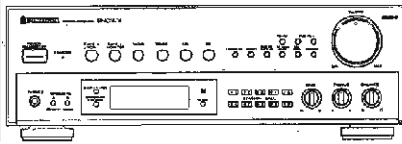


Service Manual

PIONEER®
The Art of Entertainment



The illustration shows model SX-403RDS.

ORDER NO.
ARP2859

STEREO RECEIVER

SX-403RDS

SX-303RDS

SX-203RDS

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

| Type | Model | | | Power Requirement | The voltage can be converted by the following method. |
|--------|-----------|-----------|-----------|-------------------|-------------------------------------------------------|
| | SX-403RDS | SX-303RDS | SX-203RDS | | |
| HEXK | ○ | ○ | ○ | AC220-230V | AC240V, * |
| HBXK | — | ○ | ○ | AC240V | AC220-230V, * |
| HEWZXX | ○ | ○ | ○ | AC220-230V | AC240V, * |

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

- For the following: SX-403RDS/HEWZXX; SX-303RDS/HBXK and HEWZXX; SX-203/HBXK and HEWZXX, refer to page 40.

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.
PIONEER ELECTRONICS OF CANADA, INC. 300 Allstate Parkway Markham, Ontario L3R 0P2 Canada
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911
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O-DFO MAY 1994 Printed in Japan

SX-403RDS, SX-303RDS, SX-203RDS

1. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES :

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ 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.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Parts List of Exterior and Packing

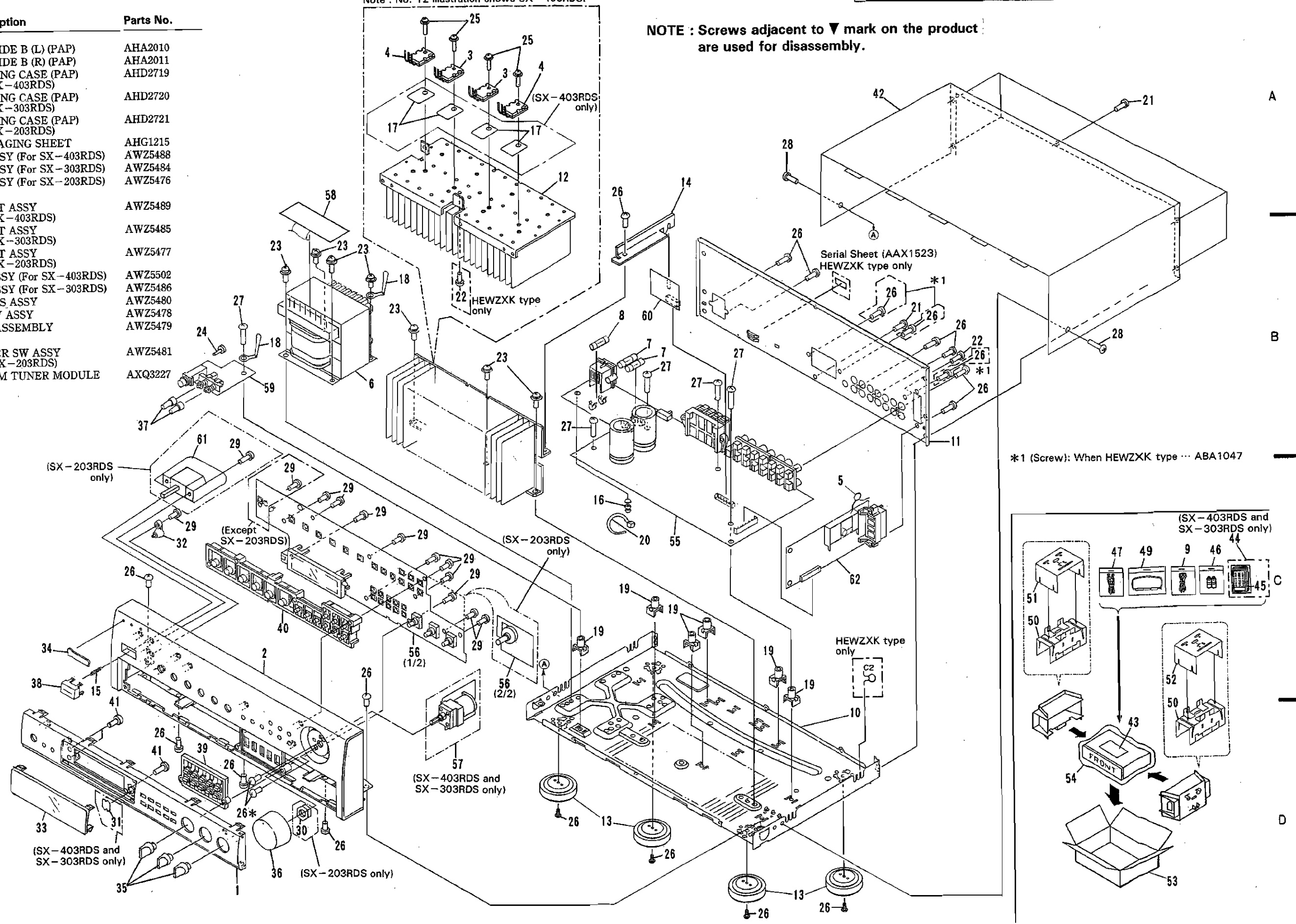
(For SX-403RDS/HEXK, SX-303RDS/HEXK and SX-203RDS/HEXK)

| Mark | No. | Description | Parts No. | Mark | No. | Description | Parts No. |
|----------|-----|----------------------------------------------|-------------|--------|------------------------------------------------------------------------------------------------------|--------------|-----------|
| | 1 | SUB PANEL (PLS) | AAP1465 | 21 | SCREW (For SX-403RDS) | VCT30P080FZK | |
| | 2 | FRONT PANEL (PLS) (For SX-403RDS) | AMB2222 | 21 | SCREW (For SX-303RDS and SX-203RDS) | BCZ30P080FZK | |
| | 2 | FRONT PANEL (PLS) (For SX-303RDS) | AMB2226 | 22 | SCREW (STEEL) | ABA1047 | |
| | 2 | FRONT PANEL (PLS) (For SX-203RDS) | AMB2227 | 23 | SCREW | ABA1054 | |
| Δ | 3 | TRANSISTOR (Q3, Q4) (For SX-403RDS) | 2SA1302 | 24 | SCREW (STEEL) | ABA1095 | |
| Δ | 3 | POWER TRANSISTOR (Q3, Q4) (For SX-303RDS) | 2SA1804 | 25 | SCREW (STEEL) | ABA1194 | |
| Δ | 3 | POWER TRANSISTOR (Q3, Q4) (For SX-203RDS) | 2SA1803 | 26 | SCREW | BBZ30P080FMC | |
| Δ | 4 | TRANSISTOR (Q1, Q2) (For SX-403RDS) | 2SC3281 | 27 | SCREW | BBZ30P200FMC | |
| Δ | 4 | POWER TRANSISTOR (Q1, Q2) (For SX-303RDS) | 2SC4689 | 28 | SCREW | BCZ30P080FZK | |
| Δ | 4 | POWER TRANSISTOR (Q1, Q2) (For SX-203RDS) | 2SC4688 | 29 | SCREW | BPZ26P080FMC | |
| | 5 | CERAMIC CAPACITOR (C1) | CKDYB102K50 | 30 | NUT (SX-203RDS only) | NK90FUC | |
| Δ | 6 | POWER TRANSFORMER (T1) (For SX-403RDS) | ATS1544 | 31 | IR FILTER (PLS) (SX-403RDS and SX-303RDS only) | AAK2551 | |
| Δ | 6 | POWER TRANSFORMER (T1) (For SX-303RDS) | ATS1543 | 32 | LED LENS (PLS) | AAK2553 | |
| Δ | 6 | POWER TRANSFORMER (T1) (For SX-203RDS) | ATS1542 | 33 | FL PANEL (PLS) (For SX-403RDS and SX-303RDS) | AAK2556 | |
| Δ | 7 | FUSE (T800MA/250V, FU3, FU4) | AEK-507 | 33 | FL PANEL (PLS) (For SX-203RDS) | AAK2557 | |
| Δ | 8 | FUSE (T2A/250V, FU1) (For SX-403RDS) | AEK-511 | 34 | NAME PLATE | PAM1608 | |
| Δ | 8 | FUSE (T1.6A/250V, FU1) (For SX-303RDS) | AEK-510 | 35 | ROUND KNOB S (PLS) | AAB1389 | |
| Δ | 8 | FUSE (1.25A/250V, FU1) (For SX-203RDS) | AEK-509 | 36 | ROUND KNOB L (PLS) | AAB1390 | |
| Δ | 9 | AC POWER CORD | ADG1135 | 37 | PUSH BUTTON (PLS) | AAD2530 | |
| NSP | 10 | CHASSIS (MET) | ANA1481 | 38 | POWER BUTTON (PLS) | AAD2531 | |
| | 11 | REAR PANEL (MET) (For SX-403RDS) | ANC2213 | 39 | STATION BUTTON (PLS) | AAD2532 | |
| | 11 | REAR PANEL (MET) (For SX-303RDS) | ANC2164 | 40 | HINGE BUTTON (PLS) (For SX-403RDS) | AAD2534 | |
| | 11 | REAR PANEL (MET) (For SX-203RDS) | ANC2165 | 40 | HINGE BUTTON (PLS) (For SX-303RDS and SX-203RDS) | AAD2533 | |
| NSP | 12 | RADIATOR (MET) (For SX-403RDS) | ANH1475 | 41 | PUSH BUTTON (PLS) | AAD2535 | |
| NSP | 12 | RADIATOR (MET) (For SX-303RDS) | ANH1476 | 42 | BONNET CASE (MET) | ANE1502 | |
| NSP | 12 | RADIATOR (MET) (For SX-203RDS) | ANH1477 | 43 | OPERATING INSTRUCTIONS (English, French, German, Italian, Dutch, Swedish, Spanish, Portuguese) | ARE1312 | |
| | 13 | INSULATOR | PNW1912 | 44 | REMOTE CONTROL UNIT (CU-SX087) (SX-403RDS and SX-303RDS only) | AXD1397 | |
| | 14 | HOLDER (MTL) | ANG1928 | 45 | BATTERY COVER (SX-403RDS and SX-303RDS only) | AZA7031 | |
| | 15 | SPRING (FE) | ABH1095 | NSP 46 | BATTERY (R6P, AA) (SX-403RDS and SX-303RDS only) | AEX-010 | |
| | 16 | PCB SUPPORT | AEC1581 | 47 | FM ANTENNA ASS'Y | ADH1019 | |
| | 17 | SHEET (SX-403RDS only) | AEB1014 | 48 | ..... |  |  |
| | 18 | BINDER | AEP-215 | 49 | LOOP ANTENNA (L8042) | ATB1011 | |
| | 19 | PCB MOLD (PP) | AMR2533 | 50 | PAD SIDE A (PAP) | AHA2009 | |
| NSP | 20 | BINDER (BK-1) | Z09-057 | | | | |

| Mark | No. | Description | Parts No. |
|------|-----|---------------------------------------|-----------|
| | 51 | PAD SIDE B (L) (PAP) | AHA2010 |
| | 52 | PAD SIDE B (R) (PAP) | AHA2011 |
| | 53 | PACKING CASE (PAP) (For SX-403RDS) | AHD2719 |
| A | 53 | PACKING CASE (PAP) (For SX-303RDS) | AHD2720 |
| | 53 | PACKING CASE (PAP) (For SX-203RDS) | AHD2721 |
| | 54 | PACKAGING SHEET | AHG1215 |
| | 55 | AF ASSY (For SX-403RDS) | AWZ5488 |
| | 55 | AF ASSY (For SX-303RDS) | AWZ5484 |
| | 55 | AF ASSY (For SX-203RDS) | AWZ5476 |
| | 56 | FRONT ASSY (For SX-403RDS) | AWZ5489 |
| | 56 | FRONT ASSY (For SX-303RDS) | AWZ5485 |
| | 56 | FRONT ASSY (For SX-203RDS) | AWZ5477 |
| | 57 | VR ASSY (For SX-403RDS) | AWZ5502 |
| | 57 | VR ASSY (For SX-303RDS) | AWZ5486 |
| | 58 | TRANS ASSY | AWZ5480 |
| | 59 | SP SW ASSY | AWZ5478 |
| | 60 | RDS ASSEMBLY | AWZ5479 |
| B | 61 | POWER SW ASSY (For SX-203RDS) | AWZ5481 |
| | 62 | FM/AM TUNER MODULE | AXQ3227 |

Note : No. 12 illustration shows SX-403RDS.

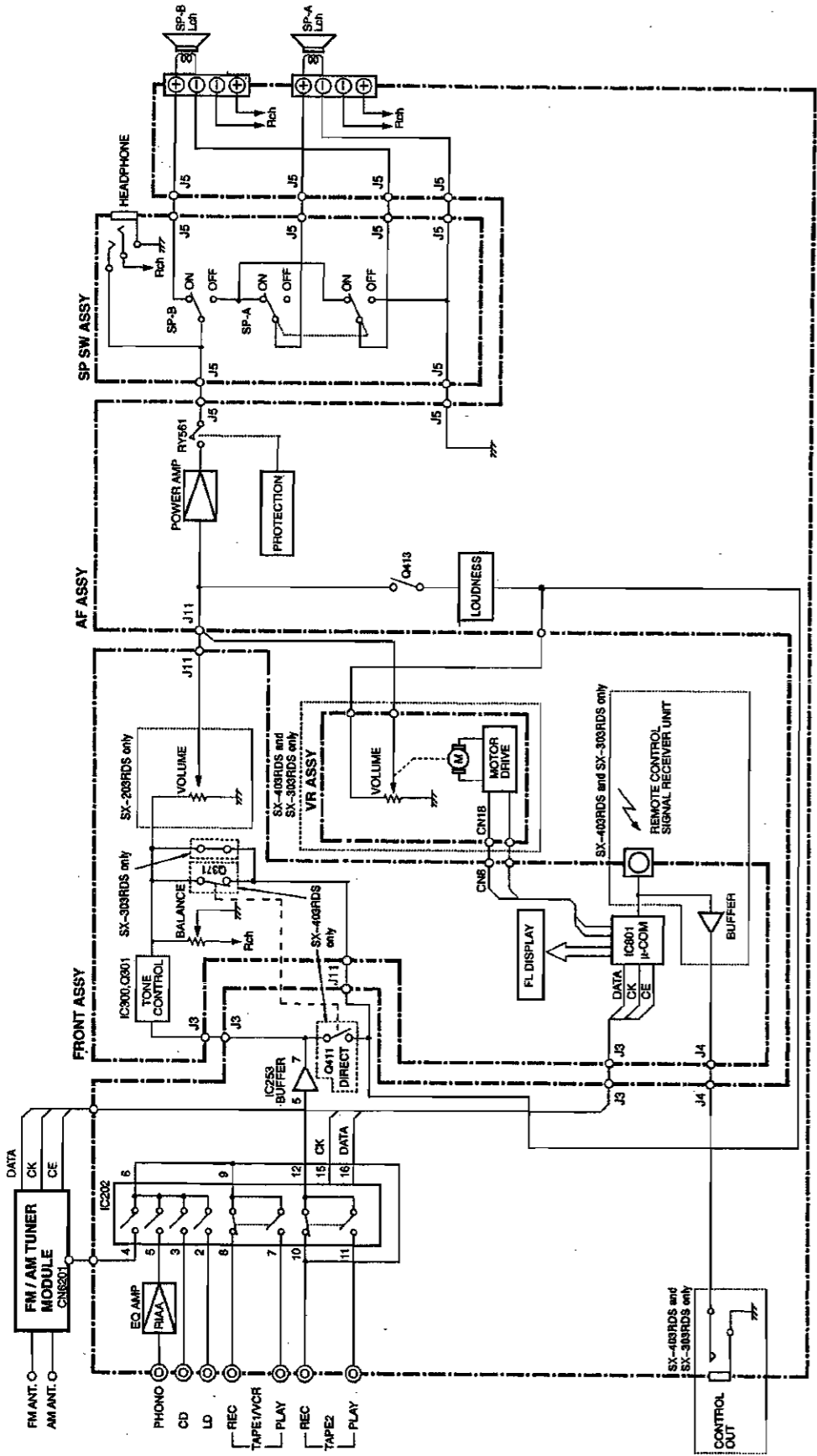
NOTE : Screws adjacent to ▼ mark on the product are used for disassembly.



*1 (Screw): When HEWZK type ... ABA1047

* : SX-403RDS and SX-303RDS only

2. BLOCK DIAGRAM



3. SCHEMATIC AND PCB CONNECTION DIAGRAMS

NOTE FOR SCHEMATIC DIAGRAMS Type 1A

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

2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.

3. RESISTORS:
Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.

4. CAPACITORS:
Unit: p:pF or μF unless otherwise noted.
Ratings: capacitor (μF)/ voltage (V) unless otherwise noted.
Rated voltage: 50V except for electrolytic capacitors.

5. COILS:
Unit: m:mH or μH unless otherwise noted.

6. VOLTAGE AND CURRENT:
AF AMPLIFIER SECTION:
V : Signal voltage at rated output.
or - V :
DC voltage (V) at no input signal unless otherwise noted.
Value in () is DC voltage at rated power.

TUNER SECTION:
mV : Signal voltage at FM 1kHz, 100% MOD.
or - V :
mA or - mA :
DC current at no input signal unless otherwise noted.

7. OTHERS:
• ⊙ or ⊛ : Adjusting point.
• ⊛ : Measurement point.
• The Δ 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.

8. SCH-□ ON THE SCHEMATIC DIAGRAM:
• SCH-□ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

9. SWITCHES (Underline indicates switch position):

| FRONT assy | | | |
|------------|---------------------------|------|------------------|
| S801 | 0 | S816 | LOUDNESS |
| S802 | 9 | S817 | TUNING + |
| S803 | 8 | S818 | TUNING - |
| S804 | 7 | S819 | FM/AM |
| S805 | 6 | S820 | CD |
| S806 | 5 | S821 | LD |
| S807 | 4 | S822 | TUNER |
| S808 | 3 | S823 | PHONO |
| S809 | 2 | S824 | TAPE2 |
| S810 | 1 | S825 | TAPE1/VCR |
| S811 | MEMORY | S826 | RECEIVER |
| S812 | MPX MODE | S827 | CLASS |
| S813 | MEMORY SCAN | S828 | CHARACTER/SEARCH |
| S814 | DIRECT ACCESS | S829 | DISPLAY MODE |
| S815 | DIRECT (SX-403RDS ONLY) | | |
| S815 | RF ATT (EXCEPT SX-403RDS) | | |

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 |
| | | Diode |
| | | Capacitor (Polarized) |

3. The transistor terminal marked with E or ⊐ shows the emitter.
4. The diode terminal marked with ⊙ or ⊐ shows cathode side.
5. The capacitor terminal marked with ⊙ or ⊐ shows negative terminal.

3.1 OVERALL SCHEMATIC DIAGRAM

A

B

C

D

| | SX-203RDS | SX-303RDS | SX-403RDS |
|--------|-----------|-----------|-----------|
| Q1, Q2 | 25C4688 | 25C4689 | 25C3261 |
| Q3, Q4 | 25A1803 | 25A1804 | 25A1302 |

NOTE:

- The parts specified as "HEXK/HBXX TYPES" are required for the SX-403RDS/HEXK/HEXK and HBXX of SX-303RDS and SX-203RDS.
- The parts specified as "HBXX TYPE" are required for the HBXX of SX-303RDS and SX-203RDS.
- The parts specified as "HEWZXX TYPE" are required for the HEWZXX of SX-403RDS, SX-303RDS and SX-203RDS.
- The parts specified as "SX-403RDS" are required for the SX-403RDS/HEXK and HEWZXX.
- The parts specified as "SX-303RDS" are required for the SX-303RDS/HEXK, HBXX and HEWZXX.
- The parts specified as "SX-203RDS" are required for the SX-203RDS/HEXK, HBXX and HEWZXX.

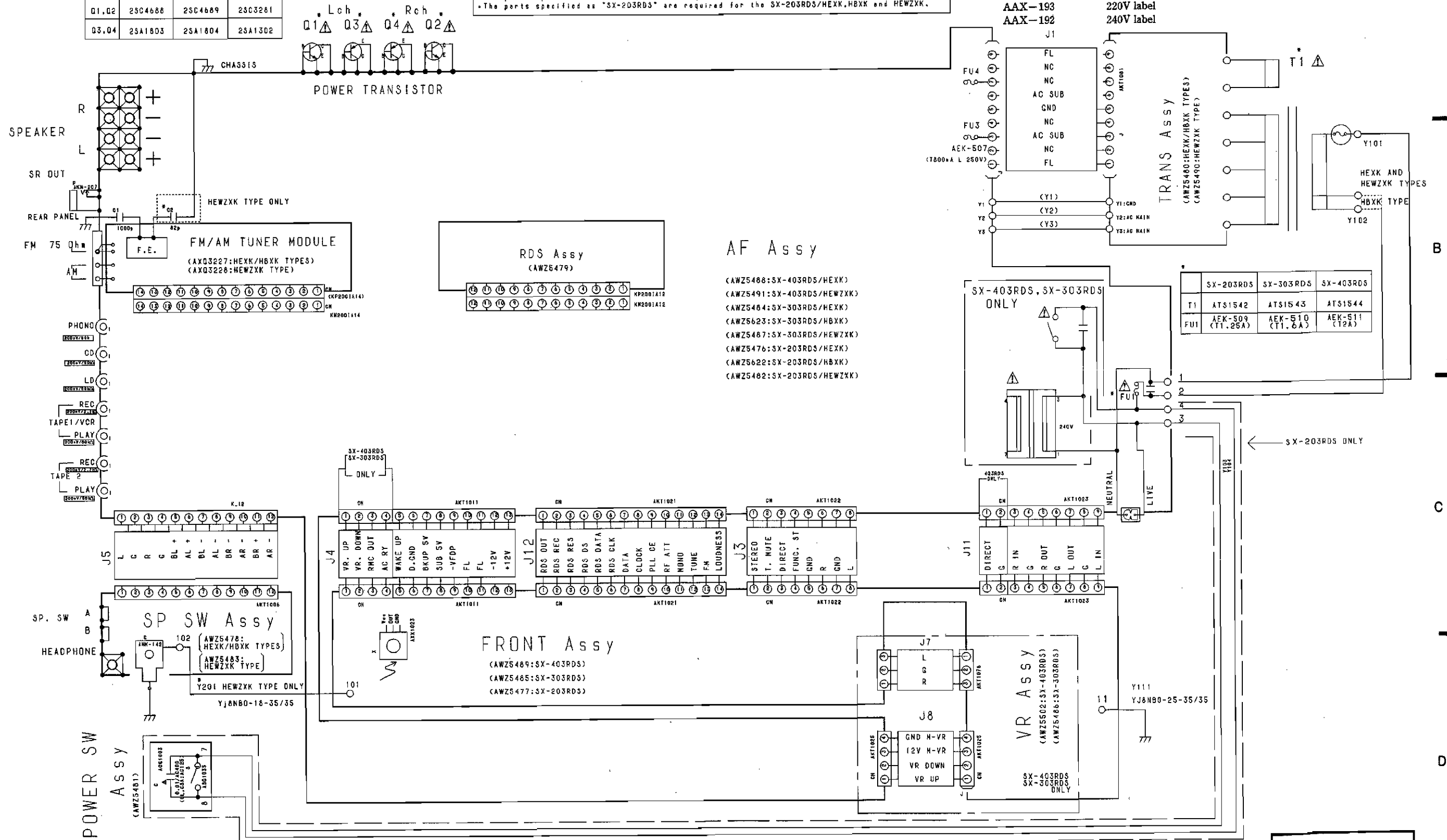
Line Voltage Selection

Line Voltage can be changed by the following modification:

1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection of the power transformer primary taps.
4. Stick a line voltage label on the rear panel.

SCH-1

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



AF Assy

- (AWZ5488: SX-403RDS/HEXK)
- (AWZ5491: SX-403RDS/HEWZXX)
- (AWZ5484: SX-303RDS/HEXK)
- (AWZ5623: SX-303RDS/HBXX)
- (AWZ5487: SX-303RDS/HEWZXX)
- (AWZ5476: SX-203RDS/HEXK)
- (AWZ5622: SX-203RDS/HBXX)
- (AWZ5482: SX-203RDS/HEWZXX)

SX-403RDS, SX-303RDS ONLY

| | SX-203RDS | SX-303RDS | SX-403RDS |
|-----|------------------|-----------------|---------------|
| T1 | ATS1542 | ATS1543 | ATS1544 |
| FU1 | AEK-509 (T1.25A) | AEK-510 (T1.6A) | AEK-511 (T2A) |

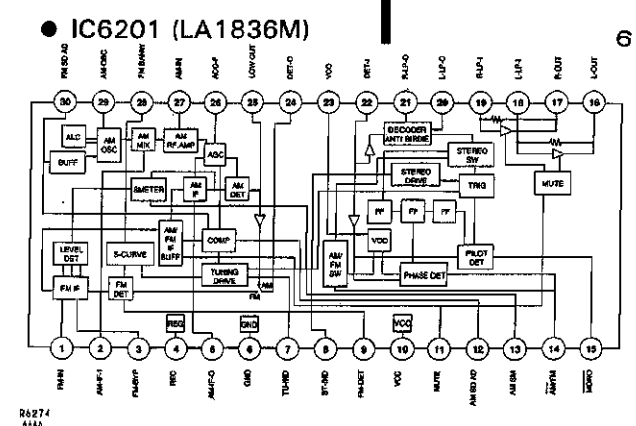
SCH-1

SCH-1

3.2 FM/AM TUNER MODULE

FM/AM TUNER MODULE
(AXQ3227:HEXX and HBXX types)
(AXQ3228:HEWZXX type)

Note:
Value in () is HEWZXX type.
The parts specified as "HEXX and HBXX" are required for SX-403RDS/HEXX:HEXX and HBXX types of SX-303RDS and SX-203RDS.
The parts specified as "HEWZXX" are required for HEWZXX type of SX-403RDS, SX-303RDS and SX-203RDS.



SCH-2

A

B

C

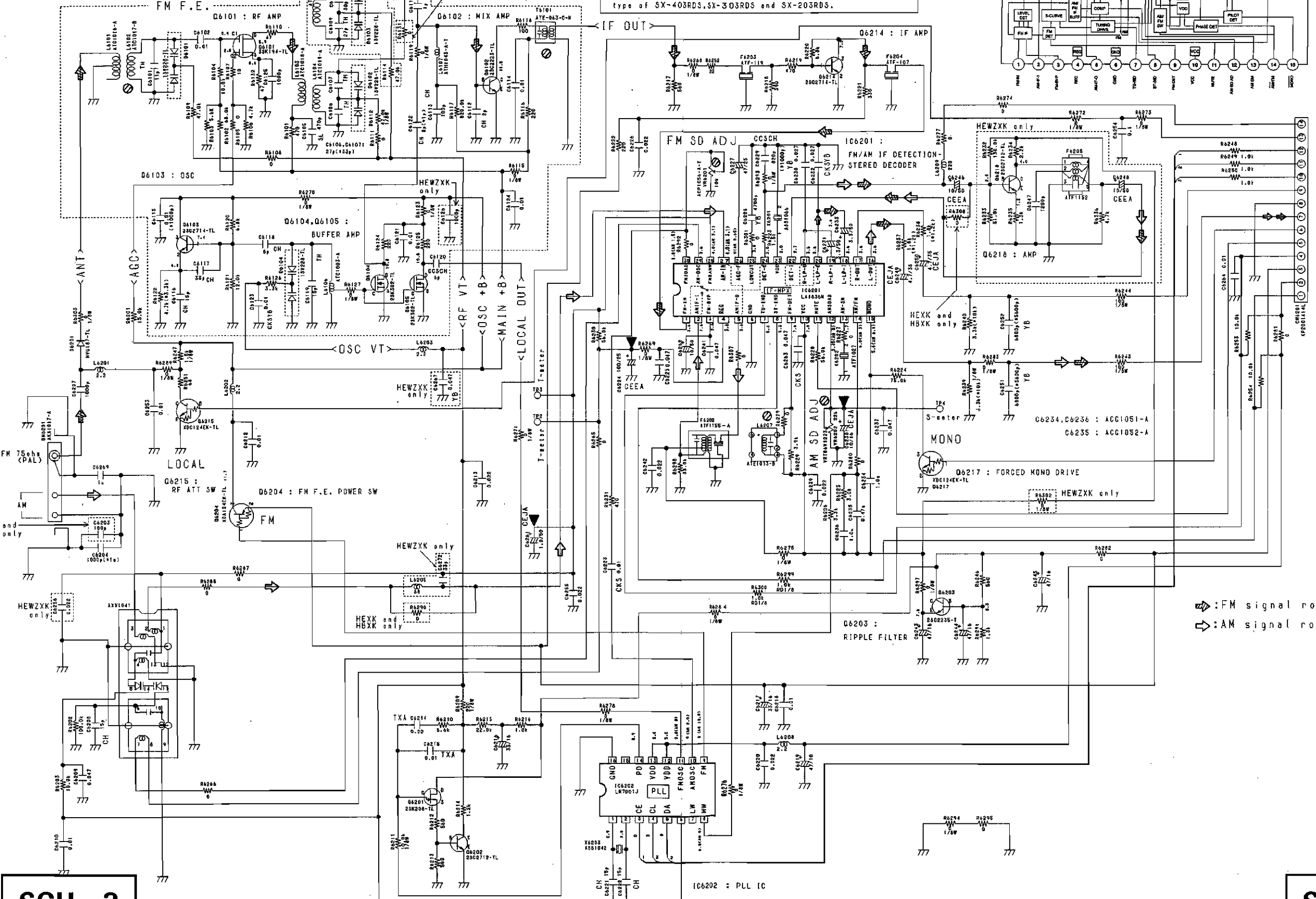
D

A

B

C

D



RDS LOCAL
GE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO

TO AF ASSY (→ SCH-3)

↗: FM signal route
↘: AM signal route

SCH-2

FM/AM TUNER MODULE

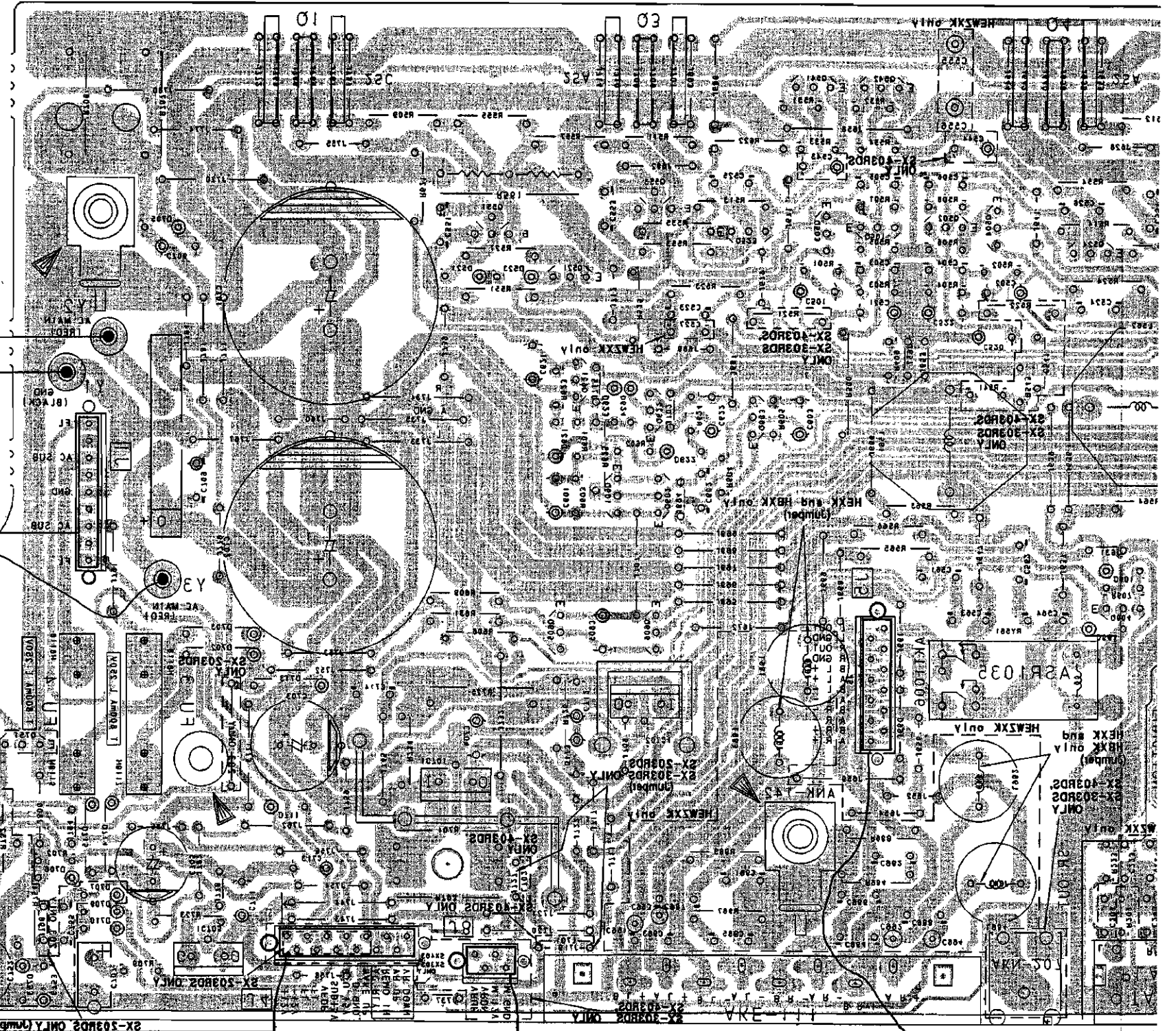
SCH-2

FM/AM TUNER MODULE

• This diagram is viewed from the foil side.

-To RDS Assy CN801

To AF Assy J2

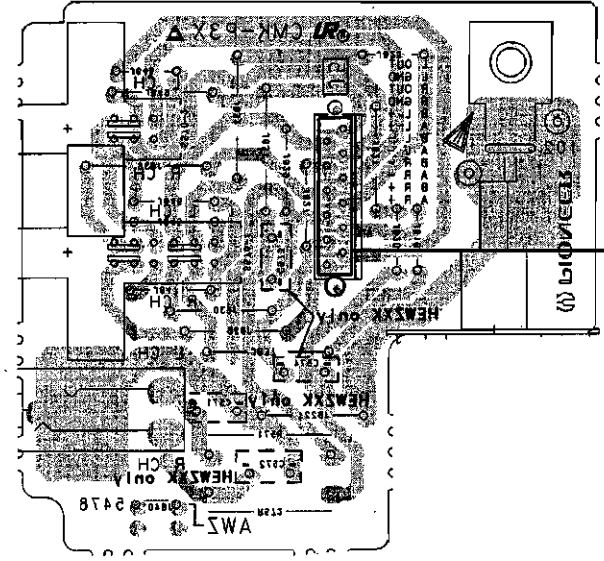
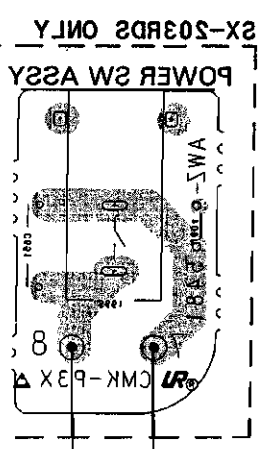
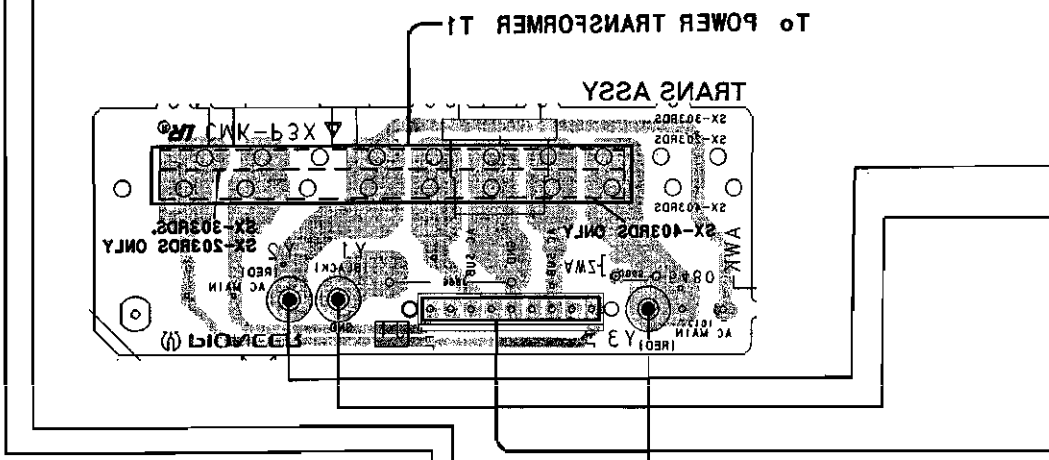


To SP SW Assy J2

To VR Assy J8

To FRONT Assy J4

To POWER TRANSFORMER T1



To POWER TRANSFORMER T1

To FRONT Assy J4

To VR Assy J8

To SP SW Assy J2

• This diagram is viewed from the mounted parts side.

FM/AM TUNER MODULE

A

A

Q6101

B

B

Q6215

Q6204

Q6102 Q6214

Q6104

Q6103
Q6105

C

C

IC6202

VR6201

IC6201

Q6217

Q6202

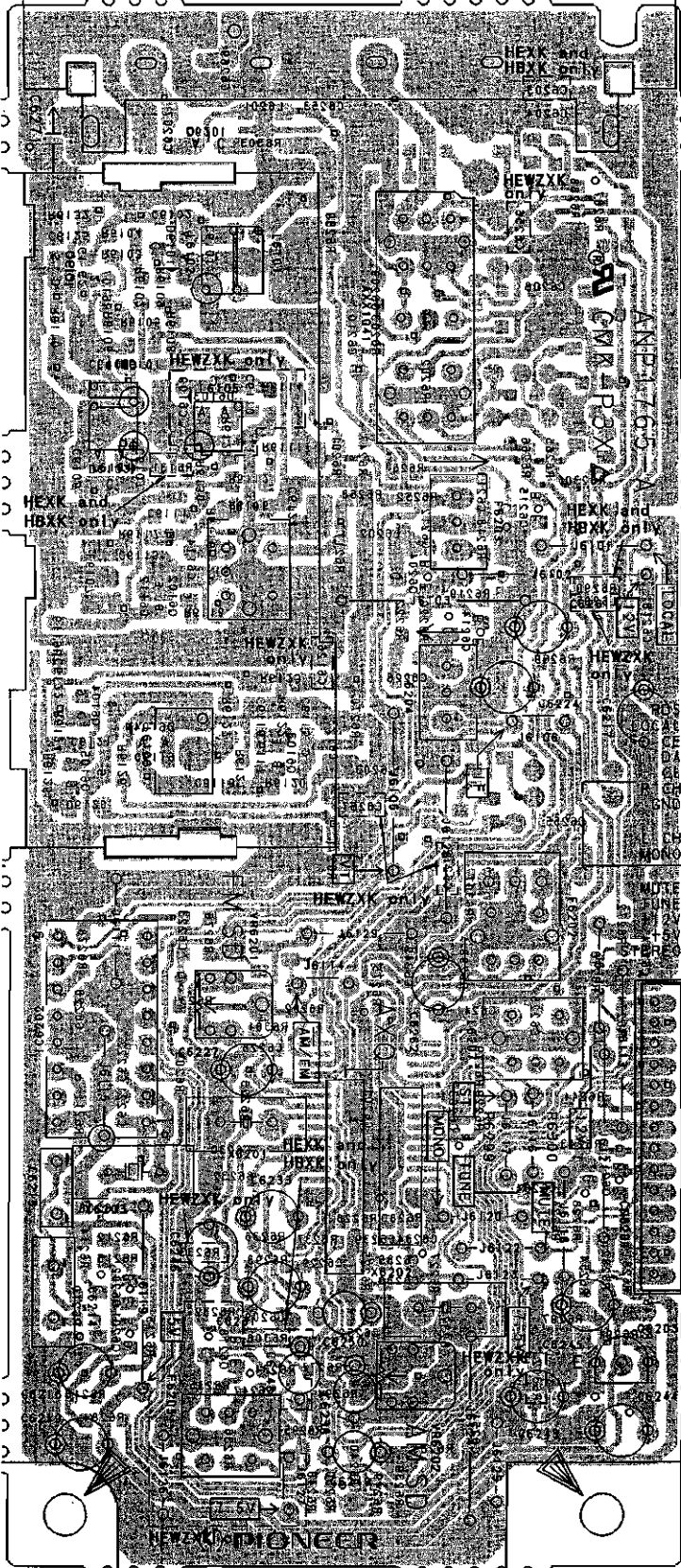
Q6201 Q6203
Q6218

VR6202

To AF assy

D

D



● This diagram is viewed from the foil side.

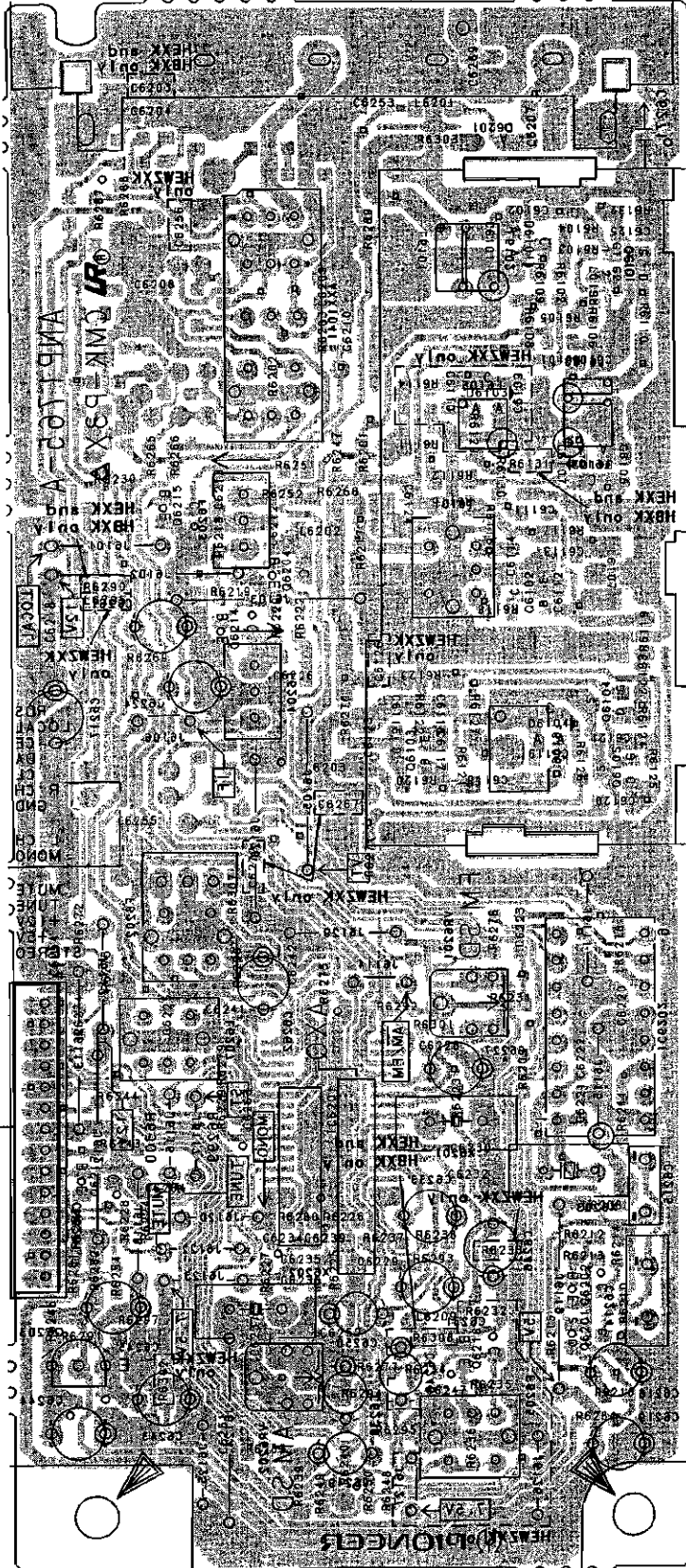
A

B

C

D

FM/AM TUNER MODULE



To AF assy

0E101

0E512

0E504

0E105 0E514

0E104

0E102 0E103

AR501

IC505

IC501

0E517

0E505

0E501 0E503

AR505

A

B

C

D

3.3 AF ASSY, SP SW ASSY, POWER SW ASSY AND TRANS ASSY

• This diagram is viewed from the mounted parts side.

A

B

C

D

AF ASSY

To FM/AM TUNER MODULE CN6201

To FRONT assy J3

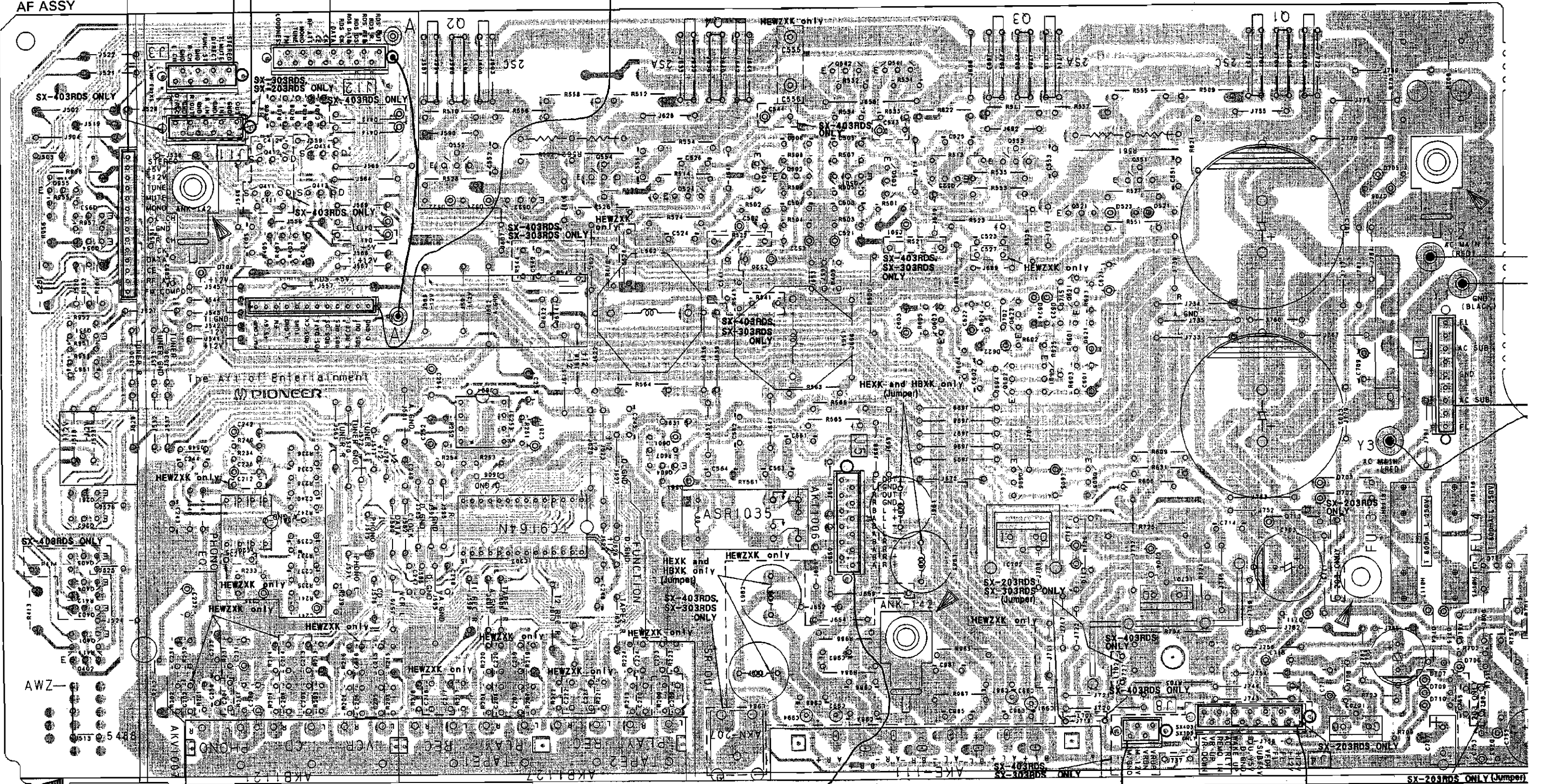
To VR assy J11 (SX-403RDS AND SX-303RDS ONLY)

To FRONT assy J11 (SX-203RDS ONLY)

To FRONT assy J12

To RDS assy CN901

To AF assy J5-



Q955 Q953 Q954
 Q951 Q261 Q262
 Q401-Q405

Q411 Q412
 IC201

Q413 Q414

Q522
 IC253

Q544
 IC202

Q524
 Q604

Q504 Q502
 Q542 Q501 Q541 Q503 Q523
 Q603

Q553 Q521
 Q502 Q522 Q501 Q521
 IC702 Q605 Q605

Q551
 IC701

IC703

Q751

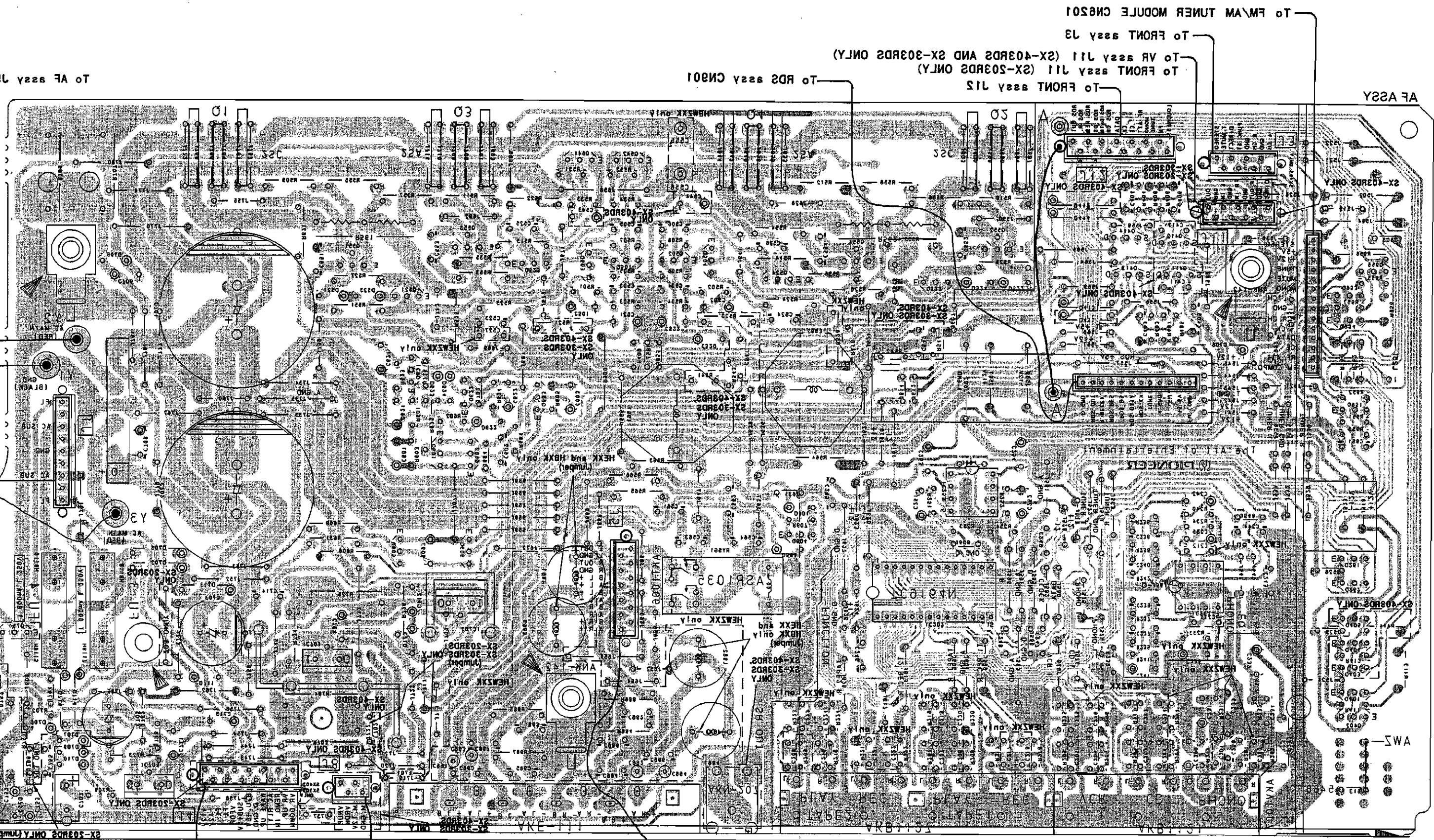
To SP SW assy J5

To VR assy J8

To FRONT assy J4

3.3 AF ASSY, SP SW ASSY, POWER SW ASSY AND TRANS ASSY

This diagram is viewed from the foil side.



A

B

C

D

To AF Assy 11

To RDS Assy CN801

To FRONT Assy 112
To FRONT Assy 111 (SX-303RDS ONLY)
To VR Assy 111 (SX-403RDS AND SX-303RDS ONLY)

To FM/TUNER MODULE CN8201

AF ASSY

AWΣ

To SP SW Assy 12

0401-0402
0221 0222 0223 0224
IC501
0411 0412
0413 0414
0255
IC503
0254
0255
IC505
0254
0255
0256
0257
0258
0259
0260
0261
0262
0263
0264
0265
0266
0267
0268
0269
0270
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0280
0281
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0284
0285
0286
0287
0288
0289
0290
0291
0292
0293
0294
0295
0296
0297
0298
0299
0300

IC201
IC203
0221
0222
0223
0224
0225
0226
0227
0228
0229
0230
0231
0232
0233
0234
0235
0236
0237
0238
0239
0240
0241
0242
0243
0244
0245
0246
0247
0248
0249
0250
0251
0252
0253
0254
0255
0256
0257
0258
0259
0260
0261
0262
0263
0264
0265
0266
0267
0268
0269
0270
0271
0272
0273
0274
0275
0276
0277
0278
0279
0280
0281
0282
0283
0284
0285
0286
0287
0288
0289
0290
0291
0292
0293
0294
0295
0296
0297
0298
0299
0300

To VR Assy 18

• This diagram is viewed from the mounted parts side.

SP SW ASSY

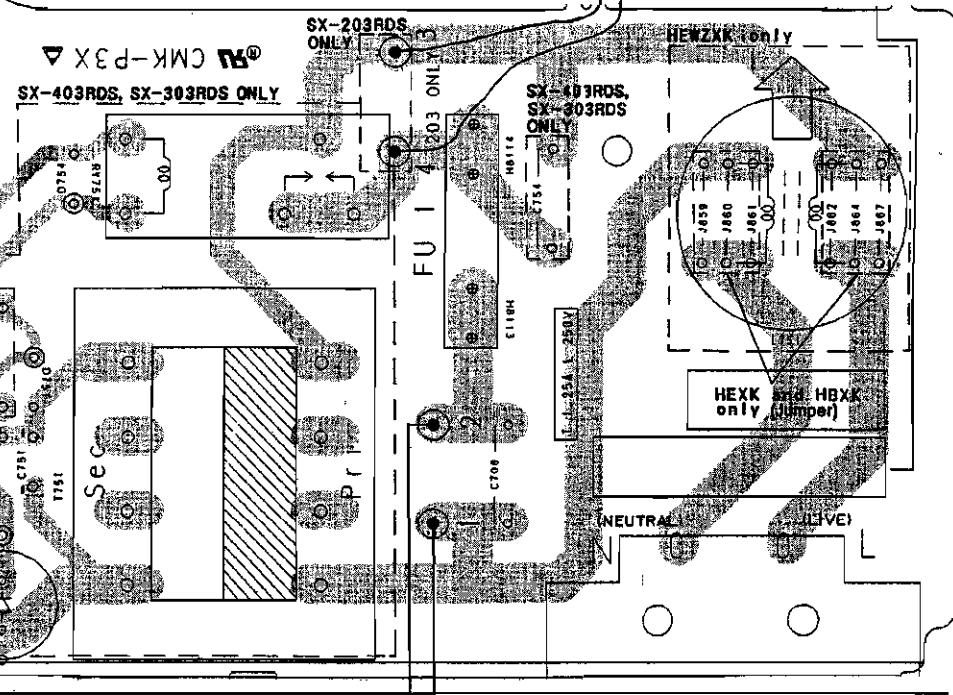
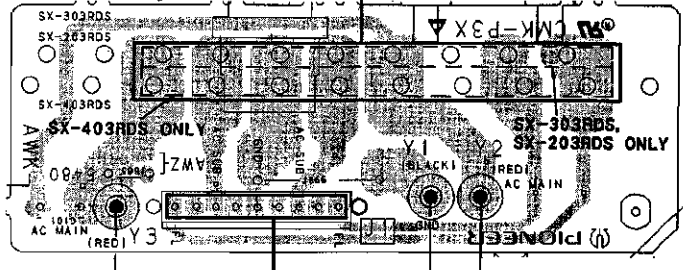
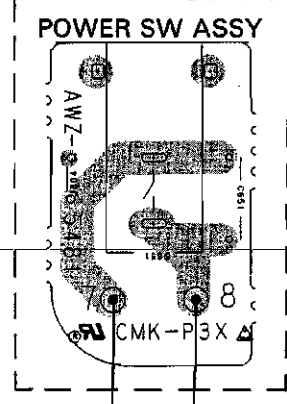
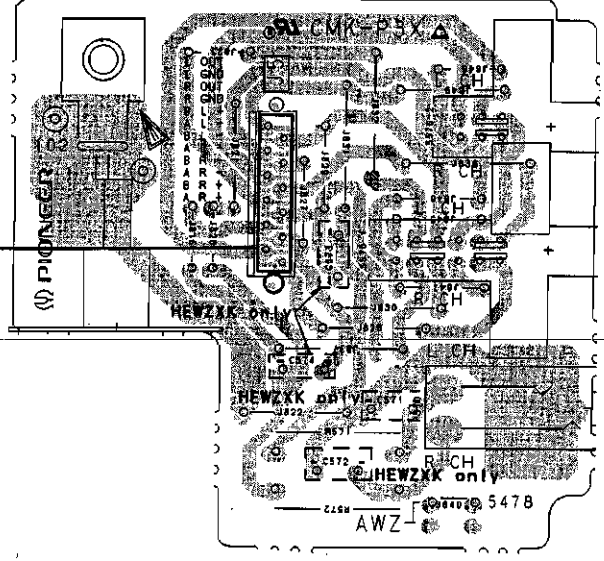
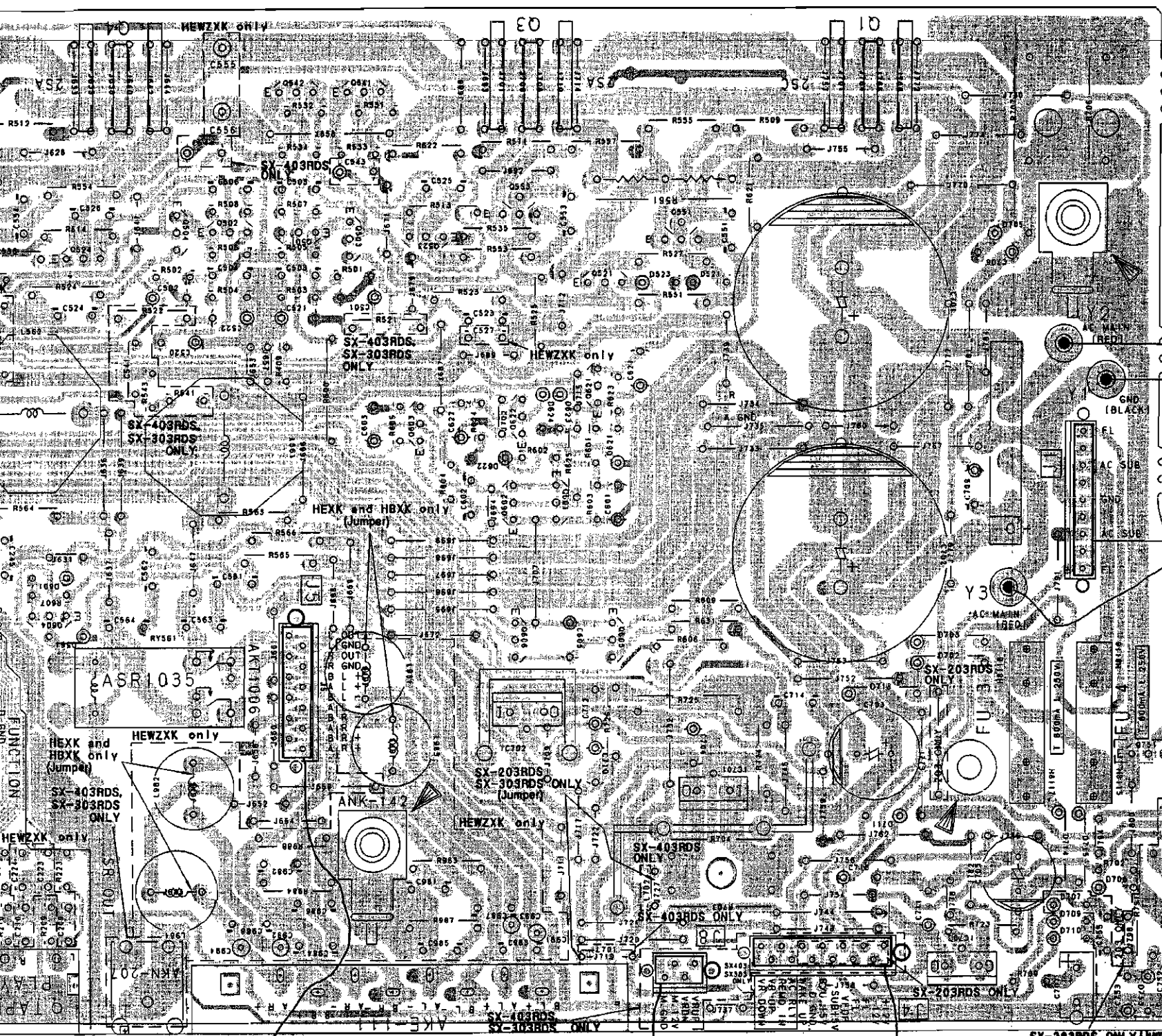
SX-203RDS ONLY
POWER SW ASSY

To RDS assy CN901

To AF assy J5

To POWER TRANSFORMER T1

TRANS ASSY



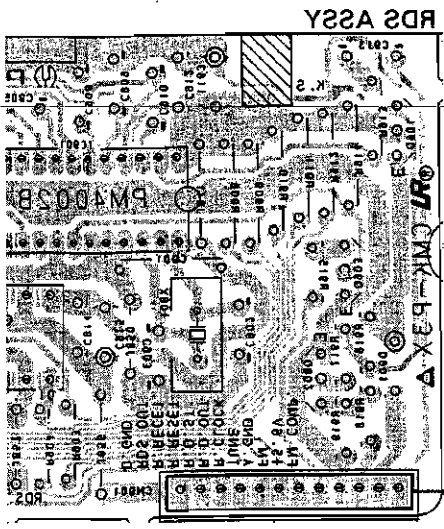
Q524 Q604 Q504 Q502 Q542 Q501 Q541 Q503 Q523 Q553 Q521 Q551 IC701
 Q603 Q602 Q622 Q601 Q621 IC702 Q605 Q605

To SP SW assy J5

To VR assy J8

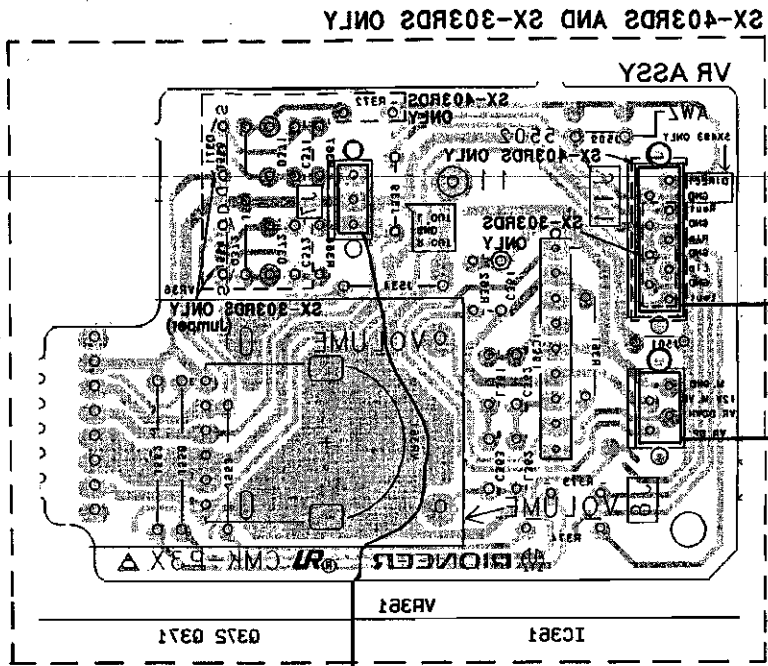
To FRONT assy J4

To POWER TRANSFORMER T1



To AF Assy

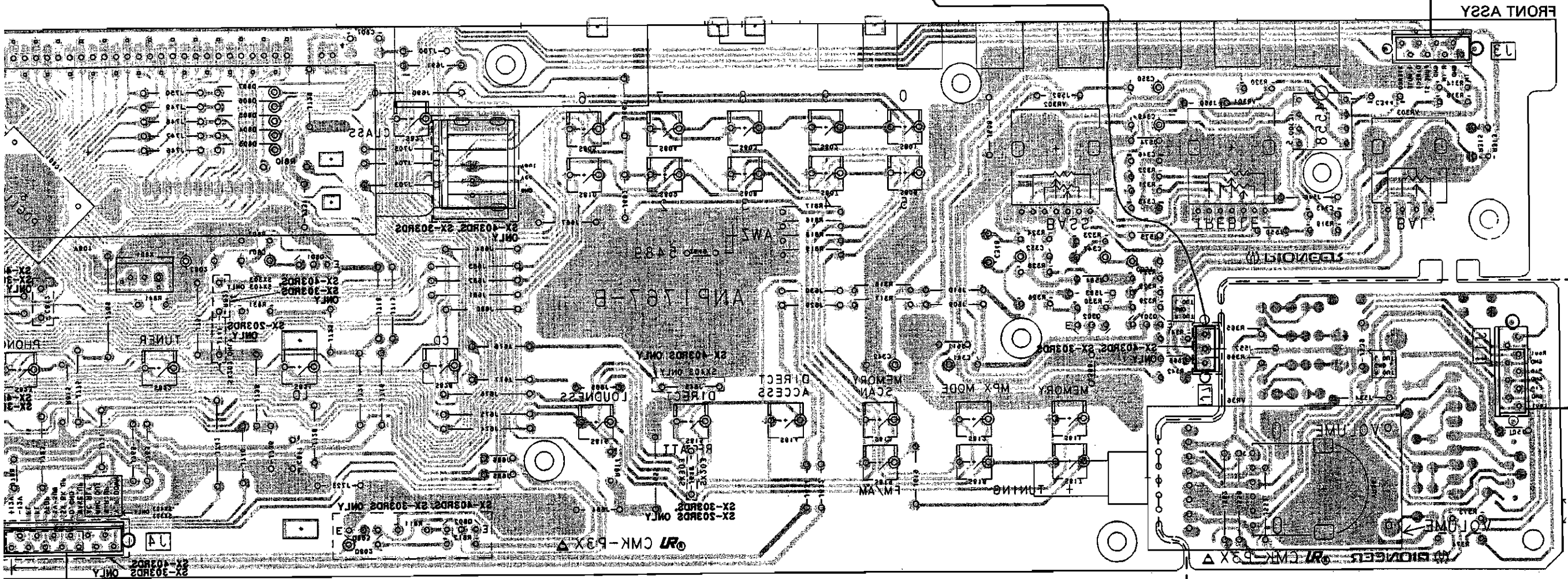
ICB01 9A01 0A03 0A05



To AF Assy J11

To AF Assy J8

To AF Assy J3



FRONT ASSY

2X-303RDS ONLY

ICB01 9A01 0A03 0A05

IC300 9A03 9A05 9A01 9A03

To AF Assy J11

• This diagram is viewed from the foil side.

NOTE:

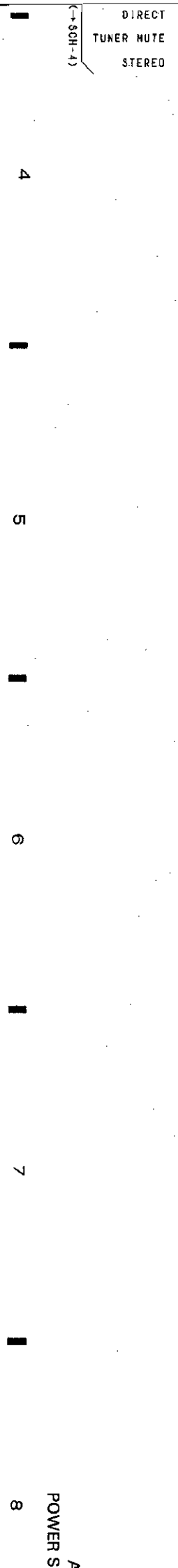
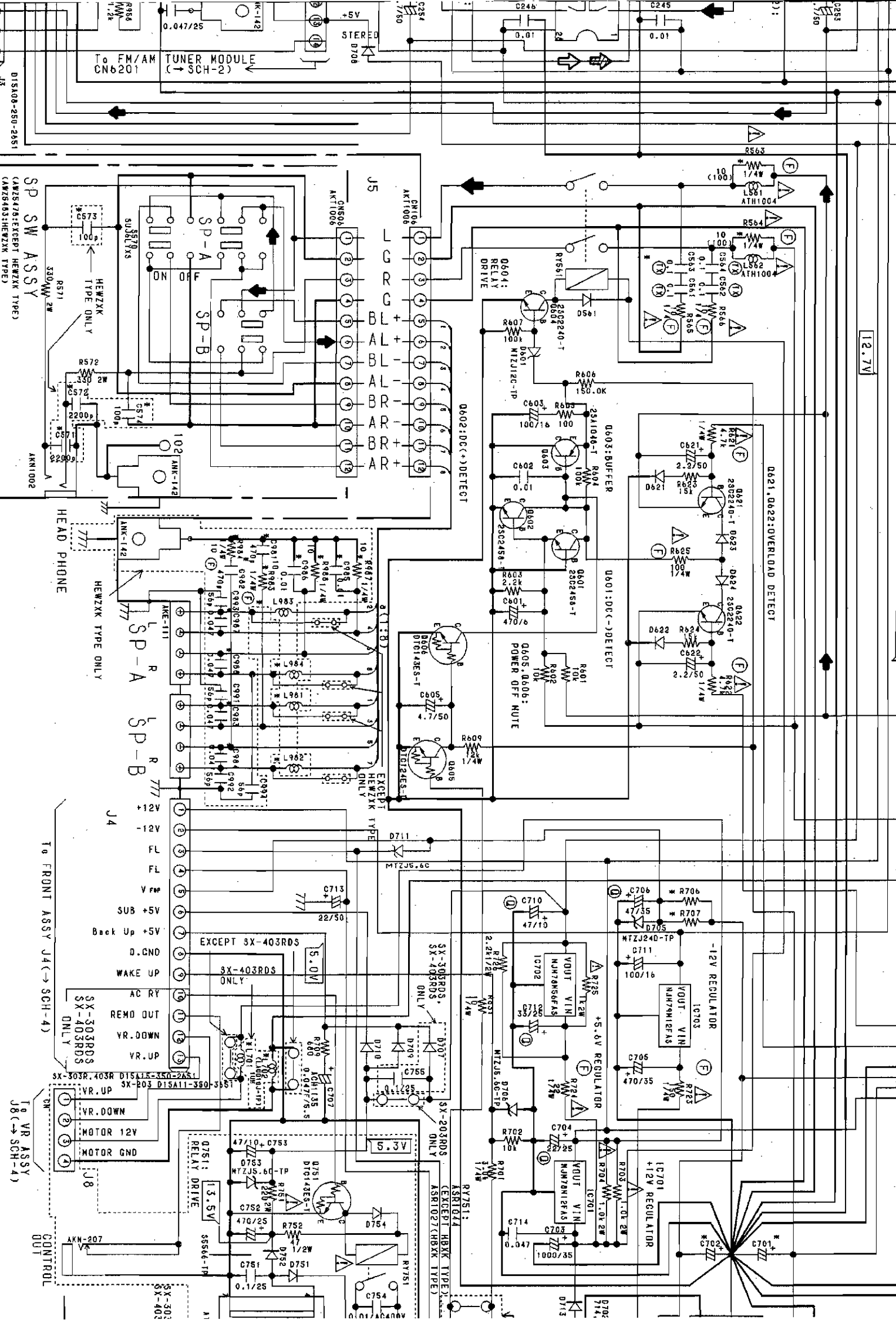
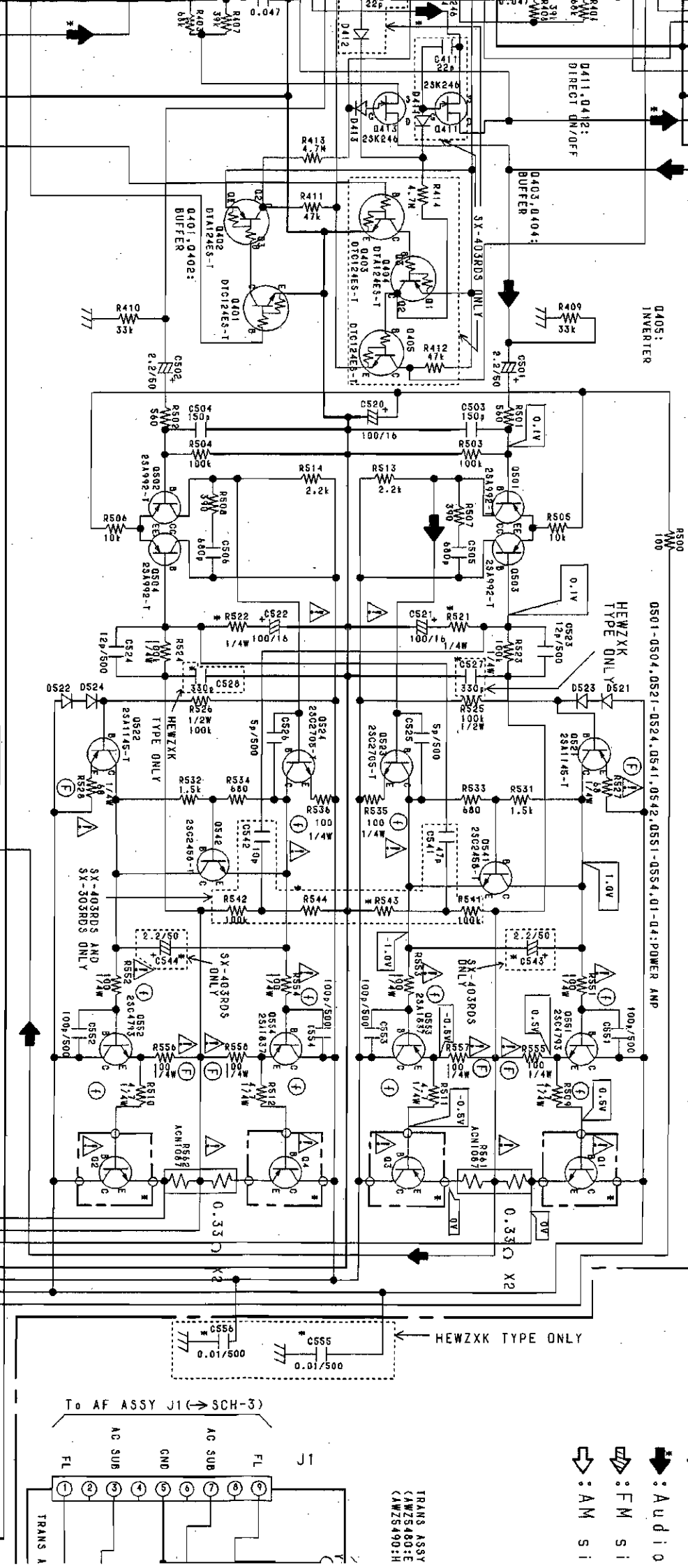
Value in () is HEWZK TYPE.

The parts specified as SX-403RDS/HEWZK are required for the SX-403RDS/HEWZK and SX-203RDS/HEWZK.

The parts specified as SX-303RDS/HEWZK are required for the SX-303RDS/HEWZK and SX-203RDS/HEWZK.

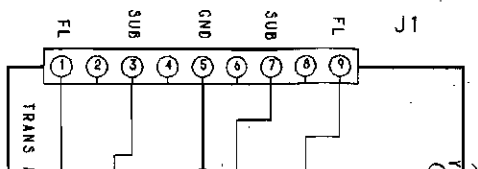
The parts specified as SX-203RDS/HEWZK are required for the SX-203RDS/HEWZK and SX-403RDS/HEWZK.

The parts specified as SX-403RDS/HEWZK are required for the SX-403RDS/HEWZK and SX-203RDS/HEWZK.



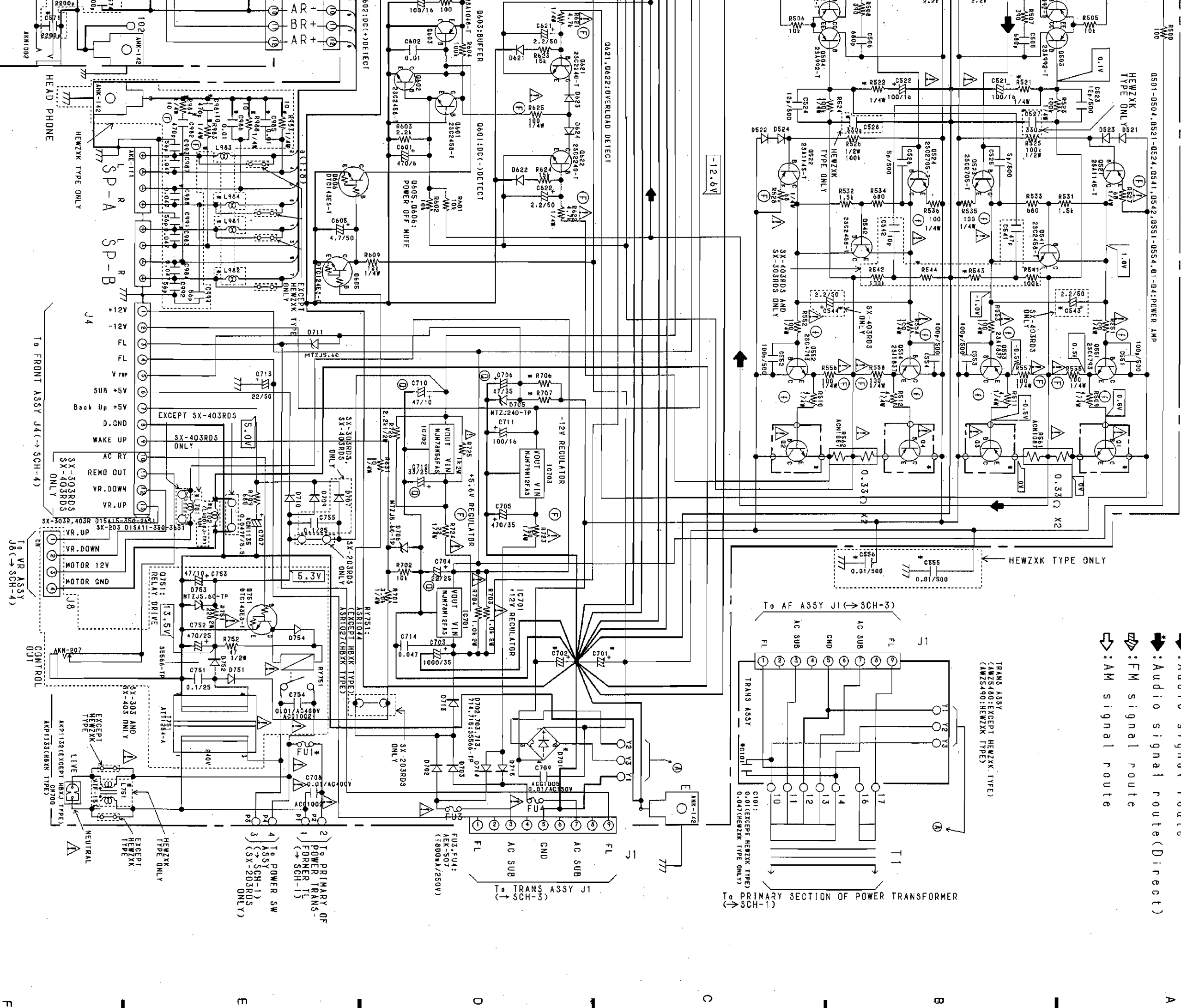
- ↓ : Audio
- ⇓ : Audio
- ⇔ : FM SI
- ⇓ : AM SI

TRANS ASSY
 (AMZ9480-E
 (AMZ8490-H



POWER S

HEWZK TYPE are required for
 303RDS/HEWZK and SX-203RDS/HEWZK.
 HBXS/HEWZK and SX-403RDS/HEWZK are required for
 X-203RDS/HBXS.
 The SX-403RDS/HEWZK and SX-303RDS/HEWZK are required for
 the Paris 885/HEWZK and HBXS.
 The SX-203RDS/HEWZK and SX-403RDS/HEWZK are required for
 the SX-203RDS/HEWZK and HBXS.



SCH-3

- ➔: Audio signal route
- ➔: Audio signal route (Direct)
- ➔: FM signal route
- ➔: AM signal route

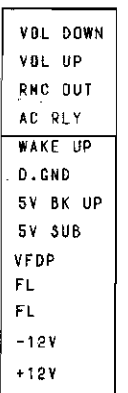
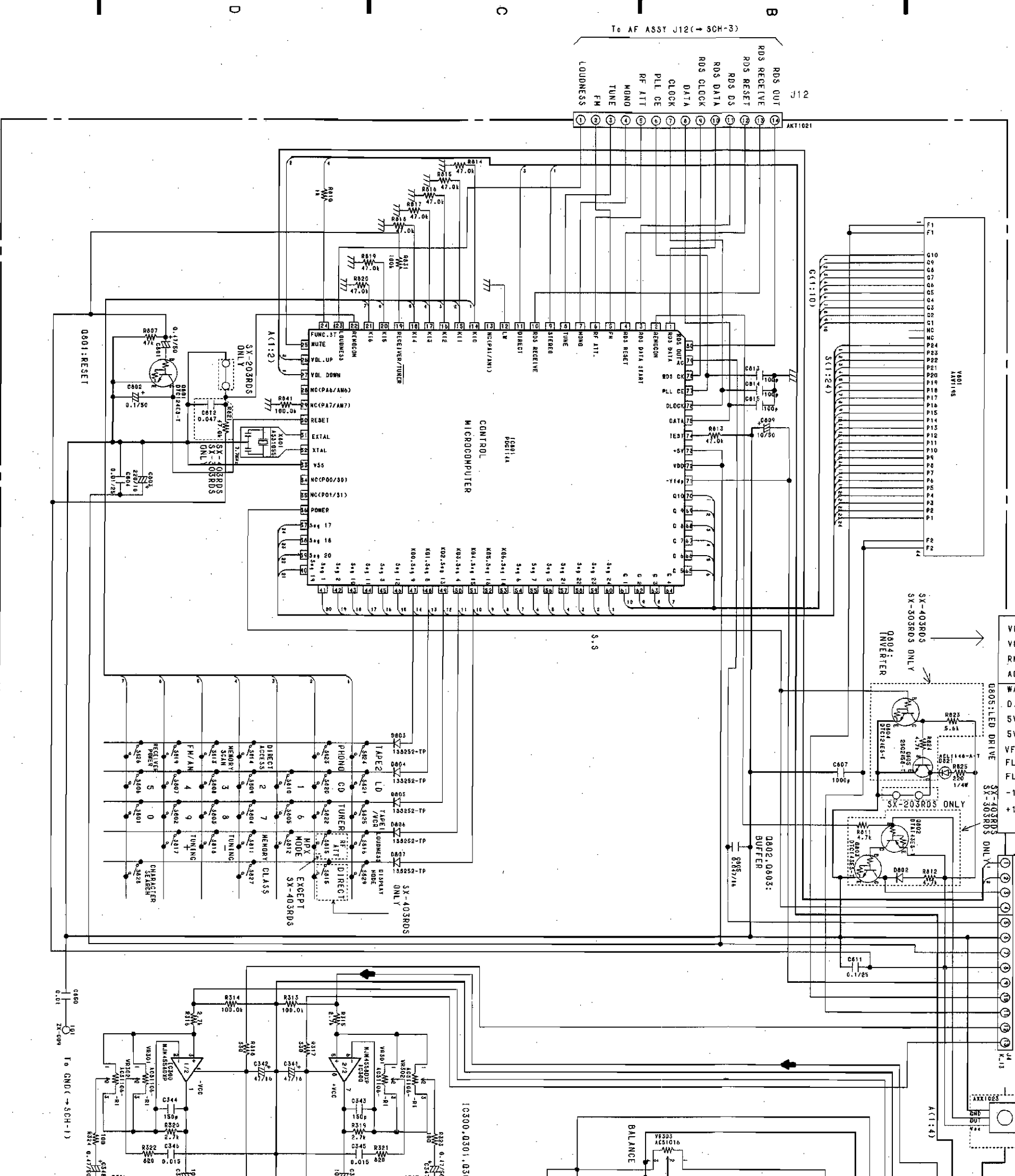
SCH-3

AF ASSY, SP SW ASSY,
 POWER SW ASSY, TRANS ASSY

3.4 FRONT ASSY, VR ASSY AND RDS ASSY

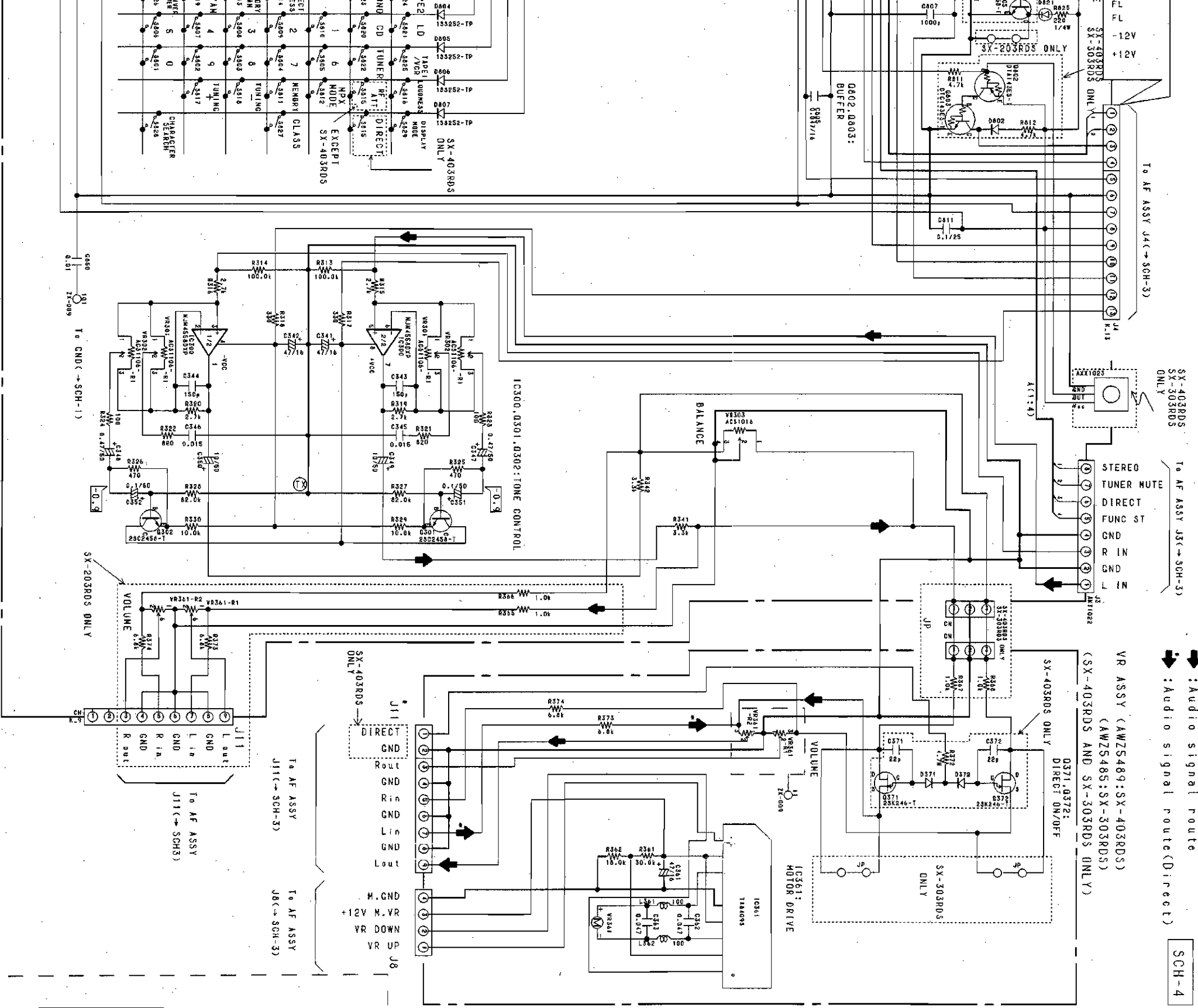
FRONT ASSY (AWZ5489: SX-403RDS)
(AWZ5485: SX-303RDS)
(AWZ5477: SX-203RDS)

NOTE:
• The parts specified as "SX-403RDS" are required for the SX-403RDS/HEXK and HEWZK.
• The parts specified as "SX-303RDS" are required for the SX-303RDS/HEXK, HBXK and HEWZK.
• The parts specified as "SX-203RDS" are required for the SX-203RDS/HEXK, HBXK and HEWZK.

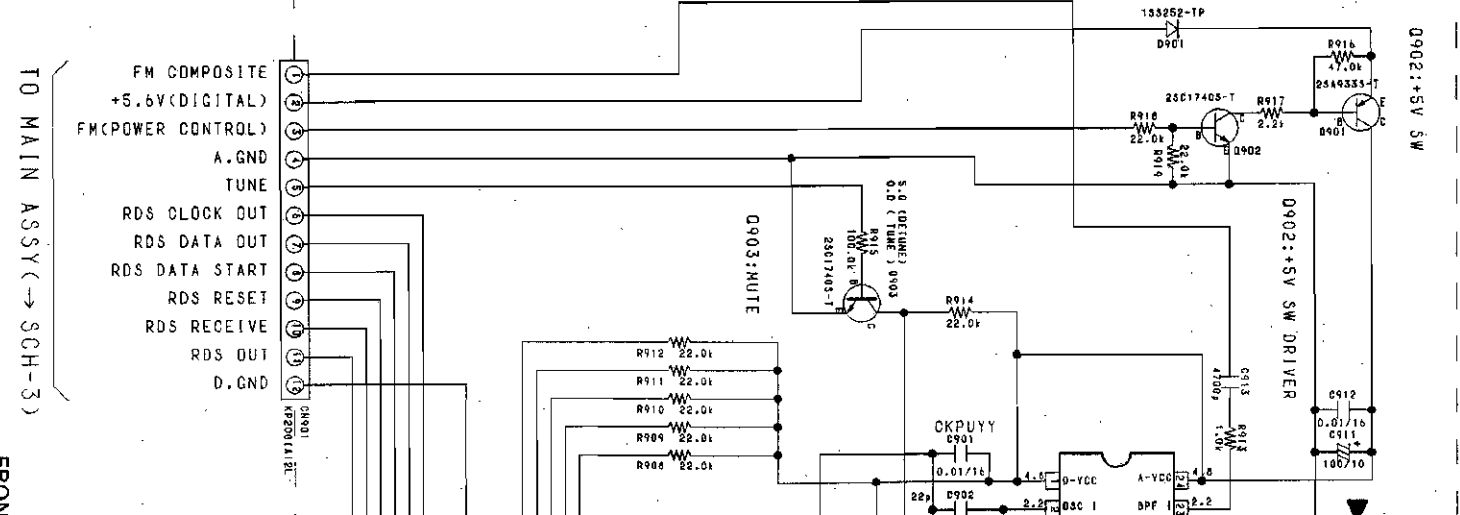


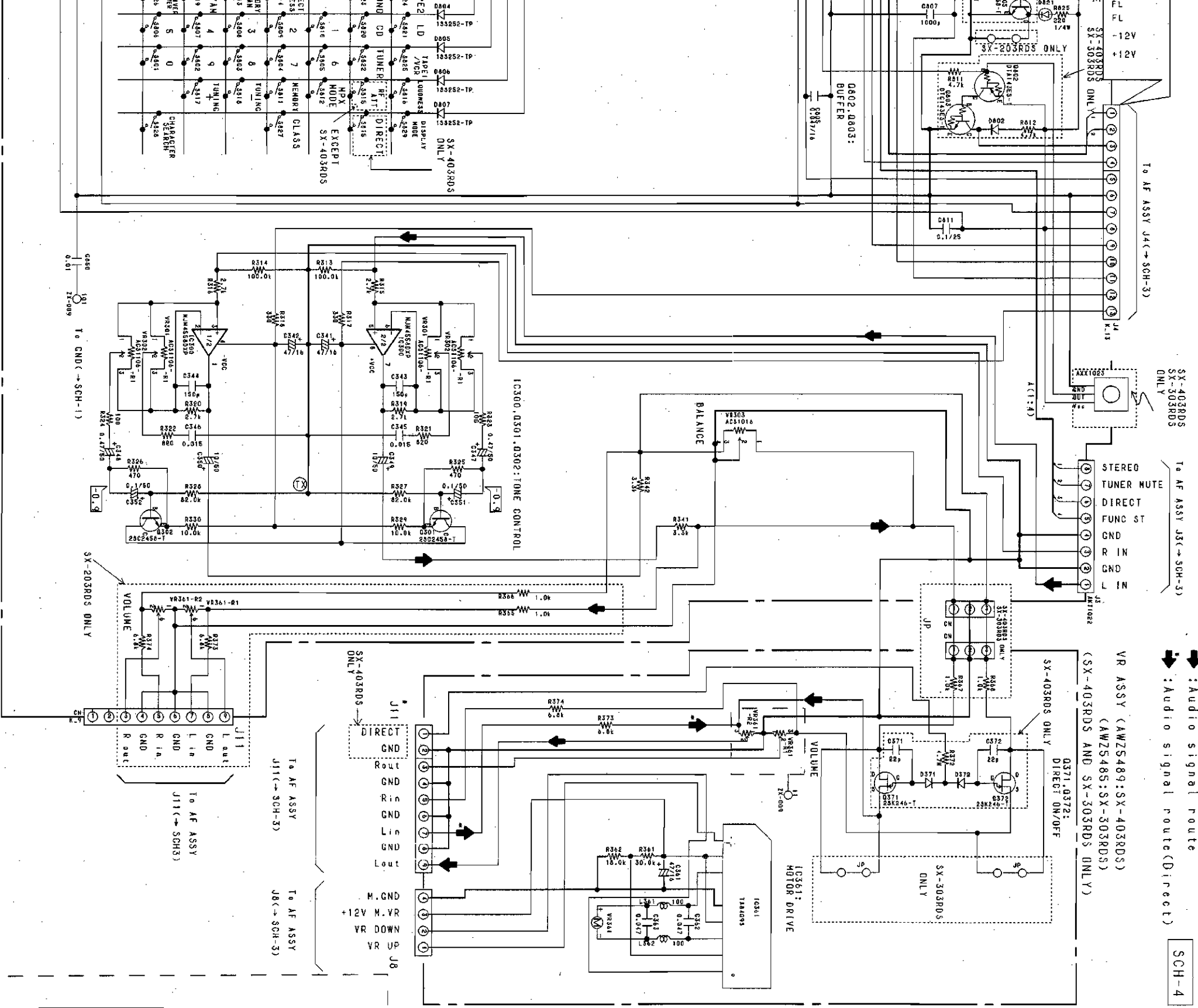
SCH-4

FRONT ASSY, VR ASSY, RDS ASSY



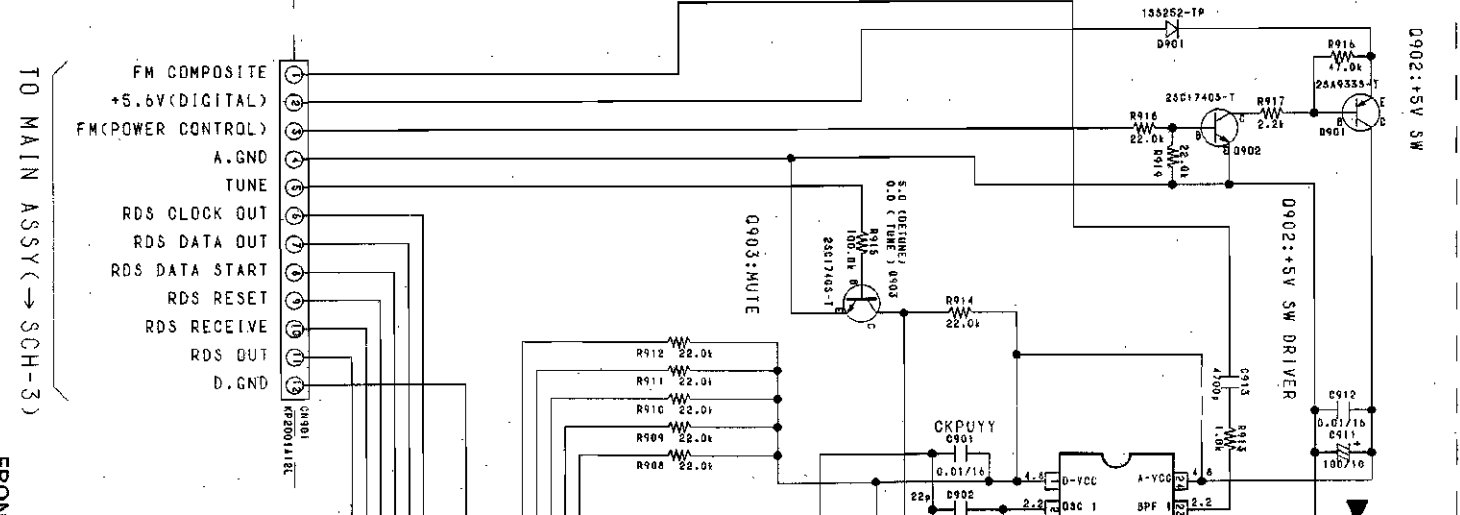
SCH-4





SCH-4

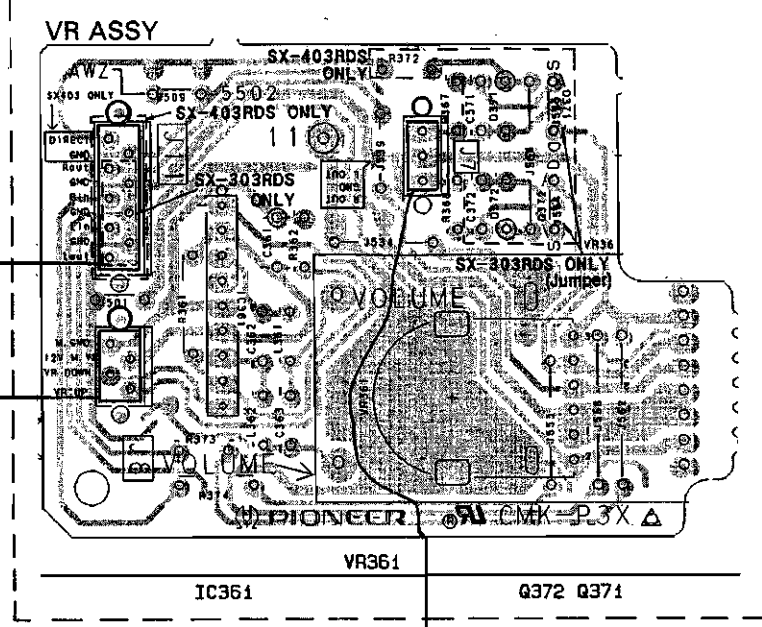
⇨ : Audio signal route
 ⇨ : Audio signal route (Direct)



TO MAIN ASSY (→ SCH-3)

FRONT

SX-403RDS AND SX-303RDS ONLY

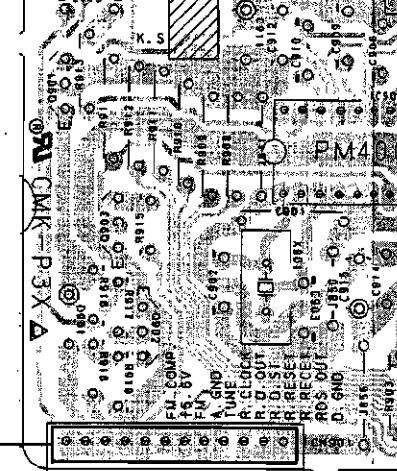


To AF assy J11

To AF assy J8

To AF assy J3

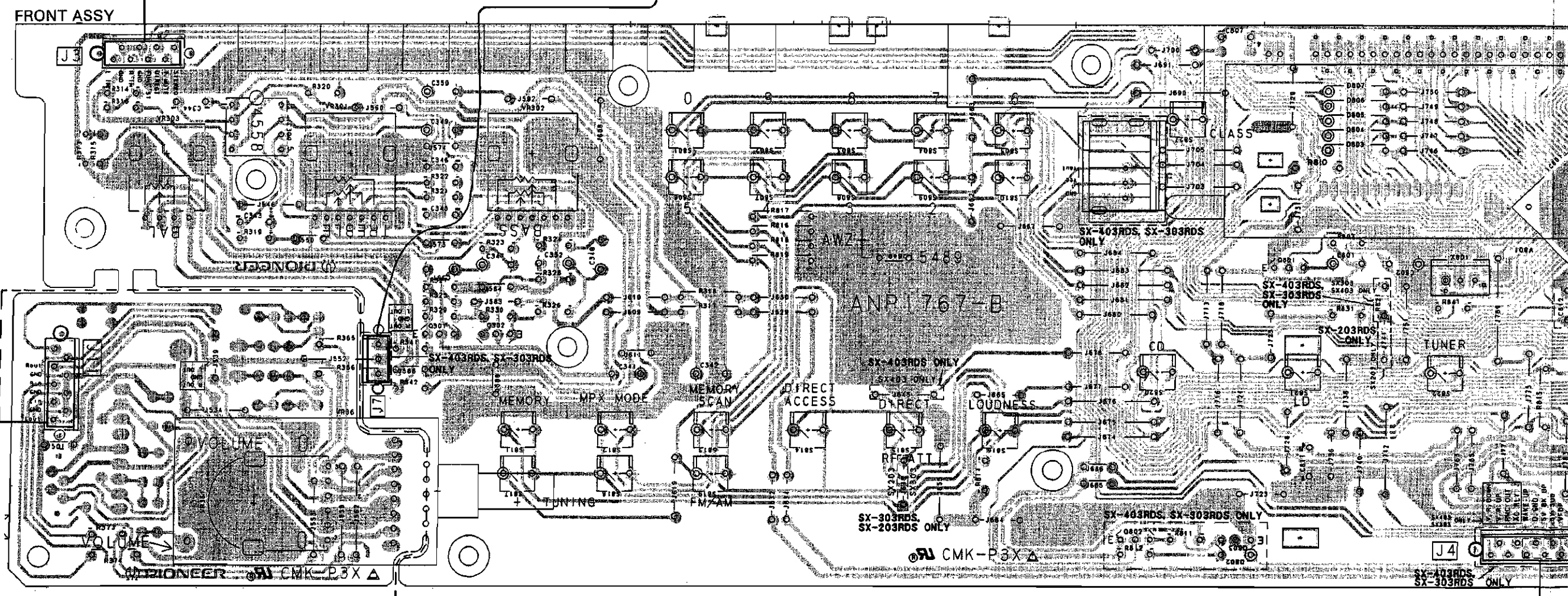
RDS ASSY



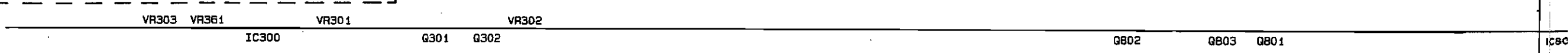
To AF assy

A

B



SX-203RDS ONLY

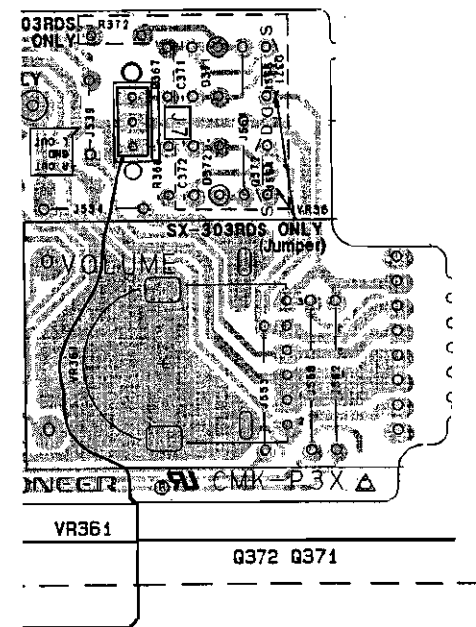


To AF assy J11

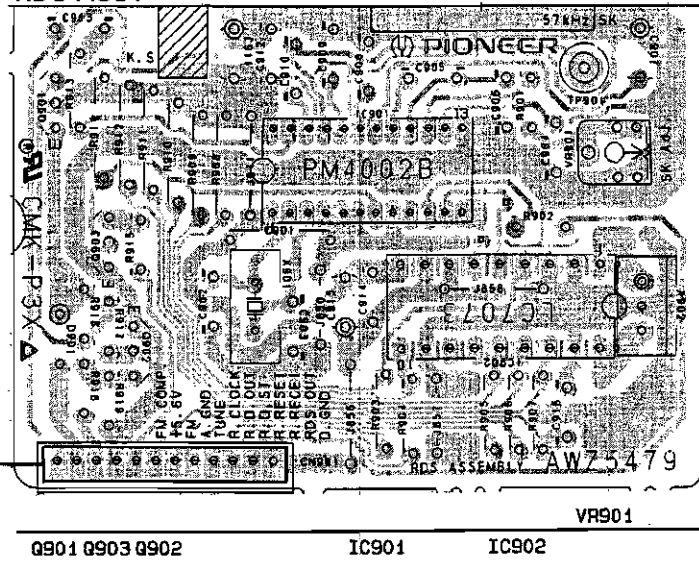
D

• This diagram is viewed from the mounted parts side.

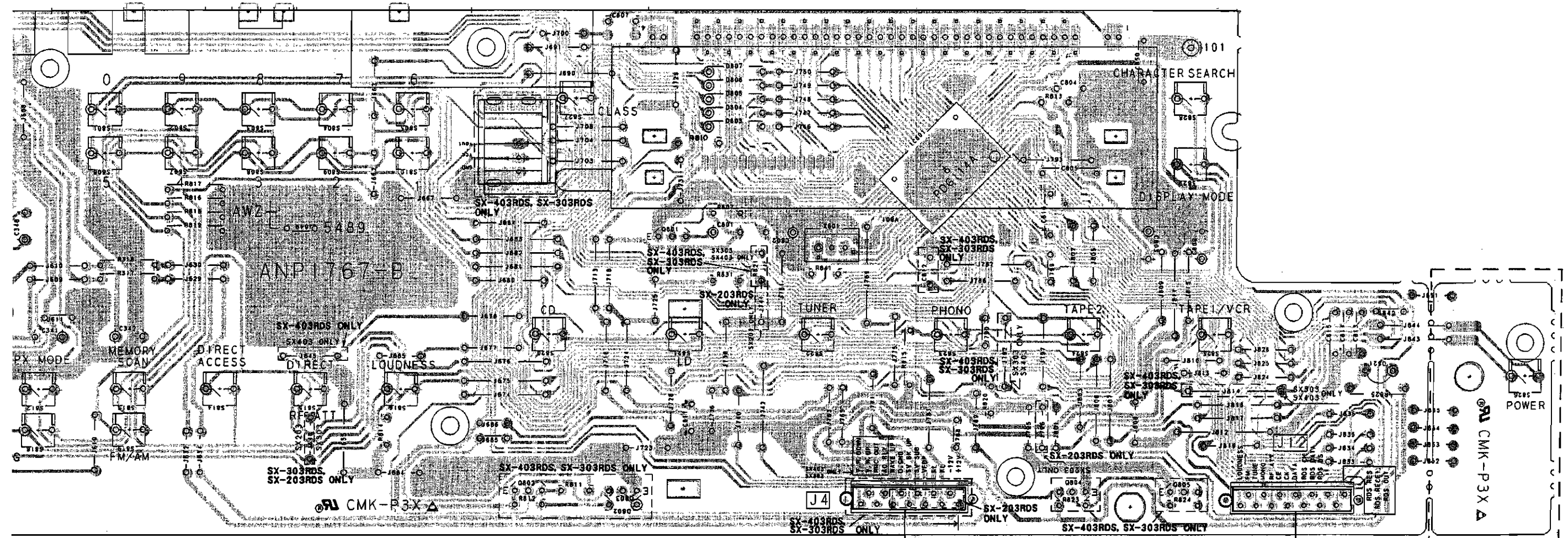
3RDS ONLY



RDS ASSY



To AF assy



SX-403RDS AND SX-303RDS ONLY

Q802 Q803 Q801 IC801 Q804 Q805

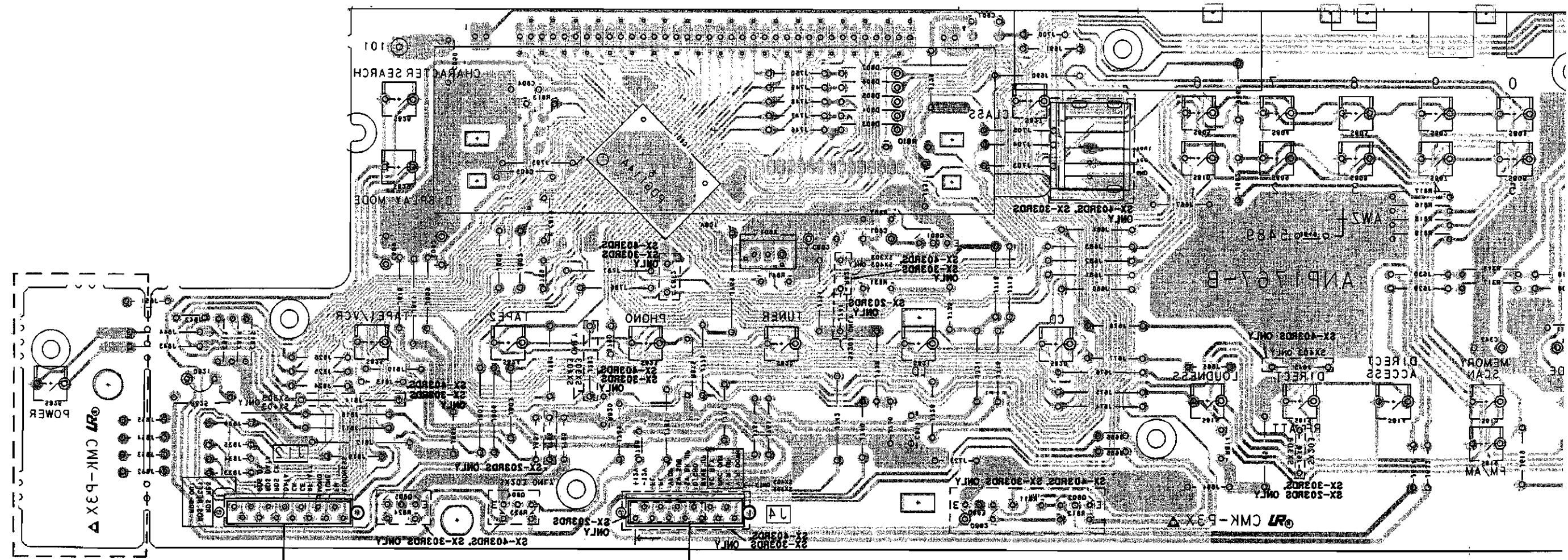
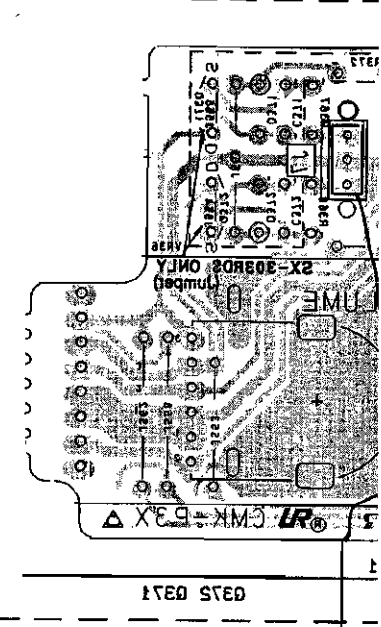
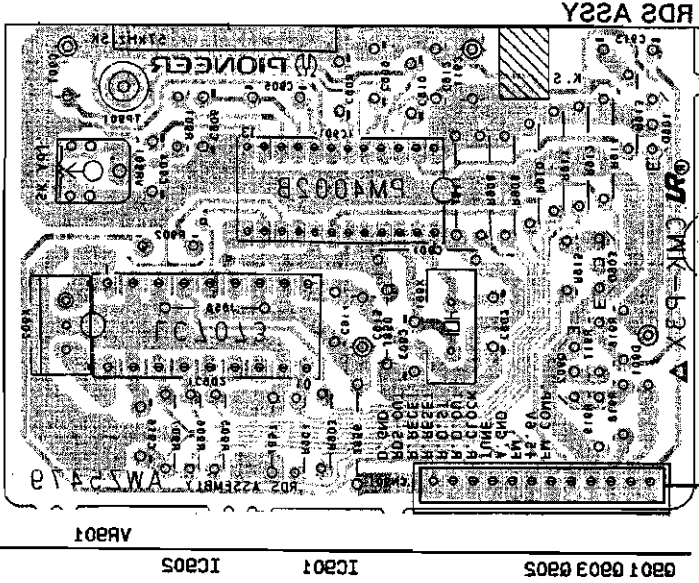
To AF assy J4

To AF assy J2

• This diagram is viewed from the mounted parts side.

SX-403RDS, SX-303RDS, SX-203RDS

ONLY



SX-303RDS ONLY

To AF assy JS

● This diagram is viewed from the foil side.

A

B

C

D

SX-403RDS, SX-303RDS, SX-203RDS

| Mark | No. | Description | Parts No. |
|----------------------------|--------------------------------------|-------------|--------------|
| | Q523, Q524 | | 2SC2705 |
| | Q551, Q552 | | 2SC4793 |
| | Q411, Q412 (SX-403RDS only) | | 2SK246 |
| | Q413, Q414 | | 2SK246 |
| | Q402 | | DTA124ES |
| | Q404 (SX-403RDS only) | | DTA124ES |
| | Q261, Q262, Q401 | | DTC124ES |
| | Q403, Q405 (SX-403RDS only) | | DTC124ES |
| | Q605 | | DTC124ES |
| | Q606 | | DTC143ES |
| | Q751 (SX-403RDS and SX-303RDS only) | | DTC143ES |
| | D411, D412 (SX-403RDS only) | | 1SS252 |
| | D413, D414, D521-D524, D561 | | 1SS252 |
| | D621-D624, D708-D710 | | 1SS252 |
| | D707, D751, D754 | | 1SS252 |
| | (SX-403RDS and SX-303RDS only) | | |
| | D701 (For SX-403RDS) | | D5SB20F |
| | D701 (For SX-303RDS and SX-203RDS) | | D3SBA20 (A) |
| | D601 | | MTZJ12C |
| | D705 | | MTZJ24D |
| | D711 | | MTZJ5.6C |
| | D706 | | MTZJ5.6C |
| | D753 (SX-403RDS and SX-303RDS only) | | MTZJ5.6C |
| | D702, D703, D713-D715 | | S5566 |
| | D752 (SX-403RDS and SX-303RDS only) | | S5566 |
| COILS AND FILTERS | | | |
| | L251 | | LAU2R2J |
| | L561, L562 (0.7uH) | | ATH1004 |
| | L701, L702 (SX-403RDS only) | | LAU010J |
| TRANSFORMERS | | | |
| | T751 (SX-403RDS and SX-303RDS only) | | ATT1254 |
| SWITCHES AND RELAYS | | | |
| | RY561 (For SX-403RDS) | | ASR-112 |
| | RY561 (For SX-303RDS and SX-203RDS) | | ASR1035 |
| | RY751 (SX-403RDS and SX-303RDS only) | | ASR1044 |
| CAPACITORS | | | |
| △ | C708 (0.01/AC400V) | | ACG1002 |
| △ | C754 (0.01/AC400V) | | ACG1002 |
| | (SX-403RDS and SX-303RDS only) | | |
| | C709 (0.01/AC150V) | | ACG1005 |
| | C707 (0.047F/5.5) | | ACH1135 |
| | C701, C702 (8200/50) (For SX-403RDS) | | ACH1265 |
| | C701, C702 (6800/50) (For SX-303RDS) | | ACH1105 |
| | C701, C702 (5600/50) (For SX-203RDS) | | ACH1266 |
| | C542 (SX-403RDS and SX-303RDS only) | | CCCSL100C50 |
| | C525, C526 | | CCCSL050C500 |
| | C551-C554 | | CCCSL101K500 |
| | C523, C524 | | CCCSL120K500 |
| | C503, C504 | | CCCSL151J50 |
| | C403, C404 | | CCCSL271J50 |
| | C411, C412 (SX-403RDS only) | | CCPUSL220J50 |
| | C541 (SX-403RDS and SX-303RDS only) | | CCPUSL470J50 |
| | C200 | | CEAS010M50 |
| | C231, C232 | | CEAS100M50 |
| | C235, C236, C603, C711 | | CEAS101M16 |
| | C703 | | CEAS102M35 |
| | C713 | | CEAS220M50 |
| | C241, C242, C251, C252 | | CEAS2R2M50 |
| | C543, C544 (SX-403RDS only) | | CEAS2R2M50 |
| | C621, C622 | | CEAS2R2M50 |
| | C753 (SX-403RDS and SX-303RDS only) | | CEAS470M10 |

| Mark | No. | Description | Parts No. |
|------------------|-----------------------------------------------|-------------|--------------|
| | C752 (SX-403RDS and SX-303RDS only) | | CEAS471M25 |
| | C705 | | CEAS471M35 |
| | C601 | | CEAS471M6 |
| | C253, C254, C605 | | CEAS4R7M50 |
| | C521, C522 (For SX-403RDS) | | CEEA101M16 |
| | C521, C522 (For SX-303RDS) | | CEAS101M16 |
| | C521, C522 (For SX-203RDS) | | CEAS470M16 |
| | C501, C502 (For SX-403RDS) | | CEEA2R2M50 |
| | C501, C502 (For SX-303RDS and SX-203RDS) | | CEAS2R2M50 |
| | C704 | | CEHAQ220M25 |
| | C712 | | CBHAQ930M25 |
| | C710 | | CEHAQ470M10 |
| | C706 | | CBHAQ470M35 |
| | C520 (For SX-403RDS) | | CEXA101M25 |
| | C520 (For SX-303RDS and SX-203RDS) | | CEAS101M16 |
| | C561-C564 | | CFTXA104J50 |
| | C405, C406 | | CFTXA473J50 |
| | C243-C246, C602 | | CKCYF103Z50 |
| | C714 | | CKCYF473Z50 |
| | C751, C755 (For SX-403RDS and SX-303RDS only) | | CKCYX104M25 |
| | C505, C506 | | CKDYB681K50 |
| | C951 | | CKDYF103Z50 |
| | C250 | | CKDYX104M25 |
| | C952 | | CKDYX473M25 |
| | C233, C234, C247, C248 | | CKPUYB331K50 |
| | C249 | | CKPUYB471K50 |
| | C239, C240 | | CQMA242J50 |
| | C237, C238 | | CQMA822J50 |
| RESISTORS | | | |
| △ | R561, R562 (0.33/5W) | | ACN-139 |
| | R525, R526 | | RD1/2PM104J |
| | R726 | | RD1/2PM222J |
| | R752 (SX-403RDS and SX-303RDS only) | | RD1/2PM470J |
| | R631 | | RD1/4PM100J |
| | R523, R524 | | RD1/4PM104J |
| | R609 | | RD1/4PM123J |
| | R701 | | RD1/4PM302J |
| | R521, R522 (For SX-403RDS) | | RD1/4PM911J |
| | R521, R522 (For SX-303RDS) | | RD1/4PM102J |
| | R521, R522 (For SX-203RDS) | | RD1/4PM122J |
| △ | R563-R566 | | RD1/4PMF100J |
| △ | R555-R558, R625 | | RD1/4PMF101J |
| △ | R621, R622 | | RD1/4PMF472J |
| △ | R527, R528 | | RD1/4PMF680J |
| △ | R535, R536, R551-R554 | | RFA1/4PS101J |
| △ | R723 | | RFA1/4PS151J |
| △ | R724 | | RFA1/4PS220J |
| △ | R509-R512 | | RFA1/4PS4R7J |
| △ | R703, R704, R725 | | RS2LMF102J |
| △ | R751 (SX-403RDS and SX-303RDS only) | | RS2LMF221J |
| | R706, R707 | | RS2LMF272J |
| | (For SX-403RDS and SX-303RDS) | | |
| | R706, R707 (For SX-203RDS) | | RS2LMF222J |
| | R412 (SX-403RDS only) | | RD1/8PM473J |
| | R414 (SX-403RDS only) | | RD1/8PM475J |
| | R541, R542 | | RD1/8PM104J |
| | (SX-403RDS and SX-303RDS only) | | |
| | R543, R544 (For SX-403RDS) | | RD1/8PM911J |
| | R543, R544 (For SX-303RDS) | | RD1/8PM102J |
| | Other Resistors | | RD1/8PM□□□J |

SX-403RDS, SX-303RDS, SX-203RDS

| Mark | No. | Description | Parts No. |
|---------------|-----|---------------------------------------------------------------------------------|--------------------|
| OTHERS | | | |
| | | PIN JACK 6P (PHONO, CD, VCR) | AKB1121 |
| | | PIN JACK 8P (TAPE1 PLAY/REC, TAPE2 PLAY/REC) | AKB1127 |
| | | SPEAKER TERMINAL 8-P JACK (CONTROL OUT) (SX-403RDS and SX-303RDS only) | AKB-111 AKN-207 |
| CN700 | | AC INLET (1P) | AKP1132 |
| | | CABLE HOLDER (9P) | AKT1082 |
| | | HEAT SINK | ANH-575 |
| | | SCREW | BBZ30P080FMC |
| CN302 | | I2P PLUG | KM2001A12 |

FRONT ASSY

SEMICONDUCTORS

| | |
|-------------------------------------|------------|
| IC300 | NJM4558DXP |
| IC801 | PDG114A |
| Q301, Q302 | 2SC2458 |
| Q805 (SX-403RDS and SX-303RDS only) | 2SC2458 |
| Q802 (SX-403RDS and SX-303RDS only) | DTA143ES |
| Q801 | DTC124ES |
| Q804 (SX-403RDS and SX-303RDS only) | DTC124ES |
| Q803 (SX-403RDS and SX-303RDS only) | DTC143ES |
| D802 (SX-403RDS and SX-303RDS only) | 1SS252 |
| D803-D807 | 1SS252 |
| D821 (RED) | AEL1148 |

SWITCHES AND RELAYS

| | |
|-------------------------------------|---------|
| S801-S825, S827-S829 | ASG1029 |
| S826 (SX-403RDS and SX-303RDS only) | ASG1029 |

CAPACITORS

| | |
|-------------------------------------|--------------|
| C343, C344 | CCDSL151J50 |
| C349, C350 | CEAS100M50 |
| C351, C352, C802 | CEJA0R1M50 |
| C809 | CEJA100M50 |
| C803 | CEJA221M10 |
| C341, C342 | CEJA470M16 |
| C347, C348, C801 | CEJAR47M50 |
| C345, C346 | CFTXA153J50 |
| C811 | CKDYX104M25 |
| C813-C815 | CKPUYB101K50 |
| C807 | CKPUYB102K50 |
| C804, C850 | CKPUYF103Z25 |
| C805, C816 | CKPUYF473Z16 |
| C812 (SX-403RDS and SX-303RDS only) | CKPUYF473Z16 |

RESISTORS

| | |
|----------------------------------------------------|-------------|
| VR303 (500k-B) | ACS1016 |
| VR301, VR302 (30k-B5x2) | ACS1106 |
| VR361 (SX-203RDS only) | ACT1071 |
| R825 | RD1/4PM221J |
| R365, R366 (SX-203RDS only) | RD1/8PM102J |
| R373, R374 (SX-203RDS only) | RD1/8PM682J |
| R811, R812, R824 (SX-403RDS and SX-303RDS only) | RD1/8PM472J |
| R821 (SX-403RDS and SX-303RDS only) | RD1/8PM473J |
| R823 (SX-403RDS and SX-303RDS only) | RD1/8PM562J |
| Other Resistors | RD1/8PM□□□□ |

| Mark | No. | Description | Parts No. |
|---------------|-----|------------------------------------------------------------------------|--------------------|
| OTHERS | | | |
| V801 | | FL TUBE | AAV1195 |
| | | CABLE HOLDER (3P) (For SX-403RDS and SX-303RDS) | AKT1076 |
| X801 | | (7.70MHZ) REMOTE RECEIVER UNIT (SX-403RDS and SX-303RDS only) | ASS1055 AXX1023 |

VR ASSY (SX-403RDS and SX-303RDS only)

SEMICONDUCTORS

| | |
|-----------------------------|---------|
| IC361 | TA8409S |
| Q371, Q372 (SX-403RDS only) | 2SK246 |
| D371, D372 (SX-403RDS only) | 1SS252 |

COILS AND FILTERS

| | |
|------------|---------|
| L361, L362 | LAU101K |
|------------|---------|

CAPACITORS

| | |
|-----------------------------|--------------|
| C371, C372 (SX-403RDS only) | CCPUSL220J50 |
| C361 | CEAS470M16 |
| C362, C363 | CKPUYF473Z16 |

RESISTORS

| | |
|-----------------------|-------------|
| VR361 (100k-A5x2) | ACX1069 |
| R372 (SX-403RDS only) | RD1/8PM475J |
| Other Resistors | RD1/8PM□□□□ |

OTHERS

| | |
|-------------------|---------|
| CABLE HOLDER (3P) | AKT1076 |
|-------------------|---------|

POWER SW ASSY (SX-203RDS only)

CAPACITORS

| | |
|--------------------|---------|
| C651 (0.01/AC400V) | ACG1003 |
|--------------------|---------|

SWITCHES AND RELAYS

| | |
|------|---------|
| S651 | ASG1035 |
|------|---------|

FM/AM TUNER MODULE

SEMICONDUCTORS

| | |
|--------|---------|
| IC6201 | LA1836M |
| IC6202 | LM7001J |
| Q6102 | 2SC2223 |
| Q6203 | 2SC2235 |
| Q6202 | 2SC2712 |

| | |
|--------------|----------|
| Q6103, Q6214 | 2SC2714 |
| Q6201 | 2SK208 |
| Q6104, Q6105 | 2SK302 |
| Q6101 | 3SK194 |
| Q6204 | XDA124EK |

| | |
|---------------------|----------|
| Q6215, Q6217 | XDC124EK |
| D6101, D6102, D6104 | 1SV228 |
| D6201 | HVU187 |

COILS AND FILTERS

| | |
|-------|---------|
| L6106 | ATC1003 |
| L6101 | ATC1016 |
| L6102 | ATC1017 |
| L6103 | ATC1018 |
| L6104 | ATC1019 |

SX-403RDS, SX-303RDS, SX-203RDS

| Mark | No. | Description | Parts No. | Mark | No. | Description | Parts No. |
|-------------------|-----------------------------------|-------------|--------------|------------------|----------------------|--------------------|-------------|
| | T6101 | | ATE-063 | | R6237 | | RS1/8S182J |
| | L6207 (F=10.7MHZ) | | ATE1013 | | R6209 | | RS1/8S221J |
| | F6204 | | ATF-107 | | R6239 | | RS1/8S332J |
| | F6203 | | ATF-119 | | R6112 | | RS1/8S473J |
| | F6202 (F=450KHZ) | | ATF1155 | | Other Resistors | | RS1/10S□□□J |
| | L6107 | | ATH1043 | OTHERS | | | |
| | L6209 | | LCTA221J3225 | | 2P TERMINAL WITH PAL | | AKA1017 |
| | L6201, L6202, L6203, L6208 | | LCTA2R2J3225 | X6203 (7.200MHZ) | | | ASS1042 |
| CAPACITORS | | | | X6201 (456kHZ) | | | ASS1066 |
| | C6234, C6236, C6254, C6269 | | ACG1051 | X6202 (450kHZ) | | AM RF TUNING BLOCK | ATF1027 |
| | C6235 | | ACG1052 | | | | AXX1041 |
| | C6120 | | CCSCH060D50 | | | | |
| | C6229 | | CCSCH821J50 | | | | |
| | C6111 | | CCSQCH010C50 | | | | |
| | C6112, C6122 | | CCSQCH020C50 | | | | |
| | C6118 | | CCSQCH080D50 | | | | |
| | C6113, C6203 | | CCSQCH101J50 | | | | |
| | C6116, C6208, C6221, C6222 | | CCSQCH150J50 | | | | |
| | C6117 | | CCSQCH330J50 | | | | |
| | C6105 | | CCSQSL471J50 | | | | |
| | C6101 | | CCSQTH110J50 | | | | |
| | C6119 | | CCSQTH150J50 | | | | |
| | C6106, C6107 | | CCSQTH270J50 | | | | |
| | C6262 | | CEAS100M50 | | | | |
| | C6231, C6233 | | CEAS3R3M50 | | | | |
| | C6216, C6217 | | CEAS330M16 | | | | |
| | C6219 | | CEAS470M10 | | | | |
| | C6243, C6244, C6245 | | CEAS470M16 | | | | |
| | C6227 | | CEAS470M25 | | | | |
| | C6246 | | CEEA100M50 | | | | |
| | C6224 | | CEEA101M25 | | | | |
| | C6261 | | CEJA010M50 | | | | |
| | C6238 | | CEJA100M16 | | | | |
| | C6249, C6250 | | CEJA4R7M35 | | | | |
| | C6215 | | CFTXA103J50 | | | | |
| | C6214 | | CFTXA224J50 | | | | |
| | C6125, C6204, C6207 | | CKSQYB102K50 | | | | |
| | C6102, C6114, C6115, C6121, C6124 | | CKSQYB103K50 | | | | |
| | C6210, C6253, C6264 | | CKSQYB103K50 | | | | |
| | C6213 | | CKSQYB223K50 | | | | |
| | C6230 | | CKSQYB273K50 | | | | |
| | C6228 | | CKSQYB472K50 | | | | |
| | C6209, C6237 | | CKSQYB473K50 | | | | |
| | C6251, C6252 | | CKSQYB682K50 | | | | |
| | C6212, C6218 | | CKSQYF103Z50 | | | | |
| | C6220, C6226, C6239, C6242, C6255 | | CKSQYF223Z50 | | | | |
| | C6241 | | CKSQYF473Z50 | | | | |
| | C6123 | | CKSYB103K50 | | | | |
| | C6232 | | CKSYB273K50 | | | | |
| | C6223 | | CKSYF103Z50 | | | | |
| | C6263 | | CKSYF473Z50 | | | | |
| RESISTORS | | | | | | | |
| | VR6201 (10k) | | ACP1056 | | | | |
| | VR6202 | | VRTB6VS223 | | | | |
| | R6299, R6300 | | RD1/8PM102J | | | | |
| | R6115, R6119, R6123, R6127, R6268 | | RS1/8S000J | | | | |
| | R6269-R6273, R6275, R6276, R6278 | | RS1/8S000J | | | | |
| | R6283, R6284, R6289, R6290, R6293 | | RS1/8S000J | | | | |
| | R6294, R6297, R6303 | | RS1/8S000J | | | | |
| | R6243, R6244 | | RS1/8S101J | | | | |
| | R6211 | | RS1/8S103J | | | | |
| | R6247 | | RS1/8S152J | | | | |

5. ADJUSTMENTS

■ FM TUNER SECTION

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

| Step No. | Adjustment Title | FM SG (1kHz, ± 75 kHz dev.) | | Reception Frequency Display | Adjustment Location | Specifications |
|----------|---------------------------|---------------------------------|--------------------|--------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| | | Frequency (MHz) | Level (dB μ V) | | | |
| 1 | Center Adjustment | 98 Non modulation | 80 or more | 98MHz | L6207 | Adjust so that the DC voltage between Pin 4 and Pin 28 (or \oplus leads of C6224 and C6261) of IC6201 becomes $0V \pm 50mV$. |
| 2 | Front End Sensitivity | 98 | 10-30 | 98MHz | L6104 L6105*1 L6102 T6101 | Adjust so that the DC voltage between Pin12 (or \oplus leads of C6238) of IC6201 (S-meter) and GND becomes at maximum level. |
| 3 | TUNED IND. Lighting Level | 98 | 15 ± 2 | 98MHz | VR6201 | Adjust so that the indicator of TUNED IND. starts to light up. |
| 4 | SK Level Adjustment | 88 EXTERNAL *2 (RDS SG) | 60 | 88MHz NORMAL (RF ATT ON) | VR901 | Adjust so that the output level 57kHz between TP901 and GND becomes maximum. |

*1 : HEWZK type only

*2 : RDS SG (AUDIO, PILOT, RDS, BK and DK: OFF, SK: ON)

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.

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

SX-403RDS, SX-303RDS, SX-203RDS

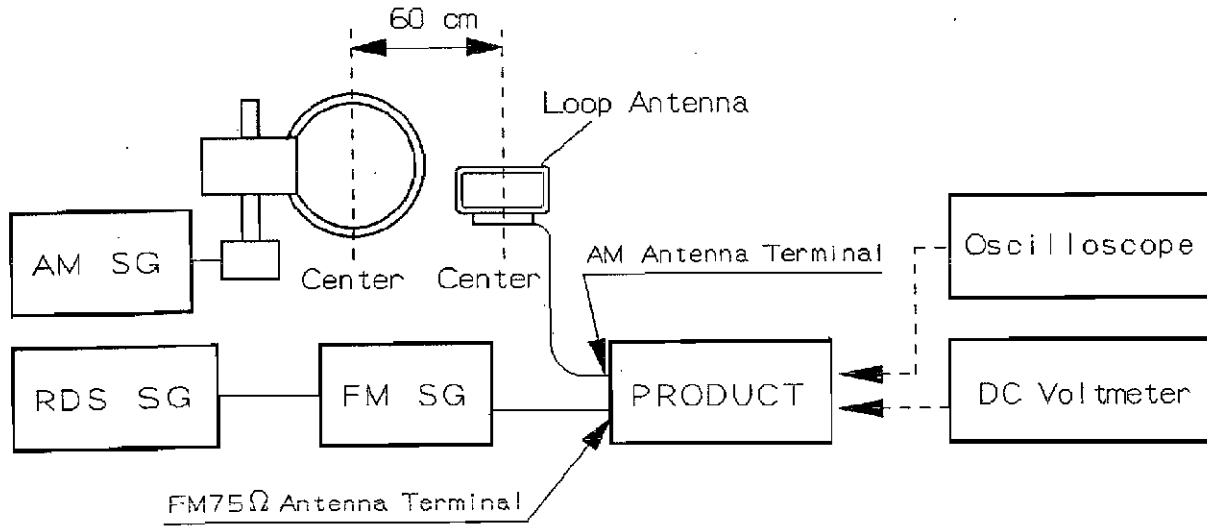
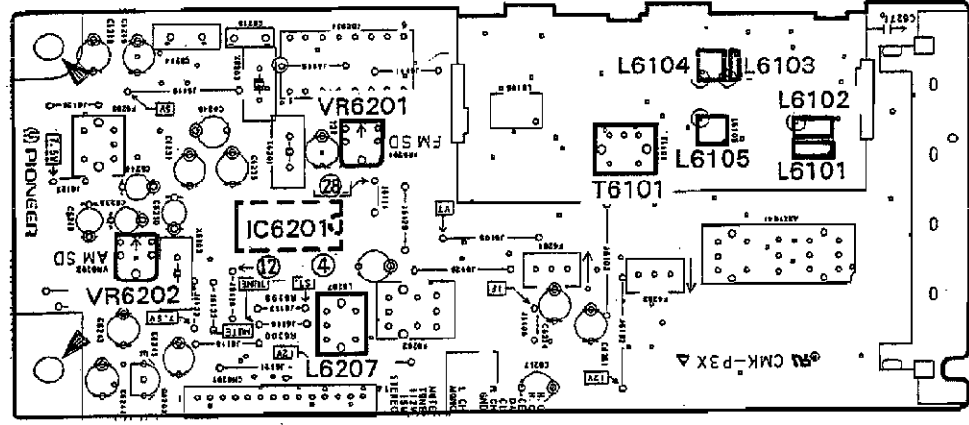


Fig. 1 FM and AM Adjustment Wiring Diagram

FM/AM TUNER MODULE



RDS Assy

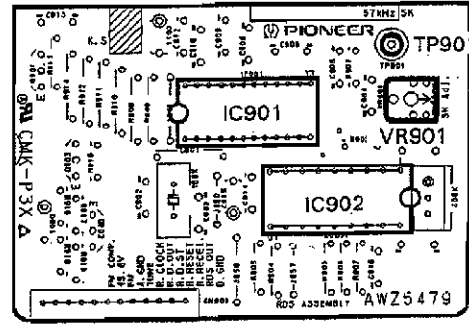
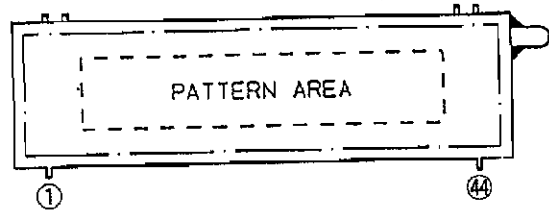


Fig. 2 Adjustment Points

6. FL INFORMATION

● AAV1195(V801)

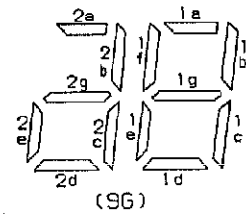
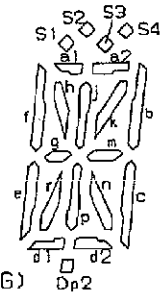
PIN LOCATION



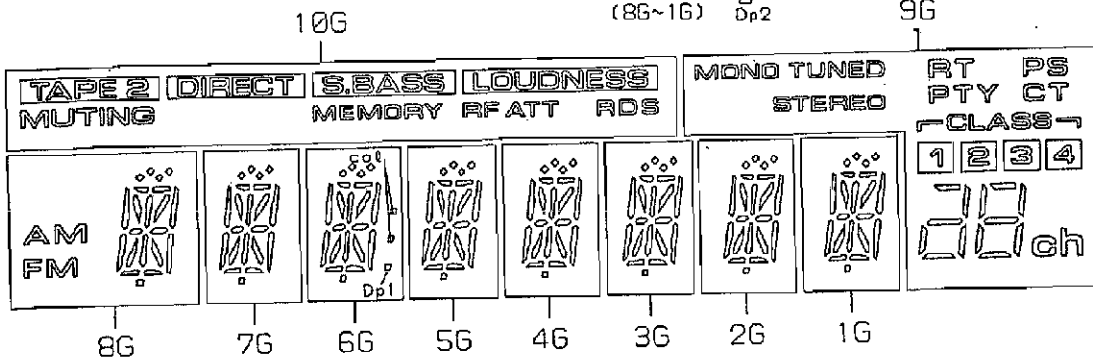
PIN CONNECTION

| PIN NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|
| CONNECTION | F | F | N | N | 0 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | N | N | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

- NOTE
- 1) F1, F2 --- Filament
 - 2) NP ----- No pin
 - 3) NC ----- No connection
 - 4) DL ----- Datum Line
 - 5) 1G~10G --- Grid



GRID ASSIGNMENT



ANODE CONNECTION


| | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G |
|-----|----------|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| P1 | - | TUNED | S1 | S1 | S1 | S1 | S1 | S1 | S1 | S1 |
| P2 | - | STEREO | S2 | S2 | S2 | S2 | S2 | S2 | S2 | S2 |
| P3 | - | 2 | S4 | S4 | S4 | S4 | S4 | S4 | S4 | S4 |
| P4 | - | 3 | S3 | S3 | S3 | S3 | S3 | S3 | S3 | S3 |
| P5 | MEMORY | MONO | a1 | a1 | a1 | a1 | a1 | a1 | a1 | a1 |
| P6 | RFATT | 4 | a2 | a2 | a2 | a2 | a2 | a2 | a2 | a2 |
| P7 | - | -CLASS- | h | h | h | h | h | h | h | h |
| P8 | - | 1 | j | j | j | j | j | j | j | j |
| P9 | TAPE 2 | 2b | b | b | b | b | b | b | b | b |
| P10 | - | RT | k | k | k | k | k | k | k | k |
| P11 | MUTING | 1a | g | g | g | g | g | g | g | g |
| P12 | LOUDNESS | 1b | f | f | f | f | f | f | f | f |
| P13 | - | 2c | m | m | m | m | m | m | m | m |
| P14 | - | CT | c | c | c | c | c | c | c | c |
| P15 | - | PTY | p | p | p | p | p | p | p | p |
| P16 | - | PS | r | r | r | r | r | r | r | r |
| P17 | - | 1g | n | n | n | n | n | n | n | n |
| P18 | S.BASS | 1e | d1 | d1 | d1 | d1 | d1 | d1 | d1 | d1 |
| P19 | DIRECT | 1c | e | e | e | e | e | e | e | e |
| P20 | RDS | 1d | d2 | d2 | d2 | d2 | d2 | d2 | d2 | d2 |
| P21 | - | 1f | Dp2 | Dp2 | Dp2 | Dp2 | Dp2 | Dp2 | Dp2 | Dp2 |
| P22 | - | ch | AM | - | col | - | - | - | - | - |
| P23 | - | 2a, 2d, 2g | FM | - | Dp1 | - | - | - | - | - |
| P24 | - | 2e | - | - | - | - | - | - | - | - |



7. IC INFORMATION

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

■ PDG114A (IC801) CONTROL MICROCOMPUTER

● Pin Function

| No. | NAME | I/O | FUNCTION | ACT |
|-----|----------------------|-----|------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1 | RDS DATA | I | Data from LC7073 input | — |
| 2 | REMOCON | I | Remote control signal input | — |
| 3 | RDS DATA START | I | Synchronizing signal of each block from LC7073 input | — |
| 4 | RDS RESET | O | Reset signal output to LC7073 when receiving frequency converted |  |
| 5 | FM | O | FM BAND select output | H |
| 6 | RF ATT | O | RF ATT ON/OFF output | H |
| 7 | MONO | O | FM MONO output | H |
| 8 | TUNE | I | TUNE indicator signal input | L |
| 9 | STEREO | I | STEREO indicator signal input | L |
| 10 | RDS RECEIVE | I | Signal showing RDS station or not input | L |
| 11 | DIRECT | O | DIRECT ON/OFF (Receiver only) *1 | H |
| 12 | LW be or not | I | L: LW not being H: LW being (Tuner only) *1 | — |
| 13 | LOUDNESS | O | LOUDNESS ON/OFF (Receiver only) *1 | H |
| 14 | K10 | I | KEYSCAN input 0 | H |
| 15 | K11 | I | KEYSCAN input 1 | H |
| 16 | K12 | I | KEYSCAN input 2 | H |
| 17 | K13 | I | KEYSCAN input 3 | H |
| 18 | K14 | I | KEYSCAN input 4 | H |
| 19 | RECEIVER/ TUNER | I | Change-over of RECEIVER/ TUNER (L: Tuner H: Receiver) | — |
| 20 | K15 | I | KEYSCAN input 5 (Receiver only) *1 | H |
| 21 | K16 | I | KEYSCAN input 6 (Receiver only) *1 | H |
| 22 | REMOCON be or not | I | Change-over of destination (Receiver only) *1 | H |

| No. | NAME | I/O | FUNCTION | ACT |
|-----|--------------|-----|----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 23 | NC | | Not used | H |
| 24 | FUNCTION ST | O | Change-over of FUNCTION IC (TC9164N) Strobe (Receiver only) *1 |  |
| 25 | MUTE | O | TUNER, MUTE control output | H |
| 26 | VOL UP | O | VOLUME UP output | H |
| 27 | VOL DOWN | O | VOLUME DOWN output | H |
| 28 | Rotary input | O | Rotary encoder input A (Tuner only) *1 | H |
| 29 | Rotary input | O | Rotary encoder input B (Tuner only) *1 | H |
| 30 | RST | I | Reset input |  |
| 31 | EX' TAL | | Connecting 7.7 MHz oscillation crystal between pins | — |
| 32 | X' TAL | | | — |
| 33 | Vss | | GND standard electric potential | — |
| 34 | NC | | Not used | — |
| 35 | FL AC | O | FL AC ON/OFF | L |
| 36 | POWER | O | POWER ON/OFF | H |
| 37 | Seg 17 | O | Segment indication output | H |
| 38 | Seg 18 | O | | |
| 39 | Seg 20 | O | | |
| 40 | Seg 19 | O | | |
| 41 | Seg 1 | O | | |
| 42 | Seg 2 | O | | |
| 43 | Seg 10 | O | | |
| 44 | Seg 11 | O | | |
| 45 | Seg 3 | O | | |
| 46 | Seg 12 | O | | |
| 47 | K00/S9 | O | Segment indication output / KEYSCAN output | H |

SX-403RDS, SX-303RDS, SX-203RDS

| No. | NAME | I/O | FUNCTION | ACT |
|-----|-------------------|-----|-------------------------------------------------|-----|
| 48 | K01/S8 | O | Segment indication output / KEYSCAN output | H |
| 49 | K02/S13 | O | | |
| 50 | K03/S4 | O | | |
| 51 | K04/S15 | O | | |
| 52 | Seg 16 | O | Segment indication output | H |
| 53 | Seg 14 | O | | |
| 54 | Seg 6 | O | | |
| 55 | Seg 7 | O | | |
| 56 | Seg 5 | O | | |
| 57 | Seg 21 | O | | |
| 58 | Seg 22 | O | Segment Indication output (Receiver only) *1 | H |
| 59 | Seg 23 | O | | |
| 60 | Seg 24 | O | | |
| 61 | R: G 1 T: G 10 | O | Grid FL indication output | H |
| 62 | R: G 2 T: G 9 | O | | |
| 63 | R: G 3 T: G 8 | O | | |
| 64 | R: G 4 T: G 7 | O | | |
| 65 | R: G 5 T: G 6 | O | | |
| 66 | R: G 6 T: G 1 | O | | |
| 67 | R: G 7 T: G 2 | O | | |
| 68 | R: G 8 T: G 3 | O | | |
| 69 | R: G 9 T: G 4 | O | | |
| 70 | R: G 10 T: G 5 | O | | |

| No. | NAME | I/O | FUNCTION | ACT |
|-----|---------|-----|-------------------------------------------------------------------------------------|-----|
| 71 | -VFDP | | Electric potential for FL display (-30 V) | — |
| 72 | VDD | | +5 V Power source input | — |
| 73 | NC | | +5 V Power source input | — |
| 74 | TEST | I | TEST MODE judgement input | H |
| 75 | PLL_DT | O | PLL communication data output (LM7001) and change-over function (TC9164N) | — |
| 76 | PLL_CK | O | PLL communication clock output (LM7001) and change-over function (TC9164N) | — |
| 77 | PLL_CE | O | PLL communication chip enable output (LM7001) | H |
| 78 | RDS_CK | I | Each bit from LC7073 synchronizing clock input | — |
| 79 | AC | I | WAKE • UP AC pulse input | — |
| 80 | RDS_OUT | I | Judging RDS signals output or not | L |

*1 : Functions will be changed according to setting (L or H) of Pin 19.

SX-403RDS, SX-303RDS, SX-203RDS

AF ASSY (For SX-303RDS)

AWZ5623, AWZ5487 and AWZ5484 have the same construction except for the following :

| Mark | Symbol & Description | Part No. | | | Remarks |
|------|------------------------|--------------|--------------|--------------|---------|
| | | AWZ5484 | AWZ5623 | AWZ5487 | |
| △ | RY751 | ASR1044 | ASR1027 | ASR1044 | |
| △ | L751 | ..... | ..... | ATF-151 | |
| | L981-L984 | ..... | ..... | ATH-133 | |
| | C201, C202 | ..... | ..... | CKPUYB181K50 | |
| | C203-C210, C213-C224 | ..... | ..... | CKPUYB391K50 | |
| | C211, C212 | ..... | ..... | CKPUYB821K50 | |
| | C527, C528 | ..... | ..... | CKPUYB331K50 | |
| | C555, C556 | ..... | ..... | CKDYB103K500 | |
| | C981, C982 | ..... | ..... | CKDYB471K50 | |
| | C983, C984, C987, C988 | ..... | ..... | CFTXA473J50 | |
| | C985, C986 | ..... | ..... | CKDYF103Z50 | |
| | C991-C994 | ..... | ..... | CCDSL560J50 | |
| △ | R211, R212 | RD1/8PM331J | RD1/8PM331J | RD1/8PM102J | |
| | R563, R564 | RD1/4PMF100J | RD1/4PMF100J | RD1/4PMF101J | |
| | R983, R984, R987, R988 | ..... | ..... | RD1/4PMF100J | |
| | CN700 AC inlet (1P) | AKP1132 | AKP1133 | AKP1132 | |

AF ASSY (For SX-203RDS)

AWZ5622, AWZ5482 and AWZ5476 have the same construction except for the following :

| Mark | Symbol & Description | Part No. | | | Remarks |
|------|------------------------|--------------|--------------|--------------|---------|
| | | AWZ5476 | AWZ5622 | AWZ5482 | |
| △ | L751 | ..... | ..... | ATF-151 | |
| | L981-L984 | ..... | ..... | ATH-133 | |
| | C201, C202 | ..... | ..... | CKPUYB181K50 | |
| | C203-C210, C213-C224 | ..... | ..... | CKPUYB391K50 | |
| | C211, C212 | ..... | ..... | CKPUYB821K50 | |
| | C527, C528 | ..... | ..... | CKPUYB331K50 | |
| | C555, C556 | ..... | ..... | CKDYB103K500 | |
| | C981, C982 | ..... | ..... | CKDYB471K50 | |
| | C983, C984, C987, C988 | ..... | ..... | CFTXA473J50 | |
| | C985, C986 | ..... | ..... | CKDYF103Z50 | |
| | C991-C994 | ..... | ..... | CCDSL560J50 | |
| △ | R211, R212 | RD1/8PM331J | RD1/8PM331J | RD1/8PM102J | |
| | R563, R564 | RD1/4PMF100J | RD1/4PMF100J | RD1/4PMF101J | |
| | R983, R984, R987, R988 | ..... | ..... | RD1/4PMF100J | |
| | CN700 AC inlet (1P) | AKP1132 | AKP1133 | AKP1132 | |

SX-403RDS, SX-303RDS, SX-203RDS

FM/AM TUNER MODULE

AXQ3228 and AXQ3227 have the same construction except for the following :

| Mark | Symbol & Description | Part No. | | Remarks |
|--------------|----------------------|--------------|--------------|---------|
| | | AXQ3227 | AXQ3228 | |
| Q6218 | | | 2SC2712 | |
| D6103 | | | 1SV228 | |
| F6205 | | | ATF1152 | |
| L6105 | | | ATC1015 | |
| L6205 | | | LCTA680J3225 | |
| C6106 | | CCSQTH270J50 | CCSQTH330J50 | |
| C6107 | | CCSQTH270J50 | CCSQTH300J50 | |
| C6109 | | | CCSQTH270J50 | |
| C6110 | | | CCSQTH300J50 | |
| C6115 | | CKSQYB103K50 | CKSQYB102K50 | |
| C6122 | | CCSQCH020C50 | CCSQCH010C50 | |
| C6126 | | | CKSQYB102K50 | |
| C6203 | | CCSQCH101J50 | ..... |  |
| C6204 | | CKSQYB102K50 | ACG1051 | |
| C6229 | | CCSCH821J50 | CCSCH102J50 | |
| C6247 | | | CKSQYB122K50 | |
| C6248 | | | CBEA100M50 | |
| C6251, C6252 | | CKSQYB682K50 | CKSQYB562K50 | |
| C6256 | | | CKSQYF223Z50 | |
| C6267 | | | CKSQYB473K50 | |
| C6272 | | | CCSQL330J50 | |
| R6114 | | | RS1/10S473J | |
| R6122 | | RS1/10S472J | RS1/10S332J | |
| R6129, R6302 | | | RS1/8S000J | |
| R6131, R6308 | | RS1/10S000J | ..... |  |
| R6232 | | | RS1/10S134J | |
| R6233 | | | RS1/10S513J | |
| R6234 | | | RS1/10S222J | |
| R6235 | | | RS1/10S132J | |
| R6236 | | | RS1/10S472J | |
| R6237 | | RS1/8S182J | RS1/8S122J | |
| R6238 | | RS1/10S182J | RS1/10S122J | |
| R6239 | | RS1/8S332J | RS1/8S103J | |
| R6240 | | RS1/10S332J | RS1/10S103J | |
| R6251 | | RS1/10S620J | RS1/10S680J | |
| R6290 | | RS1/8S000J | ..... |  |

SX-403RDS, SX-303RDS, SX-203RDS

TRANS ASSY

AWZ5490 and AWZ5480 have the same construction except for the following :

| Mark | Symbol & Description | Part No. | | Remarks |
|------|----------------------|--------------|--------------|---------|
| | | AWZ5480 | AWZ5490 | |
| C101 | | CQMXA103J100 | CQMXA473J100 | |

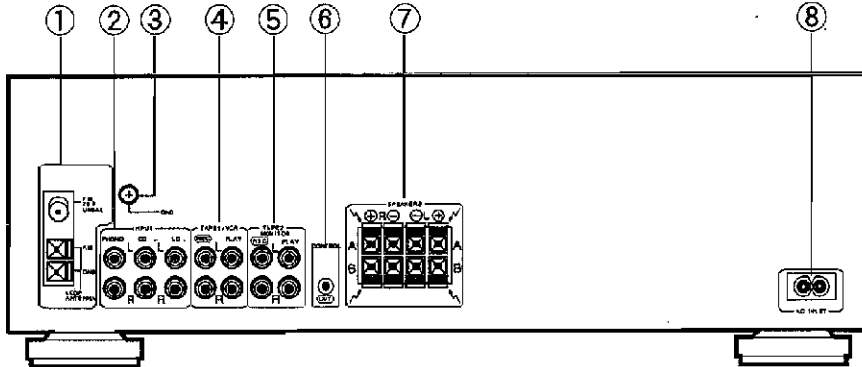
SP SW ASSY

AWZ5483 and AWZ5478 have the same construction except for the following :

| Mark | Symbol & Description | Part No. | | Remarks |
|--------------------------|----------------------|----------|----------------------------|---------|
| | | AWZ5478 | AWZ5483 | |
| C571, C572 C573, C574 | | | CKDYB222K50 CCDSL101J50 | |

9. PANEL FACILITIES

9.1 REAR PANEL FACILITIES



• The illustration shows SX-403RDS.

① FM/AM ANTENNA terminals

Use these antenna terminals for receiving FM and AM broadcasts.

② INPUT jacks

PHONO Connect to the output cables from a turntable.
CD Connect to the output jacks of a compact disc player.
LD Connect to the output jacks of a LD player.

③ GND terminal

Connect to the ground lead of a turntable.
 Use a screwdriver to connect with the ground terminal.

④ TAPE 1/VCR jacks

Connect these jacks to the cassette deck or video cassette recorder.

⑤ TAPE 2 MONITOR jacks

Connect these jacks to the cassette deck.

⑥ CONTROL OUT jacks (SX-403RDS and SX-303RDS)

Connect this jack to other Pioneer components bearing the **SR** mark when using the remote control of this unit to control the other components.

- ① To the CONTROL IN jack of other component.
- ② Receiver
- ③ Pioneer component bearing the **SR** mark.
- ④ Remote control unit.

⑦ SPEAKERS terminals

A: Connect to a first set speakers.
B: Connect to a second set of speakers.

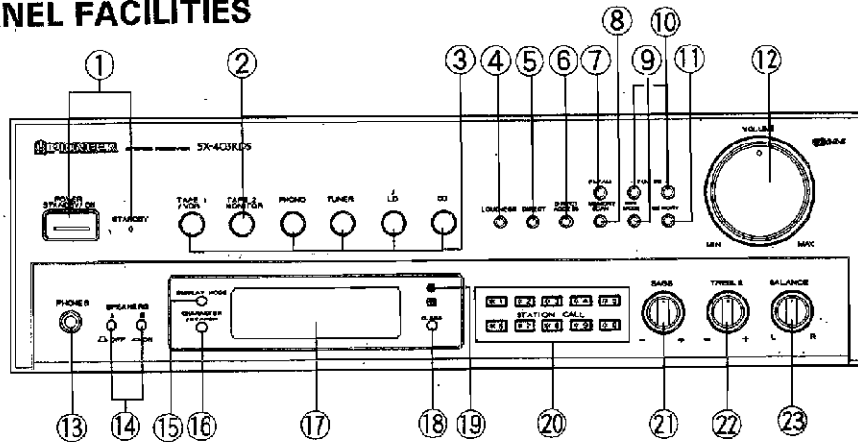
NOTE:

No sound will be heard through the speakers when both A and B buttons are depressed if only one set of speakers has been connected to either A or B SPEAKERS terminals.

⑧ AC INLET

Connect the power cord first to the unit, then plug it into the AC wall outlet.

9.2 FRONT PANEL FACILITIES



- The illustration shows SX-403RDS.

① POWER (STANDBY/ON) switch/STANDBY indicator (SX-403RDS, SX-303RDS)

This is the switch for electric power.

ON: When set to the ON position, power is supplied and the unit becomes operational.

STANDBY: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

- The accessory remote control unit can also be used to operate STANDBY/ON.

NOTE:

When the power is initially turned ON, muting will be applied to prevent sound from being output for approx. 5 seconds.

① POWER switch/indicator (SX-203RDS)

When this switch is pressed, the indicator showing power is being supplied lights up.

Press the switch again to turn power OFF.

[Timer ON/OFF possible]

When the unit is switched ON, ON/OFF control can be performed by means of the optional timer.

NOTE:

When the power is initially turned ON, muting will be applied to prevent sound from being output for approx 5 seconds.

② TAPE 2 MONITOR button

Press when listening to tape playback with the cassette deck 2.

③ Function buttons

Use to select playback source.

[TAPE 1/VCR] — Press when listening to tape playback with the cassette deck 1 or video cassette recorder.

[PHONO] — Press when listening to record playback on a turntable.

[TUNER] — Press when listening to AM or FM broadcasts with a tuner.

[LD] — Press when listening to laser disc with a laser disc player.

[CD] — Press when listening to compact disc playback with a CD player.

④ LOUDNESS button

Use when listening at low volume levels.

ON: Boosts low and high frequencies to produce a fuller sense of sound, particularly at low volume levels.

OFF: Normal position.

NOTE:

This button does not operate when the DIRECT button is in the ON position (SX-403RDS).

⑤ DIRECT button (SX-403RDS)

Use this button when you do not wish to pass the output from input terminal through the various frequency adjusting circuits (TREBLE, BASS and LOUDNESS). When this button is on, the BALANCE control does not operate.

⑤ RF ATT button (SX-303RDS/SX-203RDS)

Set this button to ON when receiving strong FM signals (near-by stations) to reduce sound distortion.

Normally, this button should be set to OFF.

This button has no effect on reception of AM broadcasts.

NOTE:

This button's status is preset for each station in station memory.

⑥ DIRECT ACCESS tuning button

When this button is pressed, the STATION CALL buttons function as ten-key number buttons for direct input of the desired reception frequency. Press again to cancel this mode.

⑦ FM/AM selector button

This button is used to select either AM or FM reception.

⑧ MEMORY SCAN button

This button is used for station memory scan.

MEMORY SCAN is not executed at the time of SLEEP timer operation.

⑨ MPX MODE selector button

Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the FM MONO indicator is lighted.

Auto stereo mode:

Normally leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo sound.

Monaural mode:

When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

NOTE:

This button has no effect on reception of AM broadcasts.

SX-403RDS, SX-303RDS, SX-203RDS

⑩ TUNING buttons (-, +)

Use for tuning. Press the buttons to change the frequency display (3-speed Accel Tuning)

In the Manual Name input mode and PTY search mode, use to select characters and program types.

⑪ MEMORY button

When the unit is in the frequency display mode, pressing this button will result in the memorization of the current broadcast band, reception frequency, and FM AUTO/MONO mode.

NOTE:

The MEMORY button does not function during SLEEP timer operation.

⑫ VOLUME control

Use to adjust volume level.

⑬ PHONES jack

Connect the plug on your headphones to this jack. To listen to a program through the headphones, set both SPEAKERS A and B switches to the OFF position.

⑭ SPEAKERS (OFF, ON) buttons

These are used to select the speaker through which you wish to listen.

A: When the speakers connected to A terminals are in use.

B: When the speakers connected to B terminals are in use.

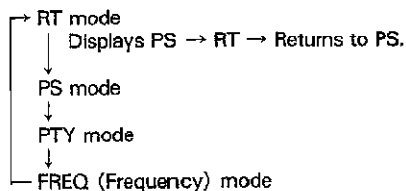
- Turn both A and B speakers to OFF position when only the headphones are in use.

NOTE:

No sound will be heard through the speakers when both A and B buttons are pressed if only one set of speakers has been connected to either A or B SPEAKERS terminals.

⑮ DISPLAY MODE button

Use only during FM reception. Use this to switch between display modes. Each time you press it, the display changes as follows.



- This button does not function when the SLEEP button of the remote control unit is ON.

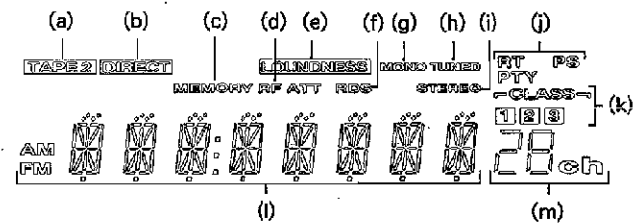
⑯ CHARACTER/SEARCH button

When receiving an AM broadcast, or when in the FM RT, PS modes: Press the button, "INPUT" is displayed, and the mode switches to manual station name input.

When in the FM PTY mode:

Press the button, "SEARCH" is displayed, and the mode switches to program type search.

- This button does not function when the SLEEP button of the remote control unit is ON. This button does not function at the time of frequency mode.



⑰ OPERATION DISPLAY panel

- (a) TAPE 2 monitor indicator
- (b) DIRECT indicator (SX-403RDS)
- (c) MEMORY indicator
- (d) RF ATT indicator
- (e) LOUDNESS indicator
- (f) RDS indicator
- (g) MONO indicator
- (h) TUNED indicator
- (i) STEREO indicator
- (j) RT, PS, PTY indicator
- (k) CLASS indicator
- (l) Frequency, function, character display
- (m) Channel display

⑱ CLASS button

Use to switch between preset memory classes 1 to 3. In each class, one station can be memorized in each of the 1 to 10 STATION CALL buttons, enabling a total of 30 stations to be memorized.

⑲ Remote sensor

⑳ STATION CALL buttons

These buttons are used to preset and recall desired broadcasting stations and direct access tuning.

㉑ BASS tone control

Use to adjust the low-frequency tone. The center position is the flat (normal) position. When tuned to the right, low-frequency tones are emphasized.

NOTE:

This control does not operate when the DIRECT button is in the ON position. (SX-403RDS)

㉒ TREBLE tone control

Use to adjust high-frequency tone. The center position is the flat (normal) position. When tuned to the right, high-frequency tones are emphasized.

NOTE:

This control does not operate when the DIRECT button is in the ON position. (SX-403RDS)

㉓ BALANCE control

Should normally be left in the center position. Adjust balance if the sound is louder from one of the speakers. If the right side is louder, turn toward the L position and if the left side is louder, turn toward the R position.

NOTE:

This control does not operate when the DIRECT button is in the ON position. (SX-403RDS)

10. SPECIFICATIONS

Amplifier Section

| | |
|----------------------------------------------------------------|----------------------------------------------------|
| Continuous Power Output (DIN) | |
| (SX-403RDS) 1 kHz, T.H.D. 1%, 4 Ω | 85 W + 85 W |
| (SX-303RDS) 1 kHz, T.H.D. 1%, 4 Ω | 60 W + 60 W |
| (SX-203RDS) 1 kHz, T.H.D. 1%, 4 Ω | 40 W + 40 W |
| Continuous Power Output (both channel driven)* | |
| (SX-403RDS) 20 Hz - 20 kHz, T.H.D. 0.07%, 8 Ω | 80 W + 60 W |
| (SX-303RDS) 40 Hz - 20 kHz, T.H.D. 0.09%, 8 Ω | 50 W + 50 W |
| (SX-203RDS) 40 Hz - 20 kHz, T.H.D. 0.09%, 8 Ω | 35 W + 35 W |
| Dynamic power output (with EIA test signal) | |
| (SX-403RDS) 2/4/8 Ω | 120 W/110 W/80 W |
| (SX-303RDS) 4/8 Ω | 90 W/70 W |
| (SX-203RDS) 4/8 Ω | 60 W/50 W |
| Input (Sensitivity/Impedance) | |
| PHONO | 2.5 mV/47 kΩ |
| CD, LD, TAPE 1/VCR, TAPE 2 | 200 mV/22 kΩ |
| Phono Overload Level (T.H.D. 0.1%, 1 kHz) | |
| PHONO | 100 mV |
| Output (Level/Impedance) | |
| TAPE 1/VCR REC, TAPE 2 REC MONITOR | 200 mV/2.2 kΩ |
| Frequency Response | |
| PHONO (RIAA Equalization) | 20 Hz to 20,000 Hz ±0.5 dB |
| CD, LD, TAPE 1/VCR, TAPE 2 | 10 Hz to 70,000 Hz ±0.5 dB |
| Signal-to-Noise Ratio (IHF, short circuited, A network) | |
| (SX-403RDS), | |
| PHONO MM | 81 dB |
| (SX-303RDS/SX-203RDS) | |
| PHONO | 72 dB |
| (SX-403RDS) | |
| CD, LD, TAPE 1/VCR, TAPE 2 (DIRECT ON) | 105 dB |
| TAPE 2 (DIRECT OFF) | 100 dB |
| (SX-303RDS/SX-203RDS) | |
| CD, LD, TAPE 1/VCR, TAPE 2 | 96 dB |
| Tone control | |
| BASS | ±10 dB (100 Hz) |
| TREBLE | ±10 dB (10 kHz) |
| LOUDNESS | +6 dB (100 Hz at -40dB) +4 dB (10 kHz at -40dB) |

FM Tuner Section

| | |
|------------------------------------|-----------------------------|
| Frequency range | 87.5 MHz to 108 MHz |
| Usable Sensitivity | 14.2 dBf, IHF (1.4 μV/75 Ω) |
| Sensitivity (DIN) | |
| MONO | 1.0 μV/75 Ω |
| STEREO | 50 μV/75 Ω |
| Signal-to-Noise Ratio | |
| MONO | 74 dB (at 80 dBf) |
| STEREO | 72 dB (at 80 dBf) |
| Signal-to-Noise Ratio (DIN) | |
| MONO | 60 dB |
| STEREO | 58 dB |
| Distortion | |
| STEREO | 0.6% (1 kHz) |
| Alternate Channel Selectivity | 65 dB (400 kHz) |
| Stereo Separation | 40 dB (1 kHz) |
| Frequency Response | 30 Hz to 15 kHz (±1 dB) |
| Antenna Input | 75 Ω unbalanced |

AM Tuner Section

| | |
|-----------------------|----------------------|
| Frequency range | 531 kHz to 1,602 kHz |
| Sensitivity | |
| IHF, Loop antenna | 350 μV/m |
| Selectivity | 25 dB |
| Signal-to-Noise Ratio | 45 dB |
| Antenna | AM Loop Antenna |

Miscellaneous

| | |
|---------------------------------|----------------------------------|
| Power Requirements | a.c. 220-230 Volts, 50 Hz |
| Power Consumption | |
| (SX-403RDS) | 480 W |
| (SX-303RDS) | 290 W |
| (SX-203RDS) | 190 W |
| Dimensions | 420 (W) X 140 (H) X 297.5 (D) mm |
| Weight (without package) | |
| (SX-403RDS) | 6.8 kg |
| (SX-303RDS) | 5.6 kg |
| (SX-203RDS) | 4.9 kg |

Furnished Parts

| | |
|-------------------------------------------------------------|---|
| FM Antenna | 1 |
| AM Loop Antenna | 1 |
| Remote control unit (except for SX-203RDS) | 1 |
| Dry cell batteries (size "AA" (R6P)) (except for SX-203RDS) | 2 |
| Power cord | 1 |
| Operating Instructions | 1 |

NOTE:

Specifications and design subject to possible modification without notice due to improvements.

* Measured By Audio Spectrum Analyzer.