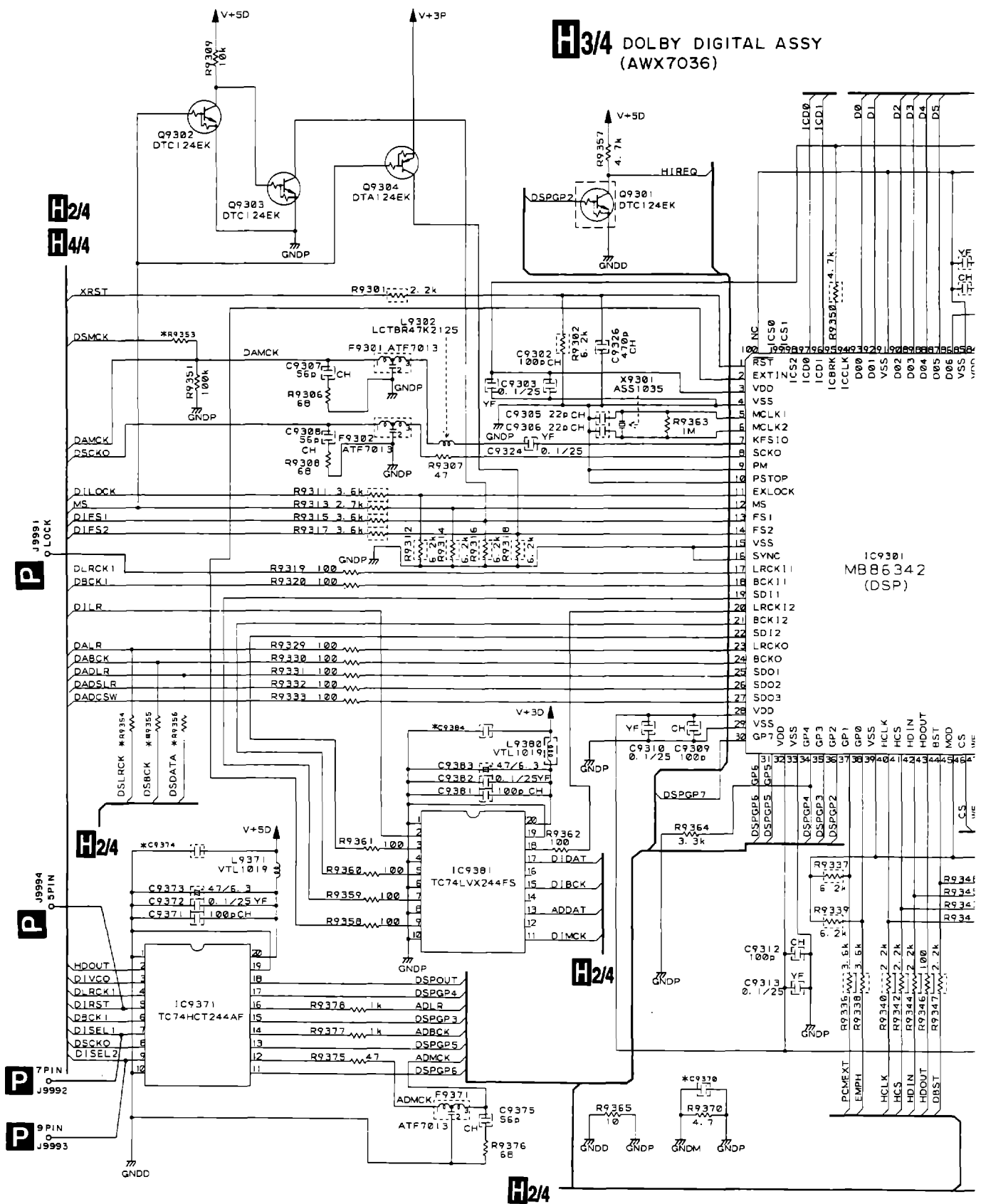
**1/4** DOLBY DIGITAL ASSY  
(AWX7036)



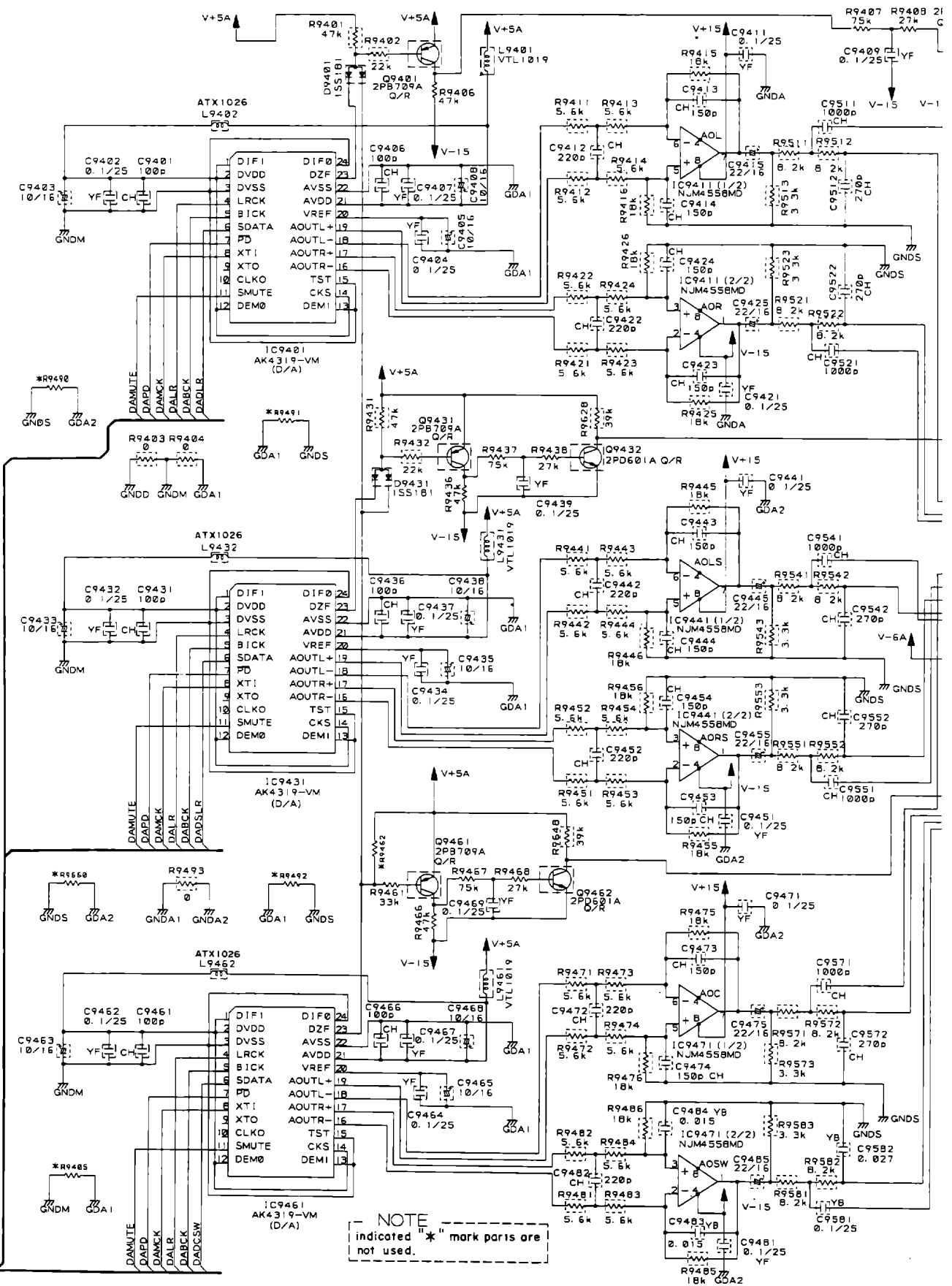
**3/4** DM



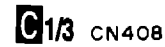






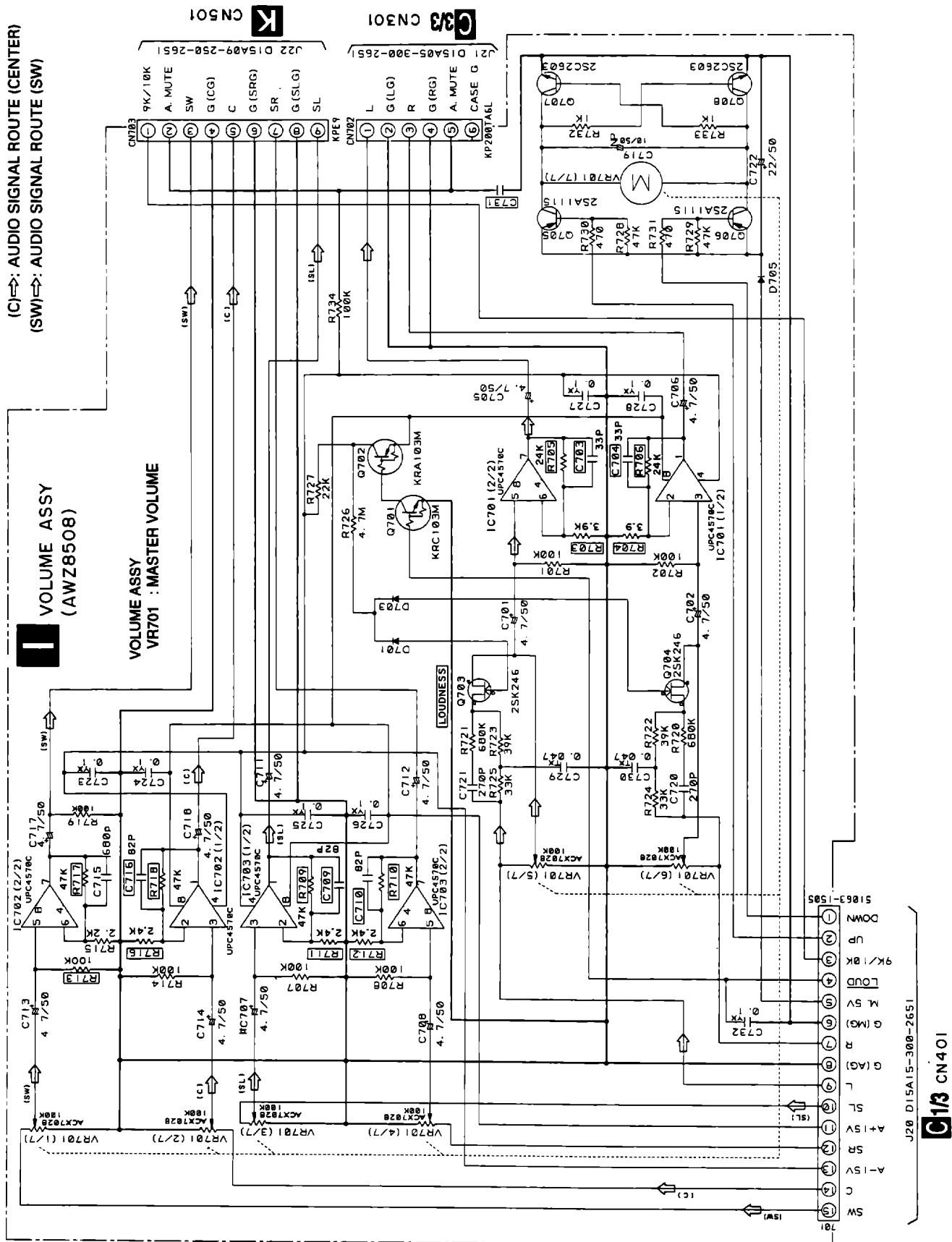


H3/4

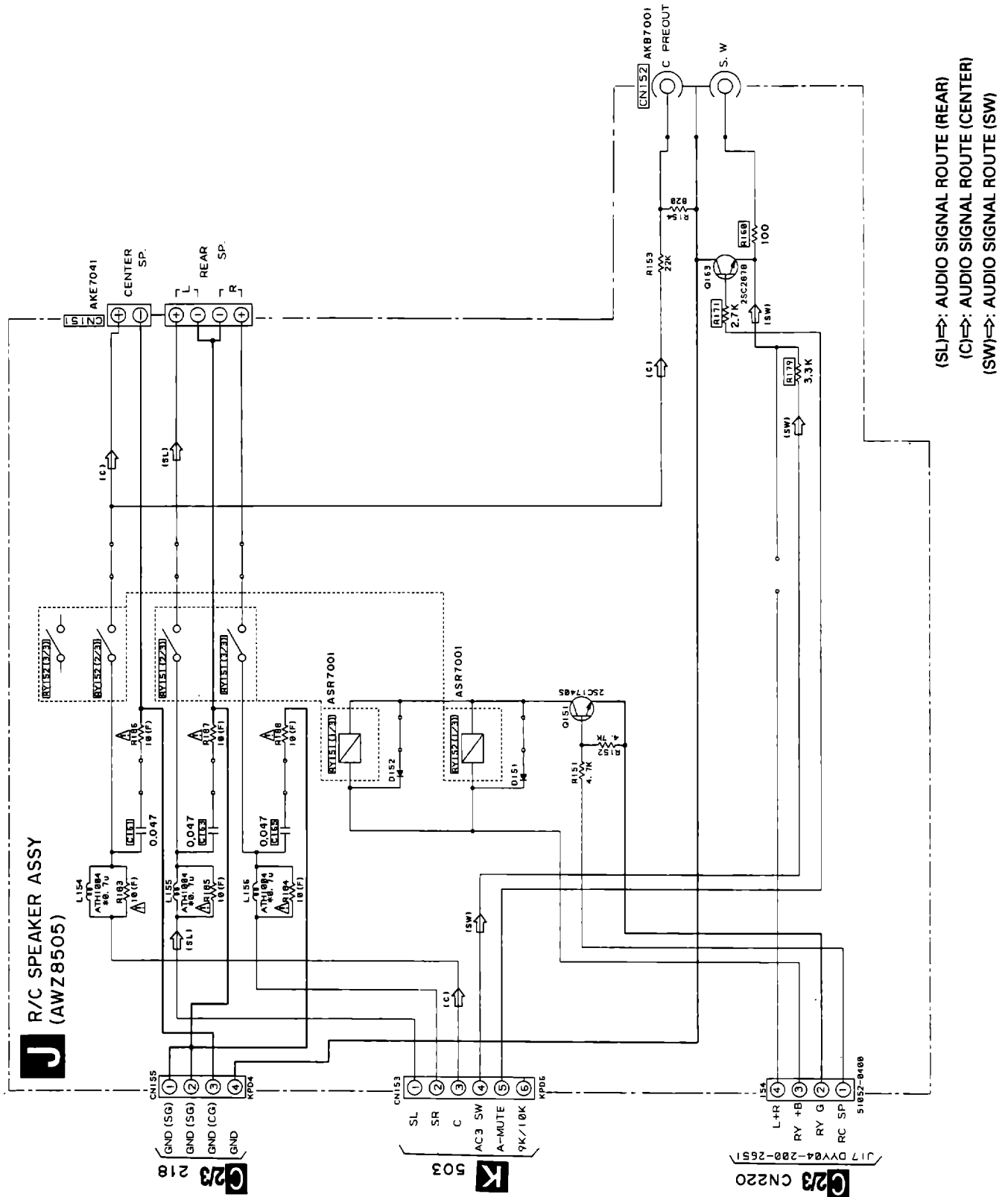


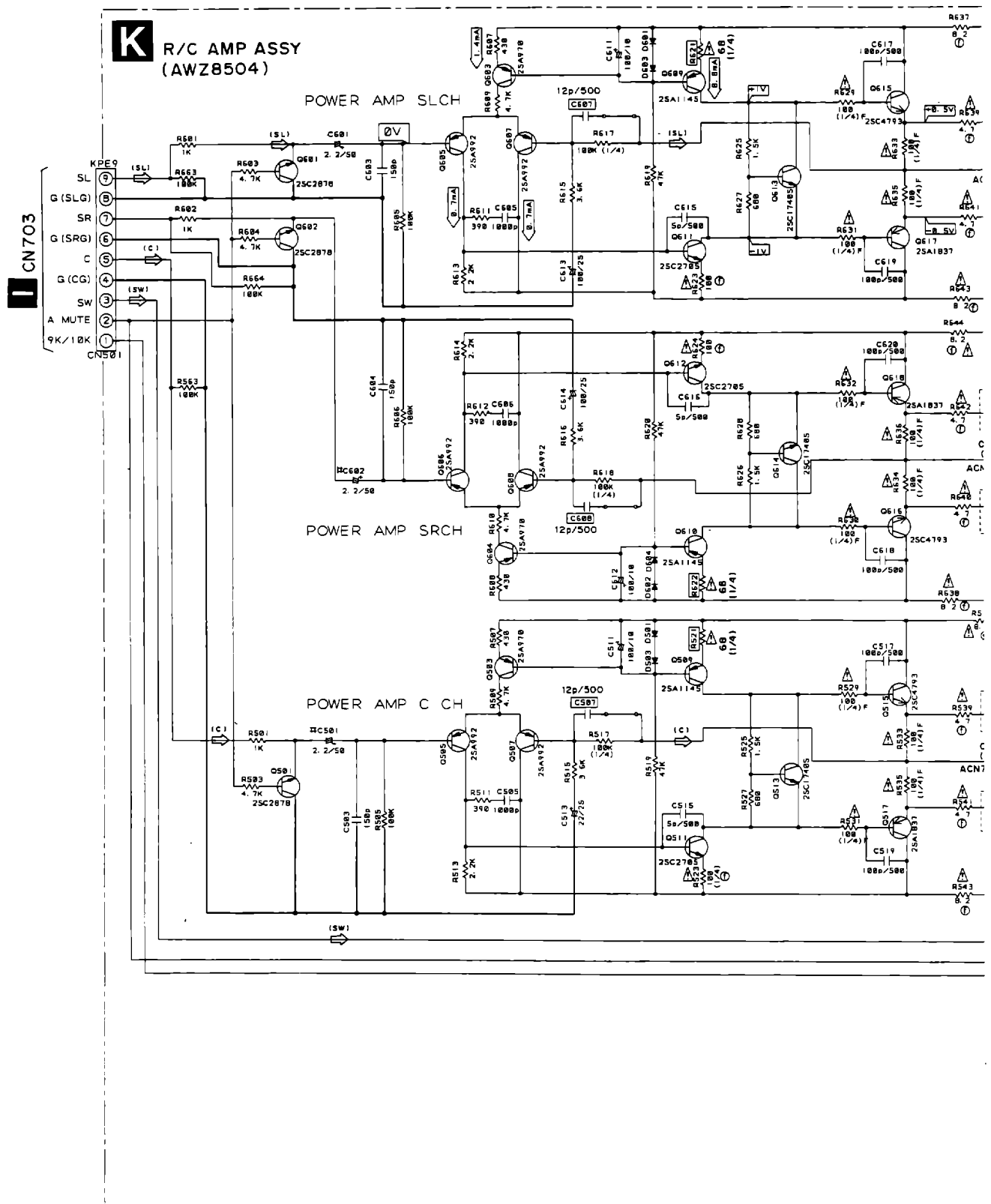
## 3.7 VOLUME ASSY

⇨ AUDIO SIGNAL ROUTE  
 (SL)⇨: AUDIO SIGNAL ROUTE (REAR)  
 (C)⇨: AUDIO SIGNAL ROUTE (CENTER)  
 (SW)⇨: AUDIO SIGNAL ROUTE (SW)



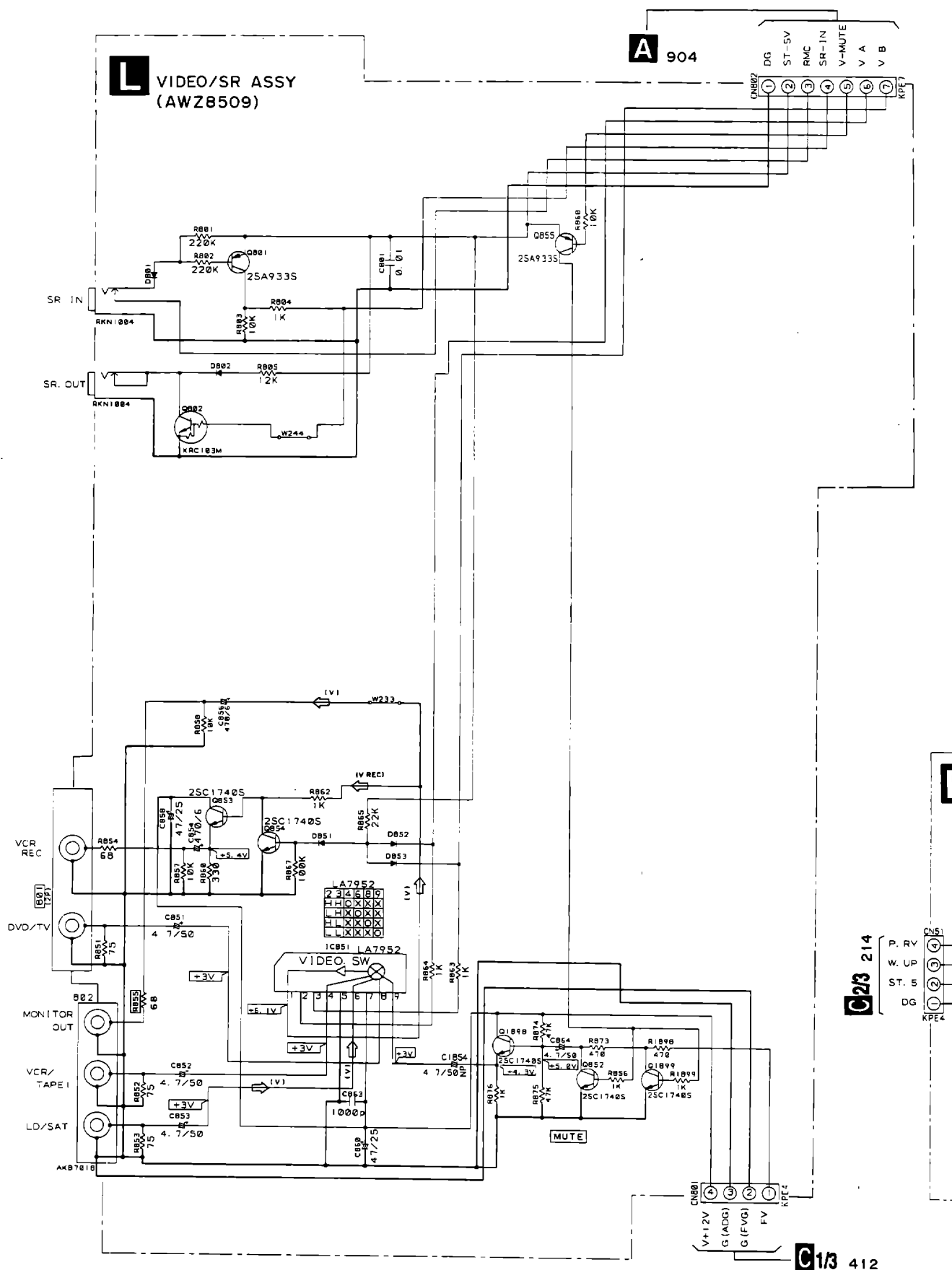
## 3.8 R/C SPEAKER ASSY



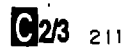




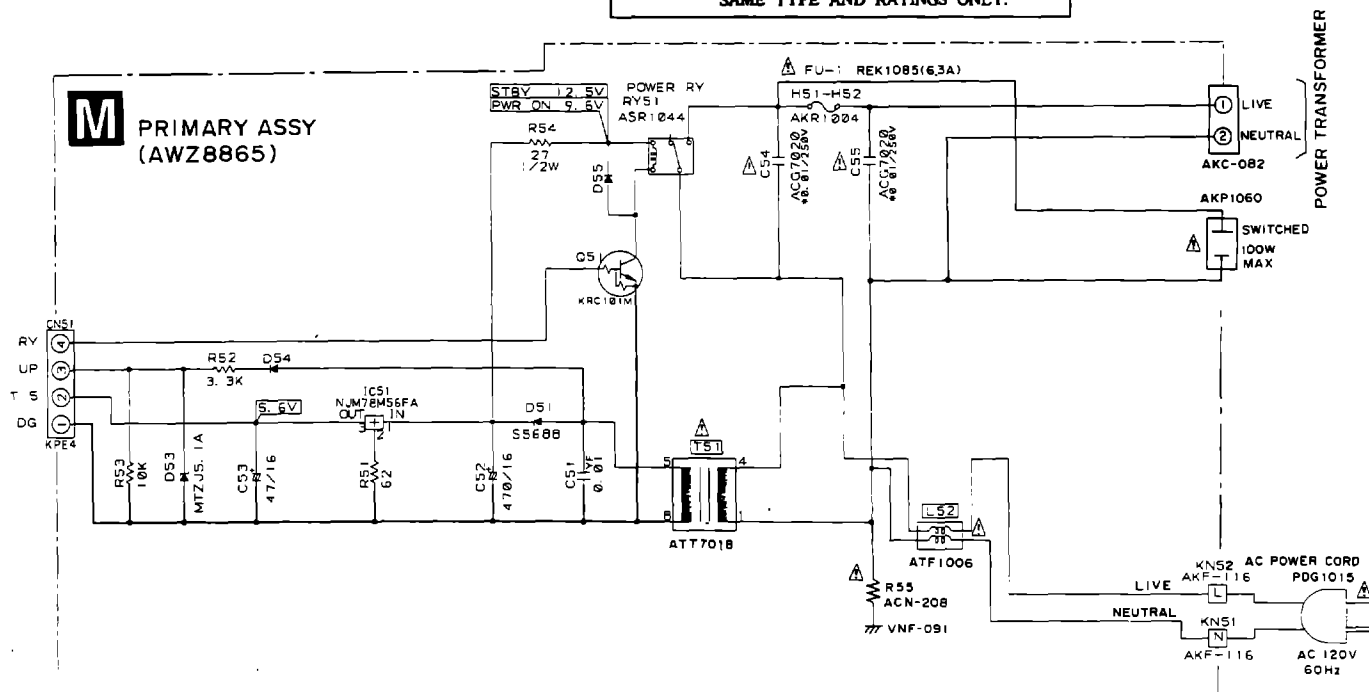
### 3.10 VIDEO/SR ASSY, PRIMARY ASSY AND REG.2 ASSY



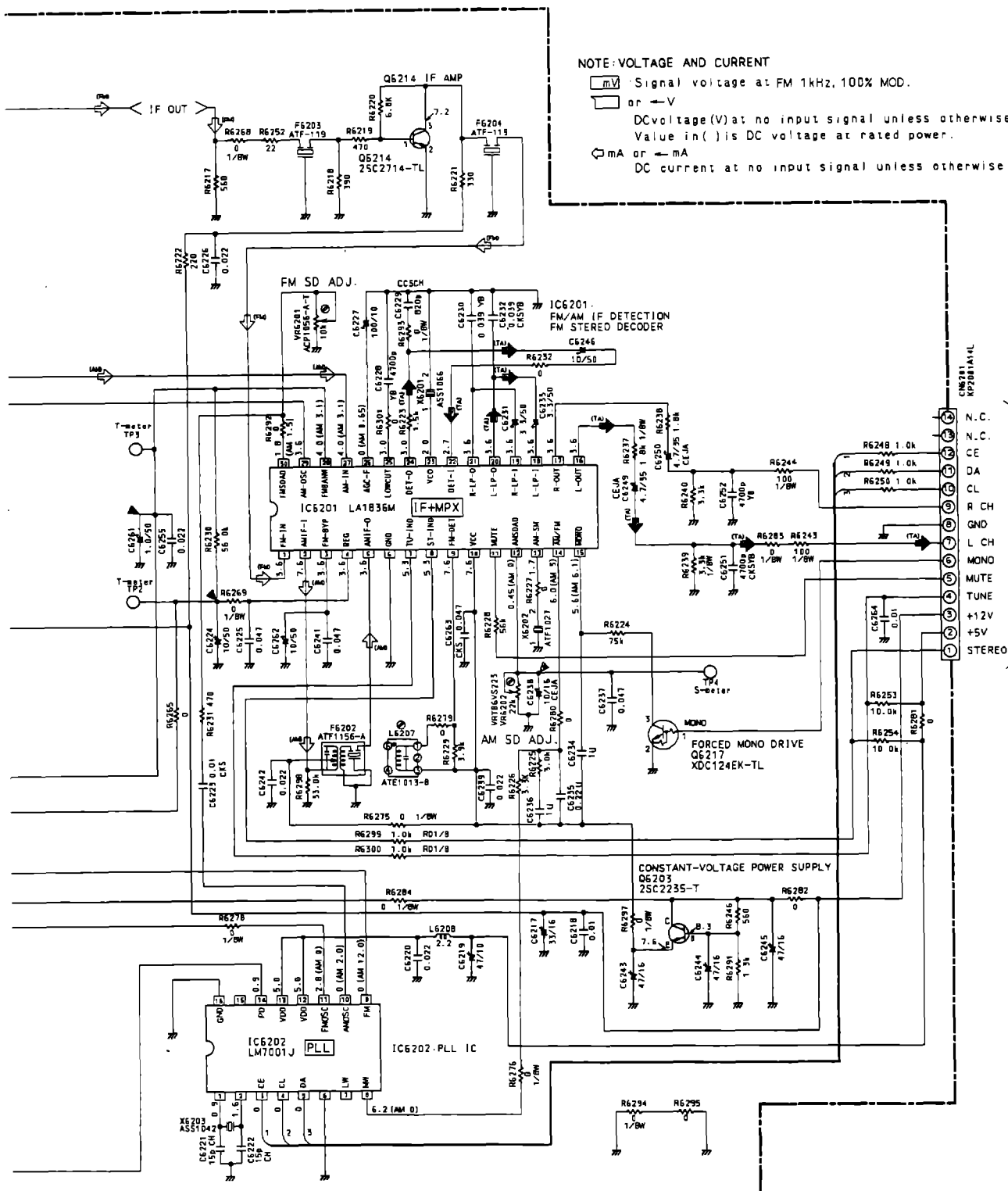
(V)⇒: VIDEO SIGNAL ROUTE  
(V.REC)⇒: VIDEO REC SIGNAL ROUTE



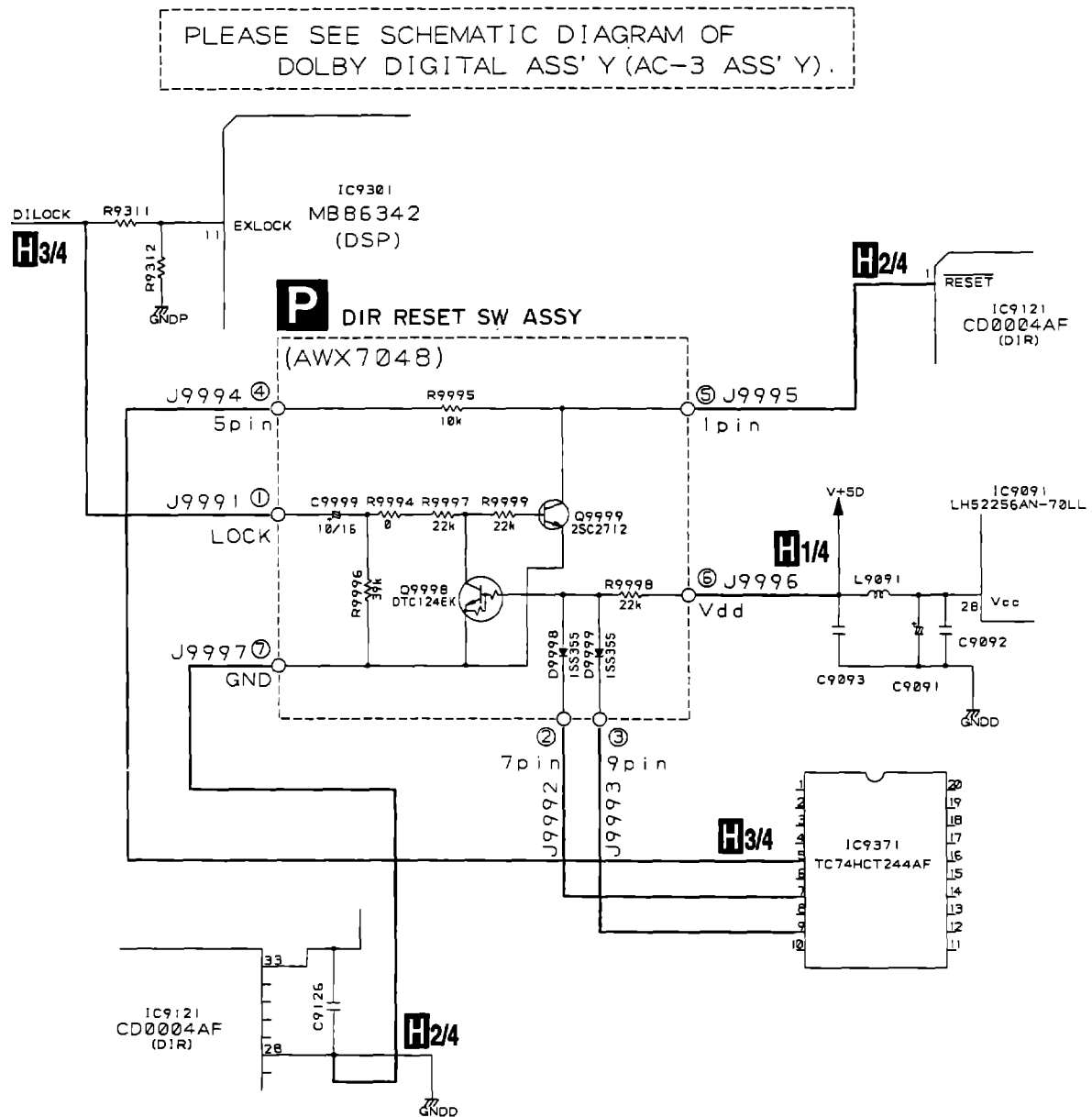
**CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.**







## 3.12 DIR RESET SW ASSY



### NOTE

#### 1. RESISTORS

Unit: k: k $\Omega$ , M: M $\Omega$  or  $\Omega$  unless otherwise noted.  
 Rated power: 1/10W unless otherwise noted.  
 Tolerance: (J)  $\pm 5\%$  unless otherwise noted.

#### 2. CAPACITORS

Unit: p: pF or  $\mu$ F unless otherwise noted.  
 Ratings: Capacity ( $\mu$ F)/Voltage (V) unless otherwise noted.  
 Rated Voltage: 50V except for electrolytic capacitors.

$\nabla$ .....CEV

#### 3. ALL JUMPER WIERS (J9991~J9997)

Connect to DOLBY DIGITAL ASS'Y (AC-3 ASS'Y)

ex.  $\left( \begin{matrix} \text{AWX7036-} \\ \text{AWX7037-} \end{matrix} \right)$

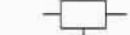
|         |                   |
|---------|-------------------|
| ① J9991 | ZWNH1571G28-0-12A |
| ② J9992 | ZWNH1571G28-1-05A |
| ③ J9993 | ZWNH1571G28-2-05A |
| ④ J9994 | ZWNH1571G28-3-05A |
| ⑤ J9995 | ZWNH1571G28-4-05A |
| ⑥ J9996 | ZWNH1571G28-5-05A |
| ⑦ J9997 | ZWNH1571G28-6-05A |

#### 4. PCB CONNECTION DIAGRAM

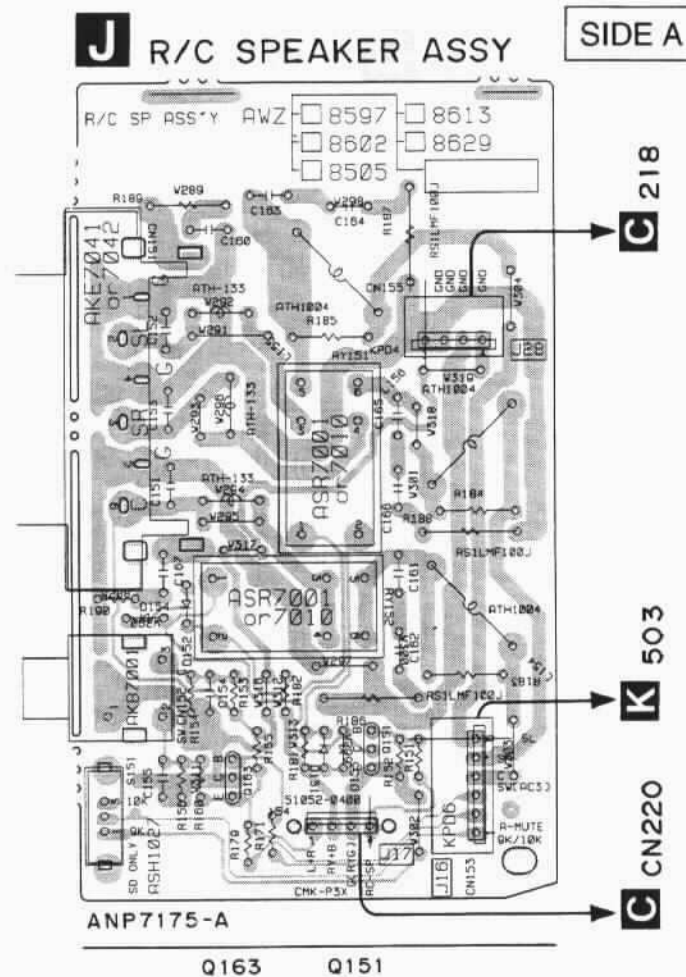
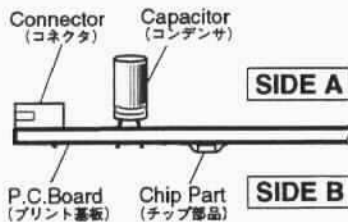
#### 4.1 R/C SPEAKER ASSY AND MOS FET ASSY

**NOTE FOR PCB DIAGRAMS:**

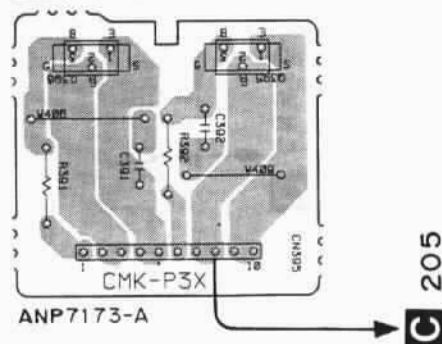
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

| 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. Viewpoint of PCB diagrams



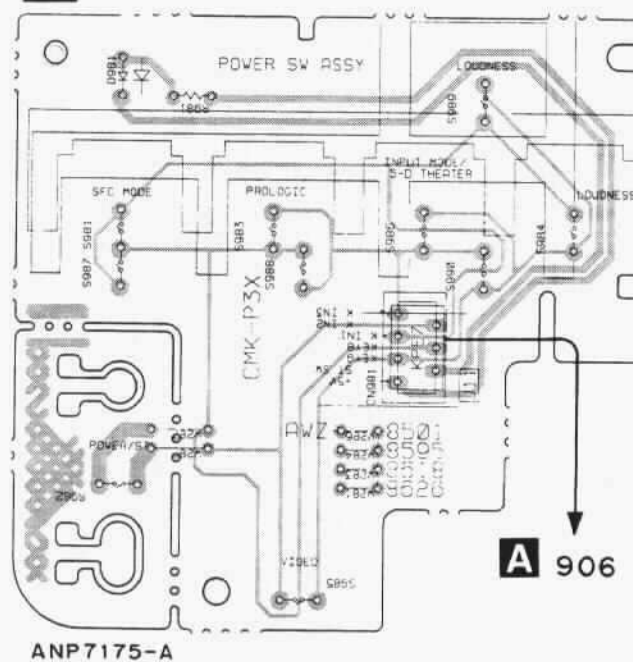
**E** MOS FET ASSY



# VSX-D606S

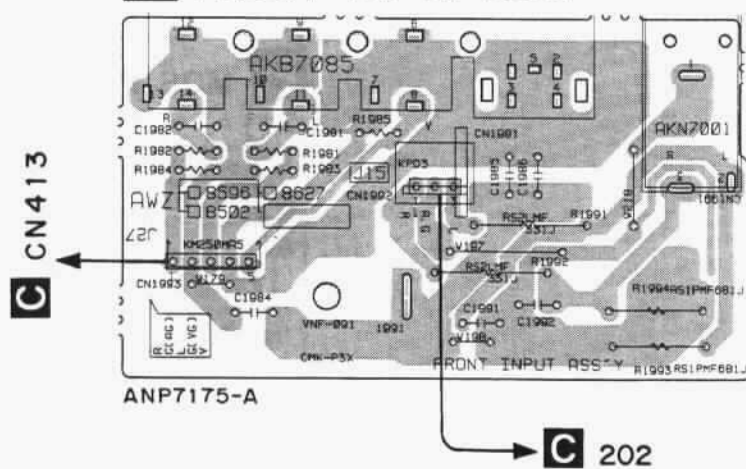
## 4.2 POWER SWITCH ASSY AND FRONT INPUT ASSY

### B POWER SW ASSY

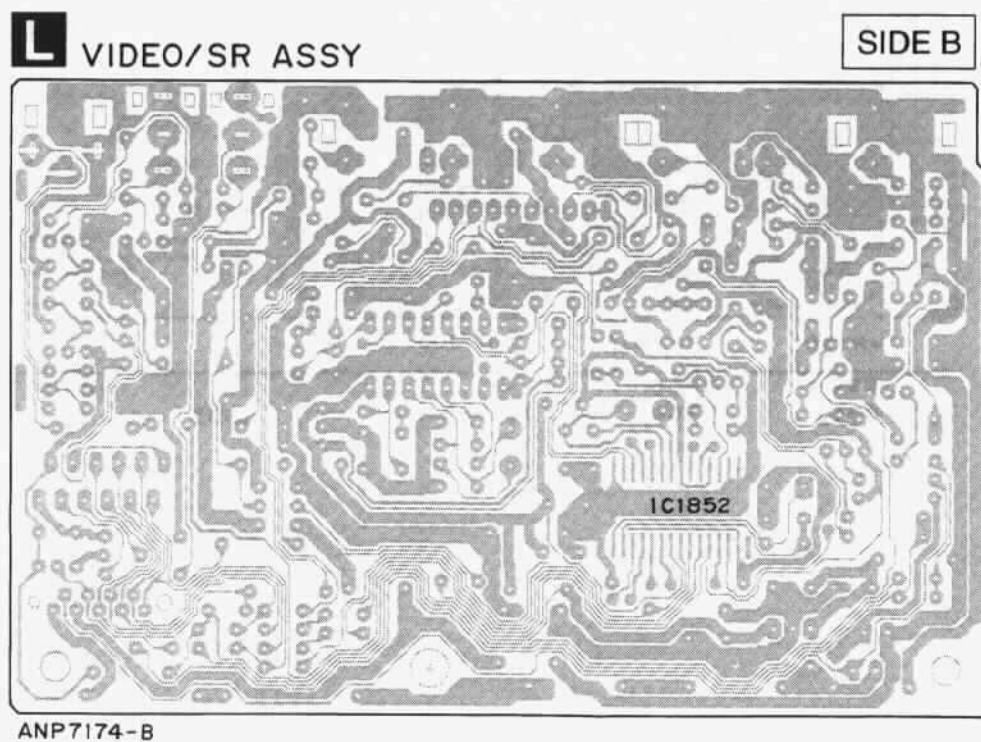
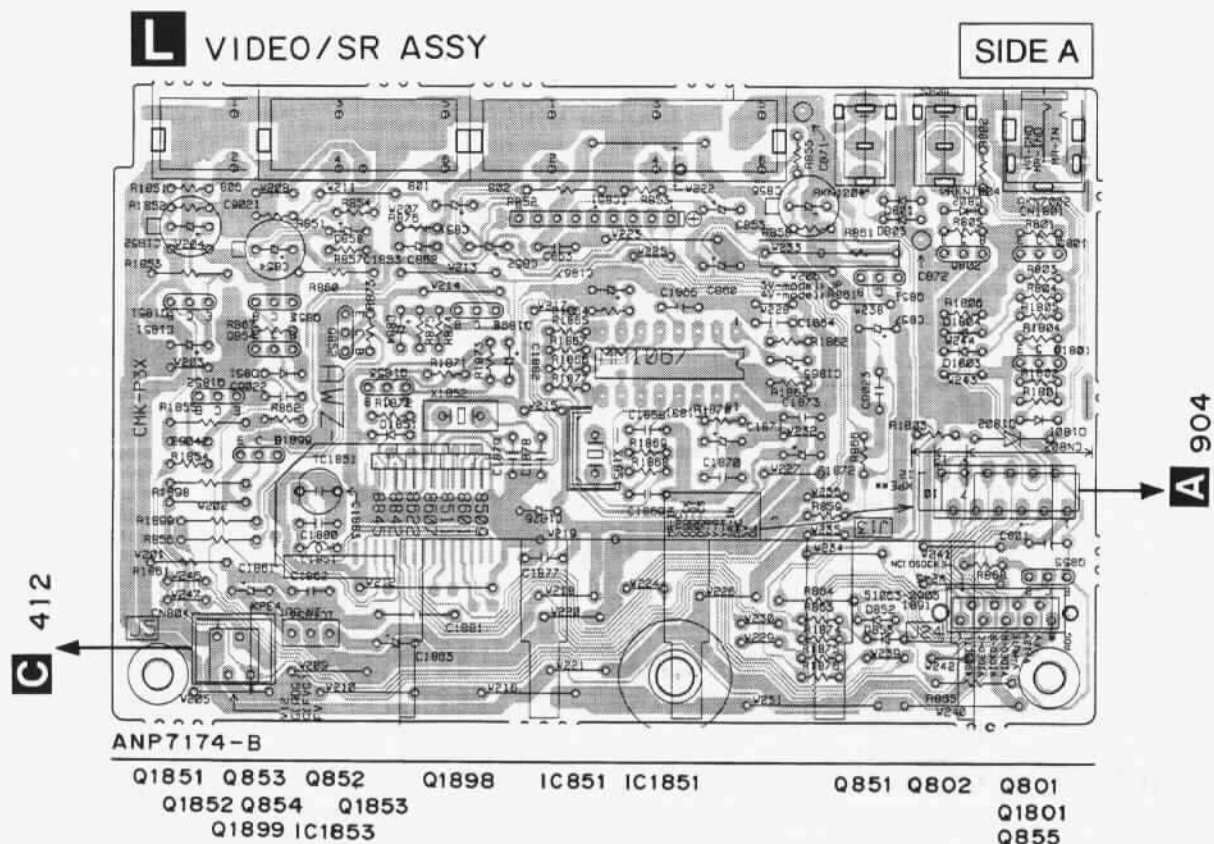


SIDE A

### F FRONT INPUT ASSY

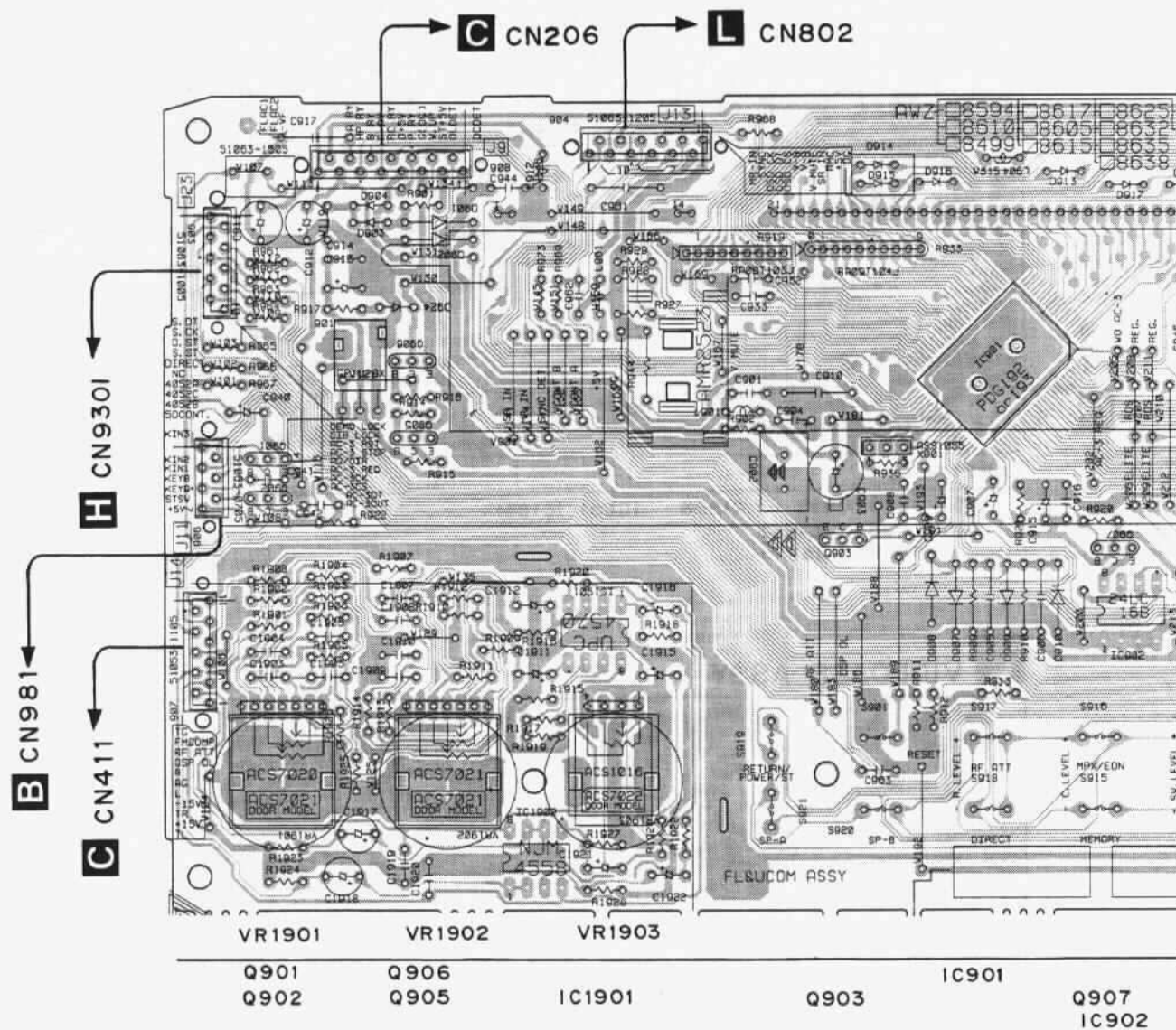


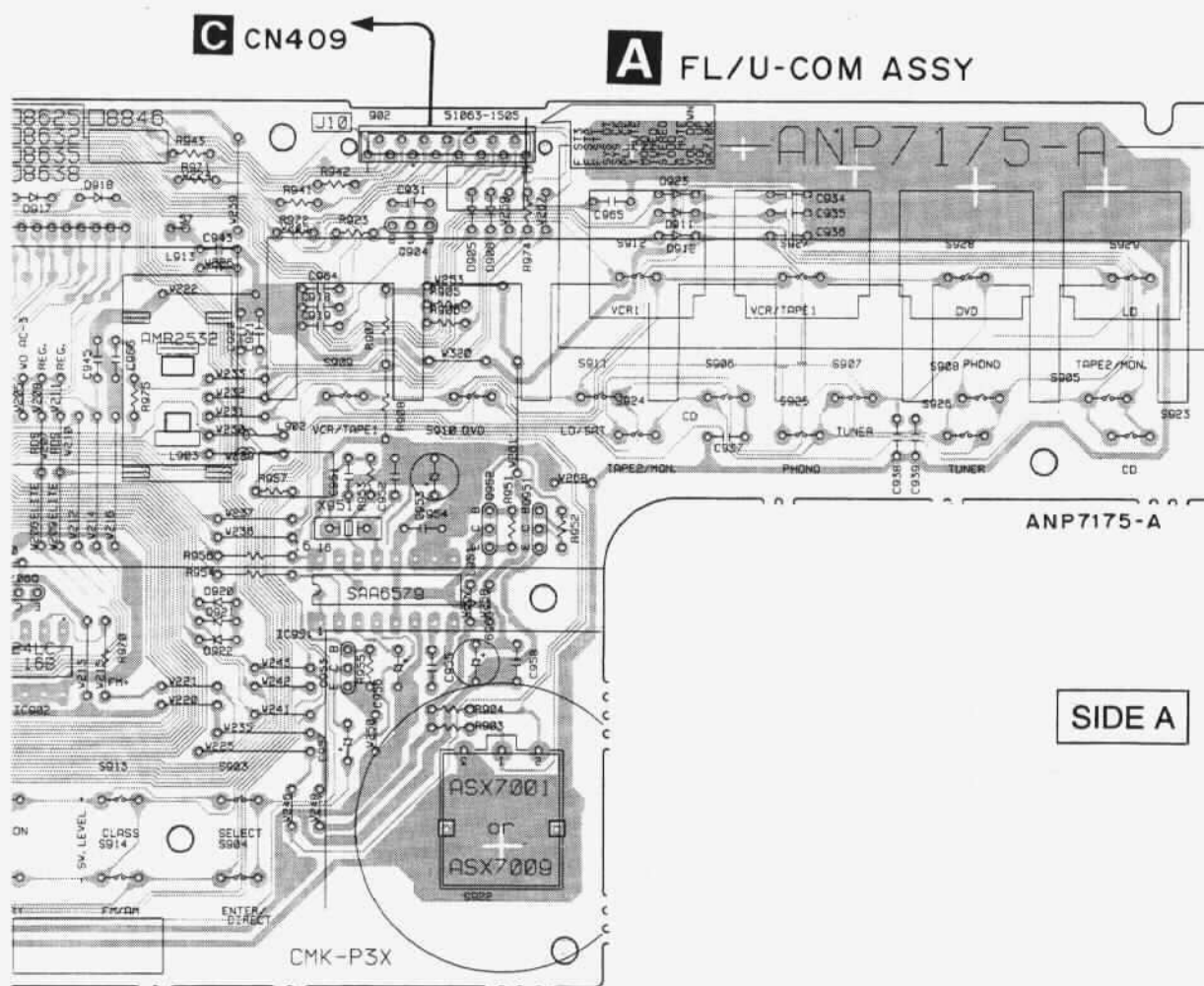
## 4.3 VIDEO/SR ASSY



# VSX-D606S

## 4.4 FL/U-COM ASSY

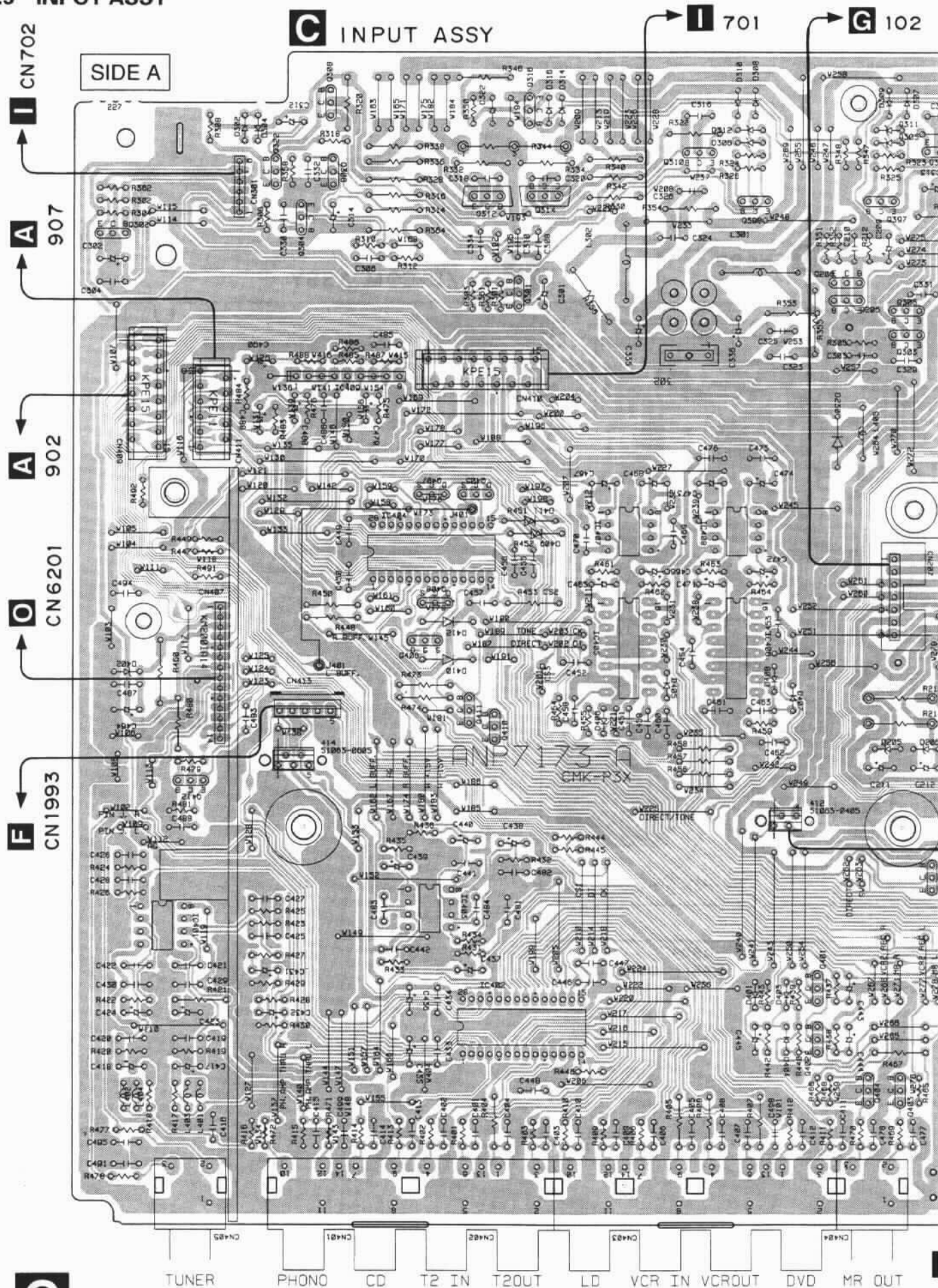


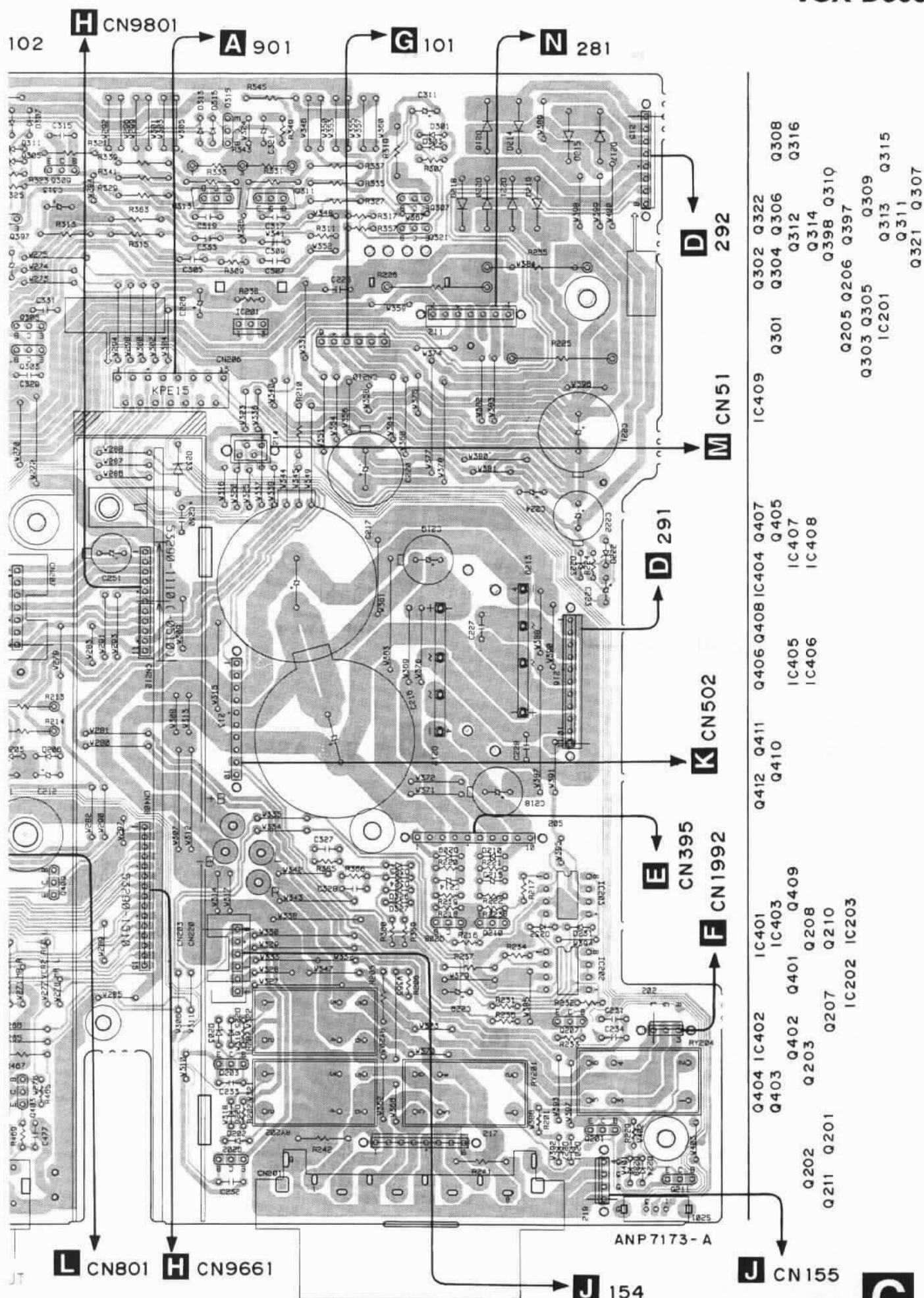


Q904  
IC951 Q952 Q951  
07  
302

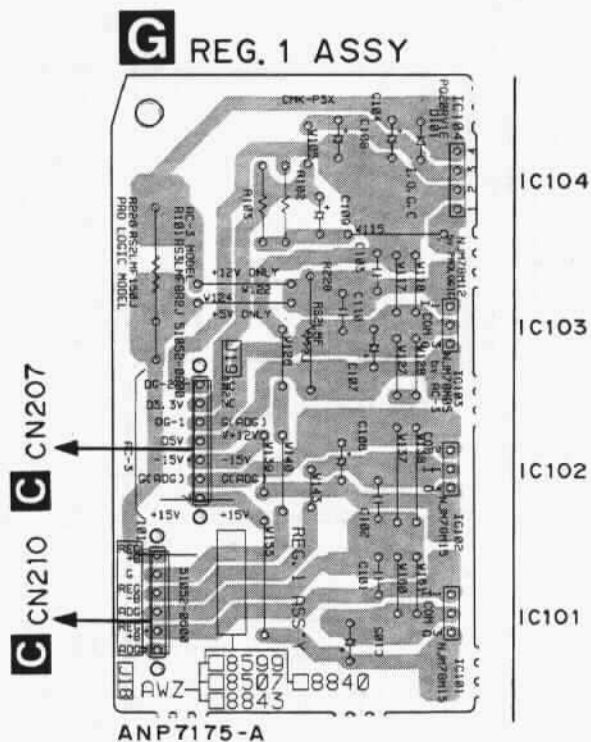
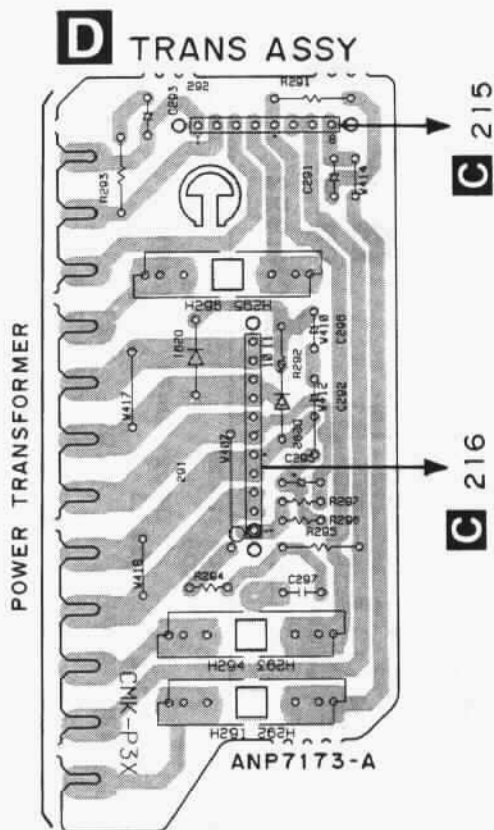
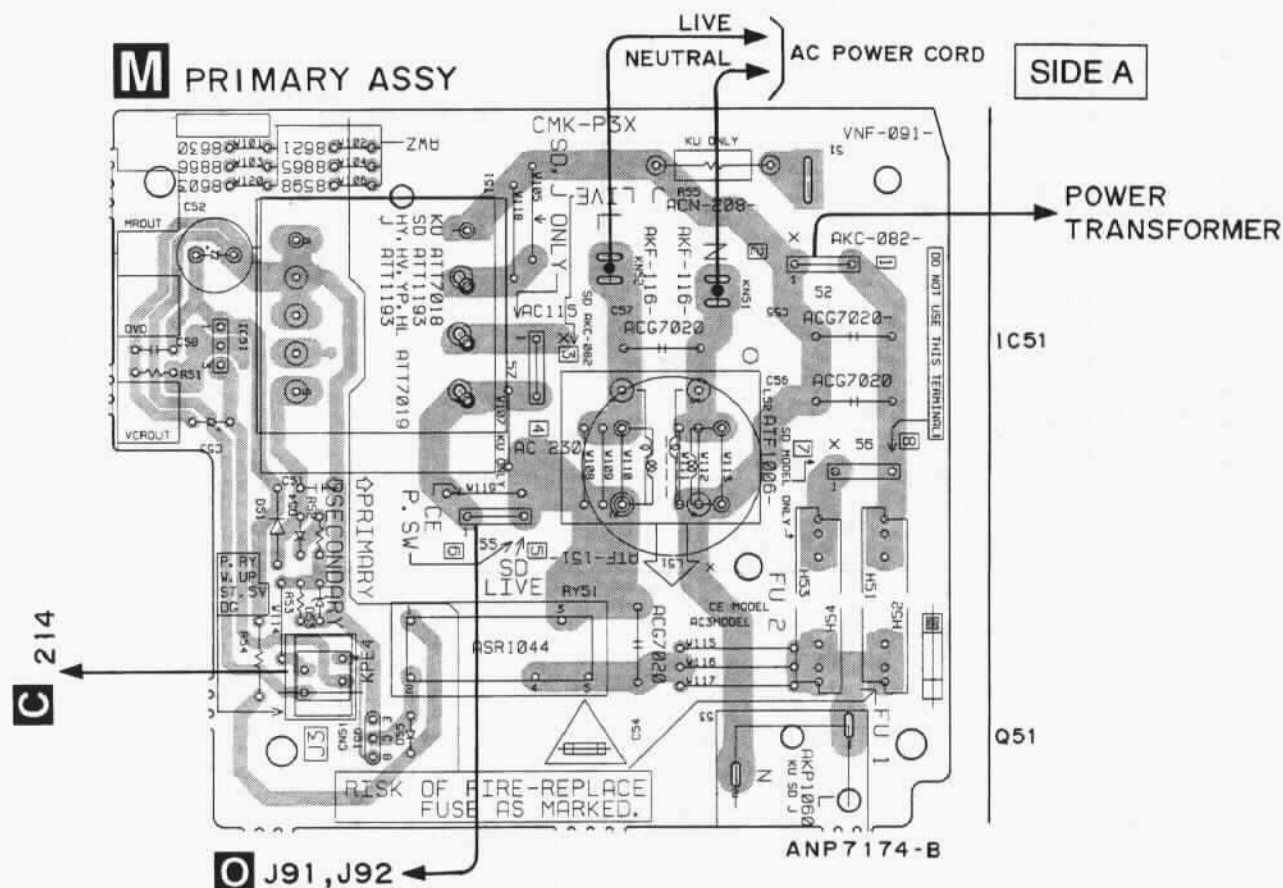
# VSX-D606S

## 4.5 INPUT ASSY





## 4.6 TRANS ASSY, REG.1 ASSY AND PRIMARY ASSY



Q706  
Q707  
Q708

[illegible]

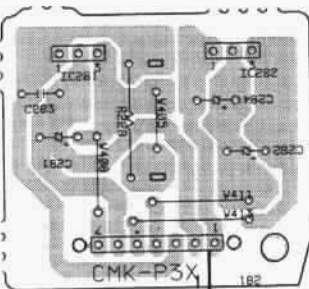
# VSX-D606S

## 4.8 R/C AMP ASSY AND REG.2 ASSY

**K** R/C AMP ASSY

SIDE A

**N** REG.2 ASSY



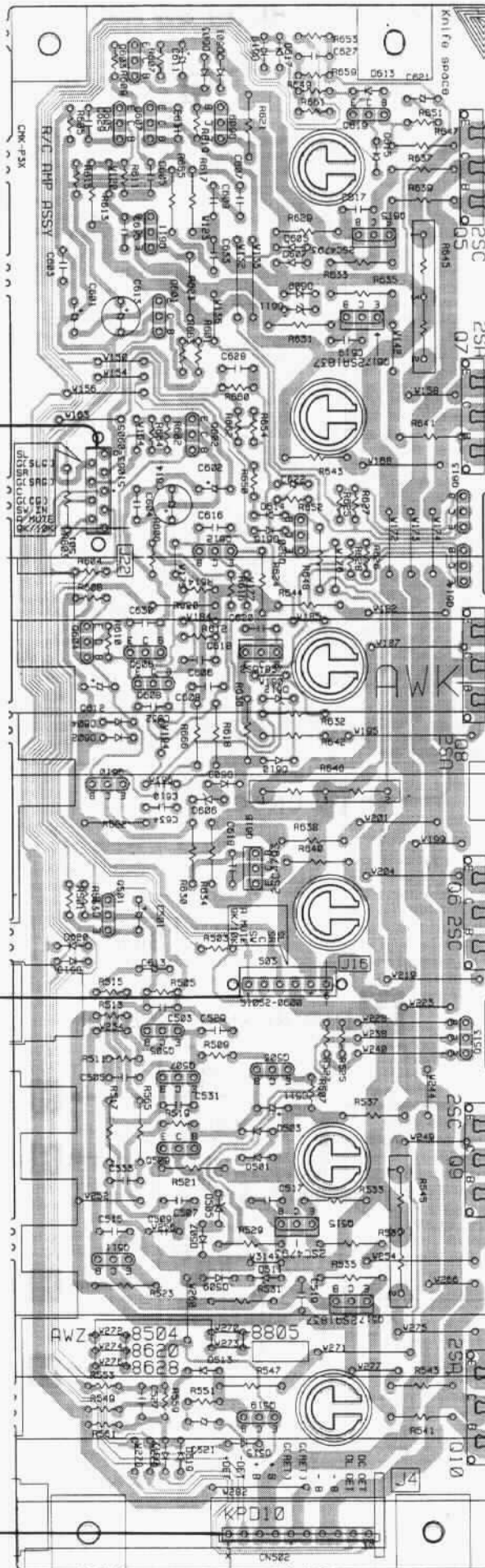
ANP7173-A

**C** 211

**I** CN703

**J** CN153

**C** 213

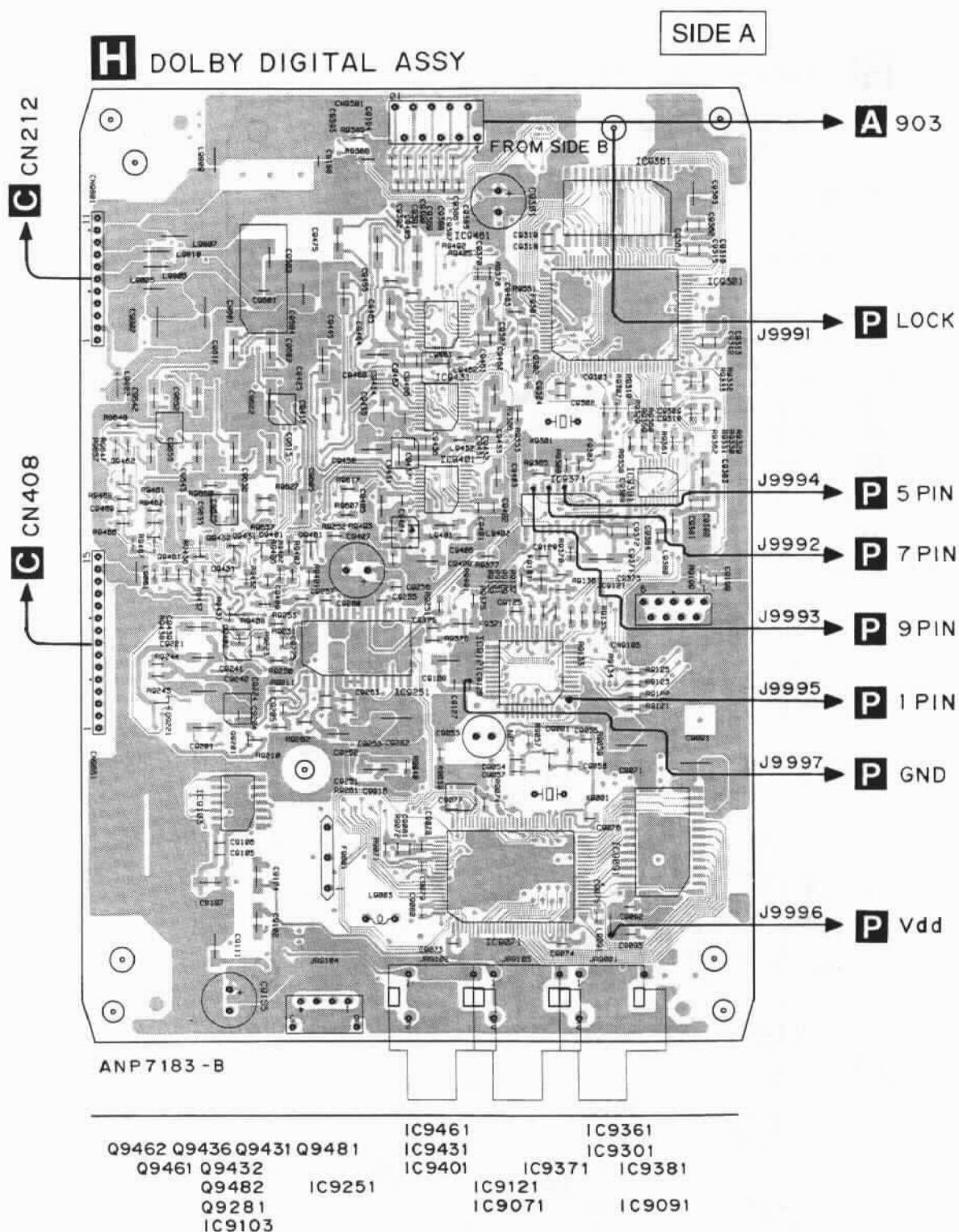


ANP7175-A

Q519 Q511 Q509 Q507 Q505 Q501 Q610 Q604 Q602 Q601 Q611 Q605 Q603  
Q517 Q515 Q503 Q616 Q612 Q615 Q607 Q609 Q619  
Q10 Q9 Q8 Q6 Q5

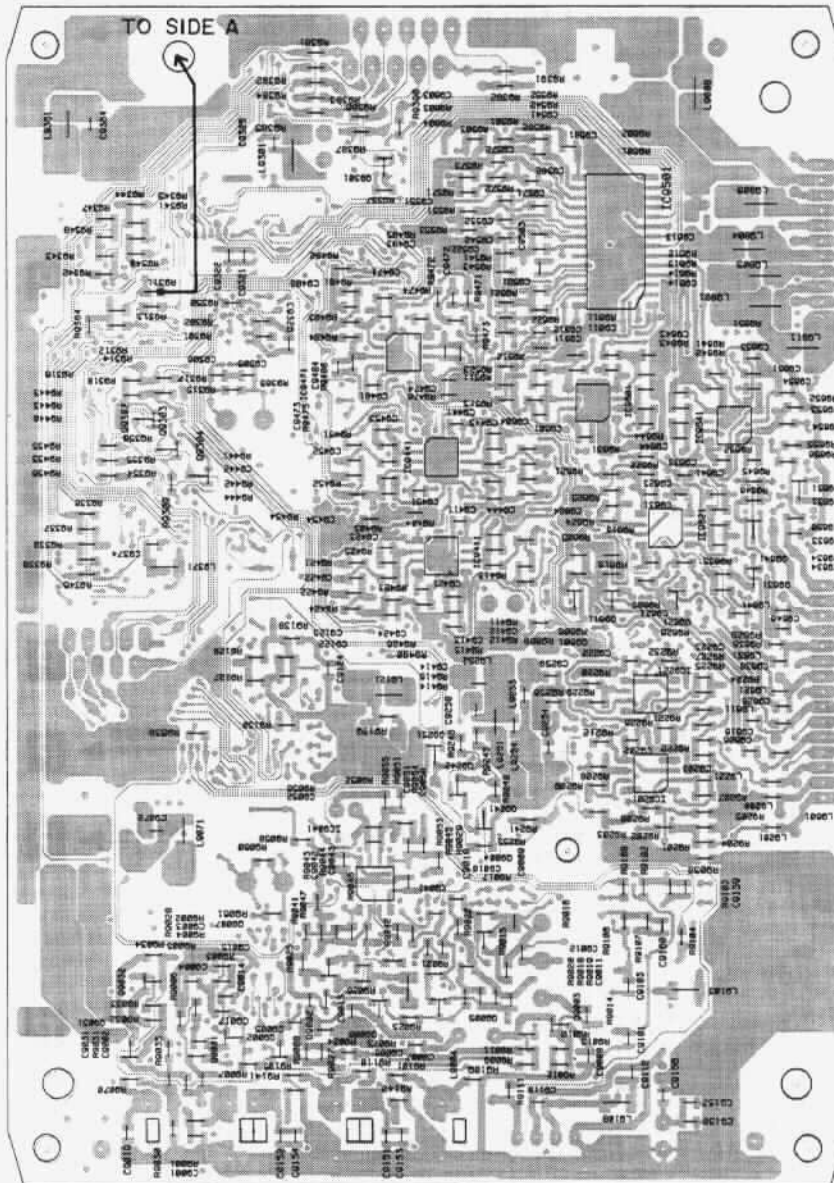
## 4.9 DOLBY DIGITAL ASSY

• This diagram has four layers. In the two middle layers, mainly Vcc and GND are connected.



**H** DOLBY DIGITAL ASSY

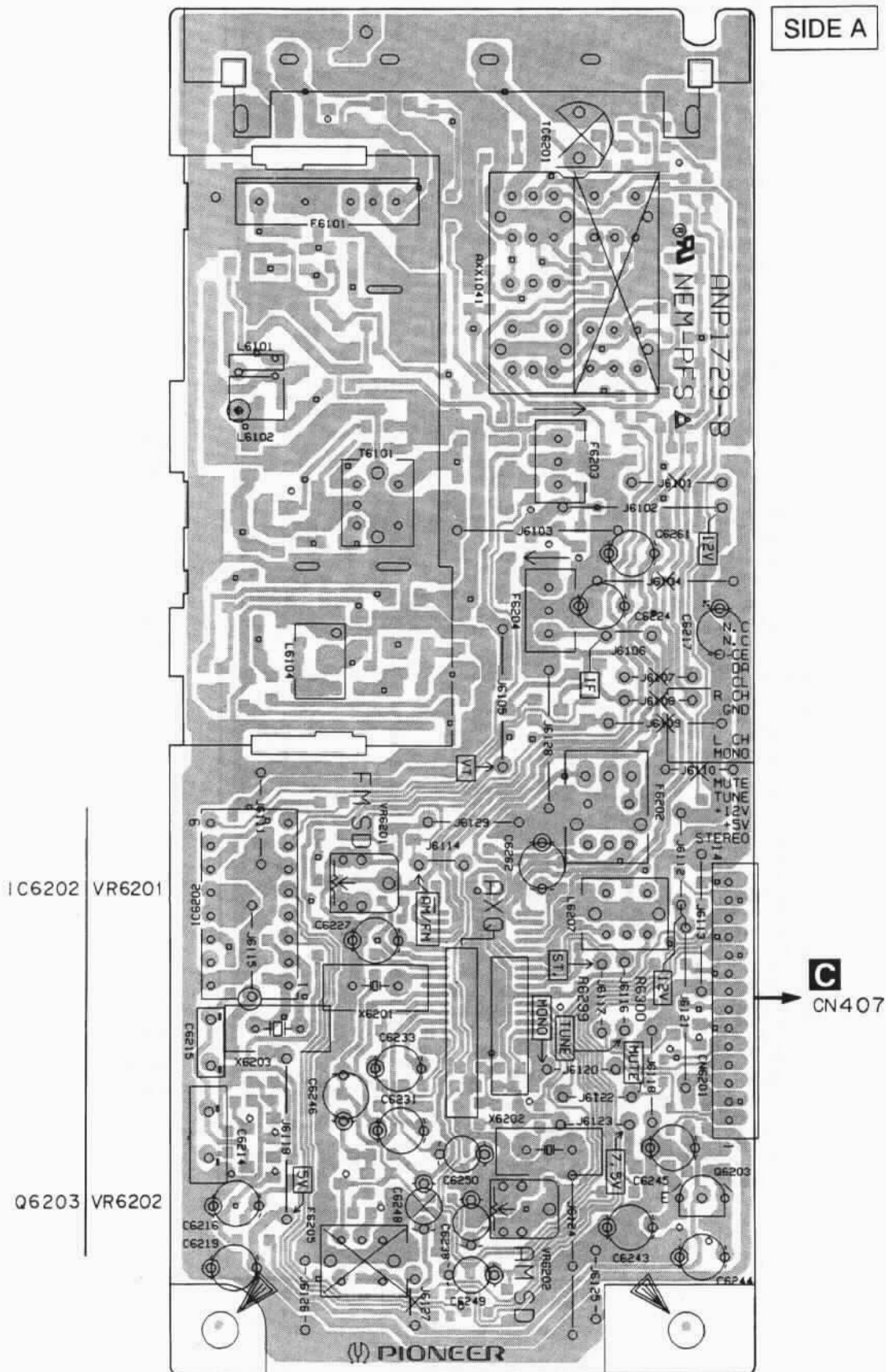
SIDE B



ANP7183-B

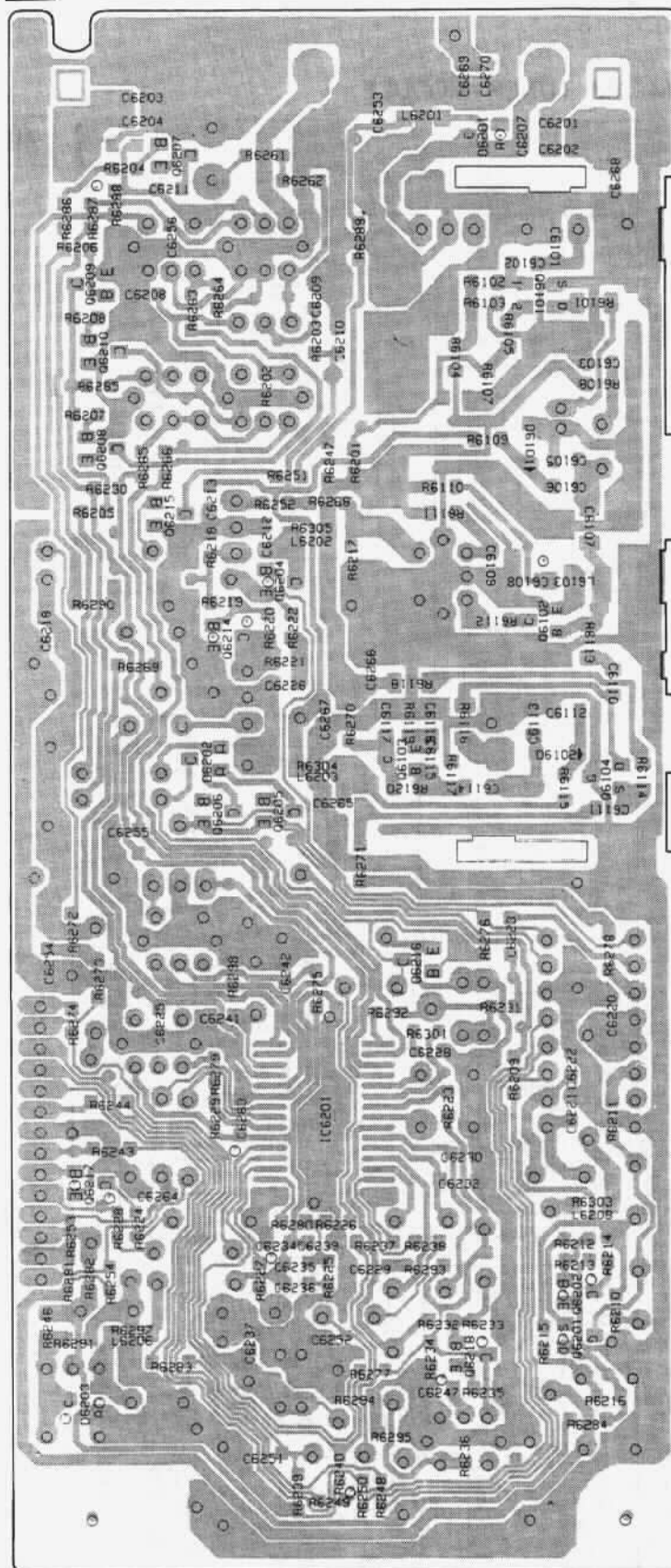
|       |                   |                    |
|-------|-------------------|--------------------|
| Q9302 | Q9301             | IC9051             |
| Q9303 | IC9441            | IC9601 IC9641      |
| Q9304 |                   | Q9611 IC9621 Q9641 |
|       | Q9251             | IC9221 Q9631       |
|       | Q9242             | IC9201             |
| Q9032 | IC9041 Q9241      |                    |
| Q9031 | Q9006 Q9005 Q9003 |                    |

## 4.10 FM/AM TUNER MODULE

 FM/AM TUNER MODULE


**O** FM/AM TUNER MODULE

SIDE B



( ANP1729-B )

Q6207

Q6209  
Q6101

Q6210

Q6208

Q6215

Q6204  
Q6102  
Q6214

Q6103  
Q6104  
Q6206  
Q6205

Q6216

IC6201

Q6217

Q6202  
Q6201  
Q6218



## 5. PCB 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.
  - 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  $\Omega$   $\rightarrow 56 \times 10^1 \rightarrow 561$  ..... RD1/4PU **561 J**  
 47 k $\Omega$   $\rightarrow 47 \times 10^3 \rightarrow 473$  ..... RD1/4PU **473 J**  
 0.5  $\Omega$   $\rightarrow R50$  ..... RN2H **R50 K**  
 1  $\Omega$   $\rightarrow 1R0$  ..... RS1P **1R0 K**

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

5.62 k $\Omega$   $\rightarrow 562 \times 10^1 \rightarrow 5621$  ..... RN1/APC **5621 F**

| Mark | No. | Description | Parts No. |
|------|-----|-------------|-----------|
|------|-----|-------------|-----------|

### LIST OF ASSEMBLIES

|     |                      |         |
|-----|----------------------|---------|
| NSP | MOTHER ASSY          | AWK7317 |
|     | └ INPUT ASSY         | AWZ8495 |
|     | └ TRANS ASSY         | AWZ8496 |
| NSP | MOS FET ASSY         | AWZ8497 |
|     | └ REG.2 ASSY         | AWZ8498 |
| NSP | FRONT & R/C AMP ASSY | AWK7316 |
|     | └ FL/U-COM ASSY      | AWZ8499 |
| NSP | POWER SWITCH ASSY    | AWZ8501 |
| NSP | FRONT INPUT ASSY     | AWZ8502 |
|     | └ R/C AMP ASSY       | AWZ8504 |
|     | └ R/C SPEAKER ASSY   | AWZ8505 |
|     | └ REG.1 ASSY         | AWZ8507 |
| NSP | COMPLEX ASSY         | AWK7318 |
|     | └ VOLUME ASSY        | AWZ8508 |
|     | └ VIDEO/SR ASSY      | AWZ8509 |
| NSP | PRIMARY ASSY         | AWZ8865 |
| NSP | DOLBY DIGITAL ASSY   | AWX7036 |
|     | DIR RESET SW ASSY    | AWX7048 |
|     | FM/AM TUNER MODULE   | AXQ7219 |

### C INPUT ASSY

#### SEMICONDUCTORS

|          |                                   |             |
|----------|-----------------------------------|-------------|
|          | IC202 ,IC203 ,IC403 ,IC407 ,IC408 | NJM4558D-D  |
|          | IC409                             | NJM4558LD   |
|          | IC201                             | NJM78M56FA  |
|          | IC404                             | TC9162AN    |
|          | IC402                             | TC9273N-007 |
|          | IC405 ,IC406                      | TC9299P     |
|          | IC401                             | UPC4570C    |
|          | Q210                              | 2SA1145     |
| $\Delta$ | Q307 ,Q308                        | 2SA1321     |
| $\Delta$ | Q313 ,Q314                        | 2SA1837     |
|          | Q321 ,Q322                        | 2SA970      |
|          | Q303 -Q306                        | 2SA992      |
|          | Q205 ,Q206 ,Q397 ,Q398            | 2SC1740S    |
|          | Q401 ,Q402                        | 2SC1740S    |
|          | Q315 ,Q316                        | 2SC2240     |
|          | Q208                              | 2SC2705     |
|          | Q207 ,Q301 ,Q302                  | 2SC2878     |
| $\Delta$ | Q309 ,Q310                        | 2SC3334     |
| $\Delta$ | Q311 ,Q312                        | 2SC4793     |
|          | Q201 -Q203 ,Q211                  | KRC101M     |

| Mark | No. | Description | Parts No. |
|------|-----|-------------|-----------|
|------|-----|-------------|-----------|

|                              |          |
|------------------------------|----------|
| D201 -D203 ,D224 ,D230 -D233 | ISS252   |
| D301 -D304 ,D313 -D316       | ISS252   |
| D324 -D327 ,D403 -D408       | ISS252   |
| D212 ,D213                   | D5SBA20  |
| D209 ,D210                   | MTZJ18B  |
| D223                         | MTZJ20A  |
| D401 ,D402                   | MTZJ5.1B |
| D222                         | MTZJ5.1C |
| D205 ,D206                   | MTZJ6.2B |
| D214 -D221                   | S5688G   |

#### COILS AND FILTERS

|                          |         |
|--------------------------|---------|
| L301 ,L302 (0.7 $\mu$ H) | ATH1004 |
|--------------------------|---------|

#### SWITCHES AND RELAYS

|              |         |
|--------------|---------|
| S201         | ASH1027 |
| RY201 -RY204 | ASR7001 |

#### CAPACITORS

|                                  |             |
|----------------------------------|-------------|
| C227 ,C228 (0.01 $\mu$ F/AC150V) | ACG1005     |
| C216 ,C217 (8200 $\mu$ F/71V)    | ACH7018     |
| C307 ,C308                       | CCCSL100D2H |
| C446 -C448 ,C455 -C463           | CCCSL101J50 |
| C317 -C320                       | CCCSL101K2H |
| C303 ,C304                       | CCCSL151J50 |
| C315 ,C316                       | CCCSL5R0C2H |
| C321 ,C322                       | CEANP2R2M50 |
| C211 ,C212                       | CEAS100M25  |
| C417 ,C418                       | CEAS100M50  |
| C226 ,C311 ,C312                 | CEAS101M10  |
| C313 ,C314 ,C423 ,C424           | CEAS101M25  |
| C218 ,C219                       | CEAS101M2A  |
| C222                             | CEAS102M35  |
| C214 ,C215 ,C445                 | CEAS1R0M50  |
| C209                             | CEAS221M10  |
| C301 ,C302 ,C437 ,C438           | CEAS2R2M50  |
| C443 ,C444                       | CEAS2R2M50  |
| C220                             | CEAS332M16  |
| C223                             | CEAS470M16  |
| C224 ,C435 ,C436 ,C439 ,C440     | CEAS470M25  |
| C464                             | CEAS470M25  |
| C335 ,C336                       | CEAS4R7M2A  |
| C229 ,C431 ,C432 ,C465 -C468     | CEAS4R7M50  |
| C471 -C474 ,C479 ,C480           | CEAS4R7M50  |

# VSX-D606S

| Mark                | No.                          | Description | Parts No.    |
|---------------------|------------------------------|-------------|--------------|
|                     | C489 ,C490                   |             | CEAS4R7M50   |
|                     | C323 ,C324                   |             | CFTXA473J50  |
|                     | C491                         |             | CGCYX103M16  |
|                     | C495                         |             | CGCYX104M12  |
|                     | C429 ,C430 ,C433 ,C434       |             | CGCYX473M25  |
|                     | C441 ,C442 ,C449 -C454       |             | CGCYX473M25  |
|                     | C469 ,C470 ,C475 ,C476 ,C487 |             | CGCYX473M25  |
|                     | C305 ,C306                   |             | CKCYB102K2H  |
|                     | C210                         |             | CKCYB102K50  |
|                     | C225 ,C485 ,C486             |             | CKCYF103Z50  |
|                     | C427 ,C428                   |             | CQMA242J50   |
|                     | C425 ,C426                   |             | CQMA822J50   |
|                     | C221 (4700μF/35V)            |             | RCH1107      |
| <b>RESISTORS</b>    |                              |             |              |
| Δ                   | R343 ,R344 (0.33Ω, 5W)       |             | ACN7001      |
|                     | R319 ,R320                   |             | RD1/4LMF680J |
|                     | R315 ,R316                   |             | RD1/4PM104J  |
|                     | R313 ,R314                   |             | RD1/4PM362J  |
| Δ                   | R353 ,R354                   |             | RD1/4PMF100J |
| Δ                   | R327 -R334                   |             | RD1/4PMF101J |
| Δ                   | R345 ,R346                   |             | RD1/4PMF472J |
| Δ                   | R321 ,R322                   |             | RF1/4PS101J  |
| Δ                   | R337 -R340                   |             | RF1/4PS4R7J  |
| Δ                   | R335 ,R336 ,R341 ,R342       |             | RF1/4PS8R2J  |
|                     | R355 ,R356                   |             | RS1LMF100J   |
|                     | R460                         |             | RS1PMF181J   |
|                     | R213 ,R214                   |             | RS1PMF271J   |
|                     | R226                         |             | RS3LMF270J   |
|                     | R225                         |             | RS3LMF560J   |
|                     | Other Resistors              |             | RD1/4PU□□□J  |
| <b>OTHERS</b>       |                              |             |              |
|                     | CABLE HOLDER (3P)            |             | 51052-0300   |
|                     | CABLE HOLDER (4P)            |             | 51052-0400   |
|                     | CABLE HOLDER (7P)            |             | 51052-0700   |
|                     | CABLE HOLDER (8P)            |             | 51052-0800   |
|                     | CABLE HOLDER (10P)           |             | 51052-1000   |
|                     | CABLE HOLDER (11P)           |             | 51052-1100   |
|                     | CABLE HOLDER (4P)            |             | 51063-0405   |
|                     | PIN JACK (4P)                |             | AKB7014      |
| CN401 ,CN404        | PIN JACK (4P)                |             | AKB7015      |
| CN201               | SPEAKER TERMINAL 8-P         |             | AKE7006      |
| J402                | BOARD IN WIRE                |             | DB022ND0     |
| J404                | BOARD IN WIRE                |             | DB832ND2     |
| CN407               | 14P PLUG                     |             | KM200LA14    |
| CN212               | 11P PLUG                     |             | KM200TA11    |
| CN408               | 15P PLUG                     |             | KM200TA15    |
| CN301               | 6P PLUG                      |             | KM200TA6     |
| CN413               | PLUG 5-P                     |             | KM250MA5     |
| CN411               | CONNECTOR (11P)              |             | KPE11        |
| CN206 ,CN409 ,CN410 | CONNECTOR (15P)              |             | KPE15        |
|                     | GROUND PLATE                 |             | VNF-091      |

| Mark                     | No.                          | Description | Parts No.    |
|--------------------------|------------------------------|-------------|--------------|
| <b>D TRANS ASSY</b>      |                              |             |              |
| <b>SEMICONDUCTORS</b>    |                              |             |              |
|                          | D291 ,D292                   |             | S5688G       |
| <b>CAPACITORS</b>        |                              |             |              |
|                          | C295                         |             | CEAS470M50   |
| <b>RESISTORS</b>         |                              |             |              |
|                          | All Resistors                |             | RD1/4PU□□□J  |
| <b>OTHERS</b>            |                              |             |              |
|                          | CABLE HOLDER (8P)            |             | 51052-0800   |
|                          | CABLE HOLDER (11P)           |             | 51052-1100   |
|                          | H291 -H296 FUSE CLIP         |             | AKR1004      |
| <b>E MOS FET ASSY</b>    |                              |             |              |
| <b>SEMICONDUCTORS</b>    |                              |             |              |
|                          | Q395                         |             | IRF540A      |
|                          | Q396                         |             | IRF9540A     |
| <b>RESISTORS</b>         |                              |             |              |
| Δ                        | R391 ,R392                   |             | RD1/4PMF101J |
|                          | Other Resistors              |             | RD1/4PM□□□J  |
| <b>N REG.2 ASSY</b>      |                              |             |              |
| <b>SEMICONDUCTORS</b>    |                              |             |              |
|                          | IC282                        |             | NJM78M05FA   |
|                          | IC281                        |             | NJM78M12FA   |
| <b>CAPACITORS</b>        |                              |             |              |
|                          | C282                         |             | CEAS101M10   |
|                          | C281                         |             | CEAS101M16   |
|                          | C284                         |             | CEHAQ470M50  |
|                          | C283                         |             | CGCYX103M25  |
| <b>RESISTORS</b>         |                              |             |              |
|                          | R228                         |             | RS2LMF331J   |
| <b>OTHERS</b>            |                              |             |              |
|                          | CABLE HOLDER (7P)            |             | 51052-0700   |
| <b>A FL/U-COM ASSY</b>   |                              |             |              |
| <b>SEMICONDUCTORS</b>    |                              |             |              |
|                          | IC1902                       |             | NJM4558D-D   |
|                          | IC901                        |             | PDG192A      |
|                          | IC1901                       |             | UPC4570C     |
|                          | Q904                         |             | 2SA933S      |
|                          | Q905 ,Q906                   |             | 2SC1740S     |
|                          | Q901 ,Q903                   |             | KRC101M      |
|                          | Q902                         |             | KRC103M      |
|                          | D901 -D912 ,D914 -D918 ,D921 |             | 1SS252       |
|                          | D923 -D925                   |             | 1SS252       |
| <b>COILS AND FILTERS</b> |                              |             |              |
|                          | L901                         |             | LAU2R2J      |

| Mark | No. | Description | Parts No. |
|------|-----|-------------|-----------|
|------|-----|-------------|-----------|

**SWITCHES AND RELAYS**

|                              |         |
|------------------------------|---------|
| S901 ,S903 -S911 ,S913 -S916 | ASG1034 |
| S918 -S921                   | ASG1034 |
| S922                         | ASX7001 |

**CAPACITORS**

|                            |              |
|----------------------------|--------------|
| C902                       | ACH7058      |
| C932 ,C933                 | CCPUSL220J50 |
| C1911 ,C1912 ,C1915 -C1918 | CEAS100M50   |
| C911                       | CEAS101M25   |
| C967                       | CEAS220M16   |
| C903                       | CEAS221M10   |
| C1921 ,C1922 ,C907 ,C909   | CEAS2R2M50   |
| C940                       | CEAS470M16   |
| C913                       | CEAS470M25   |
| C912                       | CEAS470M50   |

|              |             |
|--------------|-------------|
| C1907 ,C1908 | CFTXA123J50 |
| C1905 ,C1906 | CFTXA274J50 |
| C1903 ,C1904 | CFTXA473J50 |
| C1909 ,C1910 | CFTXA563J50 |
| C1919 ,C1920 | CGCYX103M16 |

|                        |              |
|------------------------|--------------|
| C908                   | CGCYX104M16  |
| C914                   | CKCYF103Z50  |
| C917 ,C931 ,C934 -C939 | CKPUYB101K50 |
| C941 ,C942             | CKPUYB101K50 |
| C919                   | CKPUYB102K50 |

|                              |              |
|------------------------------|--------------|
| C943 ,C944                   | CKPUYF103Z25 |
| C905 ,C906                   | CKPUYF473Z16 |
| C901 ,C904 ,C918 ,C945 ,C965 | CKPUYY103M16 |
| C910                         | CKPYF103Z50  |

**RESISTORS**

|                           |              |
|---------------------------|--------------|
| R919                      | RA8T103J     |
| VR1903 (500KΩ-B)          | ACS1016      |
| VR1901,VR1902(30KΩ-20Ax2) | ACS7020      |
| Other Resistors           | RD1/4PU□□□□J |

**OTHERS**

|                    |            |
|--------------------|------------|
| CABLE HOLDER (7P)  | 51063-0705 |
| CABLE HOLDER (10P) | 51063-1005 |
| CABLE HOLDER (11P) | 51063-1105 |
| CABLE HOLDER (12P) | 51063-1205 |
| CABLE HOLDER (15P) | 51063-1505 |

|                |         |
|----------------|---------|
| V901 FL TUBE   | AAV7034 |
| X901 (7.70MHz) | ASS1055 |

**B POWER SWITCH ASSY****SEMICONDUCTORS**

|                |         |
|----------------|---------|
| D981 LED (RED) | AEL1065 |
|----------------|---------|

**SWITCHES AND RELAYS**

|            |         |
|------------|---------|
| S981 -S986 | ASG1034 |
|------------|---------|

**RESISTORS**

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

**OTHERS**

|                      |      |
|----------------------|------|
| CN981 CONNECTOR (7P) | KPE7 |
|----------------------|------|

| Mark | No. | Description | Parts No. |
|------|-----|-------------|-----------|
|------|-----|-------------|-----------|

**F FRONT INPUT ASSY****CAPACITORS**

|              |             |
|--------------|-------------|
| C1984 -C1986 | CGCYX473M16 |
|--------------|-------------|

**RESISTORS**

|                 |              |
|-----------------|--------------|
| R1991 ,R1992    | RS2LMF331J   |
| Other Resistors | RD1/4PU□□□□J |

**OTHERS**

|                      |          |
|----------------------|----------|
| CN1981 PIN JACK (3P) | AKB7085  |
| CN1991 JACK          | AKN7001  |
| CN1993 PLUG 5-P      | KM250MA5 |

**K R/C AMP ASSY****SEMICONDUCTORS**

|                        |          |
|------------------------|----------|
| Q509 ,Q609 ,Q610       | 2SA1321  |
| Q517 ,Q617 ,Q618       | 2SA1837  |
| Q503 ,Q603 ,Q604       | 2SA970   |
| Q505 ,Q507 ,Q605 -Q608 | 2SA992   |
| Q513 ,Q613 ,Q614       | 2SC1740S |

|                              |         |
|------------------------------|---------|
| Q519 ,Q619 ,Q620             | 2SC2240 |
| Q501 ,Q601 ,Q602             | 2SC2878 |
| Q511 ,Q611 ,Q612             | 2SC3334 |
| Q515 ,Q615 ,Q616             | 2SC4793 |
| D501 ,D503 ,D513 ,D515 ,D517 | 1SS252  |

|                              |        |
|------------------------------|--------|
| D519 ,D601 -D604 ,D613 -D620 | 1SS252 |
|------------------------------|--------|

**CAPACITORS**

|                        |             |
|------------------------|-------------|
| C517 ,C519 ,C617 -C620 | CCCSL101K2H |
| C507 ,C607 ,C608       | CCCSL120K2H |
| C503 ,C603 ,C604       | CCCSL151J50 |
| C515 ,C615 ,C616       | CCCSL5R0C2H |
| C521 ,C621 ,C622       | CEANP2R2M50 |

|                  |             |
|------------------|-------------|
| C511 ,C611 ,C612 | CEAS101M10  |
| C513 ,C613 ,C614 | CEAS101M25  |
| C501 ,C601 ,C602 | CEAS2R2M50  |
| C505 ,C605 ,C606 | CKCYB102K2H |

**RESISTORS**

|                              |              |
|------------------------------|--------------|
| R545 ,R645 ,R646 (0.33Ω, 5W) | ACN7001      |
| R521 ,R621 ,R622             | RD1/4LMF680J |
| R517 ,R617 ,R618             | RD1/4PM104J  |
| R529 ,R531 ,R533 ,R535       | RD1/4PMF101J |
| R629 -R636                   | RD1/4PMF101J |

|                        |              |
|------------------------|--------------|
| R547 ,R647 ,R648       | RD1/4PMF472J |
| R523 ,R623 ,R624       | RF1/4PS101J  |
| R539 ,R541 ,R639 -R642 | RF1/4PS4R7J  |
| R537 ,R543 ,R637 ,R638 | RF1/4PS8R2J  |
| R643 ,R644             | RF1/4PS8R2J  |

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

**OTHERS**

|                   |            |
|-------------------|------------|
| CABLE HOLDER (6P) | 51052-0600 |
| CABLE HOLDER (9P) | 51063-0905 |

# VSX-D606S

| Mark | No. | Description | Parts No. |
|------|-----|-------------|-----------|
|------|-----|-------------|-----------|

## J R/C SPEAKER ASSY

### SEMICONDUCTORS

|            |          |
|------------|----------|
| Q151       | 2SC1740S |
| Q163       | 2SC2878  |
| D151 ,D152 | 1SS252   |

### COILS AND FILTERS

|                    |         |
|--------------------|---------|
| L154 -L156 (0.7μH) | ATH1004 |
|--------------------|---------|

### SWITCHES AND RELAYS

|              |         |
|--------------|---------|
| RY151 ,RY152 | ASR7001 |
|--------------|---------|

### CAPACITORS

|                  |             |
|------------------|-------------|
| C161 ,C163 ,C165 | CFTXA473J50 |
|------------------|-------------|

### RESISTORS

|                 |              |
|-----------------|--------------|
| R183 -R185      | RD1/4PMF100J |
| R186 -R188      | RS1LMF100J   |
| Other Resistors | RD1/4PU□□□J  |

### OTHERS

|                            |            |
|----------------------------|------------|
| CABLE HOLDER (4P)          | 51052-0400 |
| CN152 2P PIN JACK          | AKB7001    |
| CN151 SPEAKER TERMINAL 6-P | AKE7041    |

## G REG.1 ASSY

### SEMICONDUCTORS

|       |            |
|-------|------------|
| IC103 | NJM78M05FA |
| IC101 | NJM78M15FA |
| IC102 | NJM79M15FA |
| IC104 | PQ20RV1E   |
| D101  | 1SS252     |

### CAPACITORS

|            |             |
|------------|-------------|
| C107       | CEAS101M10  |
| C105 ,C106 | CEAS101M16  |
| C108       | CEAS470M10  |
| C104       | CEHAQ470M25 |
| C101 -C103 | CKCYF103Z50 |

### RESISTORS

|      |              |
|------|--------------|
| R102 | RN1/4PC3000F |
| R103 | RN1/4PC5100F |
| R101 | RS3LMF8R2J   |

### OTHERS

|                   |            |
|-------------------|------------|
| CABLE HOLDER (6P) | 51052-0600 |
| CABLE HOLDER (7P) | 51052-0700 |

## I VOLUME ASSY

### SEMICONDUCTORS

|              |          |
|--------------|----------|
| IC701 -IC703 | UPC4570C |
| Q705 ,Q706   | 2SA1115  |
| Q707 ,Q708   | 2SC2603  |
| Q703 ,Q704   | 2SK246   |
| Q702         | KRA103M  |

|                  |         |
|------------------|---------|
| Q701             | KRC103M |
| D701 ,D703 ,D705 | 1SS252  |

| Mark | No. | Description | Parts No. |
|------|-----|-------------|-----------|
|------|-----|-------------|-----------|

### CAPACITORS

|                        |              |
|------------------------|--------------|
| C720 ,C721             | CCCSL271J50  |
| C703 ,C704             | CCPUSL330J50 |
| C719                   | CEANP100M50  |
| C722                   | CEAS220M50   |
| C701 ,C702 ,C705 -C708 | CEAS4R7M50   |
| C711 -C714 ,C717 ,C718 | CEAS4R7M50   |
| C729 ,C730             | CFTXA473J50  |
| C723 -C728             | CGCYX104M25  |
| C715                   | CKPUYB681K50 |
| C709 ,C710 ,C716       | CKPUYB820K50 |

### RESISTORS

|                    |             |
|--------------------|-------------|
| VR701 (100KΩ-A5x6) | ACX7028     |
| Other Resistors    | RD1/4PU□□□J |

### OTHERS

|                      |            |
|----------------------|------------|
| CABLE HOLDER (15P)   | 51063-1505 |
| CN702 6P SOCKET      | KP200TA6L  |
| CN703 CONNECTOR (9P) | KPE9       |

## L VIDEO S/R ASSY

### SEMICONDUCTORS

|                          |          |
|--------------------------|----------|
| IC851                    | LA7952   |
| Q801 ,Q855               | 2SA933S  |
| Q1898 ,Q1899 ,Q851 -Q854 | 2SC1740S |
| Q802                     | KRC103M  |
| D801 ,D802 ,D851 -D853   | 1SS252   |

### CAPACITORS

|                  |             |
|------------------|-------------|
| C1853            | CEANP4R7M50 |
| C857 ,C858 ,C860 | CEAS470M25  |
| C854 ,C856       | CEAS471M6R3 |
| C851 -C853 ,C864 | CEAS4R7M50  |
| C863             | CKCYB102K50 |
| C801             | CKCYF103Z50 |

### RESISTORS

|                 |             |
|-----------------|-------------|
| R860 ,R861      | RD1/4PM331J |
| Other Resistors | RD1/4PU□□□J |

### OTHERS

|                      |         |
|----------------------|---------|
| JACK (2P)            | AKB7016 |
| RCA PIN JACK         | AKB7018 |
| CN804 CONNECTOR (4P) | KPE4    |
| CN802 CONNECTOR (7P) | KPE7    |
| JA803 ,JA807 JACK    | RKN1004 |

## M PRIMARY ASSY

### SEMICONDUCTORS

|          |            |
|----------|------------|
| IC51     | NJM78M56FA |
| Q51      | KRC101M    |
| D54 ,D55 | 1SS252     |
| D53      | MTZJ5.1A   |
| D51      | S5688G     |

### COILS AND FILTERS

|     |         |
|-----|---------|
| L52 | ATF1006 |
|-----|---------|

### TRANSFORMERS

|       |         |
|-------|---------|
| Δ T51 | ATT7018 |
|-------|---------|

| Mark                        | No.                                | Description | Parts No.      |
|-----------------------------|------------------------------------|-------------|----------------|
| <b>SWITCHES AND RELAYS</b>  |                                    |             |                |
|                             | RY51                               |             | ASR1044        |
| <b>CAPACITORS</b>           |                                    |             |                |
|                             | C54 ,C55 (0.01μF/AC250V)           |             | ACG7020        |
|                             | C53                                |             | CEAS470M16     |
|                             | C52                                |             | CEAS471M16     |
|                             | C51                                |             | CGCYX103M25    |
| <b>RESISTORS</b>            |                                    |             |                |
|                             | R55 (2.2MΩ, 1/2W)                  |             | ACN-208        |
|                             | R54                                |             | RD1/2PM270J    |
|                             | Other Resistors                    |             | RD1/4PU□□□J    |
| <b>OTHERS</b>               |                                    |             |                |
|                             | SOCKET 1-P                         |             | AKP1060        |
|                             | H51,H52 FUSE CLIP                  |             | AKR1004        |
|                             | CN51 CONNECTOR (4P)                |             | KPE4           |
|                             | GROUND PLATE                       |             | VNF-091        |
| <b>H DOLBY DIGITAL ASSY</b> |                                    |             |                |
| <b>SEMICONDUCTORS</b>       |                                    |             |                |
|                             | IC9401,IC9431,IC9461               |             | AK4319-VM      |
|                             | IC9251                             |             | AK5340-VS      |
|                             | IC9121                             |             | CD0004AF       |
|                             | IC9361                             |             | KM62V256CLG-7L |
|                             | IC9091                             |             | LH52256AN-70LL |
|                             | IC9301                             |             | MB86342A       |
|                             | IC9201,IC9221                      |             | NJM2100M       |
|                             | IC9041,IC9411,IC9441,IC9471,IC9601 |             | NJM4558MD      |
|                             | IC9621,IC9641                      |             | NJM4558MD      |
|                             | IC9501                             |             | PA4025A        |
|                             | IC9071                             |             | PM4007A        |
|                             | IC9371                             |             | TC74HCT244AF   |
|                             | IC9103                             |             | TC74HCU04AF    |
|                             | IC9381                             |             | TC74LVX244FS   |
|                             | Q9007 ,Q9241 ,Q9401 ,Q9431 ,Q9461  |             | 2PB709A        |
|                             | Q9003 ,Q9031 ,Q9032 ,Q9242 ,Q9402  |             | 2PD601A        |
|                             | Q9432 ,Q9462                       |             | 2PD601A        |
|                             | Q9201 ,Q9221 ,Q9601 ,Q9611 ,Q9621  |             | 2SC3326        |
|                             | Q9631 ,Q9641 ,Q9651                |             | 2SC3326        |
|                             | Q9001 ,Q9002 ,Q9004 -Q9006         |             | 2SC3802K       |
|                             | Q9304                              |             | DTA124EK       |
|                             | Q9251 ,Q9301 -Q9303                |             | DTC124EK       |
|                             | D9401 ,D9431                       |             | 1SS181         |
|                             | D9002                              |             | 1SS355         |
|                             | D9001                              |             | KV1851         |
| <b>COILS AND FILTERS</b>    |                                    |             |                |
|                             | F9001 (2.88MHz)                    |             | ATF7001        |
|                             | F9101 ,F9301 ,F9302 ,F9371         |             | ATF7013        |
|                             | L9003 (68μH)                       |             | ATH7001        |
|                             | L9301 ,L9801 -L9811                |             | ATL7001        |
|                             | L9200 ,L9201 ,L9221 ,L9252 -L9254  |             | ATX1026        |
|                             | L9402 ,L9432 ,L9462 ,L9601 ,L9611  |             | ATX1026        |
|                             | L9621 ,L9631 ,L9641 ,L9651         |             | ATX1026        |
|                             | L9302                              |             | LCTBR47K2125   |
|                             | L9004 ,L9005 ,L9071 ,L9091 ,L9103  |             | VTL1019        |
|                             | L9121 ,L9251 ,L9361 ,L9371 ,L9380  |             | VTL1019        |

| Mark              | No.                               | Description | Parts No.    |
|-------------------|-----------------------------------|-------------|--------------|
|                   | L9401 ,L9431 ,L9461 ,L9661        |             | VTL1019      |
| <b>CAPACITORS</b> |                                   |             |              |
|                   | C9105 ,C9122 ,C9126 ,C9159 ,C9160 |             | CCSQCH101J50 |
|                   | C9255 ,C9263 ,C9302 ,C9309 ,C9312 |             | CCSQCH101J50 |
|                   | C9315 ,C9318 ,C9321 ,C9361 ,C9371 |             | CCSQCH101J50 |
|                   | C9381 ,C9401 ,C9406 ,C9431 ,C9436 |             | CCSQCH101J50 |
|                   | C9461 ,C9466                      |             | CCSQCH101J50 |
|                   | C9511 ,C9521 ,C9541 ,C9551 ,C9571 |             | CCSQCH102J50 |
|                   | C9606 ,C9616 ,C9626 ,C9636 ,C9646 |             | CCSQCH102J50 |
|                   | C9656                             |             | CCSQCH102J50 |
|                   | C9413 ,C9414 ,C9423 ,C9424        |             | CCSQCH151J50 |
|                   | C9443 ,C9444 ,C9453 ,C9454        |             | CCSQCH151J50 |
|                   | C9473 ,C9474                      |             | CCSQCH151J50 |
|                   | C9125 ,C9203 ,C9223 ,C9305 ,C9306 |             | CCSQCH220J50 |
|                   | C9412 ,C9422 ,C9442 ,C9452 ,C9472 |             | CCSQCH221J50 |
|                   | C9482                             |             | CCSQCH221J50 |
|                   | C9057                             |             | CCSQCH270J50 |
|                   | C9151 ,C9152 ,C9512 ,C9522 ,C9542 |             | CCSQCH271J50 |
|                   | C9552 ,C9572                      |             | CCSQCH271J50 |
|                   | C9603 ,C9613 ,C9623 ,C9633 ,C9643 |             | CCSQCH391J50 |
|                   | C9326 ,C9392                      |             | CCSQCH471J50 |
|                   | C9129 ,C9307 ,C9308 ,C9375        |             | CCSQCH560J50 |
|                   | C9007                             |             | CCSQCH750J50 |
|                   | C9053                             |             | CEANP470M25  |
|                   | C9301                             |             | CEAS102M6R3  |
|                   | C9257                             |             | CEAS471M6R3  |
|                   | C9107 ,C9128 ,C9201 ,C9221 ,C9241 |             | CEV100M16    |
|                   | C9403 ,C9405 ,C9408 ,C9433 ,C9435 |             | CEV100M16    |
|                   | C9438 ,C9463 ,C9465 ,C9468 ,C9502 |             | CEV100M16    |
|                   | C9504 ,C9602 ,C9605 ,C9612 ,C9615 |             | CEV100M16    |
|                   | C9622 ,C9625 ,C9632 ,C9635 ,C9642 |             | CEV100M16    |
|                   | C9645 ,C9652 ,C9655               |             | CEV100M16    |
|                   | C9016                             |             | CEV100M35    |
|                   | C9071 ,C9091 ,C9262               |             | CEV101M6R3   |
|                   | C9415 ,C9425 ,C9445 ,C9455 ,C9475 |             | CEV220M16    |
|                   | C9485                             |             | CEV220M16    |
|                   | C9801 ,C9802                      |             | CEV330M25    |
|                   | C9242 ,C9363 ,C9373 ,C9383        |             | CEV470M6R3   |
|                   | C9031                             |             | CKSQYB102K50 |
|                   | C9014 ,C9054 ,C9056 ,C9101 ,C9103 |             | CKSQYB103K50 |
|                   | C9153 ,C9154                      |             | CKSQYB103K50 |
|                   | C9581                             |             | CKSQYB104K25 |
|                   | C9205 ,C9225                      |             | CKSQYB152K50 |
|                   | C9483 ,C9484                      |             | CKSQYB153K50 |
|                   | C9582                             |             | CKSQYB273K50 |
|                   | C9653                             |             | CKSQYB393K50 |
|                   | C9121                             |             | CKSQYB473K50 |
|                   | C9001 -C9006 ,C9008 -C9013 ,C9015 |             | CKSQYF104Z25 |
|                   | C9017 ,C9018 ,C9043 ,C9051 ,C9052 |             | CKSQYF104Z25 |
|                   | C9055 ,C9058 ,C9073 -C9081 ,C9092 |             | CKSQYF104Z25 |
|                   | C9106 ,C9123 ,C9127 ,C9202 ,C9204 |             | CKSQYF104Z25 |
|                   | C9222 ,C9224 ,C9251 ,C9253 ,C9256 |             | CKSQYF104Z25 |
|                   | C9259 ,C9303 ,C9310 ,C9313 ,C9316 |             | CKSQYF104Z25 |
|                   | C9319 ,C9322 ,C9324 ,C9362 ,C9372 |             | CKSQYF104Z25 |
|                   | C9382 ,C9402 ,C9404 ,C9407 ,C9409 |             | CKSQYF104Z25 |
|                   | C9411 ,C9421 ,C9432 ,C9434 ,C9437 |             | CKSQYF104Z25 |

# VSX-D606S

| Mark | No.                                                                    | Description | Parts No.                                    |
|------|------------------------------------------------------------------------|-------------|----------------------------------------------|
|      | C9439 ,C9441 ,C9451 ,C9462 ,C9464<br>C9467 ,C9469 ,C9471 ,C9481 ,C9501 |             | CKSQYF104Z25<br>CKSQYF104Z25                 |
|      | C9503 ,C9601 ,C9611 ,C9621 ,C9631<br>C9641 ,C9651<br>C9041 ,C9042      |             | CKSQYF104Z25<br>CKSQYF104Z25<br>CKSQYF105Z16 |

## RESISTORS

All Resistors RS1/10S□□□J

## OTHERS

|        |                               |            |
|--------|-------------------------------|------------|
| JA9000 | PIN JACK (3P)                 | AKB7091    |
| CN9801 | 11P SOCKET                    | KP200TA11L |
| CN9661 | 15P SOCKET                    | KP200TA15L |
| CN9301 | CONNECTOR (10P)               | KPE10      |
| X9301  | CRYSTAL RESONATOR (18.432MHz) | ASS1035    |
| X9001  | CRYSTAL RESONATOR (18.432MHz) | ASS7009    |

## FM/AM TUNER MODULE

### SEMICONDUCTORS

|              |          |
|--------------|----------|
| IC6201       | LA1836M  |
| IC6202       | LM7001J  |
| Q6102        | 2SC2223  |
| Q6203        | 2SC2235  |
| Q6202        | 2SC2712  |
| Q6103 ,Q6214 | 2SC2714  |
| Q6201        | 2SK208   |
| Q6104        | 2SK302   |
| Q6101        | 3SK194   |
| Q6204        | XDA124EK |
| Q6217        | XDC124EK |
| D6101 ,D6102 | 1T33     |

### COILS AND FILTERS

|                     |              |
|---------------------|--------------|
| L6104               | ATC1003      |
| L6101               | ATC1020      |
| L6102               | ATC1021      |
| L6207               | ATE1013      |
| F6203 ,F6204        | ATF-119      |
| F6101               | ATF-155      |
| F6202 (450KHz)      | ATF1156      |
| L6103 (2.2μH)       | ATH1043      |
| L6202 ,L6203 ,L6208 | LCTA2R2J3225 |

### TRANSFORMERS

|       |         |
|-------|---------|
| T6101 | ATE-063 |
|-------|---------|

### CAPACITORS

|                                   |              |
|-----------------------------------|--------------|
| C6202 ,C6234 ,C6236 (1μF/16V)     | ACG1051      |
| C6229                             | CCSCH821J50  |
| C6107                             | CCSCK1R0C50  |
| C6108 ,C6203 ,C6268               | CCSQCH101J50 |
| C6111 ,C6116 ,C6208 ,C6221 ,C6222 | CCSQCH150J50 |
| C6115                             | CCSQCH330J50 |
| C6101                             | CCSQCH5R0C50 |
| C6110                             | CCSQCK2R0C50 |
| C6114                             | CCSQRH080D50 |
| C6113                             | CCSQRH180J50 |

| Mark | No.                                                                                                 | Description | Parts No.                                                                                  |
|------|-----------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------|
|      | C6105<br>C6224 ,C6246 ,C6262<br>C6227<br>C6261<br>C6216 ,C6217                                      |             | CCSQTH150J50<br>CEAS100M50<br>CEAS101M10<br>CEAS1R0M50<br>CEAS330M16                       |
|      | C6231 ,C6233<br>C6219<br>C6243 -C6245<br>C6238<br>C6249 ,C6250                                      |             | CEAS3R3M50<br>CEAS470M10<br>CEAS470M16<br>CEJA100M16<br>CEJA4R7M35                         |
|      | C6215<br>C6214<br>C6103 ,C6106 ,C6112 ,C6204<br>C6102 ,C6109 ,C6117 ,C6210 ,C6264<br>C6213<br>C6230 |             | CFTXA103J50<br>CFTXA224J50<br>CKSQYB102K50<br>CKSQYB103K50<br>CKSQYB223K50<br>CKSQYB393K50 |

|                                                                                                          |                                                                              |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| C6228 ,C6252<br>C6209 ,C6237 ,C6265 ,C6267<br>C6212 ,C6218<br>C6220 ,C6226 ,C6239 ,C6242 ,C6255<br>C6235 | CKSQYB472K50<br>CKSQYB473K50<br>CKSQYF103Z50<br>CKSQYF223Z50<br>CKSQYF224Z25 |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|

|                                                         |                                                                          |
|---------------------------------------------------------|--------------------------------------------------------------------------|
| C6225 ,C6241 ,C6266<br>C6232<br>C6251<br>C6223<br>C6263 | CKSQYF473Z50<br>CKSYB393K50<br>CKSYB472K50<br>CKSYF103Z50<br>CKSYF473Z50 |
|---------------------------------------------------------|--------------------------------------------------------------------------|

### RESISTORS

|                                                                                                                                      |                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| R6299 ,R6300<br>R6113 ,R6116 ,R6118 ,R6268 -R6271<br>R6275 ,R6276 ,R6278 ,R6283 ,R6284<br>R6290 ,R6293 ,R6294 ,R6297<br>R6243 ,R6244 | RD1/4PU102J<br>RS1/8S0R0J<br>RS1/8S0R0J<br>RS1/8S0R0J<br>RS1/8S101J |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|

|                                           |                                                                    |
|-------------------------------------------|--------------------------------------------------------------------|
| R6211<br>R6237<br>R6209<br>R6239<br>R6101 | RS1/8S103J<br>RS1/8S182J<br>RS1/8S221J<br>RS1/8S332J<br>RS1/8S470J |
|-------------------------------------------|--------------------------------------------------------------------|

|               |         |
|---------------|---------|
| VR6201 (10KΩ) | ACP1056 |
|---------------|---------|

|                                      |             |
|--------------------------------------|-------------|
| VR6202 VRTB6VS223<br>Other Resistors | RS1/10S□□□J |
|--------------------------------------|-------------|

### OTHERS

|        |                              |            |
|--------|------------------------------|------------|
| BN6201 | TERMINAL 4-P                 | AKE7028    |
| CN6201 | 14P SOCKET                   | KP200IA14L |
| X6201  | CRYSTAL RESONATOR (456MHz)   | ASS1066    |
| X6202  | CERAMIC RESONATOR (450KHz)   | ATF1027    |
| X6203  | CRYSTAL RESONATOR (7.200MHz) | ASS1042    |
|        | AM RF TUNING BLOCK           | AXX1025    |

## P DIR RESET SW ASSY

### SEMICONDUCTORS

|                                |                               |
|--------------------------------|-------------------------------|
| Q9998<br>Q9999<br>D9998 ,D9999 | DTC124EK<br>2SC2712<br>1SS355 |
|--------------------------------|-------------------------------|

### CAPACITORS

|       |           |
|-------|-----------|
| C9999 | CEV100M16 |
|-------|-----------|

### RESISTORS

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

## 6. ADJUSTMENT

### 6.1 TUNER SECTION

#### ■ FM Tuner Section

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 1-1.

| Step No. | Adjustment Title                 | FM SG (1kHz, $\pm 75\text{kHz}$ dev.) |                    | Reception Frequency Display | Adjustment Location | Specifications                                                                                                                                 |
|----------|----------------------------------|---------------------------------------|--------------------|-----------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                  | Frequency (MHz)                       | Level (dB $\mu$ V) |                             |                     |                                                                                                                                                |
| 1        | Center Adjustment                | 98<br>Non modulation                  | 80 or more         | —                           | L6207               | Adjust so that the DC voltage between the IC6201-Pin 4 and Pin 28 (or $\oplus$ leads of C6224 and C6261) becomes $0\text{V} \pm 50\text{mv}$ . |
| 2        | Front End Sensitivity Adjustment | 98                                    | 10 to 30           | 98MHz                       | L6102<br>T6101      | Adjust so that the DC voltage between the IC6201-Pin 12 and GND (or $\oplus$ leads of C6238 and GND) becomes at maximum level.                 |
| 3        | Stereo Distortion                | 98                                    | 80                 | 98MHz                       | T6101               | Minimize the distortion with 1/8 rotation of the core.                                                                                         |
| 4        | TUNED IND. Lighting Level        | 98                                    | $15 \pm 2$         | 98MHz                       | VR6201              | Adjust so that the indicator of TUNED IND. starts to light up.                                                                                 |

Notes:

- Before adjusting, make sure there is no gap between L6101 and L6102. If there is a gap between them, bring them into contact with each other first, and then make adjustments.
- Make indicator adjustments in order of AM  $\rightarrow$  FM.

#### ■ AM Tuner Section

- Set the mode selector to AM BAND.
- Connect the wiring as shown in Fig. 1-1.

| Step No. | Adjustment Title          | AM SG (400Hz, 30% Mod.) |                         | Reception Frequency Display | Adjustment Location | Specifications                                                 |
|----------|---------------------------|-------------------------|-------------------------|-----------------------------|---------------------|----------------------------------------------------------------|
|          |                           | Frequency (kHz)         | Level (dB $\mu$ V/m)    |                             |                     |                                                                |
| 1        | TUNED IND. Lighting Level | 999*1                   | 47 ( $\pm 2\text{dB}$ ) | 999kHz*1                    | VR6202              | Adjust so that the indicator of TUNED IND. starts to light up. |

\*1: For the area using 10kHz step, frequencies should be 1000 kHz

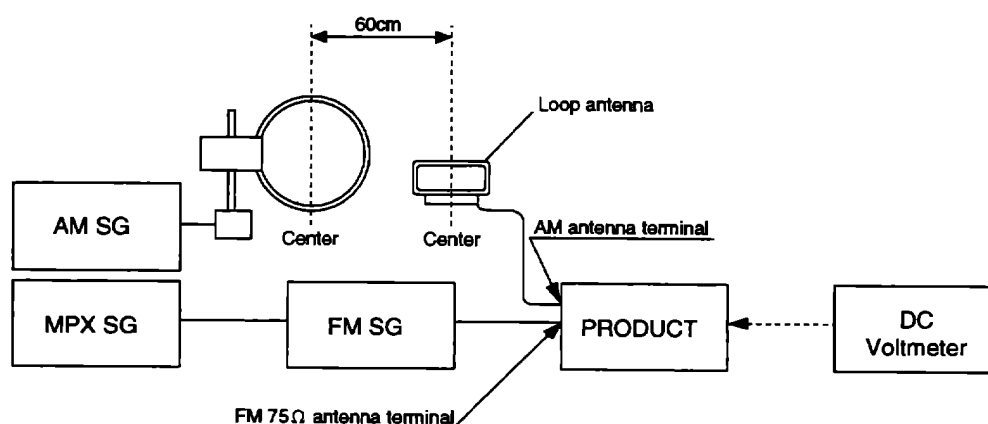


Fig. 1-1 AM and FM Adjustment Wiring Diagram

## FM/AM TUNER MODULE

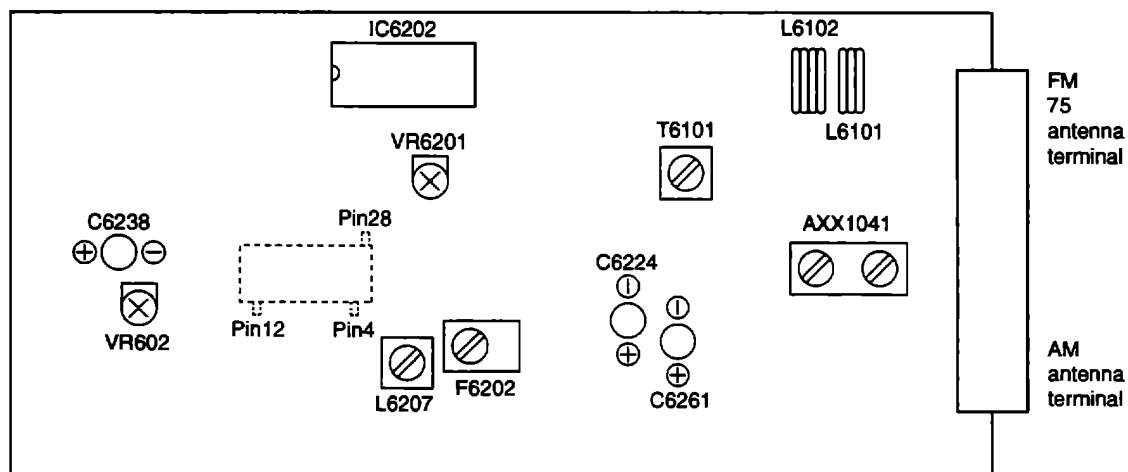


Fig. 1-2 Adjustment Points

## 7. GENERAL INFORMATION

### 7.1 PARTS

#### 7.1.1 IC

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

#### ■ PDG192A (FL/U-COM ASSY : IC901)

#### ● Microcomputer Port Function Table

| PIN No. | PIN NAME     | FUNCTION | RESET       |   | FUNCTION        |  |
|---------|--------------|----------|-------------|---|-----------------|--|
| 1       | G1/A1        | O/O      | Hi-Z or PD  | O | FL Grid 2       |  |
| 2       | G0/A0        | O/O      | Hi-Z or PD  | O | FL Grid 1       |  |
| 3       | NC           | (5V)     |             |   | (5V)            |  |
| 4       | PE0/EC0/INT0 | I/I/I    | Hi-Z        | I | AC WAKE-UP      |  |
| 5       | PE1/EC1/INT1 | I/I/I    | Hi-Z        | I | no use          |  |
| 6       | PE2/INT2     | I/I      | Hi-Z        | I | no use          |  |
| 7       | PE3/INT3/NMI | I/I/I    | Hi-Z        | I | AC-3 REQ.       |  |
| 8       | PE4/RMC      | I/I      | Hi-Z        | I | RMC             |  |
| 9       | PE5          | I/I      | Hi-Z        | I | 9K/10K          |  |
| 10      | PE6/PWM      | O/O      | H           | O | VOL.UP          |  |
| 11      | PE7/T0/ADJ   | O/O/O    | H           | O | VOL.DOWN        |  |
| 12      | PC0/KR0      | IO/I     | Hi-Z        | I | TUNED           |  |
| 13      | PC1/KR1      | IO/I     | Hi-Z        | I | STEREO          |  |
| 14      | PC2/KR2      | IO/I     | Hi-Z        | I | JOG 1           |  |
| 15      | PC3/KR3      | IO/I     | Hi-Z        | I | JOG 2           |  |
| 16      | PC4/KR4      | IO/I     | Hi-Z        | I | KEY IN 1        |  |
| 17      | PC5/KR5      | IO/I     | Hi-Z        | I | KEY IN 2        |  |
| 18      | PC6/KR6      | IO/I     | Hi-Z        | I | KEY IN 3        |  |
| 19      | PC7/KR7      | IO/I     | Hi-Z        | I | DEM.LOCK        |  |
| 20      | PB0/CINT     | IO/I     | Hi-Z        | I | DIR. LOCK       |  |
| 21      | PB1/CS0      | IO/I     | Hi-Z        | O | AC-3 RST        |  |
| 22      | PB2/SCK0     | IO/IO    | Hi-Z        | O | AC-3 CK         |  |
| 23      | PB3/SI0      | IO/I     | Hi-Z        | I | AC-3 OUT        |  |
| 24      | PB4/SO0      | IO/I     | Hi-Z        | O | AC-3 DT         |  |
| 25      | PB5/SCK1     | IO/IO    | Hi-Z        | O | AC-3 CS         |  |
| 26      | PB6/SI1      | IO/I     | Hi-Z        | O | AD/DIR          |  |
| 27      | PB7/SO1      | IO/O     | Hi-Z        | O | AC-3 STOP       |  |
| 28      | AVREF        | I        | (5V)        | I | 5V              |  |
| 29      | PA0/ANO      | IO/AI    | Hi-Z        | I | KU-HY SELECTION |  |
| 30      | PA1/AN1      | IO/AI    | Hi-Z        | O | BAND            |  |
| 31      | PA2/AN2      | IO/AI    | Hi-Z        | O | no use          |  |
| 32      | PA3/AN3      | IO/AI    | Hi-Z        | I | DSP OL          |  |
| 33      | PA4/AN4      | IO/AI    | Hi-Z        | I | AMP OL          |  |
| 34      | PA5/AN5      | IO/AI    | Hi-Z        | I | AMP DC          |  |
| 35      | PA6/AN6      | IO/AI    | Hi-Z        | O | V.CONT B        |  |
| 36      | PA7/AN7      | IO/AI    | Hi-Z        | O | V.CONT A        |  |
| 37      | AVss         | (GND)    | GND         |   | GND             |  |
| 38      | RST          | I        | LOW         | I | RST             |  |
| 39      | EXTAL        | I        | OSCILLATION | I | OSCILLATION     |  |
| 40      | XTAL         | O        | OSCILLATION | O | OSCILLATION     |  |
| 41      | Vss          | (GND)    | GND         |   | GND             |  |
| 42      | TX           | O        |             | O | OPEN            |  |
| 43      | TEX          | I        |             | I | GND             |  |
| 44      | VDD          | (5V)     | 5V          |   | 5V              |  |
| 45      | VFDP         | (Vf)     | Vf          |   | Vf              |  |
| 46      | PD0/A55      | O/O      | Hi-Z or PD  | O | V.MUTE          |  |
| 47      | PD1/A54      | O/O      | Hi-Z or PD  | O | AC RY           |  |
| 48      | PD2/A53      | O/O      | Hi-Z or PD  | O | R.C. RY         |  |
| 49      | PD3/A52      | O/O      | Hi-Z or PD  | O | FRONT RY        |  |
| 50      | PD4/A51      | O/O      | Hi-Z or PD  | O | SP-B RY         |  |

| PIN No. | PIN NAME        | FUNCTION | RESET      |   | FUNCTION     |  |  |
|---------|-----------------|----------|------------|---|--------------|--|--|
| 51      | PD5/A50         | O/O      | Hi-Z or PD | O | HP RY        |  |  |
| 52      | PD6/A49         | O/O      | Hi-Z or PD | O | SP-A RY      |  |  |
| 53      | PD7/A48         | O/O      | Hi-Z or PD | O | no use       |  |  |
| 54      | PF0/A47         | O/O      | Hi-Z or PD | O | no use       |  |  |
| 55      | PF1/A46         | O/O      | Hi-Z or PD | O | no use       |  |  |
| 56      | PF2/A45         | O/O      | Hi-Z or PD | O | ( OPEN )     |  |  |
| 57      | PF3/A44         | O/O      | Hi-Z or PD | O | ( OPEN )     |  |  |
| 58      | PF4/A43         | O/O      | Hi-Z or PD | O | F. ST 3      |  |  |
| 59      | PF5/A42         | O/O      | Hi-Z or PD | O | F. ST 2      |  |  |
| 60      | PF6/A41         | O/O      | Hi-Z or PD | O | F. ST 1      |  |  |
| 61      | PF7/A40         | O/O      | Hi-Z or PD | O | SYS. DT      |  |  |
| 62      | PG0/A39         | O/O      | Hi-Z or PD | O | SYS. CK      |  |  |
| 63      | PG1/A38         | O/O      | Hi-Z or PD | O | PLL CE       |  |  |
| 64      | PG2/A37         | O/O      | Hi-Z or PD | O | T. MUTE      |  |  |
| 65      | PG3/A36         | O/O      | Hi-Z or PD | O | A. MUTE      |  |  |
| 66      | PG4/A35         | O/O      | Hi-Z or PD | O | MONO         |  |  |
| 67      | PG5/A34         | O/O      | Hi-Z or PD | O | LOUDNESS     |  |  |
| 68      | PG6/A33         | O/O      | Hi-Z or PD | O | ( OPEN )     |  |  |
| 69      | PG7/A32         | O/O      | Hi-Z or PD | O | SEG.21       |  |  |
| 70      | PH0/A31         | O/O      | Hi-Z or PD | O | SEG.20       |  |  |
| 71      | PH1/A30         | O/O      | Hi-Z or PD | O | SEG.19       |  |  |
| 72      | PH2/A29         | O/O      | Hi-Z or PD | O | SEG.18/KEY 1 |  |  |
| 73      | PH3/A28         | O/O      | Hi-Z or PD | O | SEG.17/KEY 2 |  |  |
| 74      | PH4/A27         | O/O      | Hi-Z or PD | O | SEG.16/KEY 3 |  |  |
| 75      | PH5/A26         | O/O      | Hi-Z or PD | O | SEG.15/KEY 4 |  |  |
| 76      | PH6/A25         | O/O      | Hi-Z or PD | O | SEG.14/KEY 5 |  |  |
| 77      | PH7/A24         | O/O      | Hi-Z or PD | O | SEG.13/KEY 6 |  |  |
| 78      | A23             | O        | Hi-Z or PD | O | SEG.12/KEY 7 |  |  |
| 79      | A22             | O        | Hi-Z or PD | O | SEG.11/KEY 8 |  |  |
| 80      | A21             | O        | Hi-Z or PD | O | SEG.10/KEY 9 |  |  |
| 81      | A20             | O        | Hi-Z or PD | O | SEG. 9/KEY10 |  |  |
| 82      | A19             | O        | Hi-Z or PD | O | SEG. 8       |  |  |
| 83      | A18             | O        | Hi-Z or PD | O | SEG. 7       |  |  |
| 84      | A17             | O        | Hi-Z or PD | O | SEG. 6       |  |  |
| 85      | A16             | O        | Hi-Z or PD | O | SEG. 5       |  |  |
| 86      | G15/A15         | O/O      | Hi-Z or PD | O | SEG. 4       |  |  |
| 87      | G14/A14         | O/O      | Hi-Z or PD | O | SEG. 3       |  |  |
| 88      | G13/A13         | O/O      | Hi-Z or PD | O | SEG. 2       |  |  |
| 89      | V <sub>DD</sub> | 5V       | 5V         |   | 5V           |  |  |
| 90      | G12/A12         | O/O      | Hi-Z or PD | O | SEG. 1       |  |  |
| 91      | G11/A11         | O/O      | Hi-Z or PD | O | FL Grid12    |  |  |
| 92      | G10/A10         | O/O      | Hi-Z or PD | O | FL Grid11    |  |  |
| 93      | G9/A9           | O/O      | Hi-Z or PD | O | FL Grid10    |  |  |
| 94      | G8/A8           | O/O      | Hi-Z or PD | O | FL Grid 9    |  |  |
| 95      | G7/A7           | O/O      | Hi-Z or PD | O | FL Grnd 8    |  |  |
| 96      | G6/A6           | O/O      | Hi-Z or PD | O | FL Grid 7    |  |  |
| 97      | G5/A5           | O/O      | Hi-Z or PD | O | FL Grid 6    |  |  |
| 98      | G4/A4           | O/O      | Hi-Z or PD | O | FL Grid 5    |  |  |
| 99      | G3/A3           | O/O      | Hi-Z or PD | O | FL Grid 4    |  |  |
| 100     | G2/A2           | O/O      | Hi-Z or PD | O | FL Grid 3    |  |  |

| Pin No. | Port Function                    | Logic                                              | Function                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|----------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4       | AC WAKE UP input                 | 50 or 60 Hz square wave                            | Same as the conventional model.<br>Normal operation mode when signals are input.<br>When signals are absent and 2 waves are dropped, the "STOP mode" should be set.<br>Note) To prevent incorrect operations due to noise and static electricity, implement noise removal measures.                                                                                                                                            |
| 8       | SR remote controller input       | SR remote controller code (no carrier, Hi active). | The output of the light-receiving section of the remote controller of the unit and output from SR IN of the light-receiving section of the remote controller of other unit are input.                                                                                                                                                                                                                                          |
| 9       | Freq. step select input (9K/10K) | H/L                                                | Selects frequency steps of the tuner.<br>FM AM<br>H 100K 10K<br>L 50K 9K                                                                                                                                                                                                                                                                                                                                                       |
| 10      | VOL.UP output                    | Lo active                                          | Motor volume control. Defined as Lo when VOL.UP.                                                                                                                                                                                                                                                                                                                                                                               |
| 11      | VOL.DOWN output                  | Lo active                                          | Motor volume control. Defined as Lo when VOL.DOWN.                                                                                                                                                                                                                                                                                                                                                                             |
| 12      | TUNED input                      | Hi active                                          | Lo is input when the tuner is being tuned.<br>"TUNED" lights up in the FL display.<br>Functions only during TUNER FUNCTION and normally does not function.                                                                                                                                                                                                                                                                     |
| 13      | STEREO input                     | Hi active                                          | Lo is input when the tuner receives a stereo broadcasting.<br>"STEREO" lights up on the FL display.<br>Does not function when the forcible monaural is ON.<br>Functions only during TUNER FUNCTION and normally does not function.                                                                                                                                                                                             |
| 14      | JOG 1 input                      | Pulse Lo input<br>Normally H                       | JOG counterclockwise direction input.<br>The input sensitivity is the same as the conventional model.<br>(1 click, 1 step?)                                                                                                                                                                                                                                                                                                    |
| 15      | JOG 2 input                      | Pulse Lo input<br>Normally H                       | JOG clockwise direction input.<br>The input sensitivity is the same as the conventional model.<br>(1 click, 1 step?)                                                                                                                                                                                                                                                                                                           |
| 16-18   | KEY SCAN input                   |                                                    | KEY SCAN input of the unit key.                                                                                                                                                                                                                                                                                                                                                                                                |
| 29      | Destination select               | H/L                                                | H:/KU series model (including /SD)<br>L:/HY series model (including /HL, YP)                                                                                                                                                                                                                                                                                                                                                   |
| 32      | DSP input level sensitivity      | Analog input                                       | 0 to 5V input level is input to DSP. When the input level exceeds 2.1V, (ATT)"OVERLOAD" lights up on the FL display.<br>Functions only when analog signals (including AUTO) are input to the DSP. Does not function when the front speaker is set to "LARGE" or in a 2ch playback (including DIRECT).<br>When the front speaker is set to "SMALL", this port functions in 2ch playback (including DIRECT).<br>AC-3 model only. |
| 33      | OL.DETECT input                  | Lo active                                          | Input of the protection circuit as OVERLOAD DETECTOR.<br>When Lo is input, this port opens relays other than the AC relay.<br>"OVERLOAD" flashes on the 8th digits of the FL display for five seconds.                                                                                                                                                                                                                         |

# VSX-D606S

| Pin No.        | Port Function                                   | Logic                                           | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
|----------------|-------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|----|---|---------|----|---|---|--------|----|----|---|---------|----|----|----|
| 34             | DC.DETECT input                                 | Lo active                                       | Input of the protection circuit as DC DETECTOR.<br>When Lo is input, this port opens relays other than the AC relay.<br>"POWEROFF" flashes on the 8th digits of the FL display.                                                                                                                                                                                                                                                                                                                                                                         |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 35, 36         | VIDEO IC CONT. output                           | H/L<br>Depending on LA7952                      | 2-bit parallel control for the video function IC.<br>Refer to SW specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 38             | RESET                                           | Lo active                                       | Same specification as VSX-605S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 39<br>40       | Oscillation input<br>Oscillation output         |                                                 | 7.7MHz (ASS1055)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 46             | VIDEO signal MUTE output                        | Lo active                                       | Output for muting MOTOR OUT<br>Becomes H when in the audio FUNCTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 30             | RDS decoder VDD ON/OFF and FM/AM selection      | H active                                        | Turns ON/OFF the RDS decoder Tr switch for VDD.<br>Lo when in AM and Hi in FM of the function tuner. Lo when the power is OFF.<br>H at other times even when functions other than TUNER are set.                                                                                                                                                                                                                                                                                                                                                        |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 58             | TC9299 ST output                                | Depending on TC9299                             | Serial control STROBE for the electric volume (for REAR, CENT., SUB WF) TC9299 (x2).<br>3 lines of 58, 61, and 62 (AC-3 model only).                                                                                                                                                                                                                                                                                                                                                                                                                    |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 59             | TC9162 ST output                                | Depending on TC9162                             | Serial control STROBE for the function IC TC9162.<br>3 lines of 59, 61, and 62 (AC-3 model only).                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 60             | TC9273 ST output                                | Depending on TC9273                             | Serial control STROBE for the function IC TC9273.<br>3 lines of 60, 61, and 62.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 61             | SYS.DATA output                                 | Depending on TC9273, TC9162, TC9299, and LM7001 | Controls PLL IC, AUDIO FUNC. IC, E.VOL. IC with a serial control data.<br>(TC9162 and TC9299 are only for AC-3 model)                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 62             | SYS.CK output                                   | Depending on TC9273, TC9162, TC9299, and LM7001 | Controls PLL IC, AUDIO FUNC. IC, E.VOL. IC with a serial control clock.<br>(TC9162 and TC9299 are only for AC-3 model)                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 63             | PLL CE. output                                  | Depending on LM7001                             | CHIP ENABLE for the tuner PLL IC serial control.<br>3 lines of 61, 62, and 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 64             | T.MUTE ON/OFF output                            | H active                                        | Muting control for the tuner output.<br>Muting timing is the same as the conventional model.<br>Set to H in functions other than TUNER.                                                                                                                                                                                                                                                                                                                                                                                                                 |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 66             | TUNER forcible monaural ON/OFF output           | H active                                        | Set to H when the forcible monaural is ON in the MPX mode of the TUNER function.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 51             | HP.RY ON/OFF output                             | H active                                        | Turns ON/OFF the Tr switch for the headphone RY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| 52<br>50<br>49 | SP-A RY<br>SP-B RY<br>FRONT RY<br>ON/OFF output | H active                                        | Turns ON/OFF the Tr switch for the front SP to be connected in series. Logic is as follows.<br><div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div></div> <div>52</div> <div>50</div> <div>49</div> </div> <table style="margin-top: 5px; border-collapse: collapse;"> <tr> <td>SP-A ON</td><td>H</td><td>Lo</td><td>H</td></tr> <tr> <td>SP-B ON</td><td>Lo</td><td>H</td><td>H</td></tr> <tr> <td>A,B ON</td><td>Lo</td><td>Lo</td><td>H</td></tr> <tr> <td>A,B OFF</td><td>Hi</td><td>Hi</td><td>Lo</td></tr> </table> | SP-A ON | H | Lo | H | SP-B ON | Lo | H | H | A,B ON | Lo | Lo | H | A,B OFF | Hi | Hi | Lo |
| SP-A ON        | H                                               | Lo                                              | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| SP-B ON        | Lo                                              | H                                               | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| A,B ON         | Lo                                              | Lo                                              | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |
| A,B OFF        | Hi                                              | Hi                                              | Lo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |   |    |   |         |    |   |   |        |    |    |   |         |    |    |    |

| Pin No.                    | Port Function                                                     | Logic     | Function                                                                                                                                                                                                                                |
|----------------------------|-------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 48                         | R.C. RY<br>ON/OFF output                                          | H active  | Turns ON/OFF the Tr switch for the rear, center SP RY.                                                                                                                                                                                  |
| 48-52                      | Protect operation                                                 |           | RY for protection is not provided for this model. The following functions are performed by setting ports 58 to 62 to Lo.<br>Muting when power ON<br>Instantaneous shut-off when power OFF<br>AMP DC protect<br>AMP over loading protect |
| 47                         | AC RY ON/OFF output                                               | H active  | Turns ON/OFF the Tr switch for AC power RY.<br>Lo when stand by, H when power ON.                                                                                                                                                       |
| 65                         | A.MUTE output                                                     | Lo active | Controls the audio system muting.<br>Muting timing is the same as the conventional model.                                                                                                                                               |
| 67                         | LOUDNESS ON/OFF<br>output                                         | H active  | Turns ON/OFF the Tr switch for LOUDNESS.<br>"LOUDNESS" lights up on the FL display when ON.<br>Forcibly turned OFF when DIRECT ON.                                                                                                      |
| 69-90<br>(excluding<br>89) | FL drive segment<br>output<br>Also serves as 72 to 81<br>KEY SCAN | Lo active | FL driver<br>Main unit KEY SCAN output<br>81 is dedicated for selecting a destination.                                                                                                                                                  |
| 1,2<br>&<br>91-100         | FL drive grid output                                              | Lo active | FL driver<br>(91 is for AC-3 model only)                                                                                                                                                                                                |
| 7                          | AC-3 REQ input                                                    | Lo active | Communication request from DSP IC to the main body microcomputer.                                                                                                                                                                       |
| 19                         | DEM.LOCK input                                                    | Lo active | Lo is input when the demodulator IC is locked with the AC-3 RF signal.<br>For models not equipped with a demodulator, the port serves as an output port.                                                                                |
| 20                         | DIR LOCK input                                                    | Lo active | Lo is input when the DIR is locked with the digital input signal.                                                                                                                                                                       |
| 21                         | AC-3 RST output                                                   | Lo active | Resets DSP.                                                                                                                                                                                                                             |
| 22                         | AC-3 CK output                                                    |           | DSP serial control clock output.<br>Refer to the timing chart.                                                                                                                                                                          |
| 23                         | AC-3 OUT output                                                   |           | Data from DSP to the microcomputer.<br>Refer to the timing chart.                                                                                                                                                                       |
| 24                         | AC-3 DT output                                                    |           | Outputs the DSP serial control data.<br>Refer to the timing chart.                                                                                                                                                                      |
| 25                         | AC-3 CS output                                                    | Lo active | Outputs a chip select of the DSP serial control.<br>Refer to the timing chart.                                                                                                                                                          |
| 26                         | AD/DIR                                                            | H/L       | DSP MASTER/SLAVE select output.<br>When analog signal is input:MASTER should be Lo.<br>When the digital and RF signals are input:SLAVE should be H.                                                                                     |
| 27                         | AC-3 STOP output                                                  | H active  | Stops the DSP crystal oscillation and internal PLL oscillation.<br>Set to H only when 2ch STEREO (including DIRECT) with the front speaker is set to "LARGE".<br>Set to Lo when others.                                                 |

# VSX-D606S

## ■ PM4007A (DOLBY DIGITAL ASSY : IC9071)

### ● Pin Function

| Pin No. | Pin Name | I/O | Description | Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|-------------|---------|----------|-----|-------------|
| 1       | GND      | -   | —           | 31      | A7       | O   | FOOIN       |
| 2       | VDD      | -   | —           | 32      | GND      | -   | —           |
| 3       | RESET    | I   | FDS2H       | 33      | VDD      | -   | —           |
| 4       | OSCON    | I   | FDS2H       | 34      | A12      | O   | FOOIN       |
| 5       | DATA     | I   | FDS2H       | 35      | A14      | O   | FOOIN       |
| 6       | MCK      | I   | FDS2H       | 36      | WEB      | O   | FOO1        |
| 7       | MLTB     | I   | FDS2H       | 37      | A13      | O   | FOOIN       |
| 8       | IDST     | O   | FOOI        | 38      | A8       | O   | FOOIN       |
| 9       | IDCK     | O   | FOOI        | 39      | A9       | O   | FOOIN       |
| 10      | IDO      | O   | FOOI        | 40      | GND      | -   | —           |
| 11      | TMO      | I   | FIDI        | 41      | A11      | O   | FOOIN       |
| 12      | ECCK     | O   | FIDI        | 42      | OEB      | O   | FOOI        |
| 13      | DEN      | O   | FIDI        | 43      | A10      | O   | FOOIN       |
| 14      | DRY      | O   | FIDI        | 44      | DB7      | B   | BOW4        |
| 15      | MSYC     | O   | FIDI        | 45      | DB6      | B   | BOW4        |
| 16      | TM1      | I   | FIDI        | 46      | DB5      | B   | BOW4        |
| 17      | A0       | O   | FOOIN       | 47      | DB4      | B   | BOW4        |
| 18      | A1       | O   | FOOIN       | 48      | DB3      | B   | BOW4        |
| 19      | A2       | O   | FOOIN       | 49      | DB2      | B   | BOW4        |
| 20      | A3       | O   | FOOIN       | 50      | DB1      | B   | BOW4        |
| 21      | A4       | O   | FOOIN       | 51      | DB0      | B   | BOW4        |
| 22      | A5       | O   | FOOIN       | 52      | VDD      | -   | —           |
| 23      | TM2      | I   | FIDI        | 53      | GND      | -   | —           |
| 24      | TM3      | I   | FIDI        | 54      | T11      | I   | FIDIN       |
| 25      | XOUT     | O   | OSB6        | 55      | VIN      | I   | OSB6        |
| 26      | XIN      | I   | OSB6        | 56      | VOUT     | O   | OSB6        |
| 27      | XEXT     | I   | FIDI        | 57      | T12      | I   | FIDIN       |
| 28      | GND      | -   | —           | 58      | T13      | I   | FIDIN       |
| 29      | VDD      | -   | —           | 59      | TLDB     | I   | FIDIN       |
| 30      | A6       | O   | FOOIN       | 60      | TCK      | I   | FIDIN       |

| Pin No. | Pin Name | I/O | Description | Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|-------------|---------|----------|-----|-------------|
| 61      | TRP      | O   | FOOI        | 81      | AVDD     | O   | AVDD *1     |
| 62      | TD0      | O   | FOOI        | 82      | CPIN     | O   | VIN *1      |
| 63      | PD0      | O   | BOOB        | 83      | CMIN     | O   | VII *1      |
| 64      | T14      | I   | FIDIN       | 84      | AGND     | O   | AGND *1     |
| 65      | PDDIS    | I   | FIDIN       | 85      | TM4      | O   | FIDI        |
| 66      | MUTO     | O   | FOOI        | 86      | VDD      | O   | —           |
| 67      | T15      | I   | FIDIN       | 87      | DIN      | O   | FIDIH       |
| 68      | VLDY     | O   | FOOI        | 88      | DOUT     | O   | FOOI        |
| 69      | DASYO    | O   | FOOI        | 89      | DOUTB    | —   | FOOI        |
| 70      | DAQUT    | O   | FOOI        | 90      | C9M      | O   | FOOIN       |
| 71      | T16      | I   | FIDIN       | 91      | GND      | O   | —           |
| 72      | T17      | I   | FIDIN       | 92      | WINGT    | O   | FOOI        |
| 73      | T18      | I   | FIDIN       | 93      | SYST0    | O   | FOOI        |
| 74      | C2F1     | O   | FOOI        | 94      | SYST1    | O   | FOOI        |
| 75      | C2F0     | O   | FOOI        | 95      | ADST0    | O   | FOOI        |
| 76      | C1F1     | O   | FOOI        | 96      | ADST1    | O   | FOOI        |
| 77      | C1F0     | O   | FOOI        | 97      | TM5      | O   | FIDI        |
| 78      | MUTI     | I   | FIDIN       | 98      | BUNR1    | O   | FIDI        |
| 79      | VDD      | —   | —           | 99      | AGND     | O   | AGND *2     |
| 80      | GND      | —   | —           | 100     | AVDD     | O   | AVDD *2     |

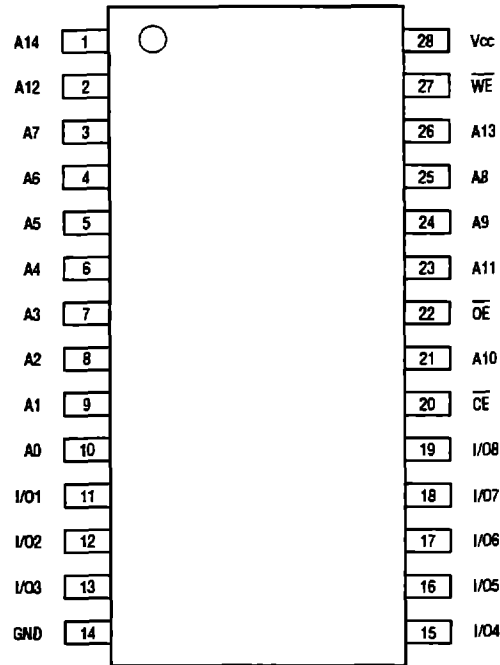
\*1: Connected to a high-speed comparator (AACP25NA).

\*2: Connected to a PLL macro (AAPLLMFC).

# VSX-D606S

## ■ LH52256AN-70LL (DOLBY DIGITAL ASSY : IC9091)

### ● Pin Arrangement (Top View)



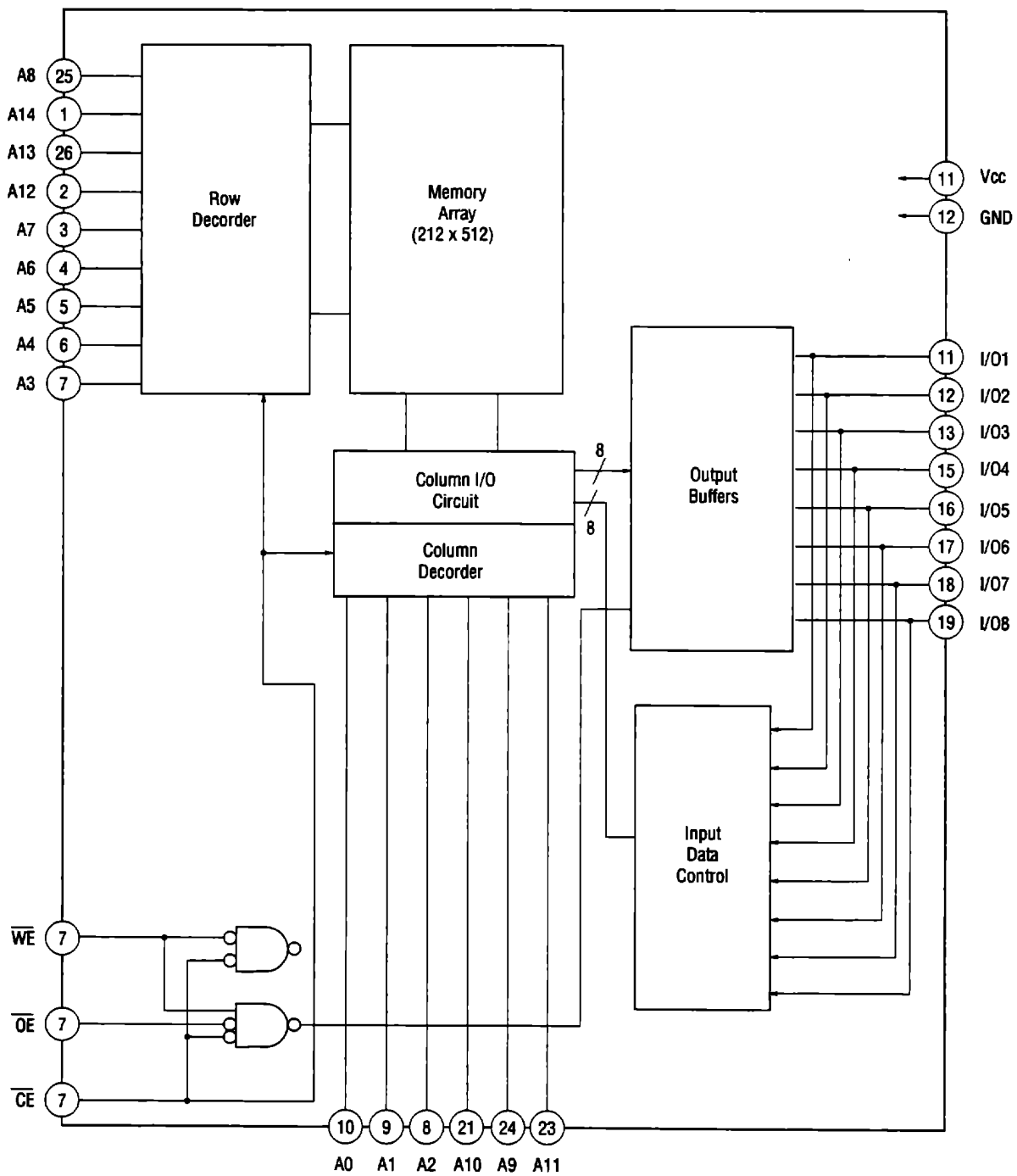
### ● Pin Function

| Pin Name     | Function            |
|--------------|---------------------|
| A0 to A14    | Address Inputs      |
| WE           | Write Enable Input  |
| CS           | Chip Select         |
| OE           | Output Enable Input |
| I/O1 to I/O8 | Data input/Output   |
| Vcc          | Power               |
| Vss          | Groud               |

### ● Operation Mode

| $\overline{CE}$ | $\overline{WE}$ | $\overline{OE}$ | Mode           | I/O1 to I/O8   | Power supply current        |
|-----------------|-----------------|-----------------|----------------|----------------|-----------------------------|
| H               | *               | *               | Standby        | High impedance | Standby(I <sub>sb</sub> )   |
| L               | L               | *               | Write          | Data input     | Operation(I <sub>cc</sub> ) |
| L               | H               | L               | Read           | Data output    | Operation(I <sub>cc</sub> ) |
| L               | H               | H               | Output disable | High impedance | Operation(I <sub>cc</sub> ) |

● Block Diagram

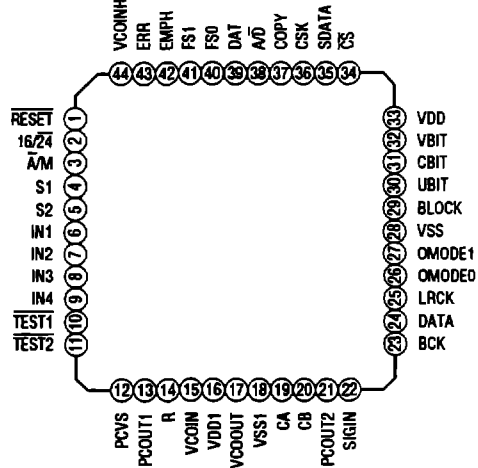


# VSX-D606S

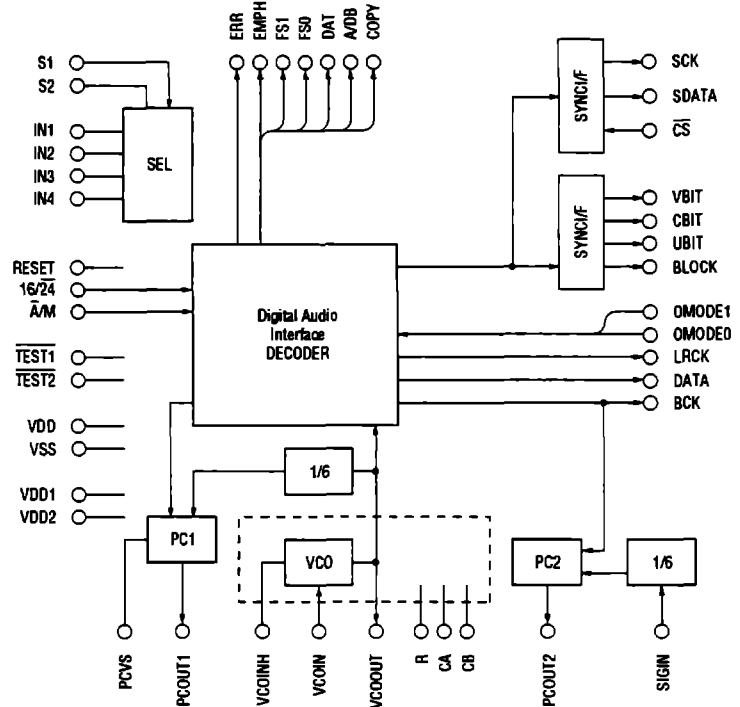
## ■ CD0004AF (DOLBY DIGITAL ASSY : IC9121)

### ● Pin Arrangement

(Top View)



### ● Block Diagram



### ● Pin Function

| Pin No. | Pin Name | I/O | Description                                              |
|---------|----------|-----|----------------------------------------------------------|
| 1       | RESET    | IS  | Power ON reset input. "L":Reset.                         |
| 2       | 16/24    | IT  | Input format selection. With pull-up resistor.           |
| 3       | A/M      | IT  | Input format selection. With pull-up resistor.           |
| 4       | S1       | IT  | Input selection 1                                        |
| 5       | S2       | IT  | Input selection 2                                        |
| 6       | IN1      | IT  | Data input 1                                             |
| 7       | IN2      | IT  | Data input 2                                             |
| 8       | IN3      | IT  | Data input 3                                             |
| 9       | IN4      | IT  | Data input 4                                             |
| 10      | TEST1    | IT  | Test pin 1. Normally "H" or open. With pull-up resistor. |
| 11      | TEST2    | IT  | Test pin 2. Normally "H" or open. With pull-up resistor. |
| 12      | PCVS     | -   | VCO free-running frequency setting input                 |
| 13      | PCOUT1   | -   | Phase comparator output 1                                |
| 14      | R        | -   | Connected to the VCO adjusting resistor.                 |
| 15      | VCOIN    | -   | VCO control voltage input                                |
| 16      | VDD1     | -   | VCO power supply                                         |
| 17      | VCOOUT   | -   | VCO output (384 fs)                                      |
| 18      | VSS1     | -   | VCO GND                                                  |
| 19      | CA       | -   | VCO adjusting capacity connection                        |
| 20      | CB       | -   | VCO adjusting capacity connection                        |
| 21      | PCOUT2   | -   | Phase comparator output 2                                |
| 22      | SIGIN    | IT  | External VCO input                                       |

| Pin No. | Pin Name                | I/O | Description                                       |
|---------|-------------------------|-----|---------------------------------------------------|
| 23      | BCK                     | O   | Demodulation data bit clock output (64 fs)        |
| 24      | DATA                    | O   | Demodulation audio data output                    |
| 25      | LRCK                    | O   | Demodulation data LR clock output. "H":L channel. |
| 26      | OMODE0                  | O   | Data output format selection 0.                   |
| 27      | OMODE1                  | O   | Data output format selection 1.                   |
| 28      | VSS                     | -   | Logic GND                                         |
| 29      | BLOCK                   | O   | Block start output                                |
| 30      | UBIT                    | O   | User data output                                  |
| 31      | CBIT                    | O   | Channel status output                             |
| 32      | VBIT                    | O   | Validity output                                   |
| 33      | VDD                     | -   | Logic power supply                                |
| 34      | $\overline{\text{CS}}$  | IT  | Chip select input. "L":Selected.                  |
| 35      | SDATA                   | OT  | Serial data output                                |
| 36      | SCK                     | IT  | Serial clock input                                |
| 37      | COPY                    | O   | Copy prohibition information output               |
| 38      | $\overline{\text{A/D}}$ | O   | Audio/digital data information output             |
| 39      | DAT                     | O   | DAT information output                            |
| 40      | FS0                     | O   | Sampling frequency information output 0           |
| 41      | FS1                     | O   | Sampling frequency information output 1           |
| 42      | EMPH                    | O   | Emphasis information output                       |
| 43      | ERR                     | O   | Data reading error output. "H":Error occurred.    |
| 44      | VCOINH                  | IT  | Internal VCO oscillation stop input. "H":Stops.   |

IS : Schmidt level input

IT : TTL level input

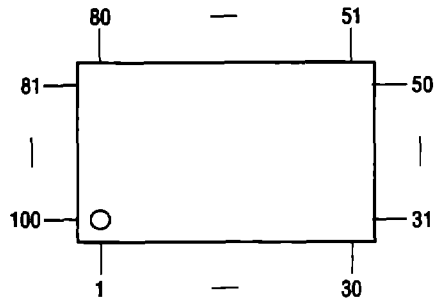
O : CMOS level output

OT : CMOS level tri-state output

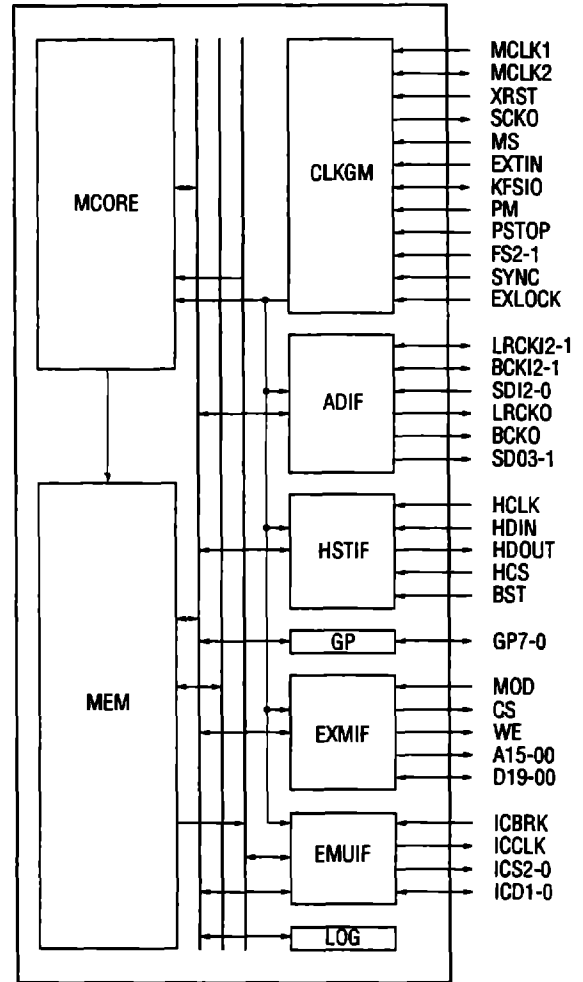
# VSX-D606S

## ■ MB86342A (DOLBY DIGITAL ASSY : IC9301)

### ● Pin Arrangement (Top View)



### ● Block Diagram



### ● Pin Function

| No. | Pin Name | I/O   | Description                                                                       |
|-----|----------|-------|-----------------------------------------------------------------------------------|
| 1   | XRST     | I     | DSP reset signal input                                                            |
| 2   | EXTIN    | I     | System clock signal input (384 fs)                                                |
| 3   | VDD      | Power | —                                                                                 |
| 4   | VSS      | GND   | —                                                                                 |
| 5   | MCLK1    | I     | DSP core clock oscillation input                                                  |
| 6   | MCLK2    | I/O   | DSP core clock oscillation input/output                                           |
| 7   | KFSIO    | I/O   | Audio system clock input/output (384 fs)                                          |
| 8   | SCKO     | O     | DSP core system clock signal output                                               |
| 9   | PM       | I     | Test pin (Normally, clipped to GND.)                                              |
| 10  | PSTOP    | I     | PLL internal oscillation and crystal oscillation termination setting signal input |
| 11  | EXLOCK   | I     | EXTIN lock signal input                                                           |
| 12  | MS       | I     | MUCAP master/slave operation switching signal input                               |
| 13  | FS1      | I     | Sampling frequency switching                                                      |
| 14  | FS2      | I     |                                                                                   |
| 15  | VSS      | GND   | —                                                                                 |

| No. | Pin Name | I/O   | Description                                                                      |
|-----|----------|-------|----------------------------------------------------------------------------------|
| 16  | SYNC     | I     | MUCAP sync/async operation switching signal input                                |
| 17  | LRCKI1   | I/O   | Serial data input rate clock signal input/output for the audio interface         |
| 18  | BCKI1    | I/O   | Serial data input clock signal input/output for the audio interface              |
| 19  | SDI1     | I     | Serial data signal input for the audio interface                                 |
| 20  | LRCKI2   | I     | Serial data input rate clock signal input for the audio interface                |
| 21  | BCKI2    | I     | Serial data input clock signal for the audio interface                           |
| 22  | SDI2     | I     | Serial data signal input for the audio interface                                 |
| 23  | LRCKO    | O     | Serial data output clock signal output for the audio interface                   |
| 24  | BCKO     | O     | Serial data output rate clock signal output for the audio interface              |
| 25  | SDO1     | O     | Serial data signal output for the audio interface                                |
| 26  | SDO2     | O     |                                                                                  |
| 27  | SDO3     | O     |                                                                                  |
| 28  | VDD      | Power | —                                                                                |
| 29  | VSS      | GND   | —                                                                                |
| 30  | GP7      | I/O   | 8-bit general port data signal input/output                                      |
| 31  | GP6      | I/O   |                                                                                  |
| 32  | GP5      | I/O   |                                                                                  |
| 33  | VDD      | Power | —                                                                                |
| 34  | VSS      | GND   | —                                                                                |
| 35  | GP4      | I/O   | 8-bit general port data signal input/output                                      |
| 36  | GP3      | I/O   |                                                                                  |
| 37  | GP2      | I/O   |                                                                                  |
| 38  | GP1      | I/O   |                                                                                  |
| 39  | GP0      | I/O   |                                                                                  |
| 40  | VSS      | GND   | —                                                                                |
| 41  | HCLK     | I     | Serial data signal input/output clock signal input/output for the host interface |
| 42  | HCS      | I     | Chip select signal input for the host interface                                  |
| 43  | HDIN     | I     | Serial data signal input for the host interface                                  |
| 44  | HDOUT    | O     | Serial data signal output for the host interface                                 |
| 45  | BST      | I     | Bootstrap operation mode setting signal input                                    |
| 46  | MOD      | I     | MUCAP bus mode operation setting signal input                                    |
| 47  | CS       | O     | External SRAM interface chip select signal output                                |
| 48  | WE       | O     | External SRAM interface write enable signal output                               |
| 49  | A15      | O     | External SRAM interface address signal output                                    |
| 50  | A14      | O     |                                                                                  |
| 51  | A13      | O     |                                                                                  |
| 52  | A12      | O     |                                                                                  |
| 53  | VDD      | Power | —                                                                                |
| 54  | VSS      | GND   | —                                                                                |
| 55  | A11      | O     | External SRAM interface address signal output                                    |
| 56  | A10      | O     |                                                                                  |
| 57  | A09      | O     |                                                                                  |

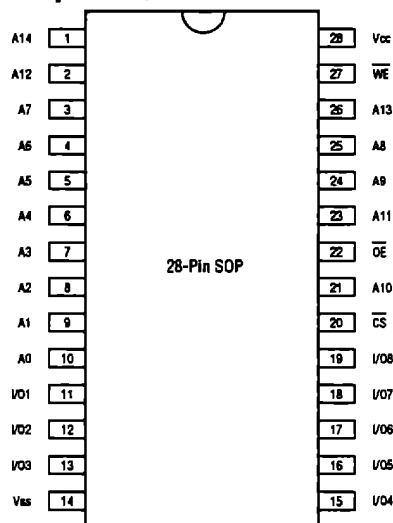
# VSX-D606S

| No. | Pin Name | I/O   | Description                                      |
|-----|----------|-------|--------------------------------------------------|
| 58  | A08      | O     | External SRAM interface address signal output    |
| 59  | A07      | O     |                                                  |
| 60  | A06      | O     |                                                  |
| 61  | A05      | O     |                                                  |
| 62  | A04      | O     |                                                  |
| 63  | A03      | O     |                                                  |
| 64  | A02      | O     |                                                  |
| 65  | VSS      | GND   | —                                                |
| 66  | A01      | O     | External SRAM interface address signal output    |
| 67  | A00      | O     |                                                  |
| 68  | D19      | I/O   | External SRAM interface data signal input/output |
| 69  | D18      | I/O   |                                                  |
| 70  | D17      | I/O   |                                                  |
| 71  | D16      | I/O   |                                                  |
| 72  | D15      | I/O   |                                                  |
| 73  | D14      | I/O   |                                                  |
| 74  | D13      | I/O   |                                                  |
| 75  | D12      | I/O   |                                                  |
| 76  | D11      | I/O   |                                                  |
| 77  | D10      | I/O   |                                                  |
| 78  | VDD      | Power | —                                                |
| 79  | VSS      | GND   | —                                                |
| 80  | D09      | I/O   | External SRAM interface data signal input/output |
| 81  | D08      | I/O   |                                                  |
| 82  | D07      | I/O   |                                                  |
| 83  | VDD      | Power | —                                                |
| 84  | VSS      | GND   | —                                                |
| 85  | D06      | I/O   | External SRAM interface data signal input/output |
| 86  | D05      | I/O   |                                                  |
| 87  | D04      | I/O   |                                                  |
| 88  | D03      | I/O   |                                                  |
| 89  | D02      | I/O   |                                                  |
| 90  | VSS      | GND   | —                                                |
| 91  | D01      | I/O   | External SRAM interface data signal input/output |
| 92  | D00      | I/O   |                                                  |
| 93  | ICCLK    | O     | Emulator clock signal output                     |
| 94  | ICBRK    | I     | Emulator external break signal input             |
| 95  | ICD1     | I/O   | Emulator address/data signal input/output        |
| 96  | ICD0     | I/O   |                                                  |
| 97  | ICS2     | O     | Emulator status signal output                    |
| 98  | ICS1     | O     |                                                  |
| 99  | ICS0     | O     |                                                  |
| 100 | VSS      | GND   | —                                                |

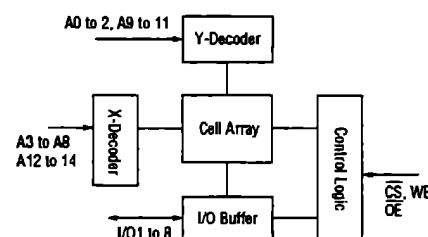
## ■ KM62V256CLG-7L (DOLBY DIGITAL ASSY : IC9361)

### ● Pin Arrangement

(Top View)



### ● Block Diagram



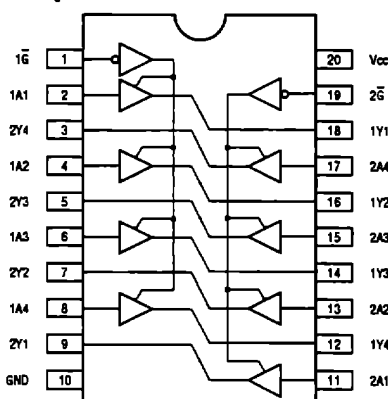
### ● Pin Function

| Pin Name     | Function            |
|--------------|---------------------|
| A0 to A14    | Address Inputs      |
| WE           | Write Enable Input  |
| CS           | Chip Select         |
| OE           | Output Enable Input |
| I/O1 to I/O8 | Data input/Output   |
| Vcc          | Power               |
| Vss          | Ground              |

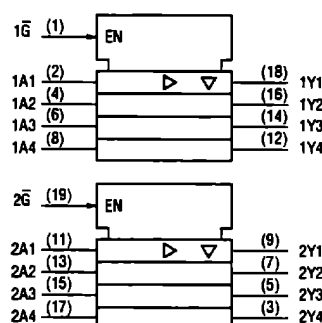
## ■ TC74HCT244AF (DOLBY DIGITAL ASSY : IC9371)

### ● Pin Arrangement

(Top View)



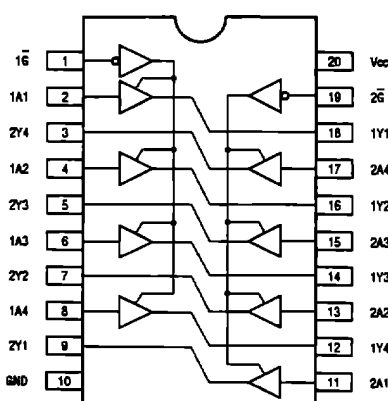
### ● Block Diagram



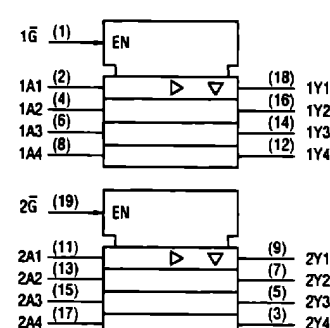
## ■ TC74LVX244FS (DOLBY DIGITAL ASSY : IC9381)

### ● Pin Arrangement

(Top View)



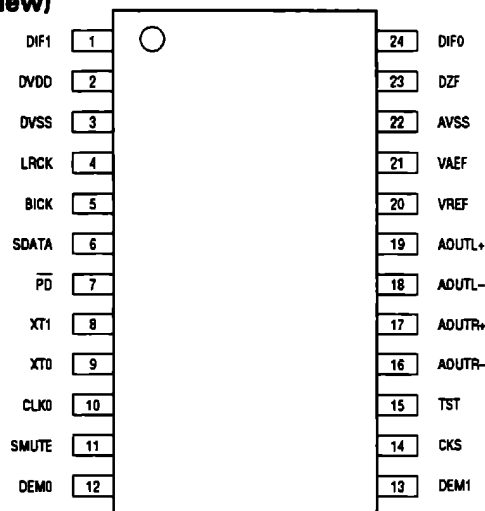
### ● Block Diagram



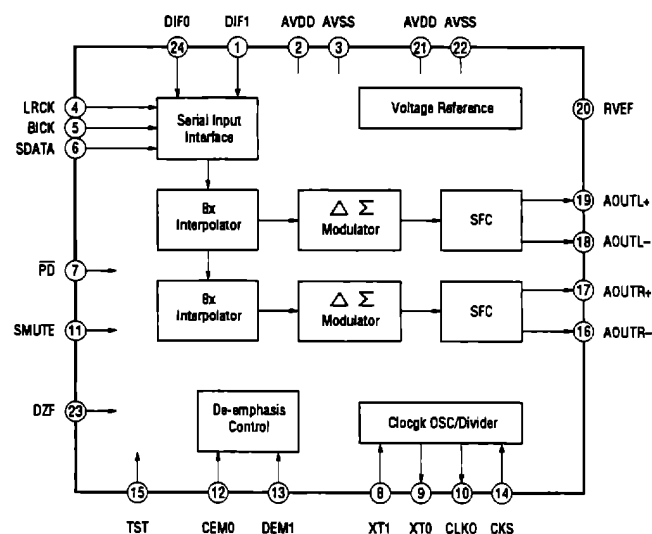
## ■ AK4319-VM (DOLBY DIGITAL ASSY : IC9401, IC9431, IC9461)

### ● Pin Arrangement

#### (Top View)



### ● Block Diagram

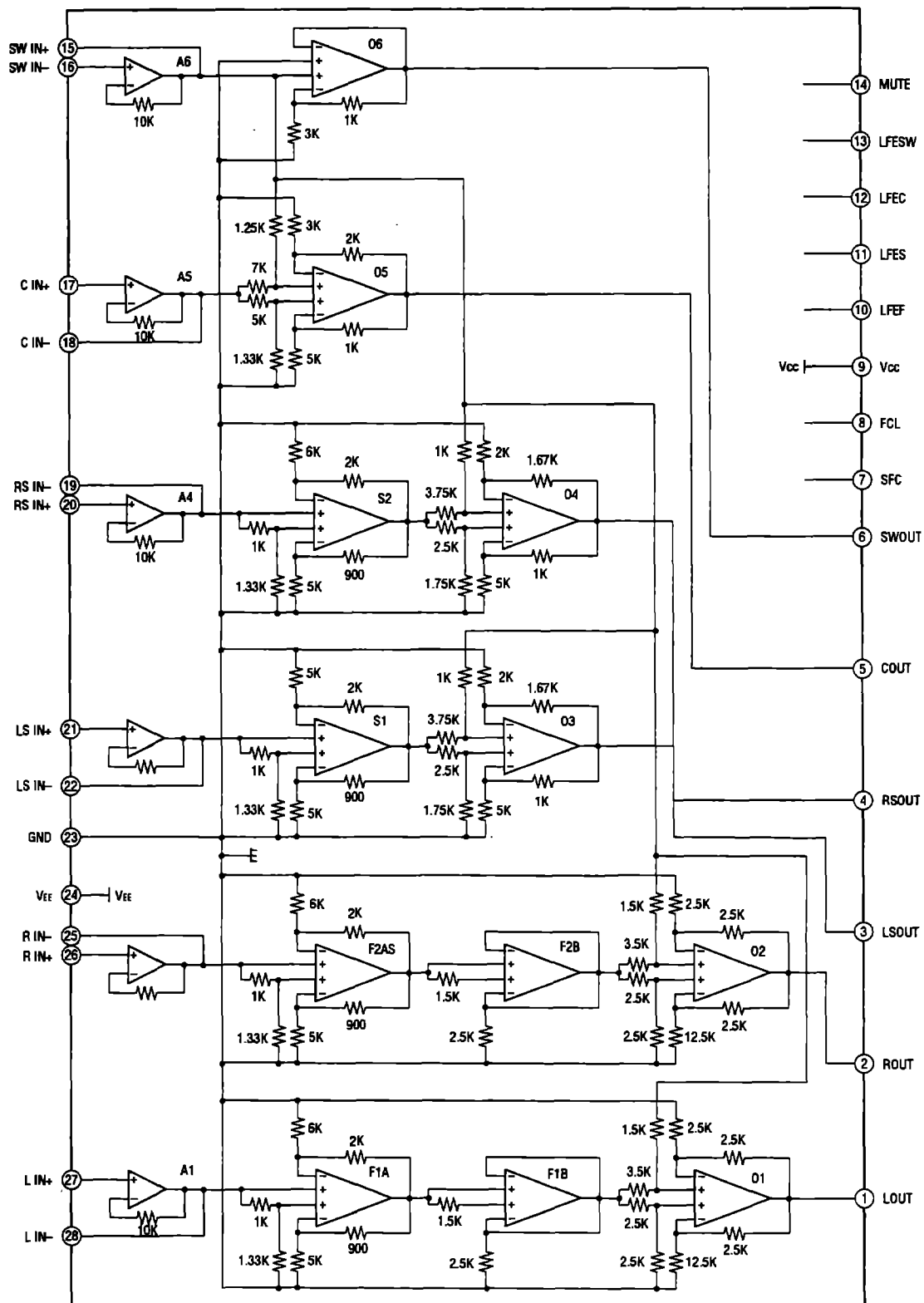


### ● Pin Function

| Pin No. | Pin Name | I/O | Description                                                                                                                                                     |
|---------|----------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | DIF1     | I   | Input format (pull-down pin). Compatible with 4 modes.                                                                                                          |
| 2       | DVDD     | -   | Digital power supply, +5V                                                                                                                                       |
| 3       | DVSS     | -   | Digital GND                                                                                                                                                     |
| 4       | LRCK     | I   | L/R clock. Determines the channel of serial data to be input.                                                                                                   |
| 5       | BICK     | I   | Serial bit clock. Clock for latching the serial data.                                                                                                           |
| 6       | SDATA    | I   | Serial data input pin. 2's compliment, MSB first.                                                                                                               |
| 7       | PD       | I   | Reset pin. When this pin becomes "L", the filter and modulator are reset. When turning on the power, input "L" to reset.                                        |
| 8       | XTI      | I   | Clock input. Connect a crystal oscillator between this pin and XTO pin, or input an external CMOS clock to XT1. Clock frequencies can be selected with CKS pin. |
| 9       | XTO      | I   | Crystal oscillator output pin. When using a crystal oscillator, connect it to XT1. When using an external clock, does not use this pin.                         |
| 10      | CLKO     | O   | Oscillator clock output. Outputs XT1 clock with inverted.                                                                                                       |
| 11      | SMUTE    | O   | Software muting pin (pull-down pin).When "H", a software muting starts. When "L", it is canceled.                                                               |
| 12      | DEMO     | I   | De-emphasize mode. Compatible with three frequencies.                                                                                                           |
| 13      | DEM1     | I   | Clock select pin (pull-down pin). "L":CLK=256 fs, "H":CLK=384 fs.                                                                                               |
| 14      | CKS      | I   | Test pin (pull-down pin). Set to Open or "L".                                                                                                                   |
| 15      | TST      | I   | Rch analog negative output pin                                                                                                                                  |
| 16      | AOUTR-   | O   | Rch analog positive output pin                                                                                                                                  |
| 17      | AOUTR+   | O   | Lch analog negative output pin                                                                                                                                  |
| 18      | AOUTR-   | O   | Lch analog positive output pin                                                                                                                                  |
| 19      | AOUTR+   | O   | Reference voltage output pin, 2.95V (GND reference).                                                                                                            |
| 20      | VREF     | O   | Connect a 10μF electrolytic capacitor and 0.1μF ceramic capacitor to AVSS.                                                                                      |
| 21      | AVDD     | -   | Analog power supply pin, +5V                                                                                                                                    |
| 22      | AVSS     | -   | Analog GND                                                                                                                                                      |
| 23      | DZF      | O   | Zero input detection. Becomes "H" if no data is input to SDATA pin for 8192 times continuously for both channels.                                               |
| 24      | DIF0     | I   | Input format (pull-down pin). Compatible with 4 modes.                                                                                                          |

■ PA4025A (DOLBY DIGITAL ASSY : IC9501)

● Block Diagram



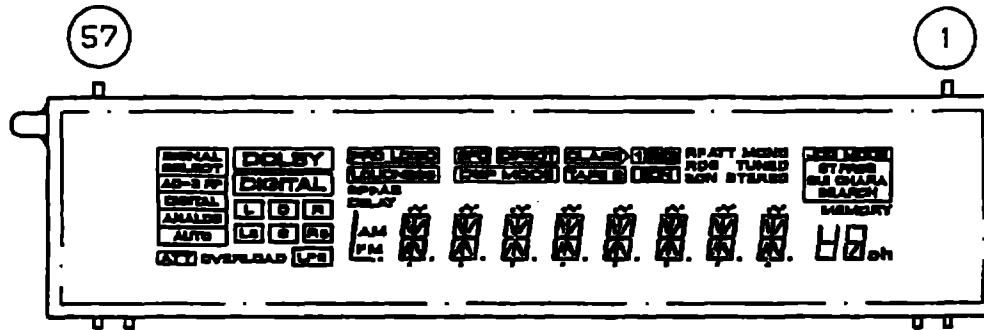
## ● Pin Function

| Pin No. | Pin Name | Description                | Pin No. | Pin Name | Description    |
|---------|----------|----------------------------|---------|----------|----------------|
| 1       | LOUT     | Lch output                 | 15      | GND      | SWch (–) input |
| 2       | ROUT     | Rch output                 | 16      | WINGT    | SWch (+) input |
| 3       | LSOUT    | LSch output                | 17      | SYST0    | Cch (+) input  |
| 4       | RSOUT    | RSch output                | 18      | SYST1    | Cch (–) input  |
| 5       | COUT     | Cch output                 | 19      | ADST0    | RSch (–) input |
| 6       | SWOUT    | SWch output                | 20      | ADST1    | RSch (+) input |
| 7       | SFC      | Gain control (SFC) input   | 21      | TM5      | LSch (+) input |
| 8       | FCL      | Gain control (FCL) input   | 22      | BUNR1    | LSch (–) input |
| 9       | VCC      | VCC                        | 23      | AGND     | GND            |
| 10      | LFEF     | Gain control (LFEF) input  | 24      | AVDD     | VEE            |
| 11      | LFES     | Gain control (LFES) input  | 25      | R IN–    | R ch (–) input |
| 12      | LFEC     | Gain control (LFEC) input  | 26      | R IN+    | R ch (+) input |
| 13      | LFESW    | Gain control (LFESW) input | 27      | L IN+    | L ch (+) input |
| 14      | MUTE     | Mute input                 | 28      | L IN–    | L ch (–) input |

### 7.1.2 DISPLAY

■ **AAV7034 (V901 : FL/U-COM ASSY)**

- **FL Tube**

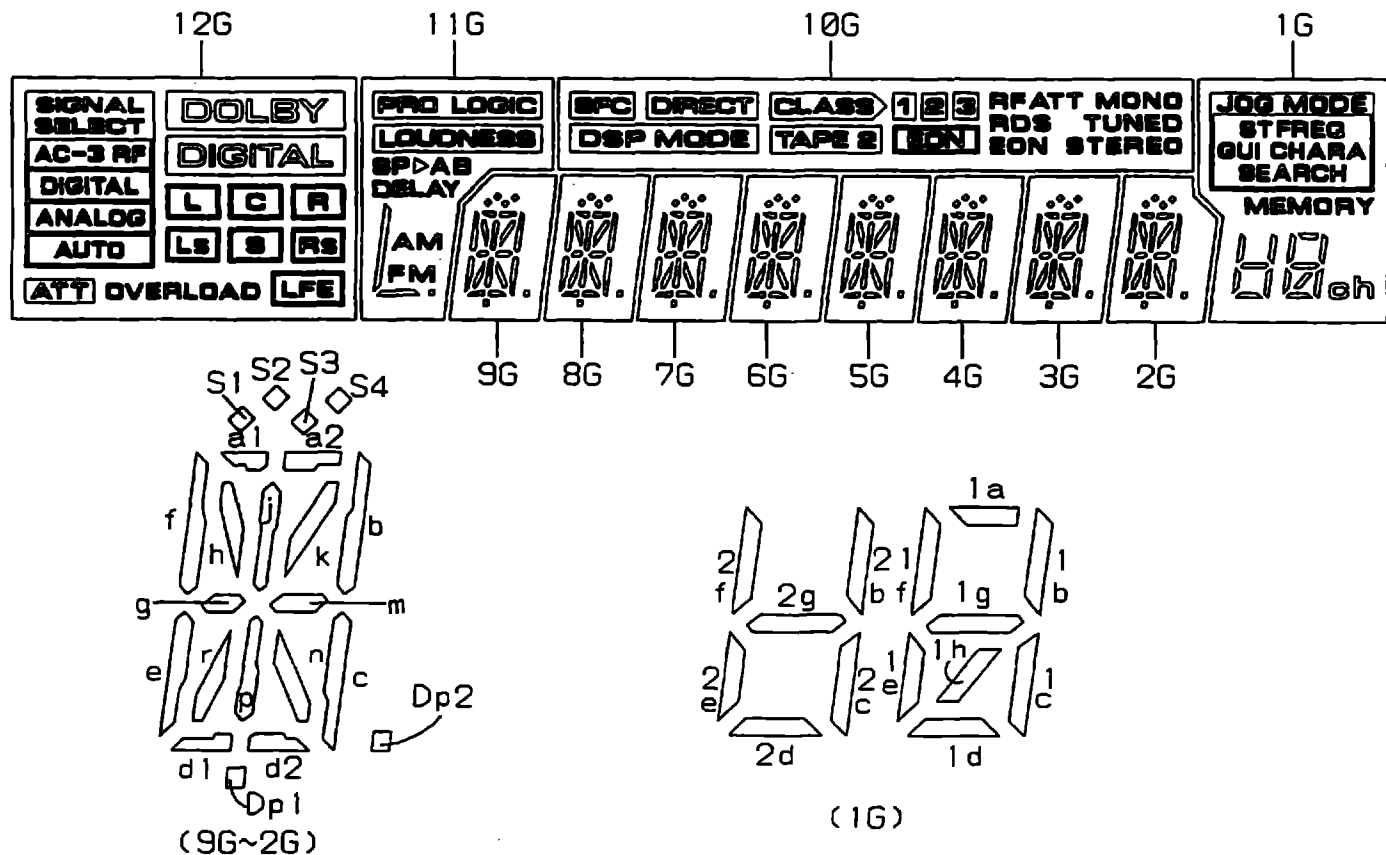


- **Pin Assignment**

[illegible]

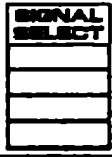
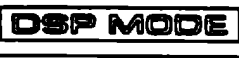
NOTE 1) F1, F2 --- Filament  
2) NP ----- No pin  
3) NX ----- No extend pin  
4) DL ----- Datum Line  
5) 1G~12G --- Grid

- **Grid Assignment**



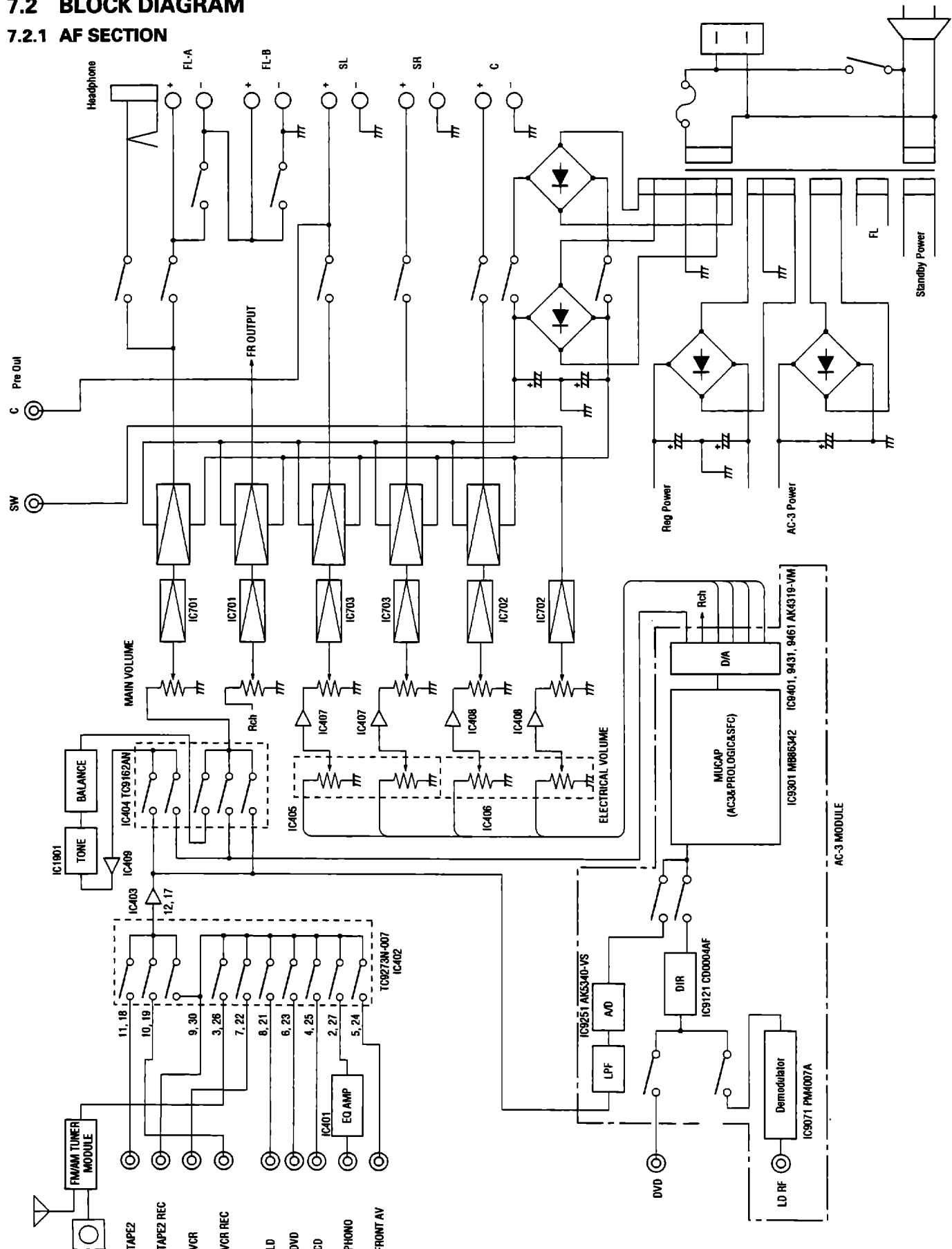
# VSX-D606S

## ● Anode Connection

|     | 12G                                                                                                                                                                 | 11G                                                                               | 10G                                                                                  | 9G~2G  | 1G                                                                                    |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| P1  | <b>DOLBY</b>                                                                                                                                                        |  | <b>MONO</b>                                                                          | a1     | 2b, 2c                                                                                |
| P2  | <b>DIGITAL</b>                                                                                                                                                      | °                                                                                 | <b>TUNED</b>                                                                         | a2     | 2g                                                                                    |
| P3  |                                                                                    | <b>FM</b>                                                                         | <b>STEREO</b>                                                                        | h      | 2d                                                                                    |
| P4  | <b>LS RS</b>                                                                                                                                                        | <b>AM</b>                                                                         | <b>RFATT</b>                                                                         | j      | 2e                                                                                    |
| P5  |   | <b>DELAY</b>                                                                      | <b>RDS</b>                                                                           | k      | 2f                                                                                    |
| P6  | <b>LFE</b>                                                                                                                                                          | <b>B</b>                                                                          | <b>EON</b>                                                                           | b      | 1a                                                                                    |
| P7  |                                                                                    | <b>A</b>                                                                          |     | f      | 1b                                                                                    |
| P8  | <b>C</b>                                                                                                                                                            | <b>SP▷</b>                                                                        |     | m      | 1f                                                                                    |
| P9  |                                                                                   | <b>LOUDNESS</b>                                                                   |    | g      | 1g                                                                                    |
| P10 |                                                                                  | <b>PRO LOGIC</b>                                                                  |   | c      | 1c                                                                                    |
| P11 | <b>L</b>                                                                                                                                                            | -                                                                                 |   | e      | 1h                                                                                    |
| P12 |                                                                                  | -                                                                                 |   | r      | 1e                                                                                    |
| P13 | <b>OVERLOAD</b>                                                                                                                                                     | -                                                                                 |   | p      | 1d                                                                                    |
| P14 |                                                                                  | -                                                                                 |   | n      | ch                                                                                    |
| P15 | <b>AC-3 RF</b>                                                                                                                                                      | -                                                                                 |  | d1     | <b>MEMORY</b>                                                                         |
| P16 | <b>DIGITAL</b>                                                                                                                                                      | -                                                                                 | -                                                                                    | d2     | <b>SEARCH</b>                                                                         |
| P17 | <b>ANALOG</b>                                                                                                                                                       | -                                                                                 | -                                                                                    | Dp1    | <b>CHARA</b>                                                                          |
| P18 | <b>AUTO</b>                                                                                                                                                         | -                                                                                 | -                                                                                    | S1, S3 | <b>GUI</b>                                                                            |
| P19 |                                                                                  | -                                                                                 | -                                                                                    | S4     | <b>FREQ</b>                                                                           |
| P20 | -                                                                                                                                                                   | -                                                                                 | -                                                                                    | S2     | <b>ST</b>                                                                             |
| P21 | -                                                                                                                                                                   | -                                                                                 | -                                                                                    | Dp2    |  |

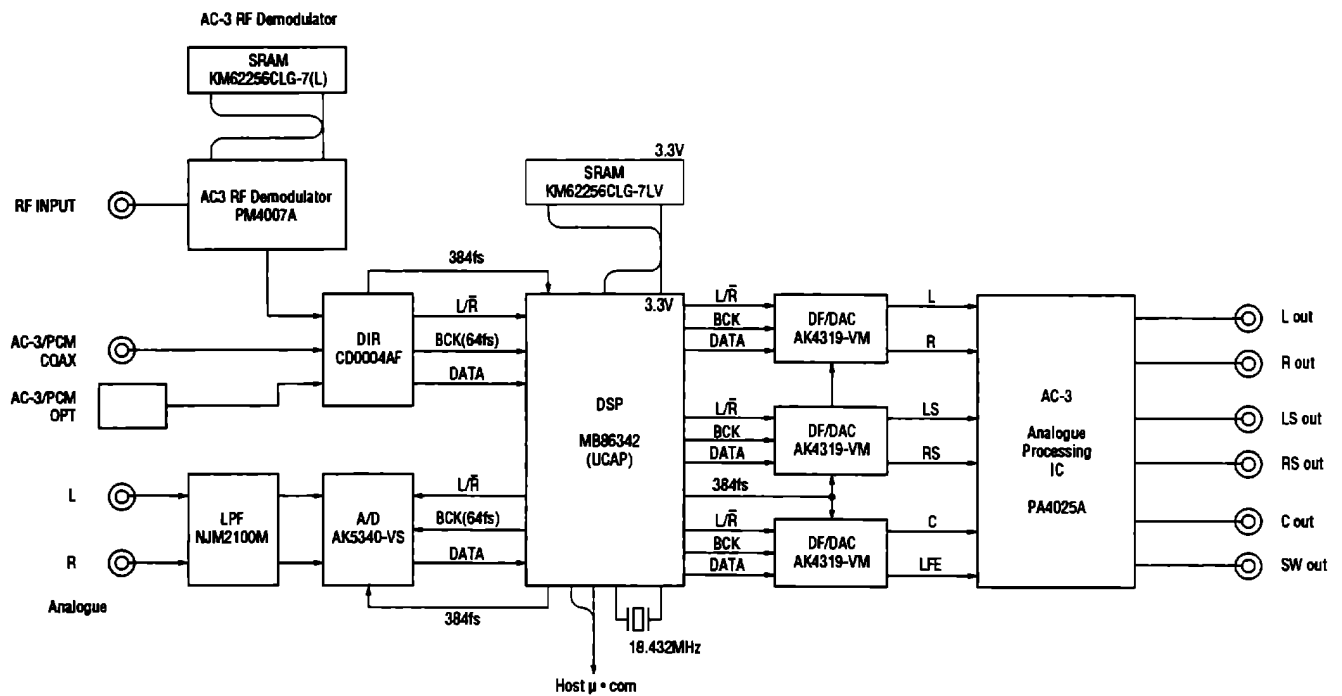
## 7.2 BLOCK DIAGRAM

### 7.2.1 AF SECTION

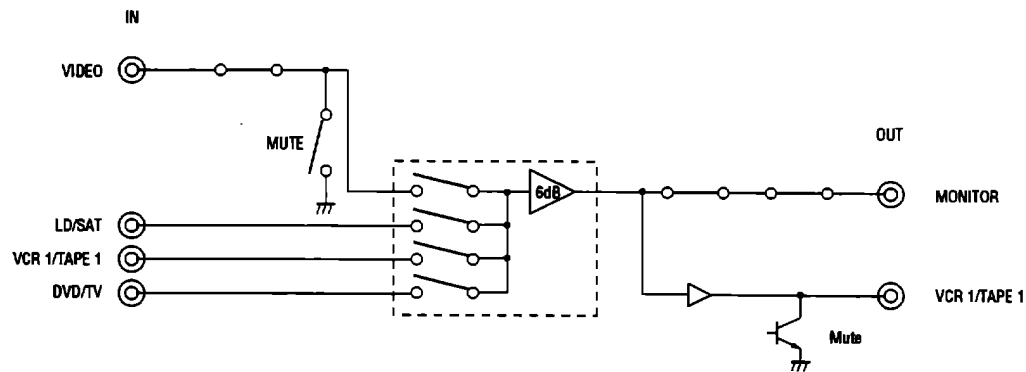


## 7.2.2 AC-3DECODE ASSY AND VIDEO COMPOSITE SECTION

### ● AC-3 DECODE ASSY



### ● VIDEO COMPOSITE SECTION

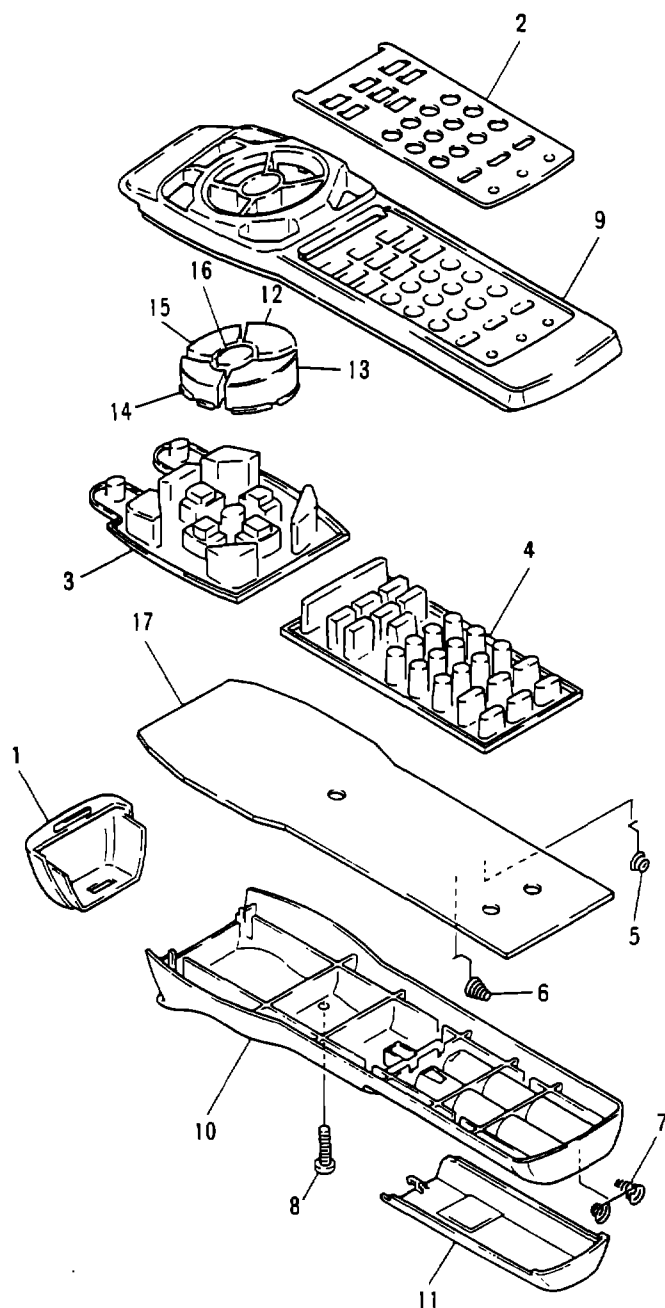


## 7.3 REMOTE CONTROL UNIT [CU-VSX116 (AXD7106)]

### 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 parts. Therefore, when replacing, be sure to use parts of identical designation.



#### ■ Parts List

| Mark | No. | Description       | Part No. |
|------|-----|-------------------|----------|
|      | 1   | Filter            | AZA7152  |
|      | 2   | Name plate        | AZA7241  |
|      | 3   | Rubber sheet (A)  | AZA7236  |
|      | 4   | Rubber sheet (B)  | AZA7243  |
|      | 5   | Spring (+)        | AZB7049  |
|      | 6   | Spring (-)        | AZB7050  |
|      | 7   | Spring            | AZB7051  |
|      | 8   | Screw             | AZB7052  |
|      | 9   | Remo-con case (A) | AZN7672  |
|      | 10  | Remo-con case (B) | AZN7326  |
|      | 11  | Battery cover     | AZN7327  |
|      | 12  | Main key (FF)     | AZN7666  |
|      | 13  | Main key (STOP)   | AZN7329  |
|      | 14  | Main key (REV)    | AZN7665  |
|      | 15  | Main key (PAUSE)  | AZN7331  |
|      | 16  | Main key (PLAY)   | AZN7664  |
| NSP  | 17  | PCB               | AZW7243  |

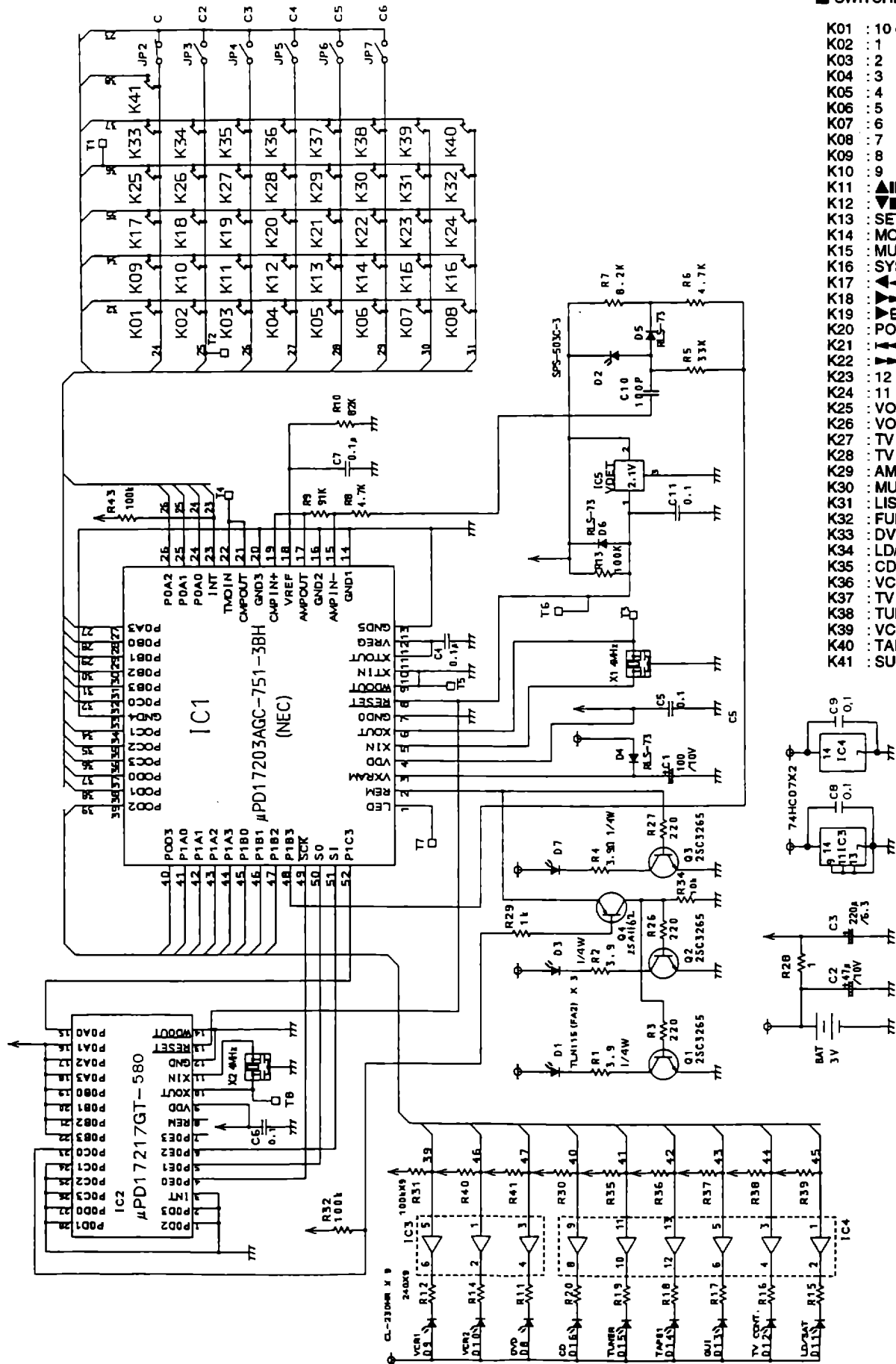
# VSX-D606S

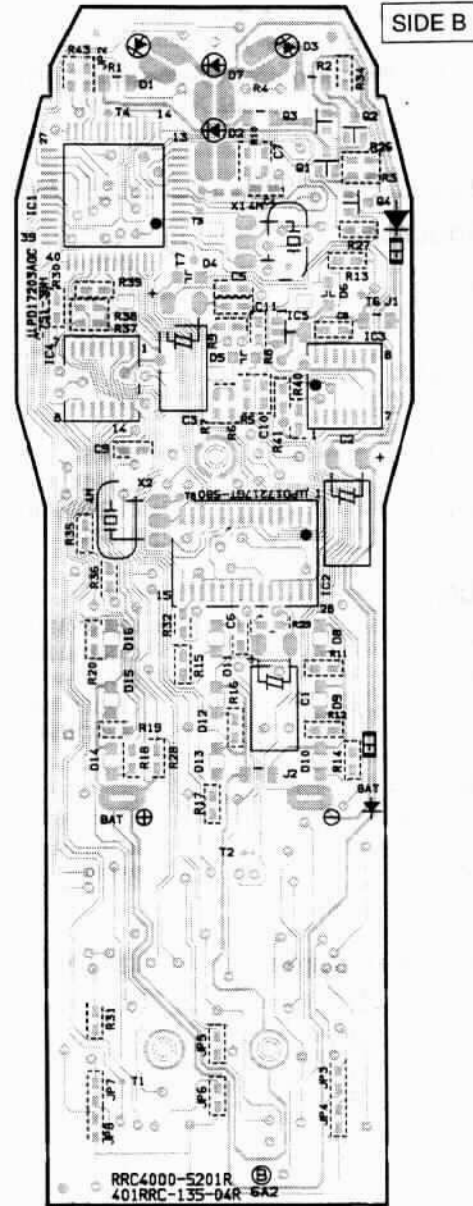
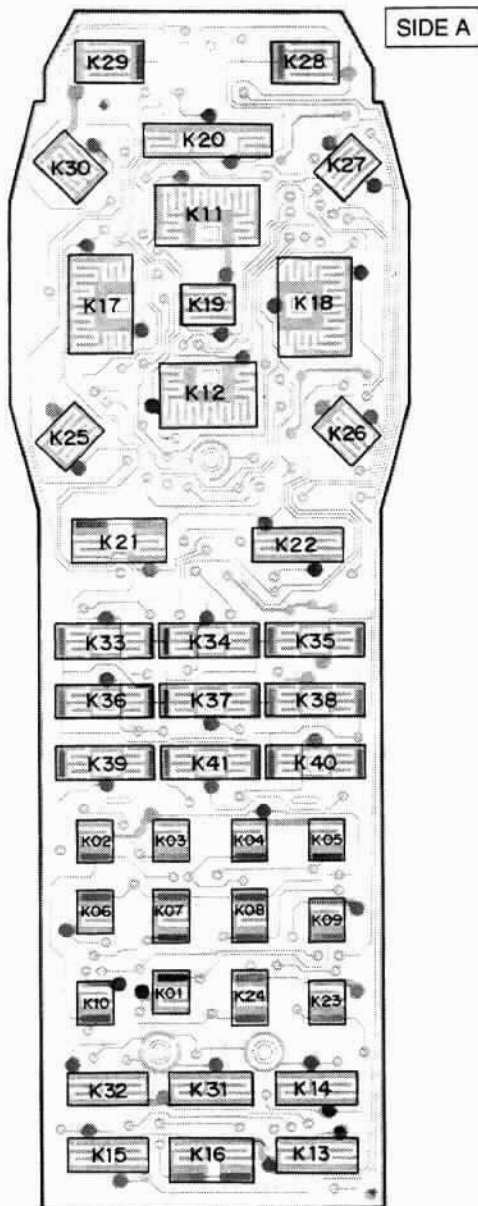
## 7.3.2 SCHEMATIC AND PCB DIAGRAM

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

### ■ SWITCHES

|     |              |
|-----|--------------|
| K01 | : 10 (0)     |
| K02 | : 1          |
| K03 | : 2          |
| K04 | : 3          |
| K05 | : 4          |
| K06 | : 5          |
| K07 | : 6          |
| K08 | : 7          |
| K09 | : 8          |
| K10 | : 9          |
| K11 | : ▲          |
| K12 | : ▼          |
| K13 | : SET UP     |
| K14 | : MODE CHK   |
| K15 | : MULTI OPE. |
| K16 | : SYS.OFF    |
| K17 | : ▲          |
| K18 | : ▼          |
| K19 | : ENT.       |
| K20 | : POWER      |
| K21 | : CH-        |
| K22 | : CH+        |
| K23 | : 12 (DISC)  |
| K24 | : 11 (+10)   |
| K25 | : VOL-       |
| K26 | : VOL+       |
| K27 | : TV FUNC.   |
| K28 | : TV POWER   |
| K29 | : AMP POW.   |
| K30 | : MUTING     |
| K31 | : LIST       |
| K32 | : FUNCTION   |
| K33 | : DVD        |
| K34 | : LD/SAT     |
| K35 | : CD         |
| K36 | : VCR 1      |
| K37 | : TV CONT.   |
| K38 | : TUNER      |
| K39 | : VCR 2      |
| K40 | : TAPE       |
| K41 | : SURROUND   |





## 7.3.3 PCB 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.
  - 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  $\Omega$   $\rightarrow 56 \times 10^1 \rightarrow 561$  ..... RD1/4PU **561 J**

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

0.5  $\Omega$   $\rightarrow R50$  ..... RN2H **R50 K**

1  $\Omega$   $\rightarrow 1R0$  ..... RS1P **1R0 K**

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

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

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

### SEMICONDUCTORS

|            |     |             |
|------------|-----|-------------|
| IC1        |     | AZC7275     |
| IC2        |     | AZC7274     |
| IC3, IC4   |     | TC74HC07AF  |
| IC5        |     | RH5VA21AA   |
| Q4, Q5, Q6 |     | 2SA1037K    |
| Q1, Q2, Q3 |     | 2SC3265     |
| D1, D3, D7 |     | SE1003-C    |
| D2         |     | SPS-503C-3  |
| D8-D20     | LED | CL-230HR-CD |
| D4 - D6    |     | RLS-73      |

### CAPACITORS

|            |  |              |
|------------|--|--------------|
| C2         |  | CEAS470M10   |
| C4-C7, C11 |  | CKSQYB104K25 |
| C3         |  | CEAS221M10   |
| C1         |  | CEAS101M6R3  |
| C8 -C10    |  | CCSQCH100J50 |

### RESISTORS

|                 |  |             |
|-----------------|--|-------------|
| R2001, R2002    |  | RS1/8S0R0J  |
| R1, R2, R4      |  | RS1/8S3R9J  |
| Other Resistors |  | RS1/10S□□□J |

### OTHERS

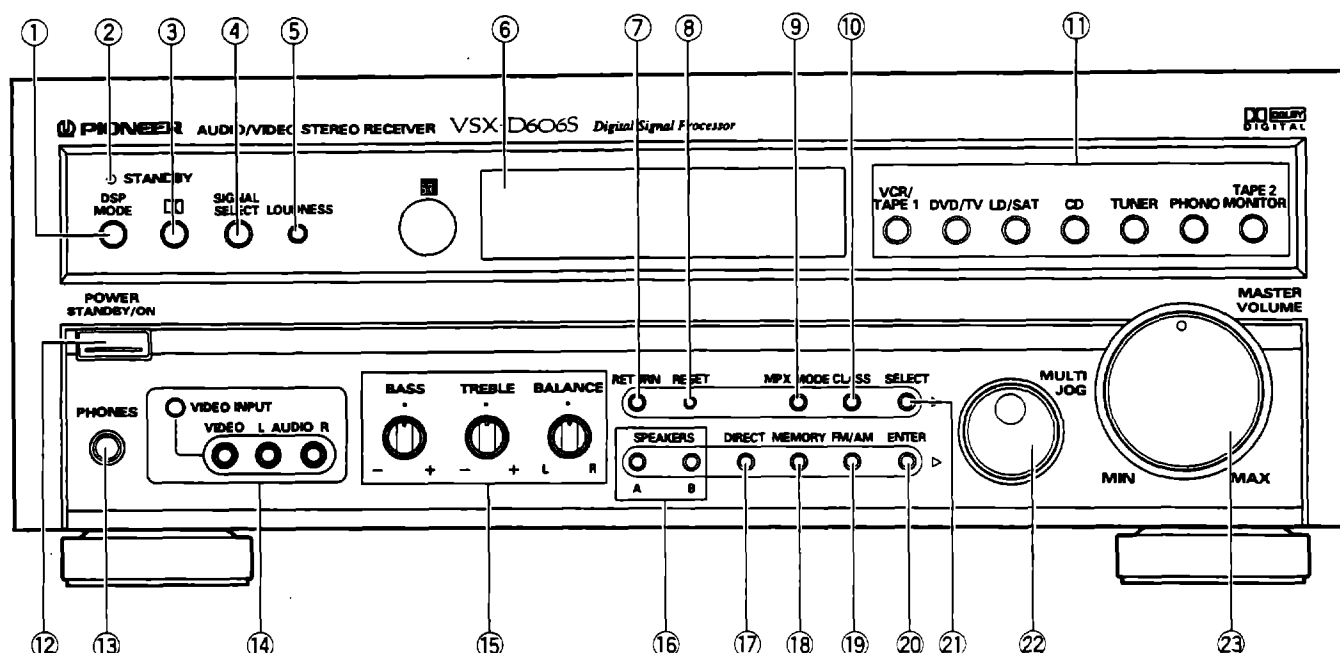
|        |                  |          |
|--------|------------------|----------|
| X1, X2 | RESONATOR (4MHz) | KBR-4.0M |
|--------|------------------|----------|

## 8. PANEL FACILITIES AND SPECIFICATIONS

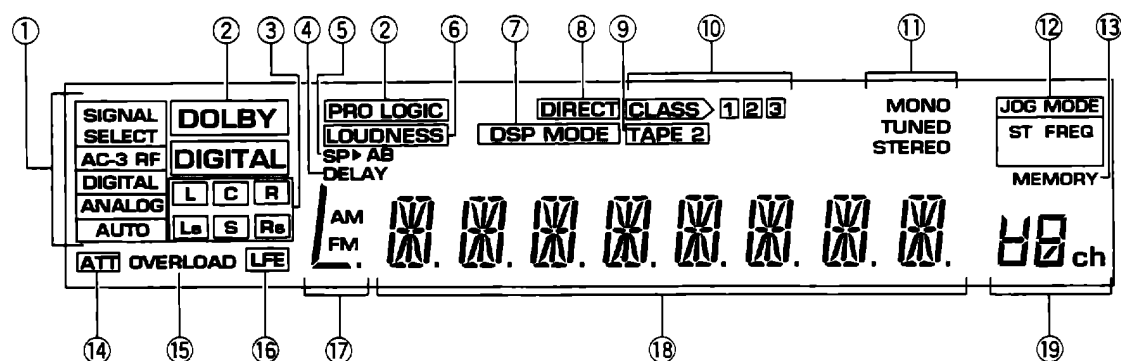
### NAMES OF PARTS

\* The size of characters shown in the figure may differ from that on the actual product.

Front panel



- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>① <b>DSP MODE button (VSX-D606S)</b></p> <p>② <b>STANDBY indicator</b></p> <p>③ <b>[P] button (VSX-D606S)</b></p> <p>④ <b>SIGNAL SELECT button (VSX-D606S)</b></p> <p>⑤ <b>LOUDNESS button</b><br/>Press this button when the volume is low to raise the low and high range levels so that the sound can be heard more easily.</p> <p>⑥ <b>Display</b></p> <p>⑦ <b>RETURN button</b></p> <p>⑧ <b>RESET button (VSX-D606S)</b></p> <p>⑨ <b>MPX MODE button</b><br/>Use to switch the auto stereo/monaural mode for receiving FM broadcasts. When the received broadcast signal is weak, press this button to set the monaural mode.</p> <p>⑩ <b>CLASS button</b></p> <p>⑪ <b>Function buttons</b></p> <p>⑫ <b>POWER STANDBY/ON button</b></p> <p>⑬ <b>PHONES jack (Headphone terminal)</b></p> | <p>⑭ <b>VIDEO INPUT button/terminal</b><br/>Connect to a video camera, etc.</p> <p>⑮ <b>TONE and BALANCE controls</b><br/>Use to adjust tone and volume balance.</p> <p>⑯ <b>SPEAKERS A, B buttons</b><br/>ON/OFF switches for the A and B speaker systems.</p> <p>⑰ <b>DIRECT button (VSX-D606S)</b><br/>Use to play back sound without going through the tone and balance control circuits. DOLBY MODE, DSP MODE and LOUDNESS also turn off.</p> <p>⑱ <b>MEMORY button</b></p> <p>⑲ <b>FM/AM button</b><br/>Use to switch the FM/AM frequency band reception.</p> <p>⑳ <b>ENTER button</b></p> <p>㉑ <b>SELECT button</b><br/>Use to switch the control of the MULTI JOG between station mode and frequency mode when operating the tuner.</p> <p>㉒ <b>MULTI JOG</b><br/>Use to select the frequency and station number when operating the tuner.</p> <p>㉓ <b>MASTER VOLUME</b></p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



### ① SIGNAL SELECT indicators (VSX-D606S)

The input signal format currently selected will light.

### ② DOLBY DIGITAL (VSX-D606S) and PRO LOGIC indicators

"DOLBY" lights when the Dolby mode is ON. There are two Dolby modes-Dolby Digital (AC-3) and Dolby Pro Logic. "DOLBY" and "DIGITAL" light during Dolby Digital, and "DOLBY" and "PRO-LOGIC" light when played back in Dolby Pro Logic.

### ③ PROGRAM FORMAT indicators (VSX-D606S)

When playing back in the Dolby Digital (AC-3) mode, the indicator of the channel set for the playback source lights.

### ④ DELAY indicator

Lights when the delay time is being set.

### ⑤ Speakers A, B indicator

The indicator of the speaker system (A, B) selected will light.

### ⑥ LOUDNESS indicator

Lights when LOUDNESS is ON.

### ⑦ DSP MODE indicator (VSX-D606S)

Lights when DSP MODE is selected.

### ⑧ DIRECT indicator

Lights when DIRECT is ON.

### ⑨ TAPE 2 indicator

Lights when TAPE 2 MONITOR is ON.

### ⑩ CLASS 1, 2, 3 indicators

The indicator of the class number selected lights.

### ⑪ TUNER indicator

#### MONO:

Lights when the monaural mode is set using the MPX MODE button.

#### TUNED:

Lights when broadcasts are being received.

#### STEREO:

Lights when stereo broadcasts are received during auto stereo mode.

### ⑫ JOG MODE indicator

#### ST:

Lights when the station mode is selected.

#### FREQ:

Lights when the frequency mode is selected.

### ⑬ MEMORY indicator

Lights when station memory is selected.

### ⑭ ATT indicator (VSX-D606S)

Lights when INPUT ATT is ON.

### ⑮ OVERLOAD indicator (VSX-D606S)

Lights when input level is excessive when ANALOG is selected (including AUTO) using the SIGNAL SELECT button.

### ⑯ LFE indicator (VSX-D606S)

[LFE] lights when the LFE (Low Frequency Effects) channel is set for the playback source with Dolby Digital. The [LFE] indicator also lights when LFE signals are input.

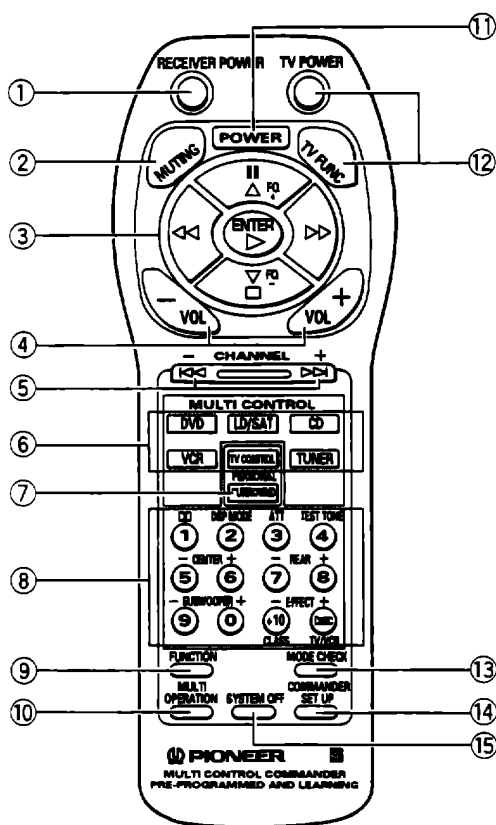
### ⑰ AM/FM indicators

The indicator of the band currently selected (AM/FM) lights.

### ⑱ CHARACTER display

### ⑲ STATION display

Indicates the station number currently selected.



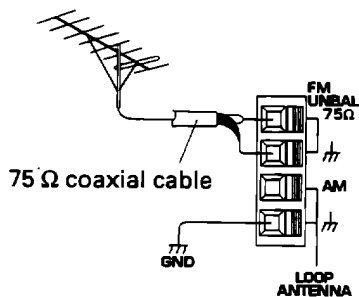
- ① **RECEIVER POWER button**
- ② **MUTING button**  
Press to mute the volume.
- ③ **[When set to SURROUND (OPERATIONS)]**  
△, ▽, ◀, ▶ (Select/Adjust) buttons  
**[When set to other than SURROUND (OPERATIONS)]**  
⏏ (Pause), □ (Stop), ◀◀ (Rewind), ▶▶ (Fast Forward), ▶ (Play) buttons
- ④ **VOL ( -, +) buttons**
- ⑤ **[TV Operations]**  
Selects the TV broadcast channel.  
**[CD, LD, DVD operations]**  
◀◀, ▶▶ (Chapter/Track Search) buttons
- ⑥ **MULTI CONTROL function buttons**  
Used to set and operate the MULTI CONTROL, and switch the function.  
TV CONTROL: Press to operate TV.

- ⑦ **SURROUND/PERSONAL button**  
**[When setting MULTI operations]**  
Press when setting to the personal mode using multi operations.  
**[When setting to other than multi operation]**  
Press when performing surround operations and setting/changing setting modes.
- ⑧ **Number/surround setting buttons**  
**[When setting surround (operations)]**  
  - Ⓚ (VSX-D606S): Turns the Dolby Mode ON/OFF.
  - DSP MODE (VSX-D606S): Switches the surround effects.
  - ATT (VSX-D606S): When turned ON when the sound is unstable due to excessive input levels, the input signal level drops so that the sound becomes easier to listen to.
  - TEST TONE: When turned ON (while in surround mode), volume balance adjustment signals are output in order from the speakers and can be adjusted.
  - CENTER -, +: Adjusts the center level.
  - REAR -, +: Adjusts the rear level.
  - SUB WOOFER -, +: Adjusts the sub woofer level.
  - EFFECT -, + (VSX-D606S): Adjusts DSP effects.
- [Tuner Operations]**  
Number buttons: Use for setting the frequency value when the station call is selected or during direct access.  
CLASS: Switches the CLASS number.
- [VCR operations]**  
TV/VCR: Switches between TV/VCR.
- [CD Operations]**  
DISC: Use to select the DISC number.
- ⑨ **FUNCTION button**  
Switches the function.
- ⑩ **MULTI OPERATION button**  
Use to set the multi operation.
- ⑪ **POWER button**  
Turns ON/OFF the power of devices other than this unit.
- ⑫ **TV buttons**
- ⑬ **MODE CHECK button**
- ⑭ **COMMANDER SET UP button**  
Use to control and learn operations of other manufacturer's equipment, and set multi operation functions.
- ⑮ **SYSTEM OFF button**  
Use to turn OFF the power of all equipment connected to the main unit.

## CONNECTING DEVICES

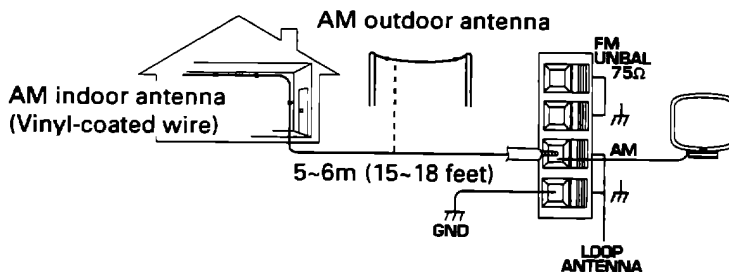
**When connecting or changing equipment, be sure to turn OFF the POWER switch, and disconnect the power cord from the wall outlet.**

■ For better reception of signals, use the FM external antenna.



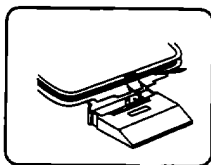
### ■ When AM broadcast reception is poor

Connect a 5 to 6 meter (15~18 feet) long vinyl-coated wire to the AM antenna. If possible draw horizontally outdoors to achieve better reception.

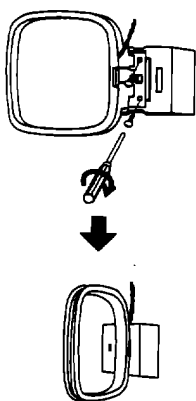


**Stretch out fully and secure onto the wall using pins.**

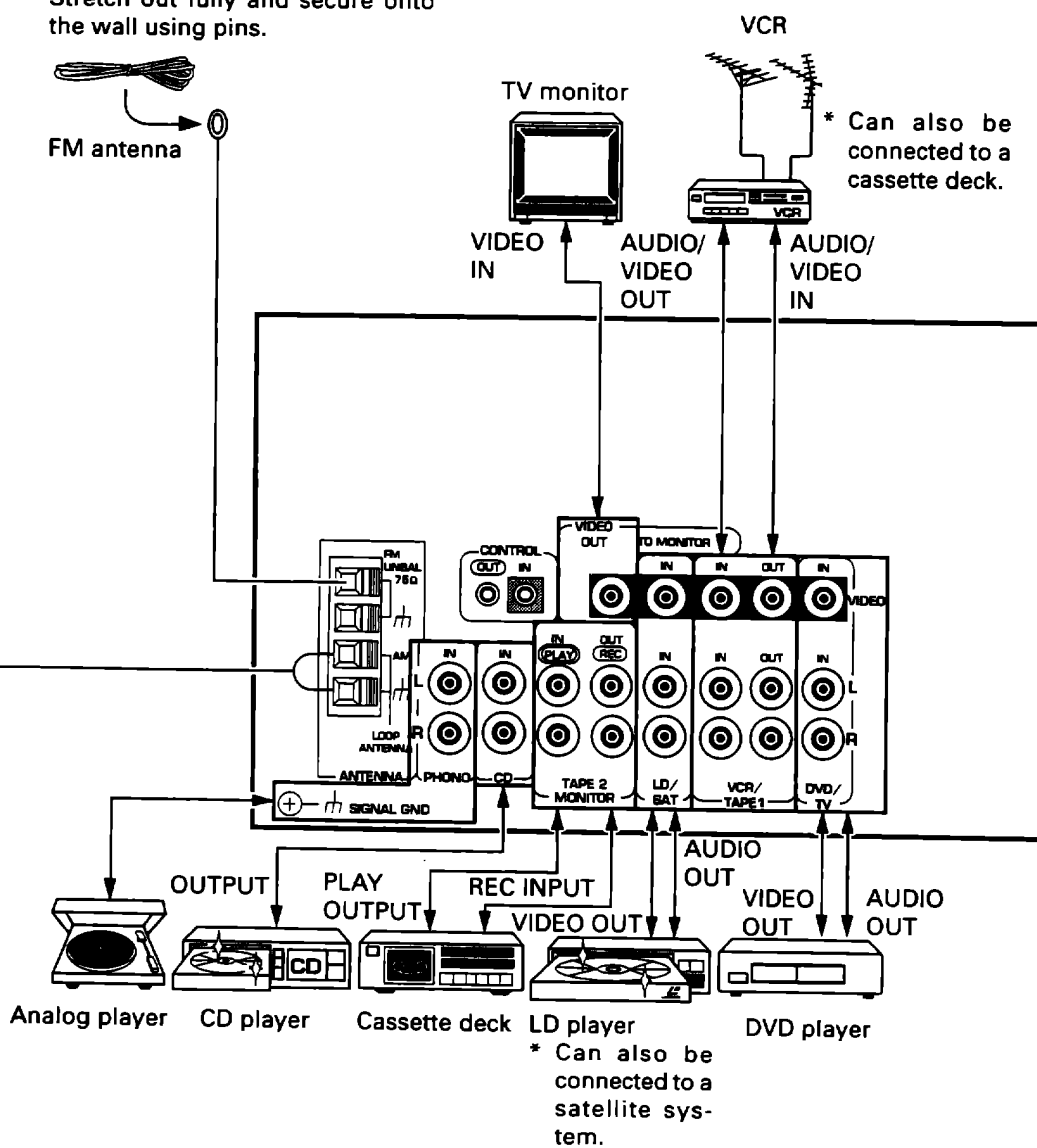
## ■ Assembling the AM loop antenna



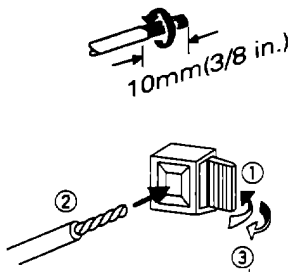
**When attached on a wall,  
etc.**



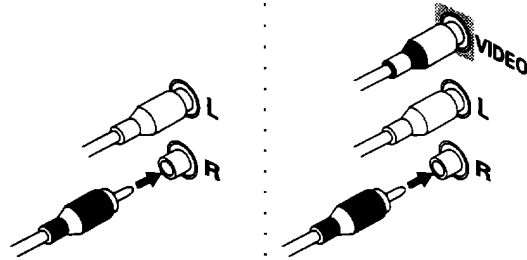
**Face towards the direction with the best reception.**



## ■ Antenna terminal

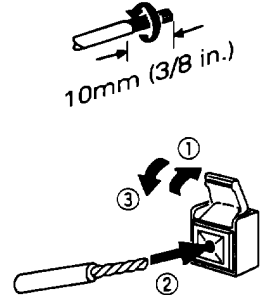


## ■ Input/output plug

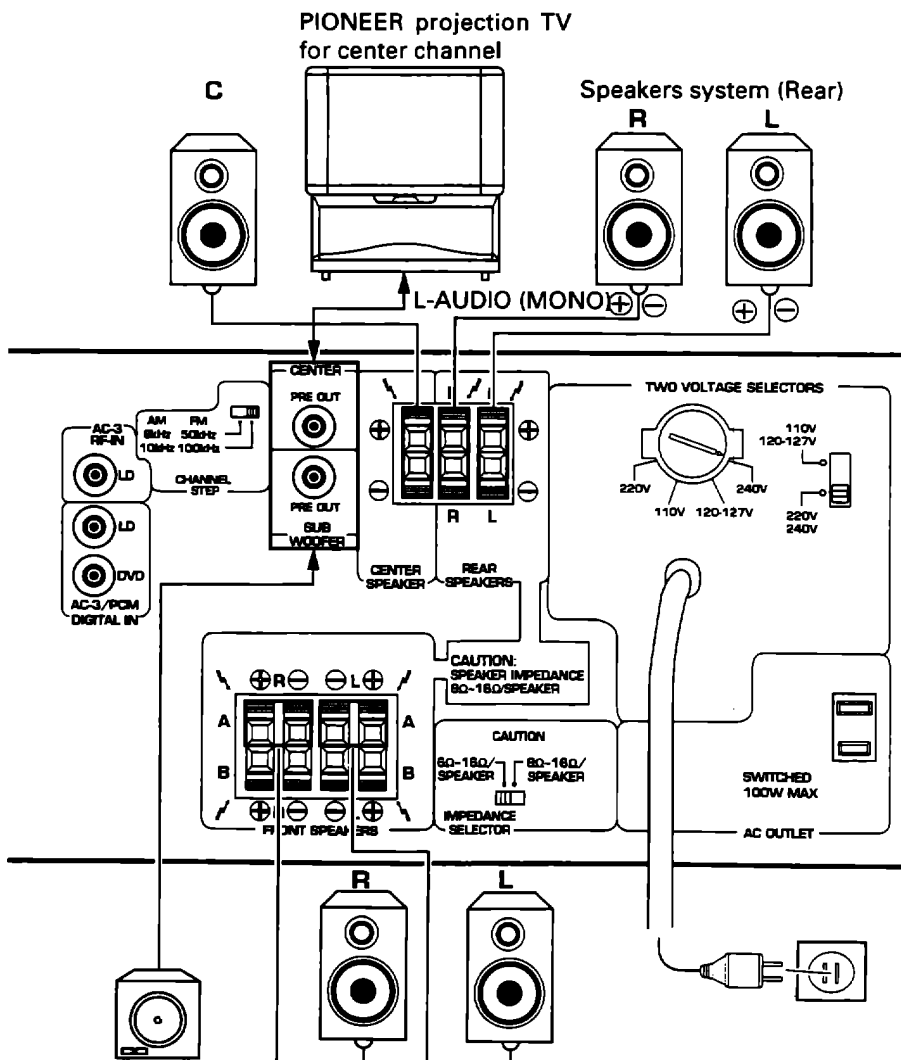


Connect the white plug to L, red plug to R, and yellow plug to VIDEO. Be sure to insert completely.

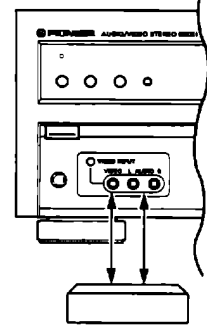
## ■ Speakers terminal



- \* The size of characters and terminal positions in the figures may differ from those on the actual product.
- \* The figures show the VSX-D606S multi voltage model.



## ■ Front Panel



Video equipment such as video camera, etc.



Use nominal impedances such as 6 Ω to 16 Ω or 8 Ω to 16 Ω for the speaker system. When using 6 Ω to 16 Ω, switch the IMPEDANCE SELECTOR to 6 Ω to 16 Ω.

Sub woofer with built-in amplifier Speaker system (Front)

- \* The sub woofer can be connected in a different way. For details, refer to the instructions on the sub woofer.

# VSX-D606S

## SPECIFICATIONS

### Amplifier Section

**Continuous average power output of 100 watts\* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 %\*\* total harmonic distortion (front).**

[Multi-voltage model only]

Continuous Power Output (DIN)

Front (1 kHz, T.H.D. 1 %, 8  $\Omega$ )

VSX-D606S ..... 130 W + 130 W

[U.S. and Canadian models only]

Continuous Power Output

Front ..... 100 W + 100 W (1 kHz, 0.8 %, 8  $\Omega$ )

Center ..... 100 W (1 kHz, 0.8 %, 8  $\Omega$ )

Rear ..... 100 W (1 kHz, 0.8 %, 8  $\Omega$ )

Input (Sensitivity/Impedance)

PHONO MM ..... 2.8 mV/47 k $\Omega$

LD/SAT, CD, VCR/TAPE 1, TAPE 2

DVD/TV, VIDEO ..... 200 mV/47 k $\Omega$

Phono Overload Level (T.H.D. 0.1 %, 1kHz)

PHONO MM ..... 100 mV

Frequency Response

PHONO MM ..... 20 Hz to 20,000 Hz  $\pm$  0.3 dB

LD/SAT, CD, VCR/TAPE 1, TAPE 2

DVD/TV, VIDEO ..... 5 Hz to 100,000 Hz  $\pm$  3 dB

Output (Level/Impedance)

VCR/TAPE 1 REC, TAPE 2 REC ..... 200 mV/2.2 k $\Omega$

Tone Control

BASS .....  $\pm$  9 dB (100 Hz)

TREBLE .....  $\pm$  9 dB (10 kHz)

Signal-to-Noise Ratio (IHF, short circuited, A network)

PHONO MM

VSX-D606S ..... 75 dB

LD/SAT, CD, VCR/TAPE 1, TAPE 2, DVD/TV, VIDEO

VSX-D606S ..... 97 dB

Signal-to-Noise Ratio [EIA, at 1 W (1kHz)]

PHONO MM ..... 75 dB

LD/SAT, CD, VCR/TAPE 1, TAPE 2, DVD/TV, VIDEO

VSX-D606S ..... 80 dB

\* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.

\*\* Measured by Audio Spectrum Analyzer.

### VIDEO Section

Input (Sensitivity/Impedance)

LD/SAT, VCR, DVD/TV, VIDEO ..... 1 Vp-p/75  $\Omega$

Output (Level/Impedance)

VCR REC, MONITOR TV ..... 1 Vp-p/75  $\Omega$

Frequency Response

LD/SAT, VCR, DVD/TV, VIDEO

→ MONITOR ..... 5 Hz to 7 MHz  $\pm$  3 dB

Signal-to-Noise Ratio ..... 55 dB

Cross Talk ..... 55 dB

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### FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz

Usable Sensitivity ..... Mono: 11.2 dBf, IHF (1.0  $\mu$ V/75  $\Omega$ )

50 dB Quieting Sensitivity ..... Mono: 16.8 dBf

Stereo: 38.6 dBf

Signal-to-Noise Ratio ..... Mono: 73 dB (at 85 dBf)

Stereo: 70 dB (at 85 dBf)

Distortion ..... Stereo: 0.5 % (1kHz)

Alternate Channel Selectivity ..... 60 dB (400 kHz)

Stereo Separation ..... 40 dB (1 kHz)

Frequency Response ..... 30 Hz to 15 kHz ( $\pm$  1) dB

Antenna Input ..... 75  $\Omega$  unbalanced

### AM Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz (9 kHz step)

530 kHz to 1,700 kHz (10 kHz step)

Sensitivity (IHF, Loop antenna) ..... 350  $\mu$ V/m

Selectivity ..... 25 dB

Signal-to-Noise Ratio ..... 50 dB

Antenna ..... Loop antenna

### Miscellaneous

Power Requirements

U.S. and Canadian models ..... AC 120 V, 60 Hz

Multi-voltage model ..... AC 110 V/120-127 V/220 V/240 V

(Switchable), 50/60 Hz

Power Consumption

U.S. and Canadian models

VSX-D606S ..... 280 W, 400 VA

Multi-voltage model

VSX-D606S ..... 295 W

In Standby Condition ..... 2.5 W

AC Outlet (Multi-voltage, U.S. and Canadian models only)

U.S. and Canadian models

SWITCHED ..... 100 W (0.8 A) MAX

Multi-voltage model

SWITCHED ..... 100 W MAX

Dimensions

VSX-D606S ..... 420 (W)  $\times$  160 (H)  $\times$  374 (D) mm

16-9/16 (W)  $\times$  6-5/16 (H)  $\times$  14-3/4 (D) in

Weight (without package)

VSX-D606S

U.S. and Canadian models ..... 9.4 kg (20 lb 12 oz)

Multi-voltage model ..... 9.8 kg (21 lb 10 oz)

### Furnished Parts

FM Antenna ..... 1

AM Loop Antenna ..... 1

Dry Cell Batteries (AA/LR6) ..... 2

Remote Control Unit ..... 1

Operating Instructions ..... 1

Sub instruction manual (Remote Control Unit) ..... 1

Sub instruction manual [Dolby Digital (AC-3)] ..... 1

### NOTE:

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