

**Pioneer**

# Service Manual

ORDER NO.  
RRV2355

STEREO CD CASSETTE DECK RECEIVER

# XR-A780

# XR-A380

# XR-A380SW

# XR-A380GR

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. |
|---------|---------|---------|-----------|-----------|--------------------------|-------------------------------------------------------|
|         | XR-A780 | XR-A380 | XR-A380SW | XR-A380GR |                          |                                                       |
| DBDXJ   | ○       | ○       | —         | ○         | AC110-127V/220-230V/240V | With the voltage selector                             |
| DXJN/NC | ○       | ○       | —         | —         | AC110-127V/220-230V/240V | With the voltage selector                             |
| YPWXJ   | ○       | ○       | —         | —         | AC240V                   | —————                                                 |
| DDXJ    | —       | —       | ○         | —         | AC110-127V/220-230V/240V | With the voltage selector                             |

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

| Model No.                      | Order No. | Remarks |
|--------------------------------|-----------|---------|
| XR-A6800/MYXJ<br>XR-A4800/MYXJ | RRV2328   |         |

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## 1. SAFETY INFORMATION

### LABEL CHECK (for YPWXJ type)

#### IMPORTANT

THIS PIONEER APPARATUS CONTAINS  
LASER OF CLASS 1.  
SERVICING OPERATION OF THE APPARATUS  
SHOULD BE DONE BY A SPECIALLY  
INSTRUCTED PERSON.

#### LASER DIODE CHARACTERISTICS

MAXIMUM OUTPUT POWER: 5 mW  
WAVELENGTH: 780 - 785 nm

Printed on the Rear Panel



CLASS 1  
LASER PRODUCT

#### CAUTION

INVISIBLE LASER  
RADIATION WHEN OPEN,  
AVOID EXPOSURE  
TO BEAM PRW1018

#### Additional Laser Caution

##### 1. Laser Interlock Mechanism

The position of the switch (S9501) for detecting loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S9501) is pressed physically.

Thus, the interlock will no longer function if the switch (S9501) is released physically and deliberately.

The interlock also does not function in the test mode \*. Laser diode oscillation will continue, if pin 1 of CXA1821M (IC8101) on the CD ASSY mounted on the \$M Loading Mechanism assembly is connected to GND, or else the terminals of Q8101 are shorted to each other (fault condition).

2. When the cover is opened, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

\* : Refer to page 61 on the service manual RRV2328.

## 2. CONTRAST OF MISCELLANEOUS PARTS

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

● The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part.

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

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

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

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

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

|     |   |                      |   |     |       |               |
|-----|---|----------------------|---|-----|-------|---------------|
| 560 | → | 56 x 10 <sup>1</sup> | → | 561 | ..... | RD1/4PU 561 J |
| 47k | → | 47 x 10 <sup>3</sup> | → | 473 | ..... | RD1/4PU 473 J |
| 0.5 | → | R50                  |   |     | ..... | RN2H R50 K    |
| 1   | → | 1R0                  |   |     | ..... | RS1P 1R0 K    |

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

|       |   |                       |   |      |       |                |
|-------|---|-----------------------|---|------|-------|----------------|
| 5.62k | → | 562 x 10 <sup>1</sup> | → | 5621 | ..... | RN1/4PC 5621 F |
|-------|---|-----------------------|---|------|-------|----------------|

### ■ CONTRAST TABLE for XR-A780

XR-A780/DBDXJ, DXJN/NC, YPWXJ and XR-A6800/MYXJ are constructed the same except for the following :

| Ref. No. | Mark | Symbol and Description                                 | Part No.           |                    |                     |                    | Remarks     |
|----------|------|--------------------------------------------------------|--------------------|--------------------|---------------------|--------------------|-------------|
|          |      |                                                        | XR-A6800<br>/MYXJ  | XR-A780<br>/DBDXJ  | XR-A780<br>/DXJN/NC | XR-A780<br>/YPWXJ  |             |
| P5- 1    |      | PCB ASSEMBLIES<br>MAIN ASSY<br>└ AF ASSY               | XWM3163<br>XWZ3310 | XWM3161<br>XWZ3303 | XWM3161<br>XWZ3303  | XWM3161<br>XWZ3303 |             |
| P5- 3    |      | COMPLEX ASSY<br>└ PRIMARY ASSY                         | XWM3168<br>XWZ3312 | XWM3165<br>XWZ3291 | XWM3165<br>XWZ3291  | XWM3166<br>XWZ3294 |             |
| P7- 1    |      | └ DISPLAY ASSY                                         | XWZ3311            | XWZ3305            | XWZ3305             | XWZ3305            |             |
| P5- 4    |      | FM/AM TUNER Module                                     | AXQ7068            | AXQ7065            | AXQ7065             | AXQ7065            |             |
|          |      | PACKING SECTION                                        |                    |                    |                     |                    |             |
| P3- 1    | ⚠    | Power Cord                                             | ADG1154            | ADG1158            | ADG1154             | ADG1160            |             |
| P3- 2    |      | FM Antenna                                             | ADH7005            | ADH7004            | ADH7004             | ADH7004            |             |
| P3- 6    | NSP  | Dry Cell Battery (R6P, AA)                             | VEM-013            | Not used           | VEM-013             | Not used           |             |
| P3-10    |      | Packing Case                                           | XHD3143            | XHD3130            | XHD3131             | XHD3129            |             |
| P3-11    | NSP  | Warranty Card                                          | ARY7022            | Not used           | Not used            | ARY7027            |             |
| P3-13    |      | Operating Instructions (English/French)                | XRE3030            | Not used           | Not used            | XRE3031            |             |
| P3-14    |      | Operating Instructions<br>(Italian/Dutch/German)       | XRC3020            | Not used           | Not used            | Not used           |             |
| P3-15    |      | Operating Instructions<br>(Portuguese/Swedish/Spanish) | XRC3021            | Not used           | Not used            | Not used           |             |
| P3-16    | NSP  | Polyethylene Bag                                       | Not used           | Not used           | Not used            | AHG7033            |             |
|          |      | Operating Instructions<br>(English/Chinese/Spanish)    | Not used           | XRE3032            | Not used            | Not used           |             |
|          | ⚠    | Operating Instructions (Thai)                          | Not used           | Not used           | XRC3023             | Not used           |             |
|          |      | Power-cord Plug Conversion Adapter                     | Not used           | XKM3002            | Not used            | Not used           | Accessories |
|          |      | EXTERIOR SECTION                                       |                    |                    |                     |                    |             |
| P5- 6    | ⚠    | Ceramic Capacitor (C1)                                 | CKPUYB102K50       | Not used           | Not used            | Not used           |             |
| P5-15    |      | Rear Panel                                             | XNC3058            | XNC3061            | XNC3061             | XNC3060            |             |
| P5-17    |      | Earth Plate                                            | XNG3015            | Not used           | Not used            | Not used           |             |
| P5-30    |      | Caution Label HE                                       | PRW1233            | Not used           | Not used            | Not used           |             |
| P5-31    |      | Caution Label                                          | VRW1094            | Not used           | Not used            | PRW1018            |             |
| P5-36    | NSP  | Getter                                                 | XAX3169            | XAX3172            | XAX3172             | XAX3171            |             |
|          | ⚠    | Fuse (FU2, FU3 : T3.15A)                               | Not used           | AEK1059            | AEK1059             | Not used           | *1          |
|          |      | Fuse Card (For FU2, FU3)                               | Not used           | AAX7493            | AAX7493             | Not used           | *2          |
|          | NSP  | Name Label                                             | Not used           | Not used           | XAL3047             | Not used           | *3          |
|          |      | FRONT PANEL SECTION                                    |                    |                    |                     |                    |             |
| P7-26    |      | Display Panel                                          | XAK3130            | XAK3132            | XAK3132             | XAK3132            |             |
| P7-36    |      | Power Button                                           | XAD3044            | XAD3043            | XAD3043             | XAD3043            |             |
| P7-38    |      | SC Button                                              | XAD3046            | XAD3060            | XAD3060             | XAD3060            |             |
| P7-42    |      | Sub Panel                                              | XAK3142            | XAK3144            | XAK3144             | XAK3144            |             |

Notes : For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES", "3. SCHEMATIC DIAGRAM" and "4. PCB CONNECTION DIAGRAM".

\*2 Stick Fuse Card on the PRIMARY ASSY.

\*3 Stick Name Label on the Rear Panel.

# XR-A780, XR-A380, XR-A380SW, XR-A380GR

## ■ CONTRAST TABLE for XR-A380, XR-A380SW and XR-A380GR

XR-A380/DBDXJ, DXJN/NC, YPWXJ, XR-A380SW/DDXJ, XR-A380GR/DBDXJ and XR-A4800/MYXJ are constructed the same except for the following :

| Ref. No. | Mark | Symbol and Description                                                         | Part No.           |                    |                     |                    |                      |                     | Remarks       |
|----------|------|--------------------------------------------------------------------------------|--------------------|--------------------|---------------------|--------------------|----------------------|---------------------|---------------|
|          |      |                                                                                | XR-A4800<br>/MYXJ  | XR-A380<br>/DBDXJ  | XR-A380<br>/DXJN/NC | XR-A380<br>/YPWXJ  | XR-A380SW<br>SW/DDXJ | XR-A380GR<br>/DBDXJ |               |
| P5- 1    |      | <b>PCB ASSEMBLIES</b><br>MAIN ASSY<br>└ AF ASSY                                | XWM3152<br>XWZ3297 | XWM3151<br>XWZ3288 | XWM3151<br>XWZ3288  | XWM3151<br>XWZ3288 | XWM3151<br>XWZ3288   | XWM3151<br>XWZ3288  |               |
| P5- 3    |      | COMPLEX ASSY<br>└ PRIMARY ASSY                                                 | XWM3158<br>XWZ3299 | XWM3154<br>XWZ3291 | XWM3154<br>XWZ3291  | XWM3156<br>XWZ3294 | XWM3155<br>XWZ3291   | XWM3154<br>XWZ3291  |               |
| P7- 1    |      | └ DISPLAY ASSY                                                                 | XWZ3298            | XWZ3290            | XWZ3290             | XWZ3290            | XWZ3293              | XWZ3290             |               |
| P5- 4    |      | FM/AM TUNER Module                                                             | AXQ7068            | AXQ7065            | AXQ7065             | AXQ7065            | AXQ7062              | AXQ7065             |               |
| P3- 1    | △    | <b>PACKING SECTION</b><br>Power Cord                                           | ADG1154            | ADG1158            | ADG1154             | ADG1160            | ADG1158              | ADG1158             |               |
| P3- 2    |      | FM Antenna                                                                     | ADH7005            | ADH7004            | ADH7004             | ADH7004            | ADH7004              | ADH7004             |               |
| P3- 6    | NSP  | Dry Cell Battery (R6P, AA)                                                     | VEM-013            | Not used           | VEM-013             | Not used           | Not used             | VEM-013             |               |
| P3-10    |      | Packing Case                                                                   | XHD3142            | XHD3122            | XHD3123             | XHD3120            | XHD3121              | XHD3119             |               |
| P3-11    | NSP  | Warranty Card                                                                  | ARY7022            | Not used           | Not used            | ARY7027            | Not used             | Not used            |               |
| P3-13    |      | Operating Instructions<br>(English/French)                                     | XRE3030            | Not used           | Not used            | XRE3031            | Not used             | Not used            |               |
| P3-14    |      | Operating Instructions<br>(Italian/Dutch/German)                               | XRC3020            | Not used           | Not used            | Not used           | Not used             | Not used            |               |
| P3-15    |      | Operating Instructions<br>(Portuguese/Swedish/Spanish)                         | XRC3021            | Not used           | Not used            | Not used           | Not used             | Not used            |               |
| P3-16    | NSP  | Polyethylene Bag                                                               | Not used           | Not used           | Not used            | AHG7033            | Not used             | AHG7033             |               |
|          |      | Operating Instructions<br>(English/Chinese/Spanish)                            | Not used           | XRE3032            | Not used            | Not used           | Not used             | XRE3032             |               |
|          |      | Operating Instructions (Thai)                                                  | Not used           | Not used           | XRC3023             | Not used           | Not used             | Not used            |               |
|          |      | Operating Instructions<br>(English/Arabian/Chinese)                            | Not used           | Not used           | Not used            | Not used           | XRE3033              | Not used            |               |
|          |      | Operating Instructions<br>(English/Arabian/Russian/<br>Chinese/Spanish/French) | Not used           | Not used           | Not used            | Not used           | Not used             | XRE3027             |               |
|          | △    | Power-cord Plug Conversion Adapter                                             | Not used           | XKM3002            | Not used            | Not used           | Not used             | XKM3002             | Accessories   |
|          |      | SW Antenna                                                                     | Not used           | Not used           | Not used            | Not used           | ADH7006              | Not used            | Accessories   |
|          |      | Battery Label                                                                  | Not used           | Not used           | Not used            | Not used           | Not used             | XAX3162             | For MUSIC PAD |
|          |      | Cord with Mini Plug                                                            | Not used           | Not used           | Not used            | Not used           | Not used             | XDE3025             | Accessories   |
|          |      | Cap Sheet                                                                      | Not used           | Not used           | Not used            | Not used           | Not used             | XHG3006             | For Packing   |
|          |      | Packing Sheet                                                                  | Not used           | Not used           | Not used            | Not used           | Not used             | XHG3007             | For Packing   |
|          |      | MUSIC PAD                                                                      | Not used           | Not used           | Not used            | Not used           | Not used             | XXD3021             | Accessories*4 |
| P5- 6    | △    | <b>EXTERIOR SECTION</b><br>Ceramic Capacitor (C1)                              | CKPUYB102K50       | Not used           | Not used            | Not used           | Not used             | Not used            |               |
| P5-15    |      | Rear Panel                                                                     | XNC3053            | XNC3055            | XNC3055             | XNC3056            | XNC3055              | XNC3055             |               |
| P5-17    |      | Earth Plate                                                                    | XNG3015            | Not used           | Not used            | Not used           | Not used             | Not used            |               |
| P5-30    |      | Caution Label HE                                                               | PRW1233            | Not used           | Not used            | Not used           | Not used             | Not used            |               |
| P5-31    |      | Caution Label                                                                  | VRW1094            | Not used           | Not used            | PRW1018            | Not used             | Not used            |               |
| P5-36    | NSP  | Getter                                                                         | XAX3163            | XAX3165            | XAX3165             | XAX3167            | XAX3165              | XAX3165             |               |
|          | △    | Fuse (FU2, FU3 : T2A)                                                          | Not used           | AEK1057            | AEK1057             | Not used           | AEK1057              | AEK1057             | *1            |
|          | NSP  | Name Label                                                                     | Not used           | Not used           | XAL3044             | Not used           | XAL3043              | XAL3042             | *2            |
| P7- 3    |      | <b>FRONT PANEL SECTION</b><br>Deck Mechanism Unit                              | XYM3012            | XYM3011            | XYM3011             | XYM3011            | XYM3011              | XYM3011             | *3            |
| P7- 5    |      | Flexible Cable 15P                                                             | XDD3050            | Not used           | Not used            | Not used           | Not used             | Not used            |               |
| P7- 5    |      | Flexible Cable 13P                                                             | Not used           | XDD3040            | XDD3040             | XDD3040            | XDD3040              | XDD3040             |               |
| P7-26    |      | Display Panel                                                                  | XAK3125            | XAK3128            | XAK3128             | XAK3128            | XAK3128              | XAK3128             |               |
| P7-38    |      | SC Button                                                                      | XAD3046            | XAD3060            | XAD3060             | XAD3060            | XAD3060              | XAD3060             |               |
| P7-56    |      | Connector Assy 3P                                                              | XDE3037            | XDE3036            | XDE3036             | XDE3036            | XDE3036              | XDE3036             |               |

Notes : For PCB ASSEMBLIES, Refer to “CONTRAST OF PCB ASSEMBLIES”, “3. SCHEMATIC DIAGRAM” and “4. PCB CONNECTION DIAGRAM”.

\*1 Refer to “3. SCHEMATIC DIAGRAM”.

\*2 Stick Name Label on the Rear Panel.

\*3 Refer to “EXPLODED VIEWS”.

\*4 Refer to “6. MUSIC PAD”.

■ EXPLODED VIEWS

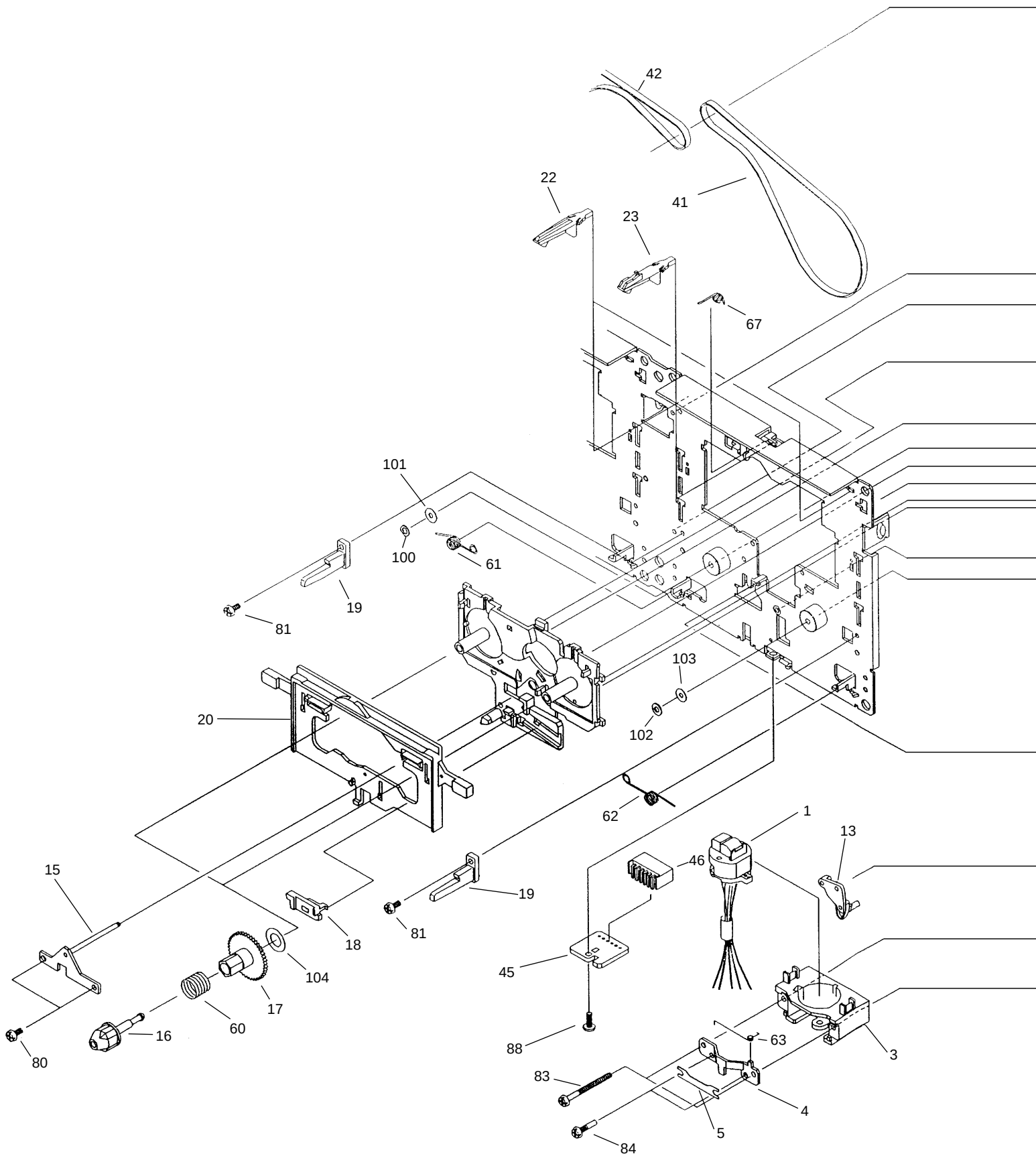
● DECK MECHANISM UNIT SECTION (XYM3011)

● DECK MECHANISM UNIT PARTS LIST

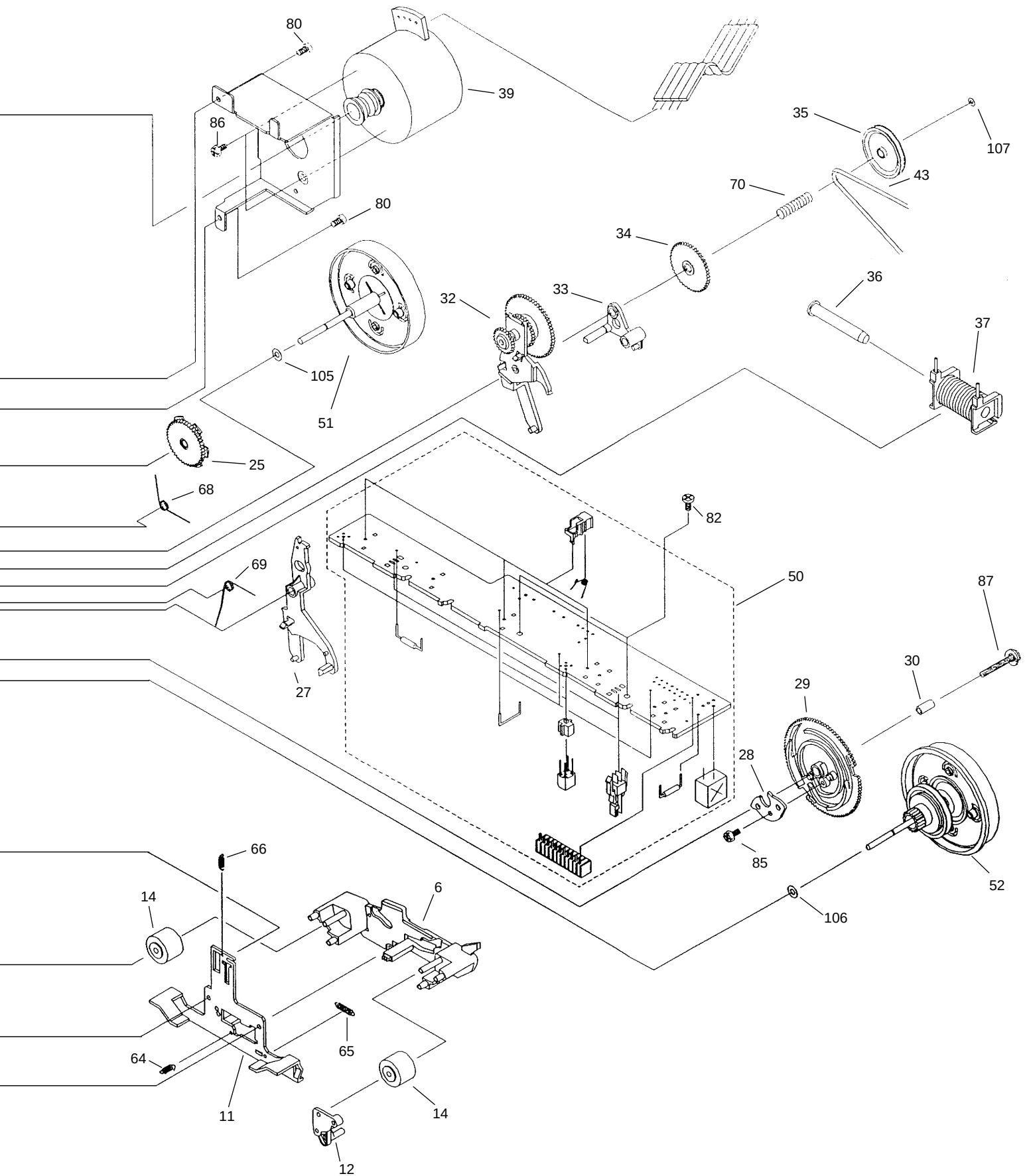
| Mark | No. | Description       | Part No.     | Mark | No. | Description | Part No.      |
|------|-----|-------------------|--------------|------|-----|-------------|---------------|
|      | 1   | Ass'y HD Holder   | 50-093-4373  |      | 60  | Spring      | 01-081-4601   |
|      | 3   | Frame HD          | 50-219-3024  |      | 61  | Spring      | 01-082-4652   |
|      | 4   | Plate AZ          | 50-119-4046  |      | 62  | Spring      | 01-082-4651   |
|      | 5   | Spring AZ         | 50-160-4108  |      | 63  | Spring      | 01-082-4650   |
|      | 6   | Lever HD          | 50-259-3342  |      | 64  | Spring      | 01-080-4649   |
|      | 7   | R/P Head          | TC881CB067B  |      | 65  | Spring      | 01-080-4607   |
|      | 9   | Guide Tape        | 50-219-4038  |      | 66  | Spring      | 01-080-4635   |
|      | 10  | Plate HD          | 50-093-3036  |      | 67  | Spring      | 01-082-4654   |
|      | 11  | Chassis HD        | 50-112-3045  |      | 68  | Spring      | 01-082-4598   |
|      | 12  | Cap Pinch R       | 50-219-4033  |      | 69  | Spring      | 01-082-4597   |
|      | 13  | Cap Pinch L       | 50-219-4034  |      | 70  | Spring      | 01-081-4657   |
|      | 14  | Roller Pinch      | 50-027-41054 |      | 71  | Spring      | 01-081-4605   |
|      | 15  | Ass'y Plate D     | 50-219-4311  |      | 80  | Screw       | GSE10A2003    |
|      | 16  | Cap Reel          | 50-228-4020  |      | 81  | Screw       | GSE20A2005    |
|      | 17  | Gear Reel         | 50-222-4006  |      | 82  | Screw       | GSE10A2004    |
|      | 18  | Lever ST          | 50-259-4041  |      | 83  | Screw       | GSD10A2018    |
|      | 19  | Guide C           | 50-219-4014  |      | 84  | Screw       | 03-300-4056   |
|      | 20  | Lever Brake       | 50-259-3251  |      | 85  | Screw       | GSL10A1704    |
|      | 22  | Arm SW            | 50-239-4027  |      | 86  | Screw       | GSP10A2603    |
|      | 23  | Arm CS            | 50-239-4026  |      | 87  | Screw       | GSP11A2012    |
|      | 25  | Ass'y Cover       | 50-093-4063  |      | 88  | Screw       | GSE20A2004    |
|      | 27  | Arm Trigger       | 50-268-3016  |      | 89  | Screw       | GSL20A2005    |
|      | 28  | Arm Cam           | 50-139-4292  |      | 90  | Screw       | 03-300-4127   |
|      | 29  | Gear Cam          | 50-221-3009  |      | 100 | Washer      | GWN21X040040  |
|      | 30  | Coller            | 03-300-4455  |      | 101 | Washer      | GWM19X055035S |
|      | 31  | Ass'y Flywheel RA | 50-093-3360  |      | 102 | Washer      | GWM19S035035  |
|      | 32  | Ass'y Clutch      | 50-093-4069  |      | 103 | Washer      | GWM17S050035S |
|      | 33  | Arm UD A          | 50-239-4017  |      | 104 | Washer      | GWM48X075010  |
|      | 34  | Gear UD           | 50-222-4007  |      | 105 | Washer      | GWP23X040020  |
|      | 35  | Pulley D          | 50-223-4254  |      | 106 | Washer      | GWP21X045020  |
|      | 36  | Plunger           | 03-300-4442  |      | 107 | Washer      | GWP12X030040S |
|      | 37  | Ass'y Bobbin      | 50-093-4125  |      |     |             |               |
|      | 39  | Ass'y Motor       | 50-093-4316  |      |     |             |               |
|      | 41  | Belt BR           | 02-084-4205  |      |     |             |               |
|      | 42  | Belt AF           | 02-084-4202  |      |     |             |               |
|      | 43  | Belt FR           | 02-083-4188  |      |     |             |               |
|      | 45  | PCB HD            | 50-070-4057  |      |     |             |               |
|      | 46  | Housing           | S5BPHKS      |      |     |             |               |
|      | 50  | Ass'y PCB         | 50-093-4057  |      |     |             |               |
|      | 51  | Ass'y Flywheel L  | 50-093-3315  |      |     |             |               |
|      | 52  | Ass'y Flywheel RB | 50-093-3361  |      |     |             |               |

**XR-A780, XR-A380, XR-A380SW,  
XR-A380GR**

**• DECK MECHANISM UNIT (1/2)**

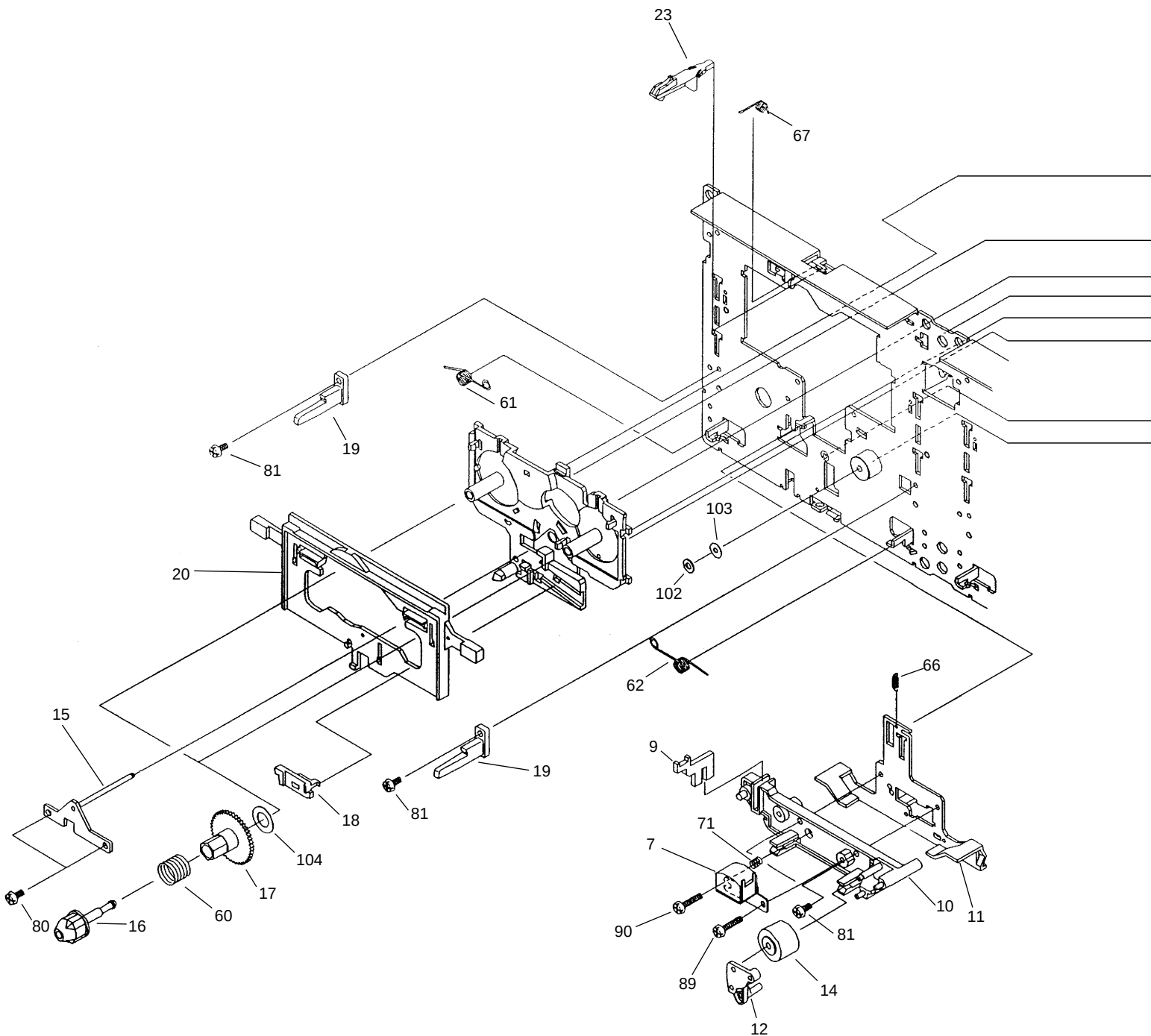


**XR-A780, XR-A380, XR-A380SW,  
XR-A380GR**



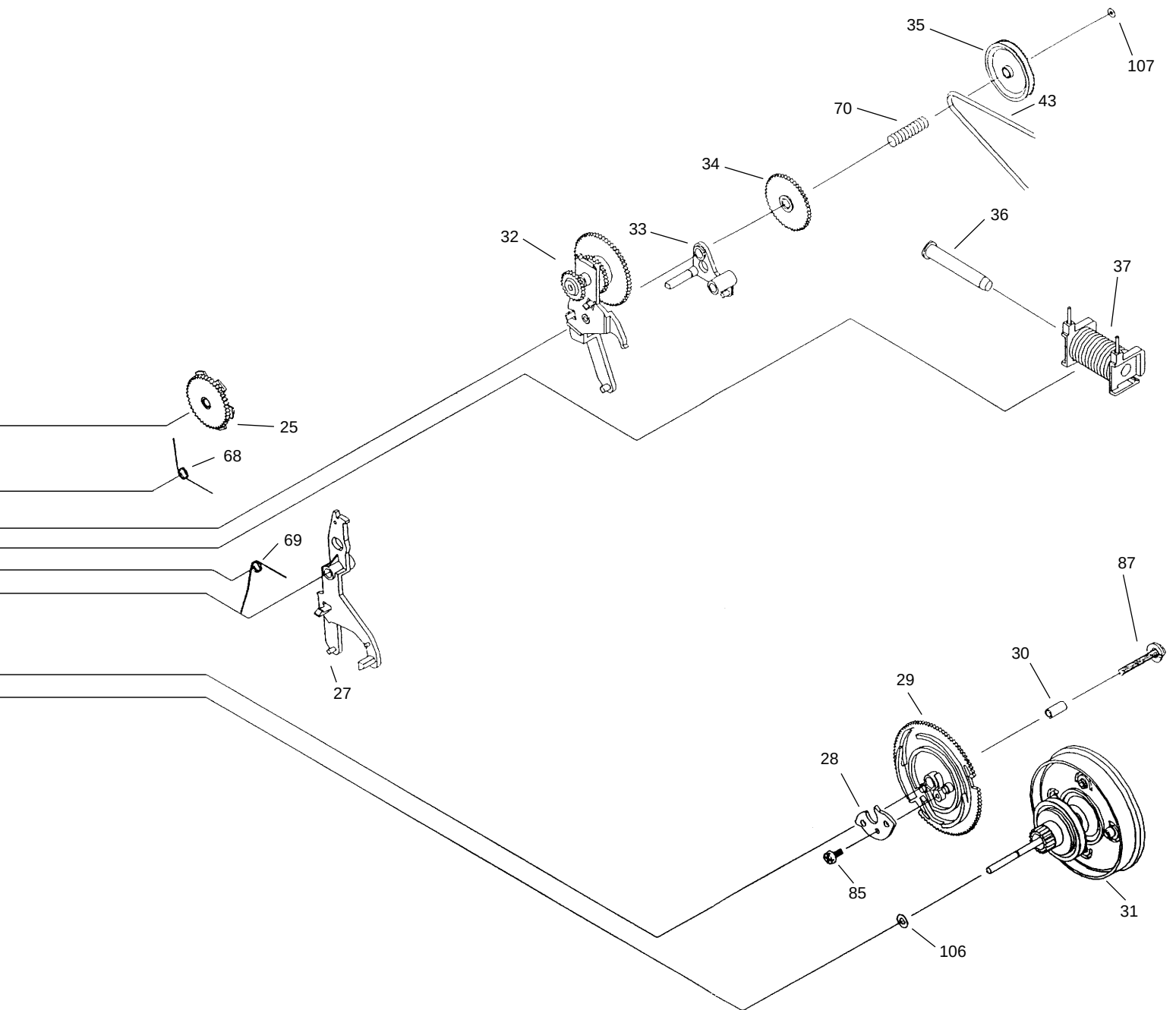
XR-A780, XR-A380, XR-A380SW,  
XR-A380GR

• DECK MECHANISM UNIT (2/2)





**XR-A780, XR-A380, XR-A380SW,  
XR-A380GR**



# XR-A780, XR-A380, XR-A380SW, XR-A380GR

## ■ CONTRAST OF PCB ASSEMBLIES

### **F**F AF ASSY

XWZ3303 and XWZ3310 are constructed the same except for the following :

| Mark | Symbol and Description                  | Part No.     |              | Remarks |
|------|-----------------------------------------|--------------|--------------|---------|
|      |                                         | XWZ3310      | XWZ3303      |         |
|      | IC5751                                  | BU1923F      | Not used     |         |
|      | Q5751                                   | 2SA1037K     | Not used     |         |
|      | Q5752                                   | DTC124EK     | Not used     |         |
|      | L3333, L3334                            | ATH-133      | Not used     |         |
|      | L3991                                   | Not used     | XTL3001      |         |
|      | L5751                                   | XTL3002      | Not used     |         |
|      | C1997, C3329, C3330                     | CKSRYB103K50 | Not used     |         |
|      | C2003, C2004                            | CKSRYB104K50 | Not used     |         |
|      | C2327-C2330, C3321, C3322, C3852, C3854 | CCSRCH470J50 | Not used     |         |
|      | C3001, C3002, C3858                     | CCSRCH101J50 | Not used     |         |
|      | C3023, C3024                            | CFTLA564J50  | CFTLA474J50  |         |
|      | C3025, C3026                            | CKSRYB104K16 | CKSRYB683K16 |         |
|      | C3027, C3028                            | CFTLA334J50  | CFTLA154J50  |         |
|      | C3029, C3030                            | CKSRYB563K16 | CKSRYB273K16 |         |
|      | C3043, C3044, C3082                     | CEATR47M50   | CEAT2R2M50   |         |
|      | C3051, C3052, C3851, C3853, C3855       | CKSRYB472K50 | Not used     |         |
|      | C3073-C3076                             | CKSRYB122K50 | Not used     |         |
|      | C3081                                   | CEAT4R7M50   | CEAT100M50   |         |
|      | C3091                                   | CEAT2R2M50   | CEAT100M50   |         |
|      | C3319, C3320                            | CCSRCH6R0D50 | CCSRCJ3R0C50 |         |
|      | C3335-C3338                             | CKSRYF104Z50 | Not used     |         |
|      | C3345, C3346 (0.01μF)                   | ACG7021      | Not used     |         |
|      | C3447, C3448, C3991, C5753              | CKSRYB102K50 | Not used     |         |
|      | C3850                                   | CKSRYB473K16 | Not used     |         |
|      | C3994, C3995                            | CCSRCH681J50 | Not used     |         |
|      | C5751, C5752, C5755                     | CCSRCH270J50 | Not used     |         |
|      | C5754                                   | CEAT330M16   | Not used     |         |
|      | C5756                                   | CCSQCH561J50 | Not used     |         |
|      | C5757                                   | CCSRCH271J50 | Not used     |         |
|      | C5758                                   | CEAT100M50   | Not used     |         |
|      | R3315, R3316                            | RS1/10S823J  | RS1/10S104J  |         |
|      | R3317, R3318                            | RD1/4PU823J  | RD1/4PU104J  |         |
|      | R3323, R3324                            | RS1/16S102J  | RS1/16S0R0J  |         |
|      | R3333, R3334                            | RD1/4LMS101J | RD1/4LMF100J |         |
|      | R3335, R3336                            | RS1/16S100J  | Not used     |         |
|      | R3515-R3518                             | RS1/16S152J  | RS1/16S122J  |         |
|      | R5751                                   | RS1/16S223J  | Not used     |         |
|      | R5752                                   | RS1/16S222J  | Not used     |         |
|      | R5753                                   | RS1/16S101J  | Not used     |         |
|      | R5754                                   | RS1/16S102J  | Not used     |         |
|      | CN3331 4P SPEAKER TERMINAL              | AKE7018      | XKE3004      |         |
|      | X5751 CRYSTAL RESONATOR (4.332MHz)      | ASS7004      | Not used     |         |

**FF AF ASSY**

XWZ3288 and XWZ3297 are constructed the same except for the following :

| Mark | Symbol and Description                                                                                         | Part No.                                                                  |                                                                       | Remarks |
|------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------|---------|
|      |                                                                                                                | XWZ3297                                                                   | XWZ3288                                                               |         |
|      | IC5751<br>Q5751<br>Q5752<br>L3333, L3334<br>L3991                                                              | BU1923F<br>2SA1037K<br>DTC124EK<br>ATH-133<br>Not used                    | Not used<br>Not used<br>Not used<br>Not used<br>XTL3001               |         |
|      | L5751<br>C1997, C3329, C3330<br>C2327-C2330, C3321, C3322, C3852, C3854<br>C3001, C3002, C3858<br>C3023, C3024 | XTL3002<br>CKSRYB103K50<br>CCSRCH470J50<br>CCSRCH101J50<br>CFTLA564J50    | Not used<br>Not used<br>Not used<br>Not used<br>CFTLA474J50           |         |
|      | C3025, C3026<br>C3027, C3028<br>C3029, C3030<br>C3043, C3044, C3082<br>C3051, C3052, C3853, C3855              | CKSRYB104K16<br>CFTLA334J50<br>CKSRYB563K16<br>CEATR47M50<br>CKSRYB472K50 | CKSRYB683K16<br>CFTLA154J50<br>CKSRYB273K16<br>CEAT2R2M50<br>Not used |         |
|      | C3073-C3076<br>C3081<br>C3091<br>C3319, C3320<br>C3335-C3338                                                   | CKSRYB122K50<br>CEAT4R7M50<br>CEAT2R2M50<br>CCSRCH6R0D50<br>CKSRYF104Z50  | Not used<br>CEAT100M50<br>CEAT100M50<br>CCSRCJ3R0C50<br>Not used      |         |
|      | C3345, C3346 (0.01μF)<br>C3850<br>C3994, C3995<br>C5751, C5752, C5755<br>C5753                                 | ACG7021<br>CKSRYB473K16<br>CCSRCH681J50<br>CCSRCH270J50<br>CKSRYB103K50   | Not used<br>Not used<br>Not used<br>Not used<br>Not used              |         |
|      | C5754<br>C5756<br>C5757<br>C5758<br>R3315, R3316                                                               | CEAT330M16<br>CCSQCH561J50<br>CCSRCH271J50<br>CEAT100M50<br>RS1/10S823J   | Not used<br>Not used<br>Not used<br>Not used<br>RS1/10S104J           |         |
|      | R3317, R3318<br>R3323, R3324<br>R3333, R3334<br>R3335, R3336<br>R3509                                          | RD1/4PU823J<br>RS1/16S102J<br>RD1/4LMS101J<br>RS1/16S100J<br>RS1/16S393J  | RD1/4PU104J<br>RS1/16S0R0J<br>RD1/4LMF100J<br>Not used<br>RS1/16S473J |         |
|      | R3515-R3518<br>R5751<br>R5752<br>R5753<br>R5754                                                                | RS1/16S152J<br>RS1/16S223J<br>RS1/16S222J<br>RS1/16S101J<br>RS1/16S102J   | RS1/16S122J<br>Not used<br>Not used<br>Not used<br>Not used           |         |
|      | X5751 CRYSTAL RESONATOR (4.332MHz)                                                                             | ASS7004                                                                   | Not used                                                              |         |

# XR-A780, XR-A380, XR-A380SW, XR-A380GR

## HF PRIMARY ASSY

XWZ3291, XWZ3294 and XWZ3312 are constructed the same except for the following :

| Mark | Symbol and Description                                   | Part No.                        |                                |                                  | Remarks |
|------|----------------------------------------------------------|---------------------------------|--------------------------------|----------------------------------|---------|
|      |                                                          | XWZ3312                         | XWZ3291                        | XWZ3294                          |         |
| △    | S1 VOLTAGE SELECTOR<br>L1 LINE FILTER<br>H3-H6 FUSE CLIP | Not used<br>ATF1136<br>Not used | XKX3001<br>Not used<br>AKR7001 | Not used<br>Not used<br>Not used |         |

## IF DISPLAY ASSY

XWZ3305, XWZ3290, XWZ3293 and XWZ3311 are constructed the same except for the following :

| Mark | Symbol and Description                                                                   | Part No.                                                                    |                                                                      |                                                             |                                                             | Remarks |
|------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------|
|      |                                                                                          | XWZ3311                                                                     | XWZ3305                                                              | XWZ3290                                                     | XWZ3293                                                     |         |
|      | Q5656-Q5658<br>D5561, D5562<br>D5593<br>D5594<br>D5595, D5596                            | 2SC2412K<br>1SS181<br>1SS133<br>1SS355<br>1SS355                            | 2SC2412K<br>1SS181<br>1SS133<br>Not used<br>Not used                 | Not used<br>Not used<br>Not used<br>Not used<br>Not used    | Not used<br>Not used<br>Not used<br>1SS355<br>Not used      |         |
|      | D5601-D5608, D5618, D5622<br>D5617, D5621<br>D5652-D5655, D5657, D5658<br>C3909<br>C3913 | SLP3118C51H<br>SLP6118C51H<br>1SS355<br>CKSRYB472K50<br>CCSRCH471J50        | SLP3118C51H<br>SLP6118C51H<br>1SS355<br>Not used<br>Not used         | Not used<br>Not used<br>Not used<br>Not used<br>Not used    | Not used<br>Not used<br>Not used<br>Not used<br>Not used    |         |
|      | C3914, C3915<br>C3920, C3921<br>C3922<br>C3951, C3952<br>R3908                           | CCSRCH470J50<br>CCSRCH101J50<br>CKSRYB561K50<br>CKSRYB103K50<br>RS1/16S122J | Not used<br>Not used<br>Not used<br>Not used<br>RS1/16S101J          | Not used<br>Not used<br>Not used<br>Not used<br>RS1/16S101J | Not used<br>Not used<br>Not used<br>Not used<br>RS1/16S101J |         |
|      | R5518<br>R5561, R5562<br>R5570, R5571<br>R5601, R5613, R5617<br>R5618, R5620, R5622      | RS1/16S102J<br>RS1/16S152J<br>RS1/16S473J<br>RD1/4PU151J<br>RS1/16S222J     | Not used<br>RS1/16S152J<br>RS1/16S473J<br>RD1/4PU151J<br>RS1/16S222J | Not used<br>Not used<br>Not used<br>Not used<br>Not used    | Not used<br>Not used<br>Not used<br>Not used<br>Not used    |         |
|      | R5619, R5621, R5623<br>R5702, R5704<br>CN2901 FFC CONNECTOR                              | RS1/16S330J<br>Not used<br>HLEM15R-1                                        | RS1/16S330J<br>RS1/16S223J<br>HLEM15R-1                              | Not used<br>RS1/16S223J<br>HLEM13R-1                        | Not used<br>RS1/16S223J<br>HLEM13R-1                        |         |

# XR-A780, XR-A380, XR-A380SW, XR-A380GR

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

## ● PCB PARTS LIST

### **A** FM/AM TUNER MODULE (AXQ7065)

#### SEMICONDUCTORS

|             |           |
|-------------|-----------|
| IC6201      | LA1832ML  |
| IC6202      | LC72131MD |
| Q6402       | 2SC2223   |
| Q6203       | 2SC2705   |
| Q6201,Q6202 | 2SC2712   |
| Q6214,Q6403 | 2SC2714   |
| Q6404       | 2SK302    |
| Q6401       | 3SK194    |
| Q6204       | DTA124ES  |
| Q6205       | DTC124EK  |
| D6202       | 1SS254    |
| D6401,D6402 | 1T378A    |

#### COILS AND FILTERS

|                   |                     |         |
|-------------------|---------------------|---------|
| L6404             | FM COIL             | ATC1003 |
| L6401             | FM RF COIL          | ATC1020 |
| L6402             | FM RF COIL          | ATC1021 |
| F6204             | FM CERAMIC FILTER   | ATF-107 |
| F6203             | FM CERAMIC FILTER   | ATF-119 |
| F6401             | FM BAND PASS FILTER | ATF-155 |
| F6206             | FM CERAMIC DISCLI.  | ATF7008 |
| F6202             | AM CERAMIC FILTER   | ATF7011 |
| L6206,L6208,L6403 |                     | LAU2R2J |

#### TRANSFORMERS

|       |         |
|-------|---------|
| T6201 | ATB7008 |
| T6401 | ATE7002 |

#### CAPACITORS

|                         |              |
|-------------------------|--------------|
| C6208                   | CCSQCH100D50 |
| C6212,C6274,C6275,C6408 | CCSQCH101J50 |
| C6412                   | CCSQCH102J50 |
| C6221,C6222,C6416       | CCSQCH150J50 |
| C6271                   | CCSQCH200J50 |
| C6415                   | CCSQCH330J50 |
| C6406                   | CCSQCH331J50 |
| C6401,C6419             | CCSQCH5R0C50 |
| C6407                   | CCSQCK1R0C50 |
| C6410                   | CCSQCK2R0C50 |
| C6413                   | CCSQRH180J50 |
| C6414                   | CCSQRH8R0D50 |
| C6405                   | CCSQTH150J50 |
| C6234,C6235             | CEAL1R0M50   |
| C6245                   | CEAL470M16   |
| C6224                   | CEAT100M50   |
| C6243                   | CEAT101M16   |
| C6231                   | CEAT1R0M50   |
| C6227                   | CEAT220M25   |
| C6214,C6236             | CEAT2R2M50   |
| C6262                   | CEAT3R3M50   |
| C6219                   | CEAT470M10   |
| C6244                   | CEAT470M16   |
| C6249,C6250,C6265,C6266 | CEAT4R7M50   |
| C6258                   | CEJA470M16   |

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

|                               |              |
|-------------------------------|--------------|
| C6215                         | CFTLA103J50  |
| C6211,C6254,C6403,C6417       | CKSQYB102K50 |
| C6201,C6205,C6210,C6237,C6276 | CKSQYB103K50 |
| C6278,C6280,C6281,C6402,C6409 | CKSQYB103K50 |
| C6418                         | CKSQYB103K50 |
| C6251,C6252                   | CKSQYB153K50 |
| C6203,C6259                   | CKSQYB223K50 |
| C6228                         | CKSQYB472K50 |
| C6209                         | CKSQYB473K50 |
| C6230                         | CKSQYB821K50 |
| C6218,C6223,C6255             | CKSQYF103Z50 |
| C6220,C6226,C6242,C6256       | CKSQYF223Z50 |
| C6225                         | CKSQYF473Z50 |

#### RESISTORS

|                               |             |
|-------------------------------|-------------|
| R6280                         | RD1/4PU101J |
| R6413,R6416,R6418,R6906,R6909 | RS1/8S0R0J  |
| R6401                         | RS1/8S470J  |
| VR6201 (10kΩ)                 | PCP1029     |
| Other Resistors               | RS1/10S□□□J |

#### OTHERS

|        |                               |                    |
|--------|-------------------------------|--------------------|
| BN6202 | 4P ANTENNA TERMINAL           | AKE7051            |
| X6202  | CERAMIC RESONATOR (456kHz)    | ASS1066            |
| X6201  | CRYSTAL RESONATOR (7.2000MHz) | ASS1093            |
| CN6201 | 14P SOCKET MW RF TUNING BLOCK | KP200IA14L AKX7041 |

# XR-A780, XR-A380, XR-A380SW, XR-A380GR

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

## ● PCB PARTS LIST

### **A**F FM/AM TUNER MODULE (AXQ7062)

#### SEMICONDUCTORS

|                                 |           |
|---------------------------------|-----------|
| IC6201                          | LA1832ML  |
| IC6202                          | LC72131MD |
| Q6402                           | 2SC2223   |
| Q6203                           | 2SC2705   |
| Q6201, Q6202                    | 2SC2712   |
| Q6214, Q6403                    | 2SC2714   |
| Q6304, Q6306                    | 2SD2114K  |
| Q6404                           | 2SK302    |
| Q6401                           | 3SK194    |
| Q6301-Q6303                     | DTA124EK  |
| Q6204                           | DTA124ES  |
| Q6205                           | DTC124EK  |
| D6202, D6303-D6308, D6310-D6312 | 1SS254    |
| D6314, D6315                    | 1SS254    |
| D6302, D6309                    | 1SS85     |
| D6401, D6402                    | 1T363     |
| D6313                           | KV1561A-2 |

#### COILS AND FILTERS

|                     |         |
|---------------------|---------|
| L6303               | ATA7001 |
| L6304               | ATA7002 |
| L6404               | ATC1003 |
| L6401               | ATC1020 |
| L6402               | ATC1021 |
| F6204               | ATF-107 |
| F6203               | ATF-119 |
| F6401               | ATF-155 |
| F6206               | ATF7008 |
| F6202               | ATF7017 |
| L6206, L6208, L6403 | LAU2R2J |
| L6301, L6302        | LTA393J |

#### TRANSFORMERS

|       |         |
|-------|---------|
| T6201 | ATB7008 |
| T6401 | ATE7002 |

#### CAPACITORS

|                            |              |
|----------------------------|--------------|
| C6208                      | CCSQCH100D50 |
| C6212, C6274, C6275, C6408 | CCSQCH101J50 |
| C6412                      | CCSQCH102J50 |
| C6221, C6222, C6416        | CCSQCH150J50 |
| C6271                      | CCSQCH200J50 |
| C6415                      | CCSQCH330J50 |
| C6401, C6419               | CCSQCH5R0C50 |
| C6304                      | CCSQCH7R0D50 |
| C6407                      | CCSQCK1R0C50 |
| C6320, C6410               | CCSQCK2R0C50 |
| C6413                      | CCSQPH220J50 |
| C6414                      | CCSQPH8R0D50 |
| C6405                      | CCSQTH180J50 |
| C6234, C6235               | CEAL1R0M50   |
| C6245                      | CEAL470M16   |
| C6224                      | CEAS100M50   |
| C6243                      | CEAS101M16   |
| C6231                      | CEAS1R0M50   |
| C6227                      | CEAS220M16   |
| C6236                      | CEAS2R2M50   |

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

|                                   |              |
|-----------------------------------|--------------|
| C6216                             | CEAS330M16   |
| C6262                             | CEAS3R3M50   |
| C6219                             | CEAS470M10   |
| C6244                             | CEAS470M16   |
| C6249, C6250, C6265, C6266        | CEAS4R7M50   |
| C6258                             | CEJA470M16   |
| C6215                             | CFTLA103J50  |
| C6214                             | CFTLA224J50  |
| C6211, C6254, C6403, C6406        | CKSQYB102K50 |
| C6201, C6205, C6210, C6213, C6237 | CKSQYB103K50 |
| C6276, C6278, C6280, C6281, C6302 | CKSQYB103K50 |
| C6308, C6312, C6314, C6318, C6319 | CKSQYB103K50 |
| C6402, C6409, C6417, C6418        | CKSQYB103K50 |
| C6251, C6252                      | CKSQYB153K50 |
| C6303                             | CKSQYB222K50 |
| C6203, C6259, C6301, C6305, C6306 | CKSQYB223K50 |
| C6311, C6315                      | CKSQYB223K50 |
| C6228                             | CKSQYB472K50 |
| C6209                             | CKSQYB473K50 |
| C6310                             | CKSQYB562K50 |
| C6230                             | CKSQYB821K50 |
| C6218, C6223, C6255               | CKSQYF103Z50 |
| C6316                             | CKSQYF105Z16 |
| C6220, C6226, C6242, C6256        | CKSQYF223Z50 |
| C6225                             | CKSQYF473Z50 |

#### RESISTORS

|                                   |             |
|-----------------------------------|-------------|
| R6280                             | RD1/4PU101J |
| R6311, R6318, R6413, R6416, R6418 | RS1/8S0R0J  |
| R6906, R6909                      | RS1/8S0R0J  |
| R6304                             | RS1/8S103J  |
| R6401                             | RS1/8S470J  |
| VR6201 (2.2kΩ/0.1W)               | RCP1046     |
| Other Resistors                   | RS1/10S□□□J |

#### OTHERS

|        |                            |            |
|--------|----------------------------|------------|
| BN6202 | TERMINAL 4-P               | AKE7051    |
| X6202  | CERAMIC RESONATOR (456kHz) | ASS1066    |
| X6201  | CRYSTAL RESONATOR (7.2MHz) | ASS1093    |
| CN6201 | 14P SOCKET                 | KP2001A14L |
|        | AM RF TUNING BLOCK         | AXX7039    |
|        | AM RF TUNING BLOCK         | AXX7040    |



### 3.2 FM/AM TUNER MODULE





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

# AF FM/AM TUNER MODULE (AXQ7065)

## Notes

### 1. RESISTORS

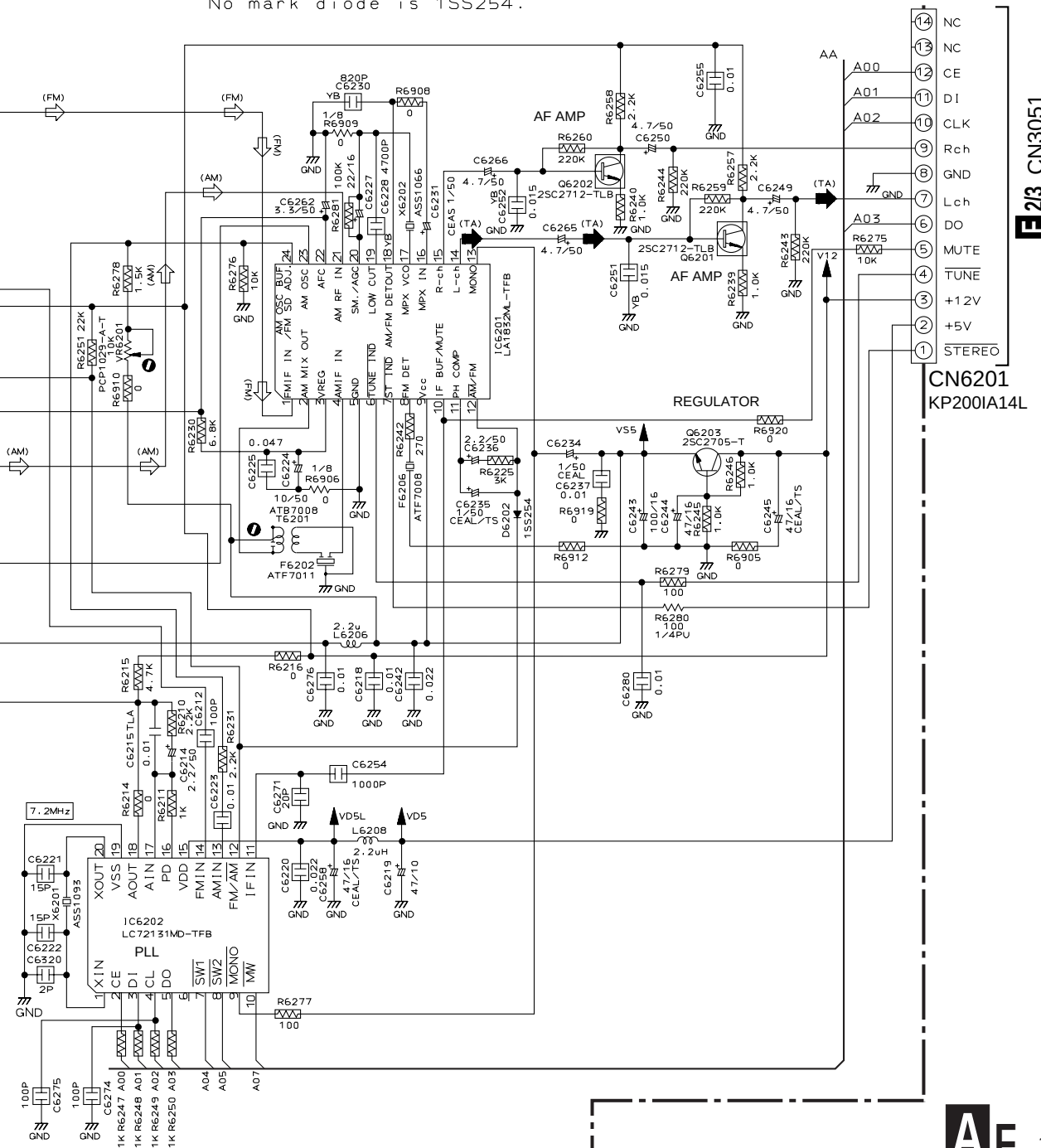
Indicated in  $\Omega$ ,  $1/10W \pm 5\%$  Tolerance unless otherwise noted K:K $\Omega$ , M:M $\Omega$ .

### 2. CAPACITORS

Indicated in Capacity ( $\mu F$ )/VOLTAGE (V) unless otherwise noted P:PF.

### 3. DIODES

No mark diode is 1SS254.



# XR-A780, XR-A380, XR-A380SW, XR-A380GR

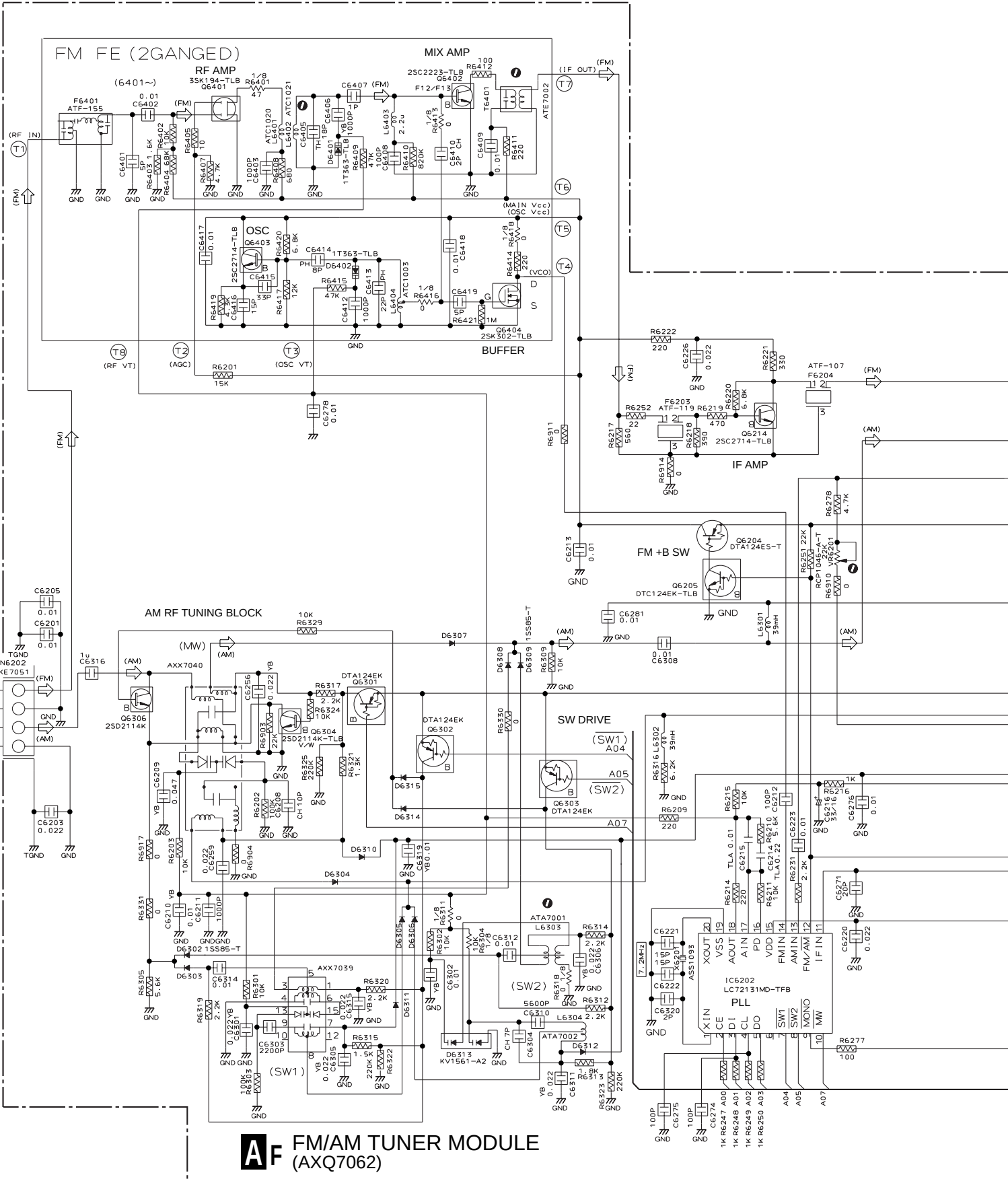
## 3.3 FM/AM TUNER MODULE

A

B

C

D



**AF** FM/AM TUNER MODULE  
(AXQ7062)



1 2 3 4

XR-A780, XR-A380, XR-A380SW,  
XR-A380GR

3.4 PRIMARY ASSY

NOTES

ALL CAPACITORS ARE IN  $\mu\text{F}$   
UNLESS OTHERWISE SPECIFIED  
TL : CFTLA  
M : CQMBA  
(OTHER : CKCYF)  
CH : CCSRCH  
YF : CKSRYF  
SL : CCSRSL  
(OTHER : CKSRYB)  
AL : CEAL  
HAQ : CEHAQ  
(OTHER : CEAS\*\*M## or CEAT\*\*M##)  
ALL RESISTORS ARE IN  $\Omega$   
1/16W (CHIP)  
1/4WPU  
ALL INDUCTORS ARE IN  $\mu\text{H}$   
LAU  
NO MARK DIODE  
1SS133

POWER TRANSFORMER  
XR-A780 : XTS3037  
XR-A380, XR-A380SW, XR-A380GR : XTS3036

G

CN2  
B4P7-VH

CN1  
B2P3-VH

ASR7018

J81

POWER ON/OFF

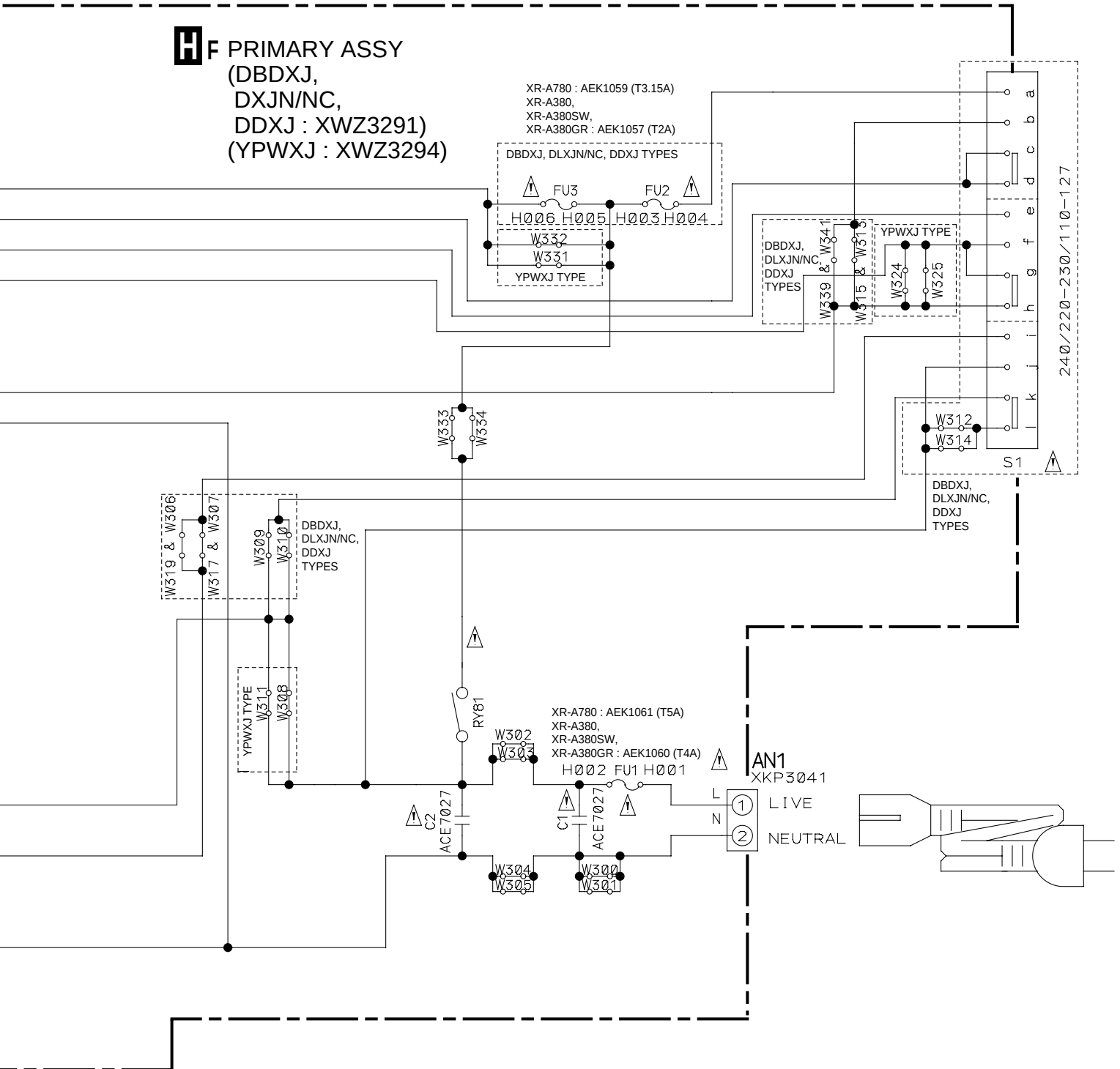
CN81  
52151-0410  
(SBRK04R-4)

T2  
XTT3004

• NOTE FOR FUSE REPLACEMENT

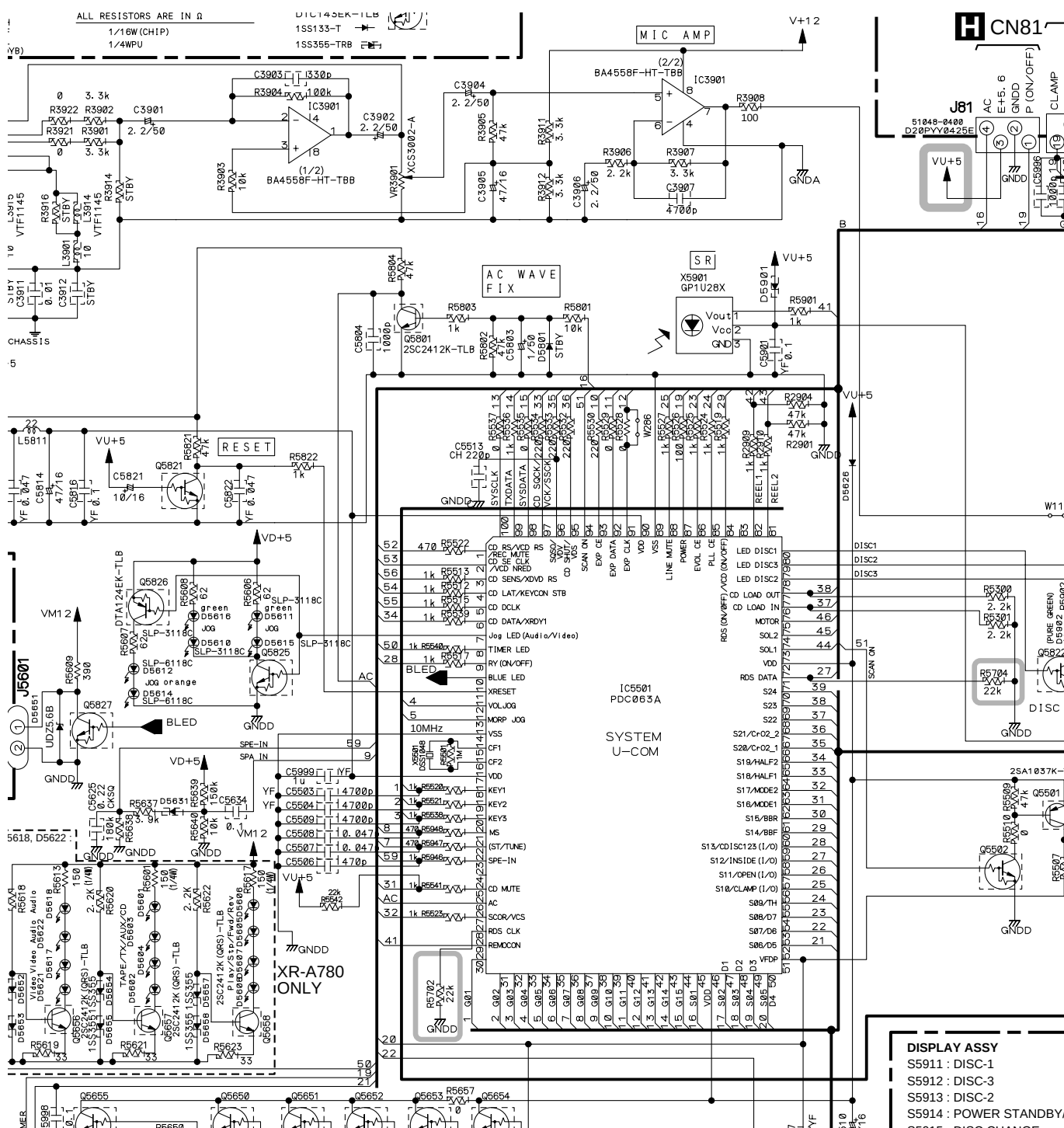
**CAUTION** - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.  
REPLACE WITH SAME TYPE AND RATINGS ONLY.

**H F** PRIMARY ASSY  
(DBDXJ,  
DXJN/NC,  
DDXJ : XWZ3291)  
(YPWXJ : XWZ3294)



### 3.5 DISPLAY ASSY

**I** F  
DISPLAY ASSY (XR-A780 : XWZ3305)  
(XR-A380 : XWZ3290)



**DISPLAY ASSY**  
S5911 : DISC-1  
S5912 : DISC-3  
S5913 : DISC-2  
S5914 : POWER STANDBY/  
S5915 : DISC CHANGE



5. ADJUSTMENT

Note : Adjustment of XR-A780 are the same as those of XR-A6800 except for the following:  
Adjustment of XR-A380, XR-A380SW and XR-A380GR are the same as those of XR-A4800 except for the following:

■ 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, ± 75kHz dev.) |              | Reception Frequency Display | Adjustment Location | Specifications                                                                              |
|----------|---------------------------|----------------------------|--------------|-----------------------------|---------------------|---------------------------------------------------------------------------------------------|
|          |                           | Frequency (MHz)            | Level (dBμV) |                             |                     |                                                                                             |
| 1        | Front End Sensitivity     | 98                         | 0 to 30      | 98MHz                       | L6402<br>T6401      | Adjust so that the DC voltage between the IC6201 - pin 20 and GND becomes at maximum level. |
| 2        | TUNED IND. Lighting Level | 98                         | 18 ± 2       | 98MHz                       | VR6201              | Adjust so that the indicator of TUNED IND. strats to light up.                              |

Note:  
Before adjusting, make sure there is no gap between L6401 and L6402. If there is a gap between them, bring them into contact with each other first, and then make adjustments.

■ 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 (dBμV/m) |                             |                     |                                                                                             |
| 1        | Front End Sensitivity | 999 (*1)                | 35 to 45       | 999kHz (*1)                 | T6201               | Adjust so that the DC voltage between the IC6201 - pin 20 and GND becomes at maximum level. |

Note (\*1) : For the area using 10kHz step, frequency should be 1000kHz.

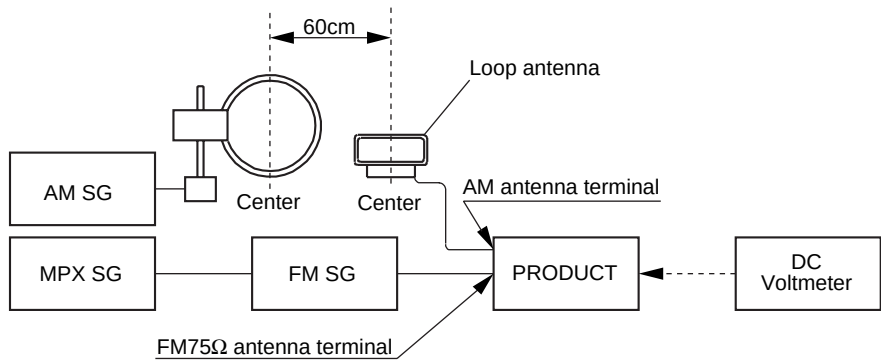


Fig.1 AM and FM Adjustment Wiring Diagram

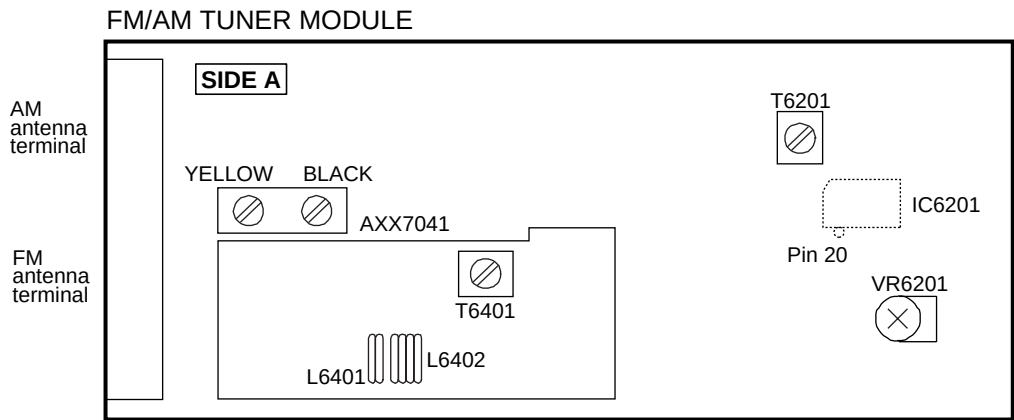


Fig.2 Adjustment Point



Note : XR-A380SW ONLY

## ■ AM Tuner SW Section

- Set the mode selector to SW2.
- Connect the wiring as shown in Fig. 3.

| Step No. | Adjustment Title                    | AM SG (400Hz, 30% Mod.) |                        | Reception Frequency Display | Adjustment Location | Specifications                                                                            |
|----------|-------------------------------------|-------------------------|------------------------|-----------------------------|---------------------|-------------------------------------------------------------------------------------------|
|          |                                     | Frequency (MHz)         | Input Level (dBμV/EMF) |                             |                     |                                                                                           |
| 1        | AM Front End Sensitivity Adjustment | 14                      | 25-35                  | 14MHz                       | L6303               | Adjust so that the DC voltage between the IC6201-Pin 20 and GND becomes at maximum level. |

Before adjustment, connect AM-ANT. and IEC-dummy ANT.. Signal input is through IEC-dummy ANT.. Connecting AM-ANT. follows Fig. 3.

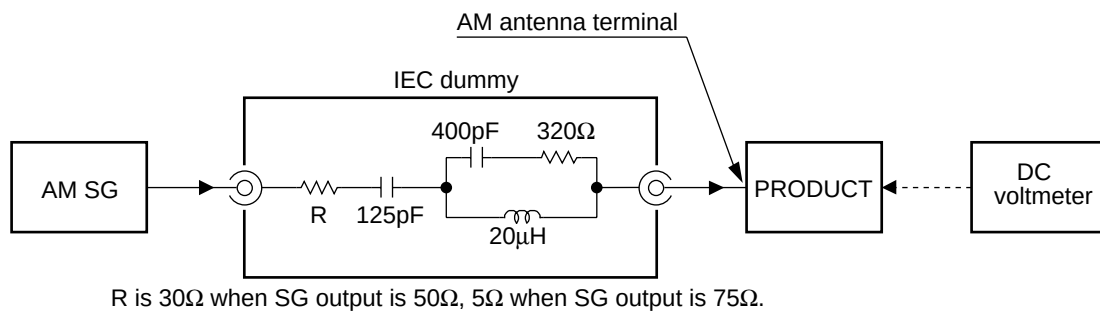


Fig. 3 SW adjustment wiring diagram

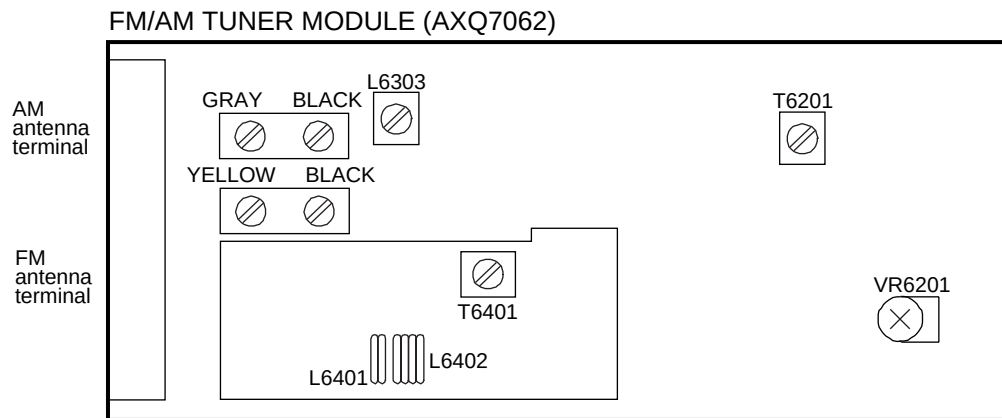


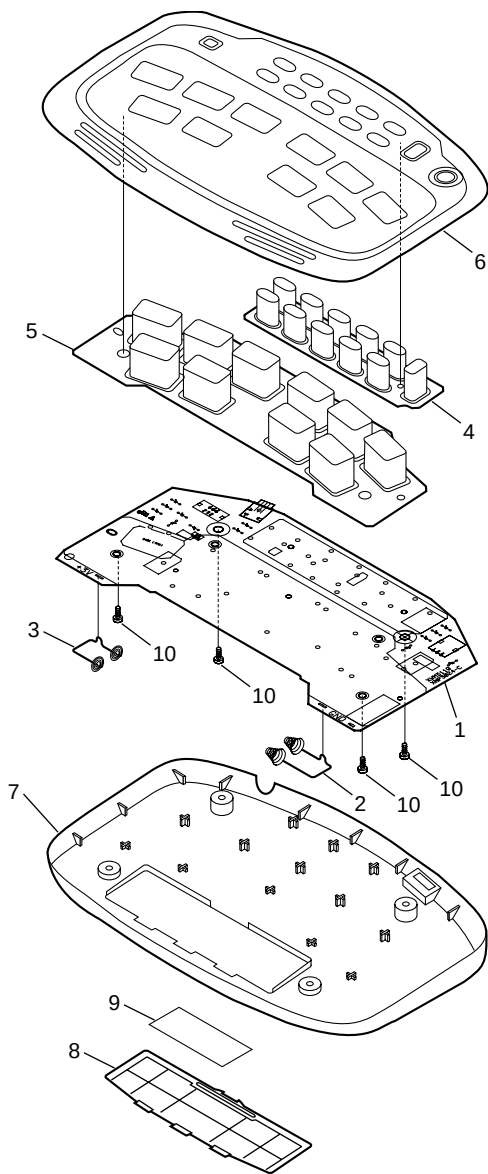
Fig. 4 Adjustment points

6. MUSIC PAD

6.1 EXPLODED VIEWS AND PARTS LIST

- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
  - The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
  - Screws adjacent to  $\blacktriangledown$  mark on the product are used for disassembly.

6.1.1 MUSIC PAD



● MUSIC PAD PARTS LIST

| Mark | No. | Description      | Part No.     |
|------|-----|------------------|--------------|
|      | 1   | MUSIC PAD ASSY   | XWM3119      |
|      | 2   | Battery Spring A | XBH3004      |
|      | 3   | Battery Spring B | XBH3005      |
|      | 4   | Rubber Button A  | XAD3036      |
|      | 5   | Rubber Button B  | XAD3037      |
|      | 6   | Top Cover        | XAK3115      |
|      | 7   | Bottom Case      | XAK3116      |
|      | 8   | Battery Caver    | XMR3011      |
|      | 9   | Battery Label    | XAX3162      |
|      | 10  | Screw            | BPZ30P100FZK |

## 6.2 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 | 5 | 6 | 1 | J |
| 47k $\Omega$ | $\rightarrow$ | $47 \times 10^3$ | $\rightarrow$ | 473 ..... | RD1/4PU | 4 | 7 | 3 | J |
| 0.5 $\Omega$ | $\rightarrow$ | R50 .....        |               |           | RN2H    | R | 5 | 0 | K |
| 1 $\Omega$   | $\rightarrow$ | 1R0 .....        |               |           | RS1P    | 1 | R | 0 | K |

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

|                |               |                   |               |            |         |   |   |   |   |   |
|----------------|---------------|-------------------|---------------|------------|---------|---|---|---|---|---|
| 5.62k $\Omega$ | $\rightarrow$ | $562 \times 10^1$ | $\rightarrow$ | 5621 ..... | RN1/4PC | 5 | 6 | 2 | 1 | F |
|----------------|---------------|-------------------|---------------|------------|---------|---|---|---|---|---|

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

### **KF** MUSIC PAD ASSY

#### SEMICONDUCTORS

|                             |          |
|-----------------------------|----------|
| IC501                       | LC7730M  |
| IC701                       | NJU7002M |
| IC301                       | PD8067B  |
| IC401                       | PD8068A  |
| Q301, Q601, Q801            | 2SA1037K |
| Q603, Q803, Q901            | 2SD2114K |
| Q602, Q802                  | DTA114TK |
| Q302, Q501, Q502            | DTC114TK |
| Q303                        | DTC144TK |
| D308, D310–D313, D407, D501 | 1SS355   |
| D601, D602, D801, D802      | 1SS355   |
| D301–D307, D401–D403        | DAN202K  |
| D309, D404–D406, D408       | DAP202K  |

#### SWITCHES AND RELAYS

|      |         |
|------|---------|
| S901 | XSH3001 |
|------|---------|

#### CAPACITORS

|                              |              |
|------------------------------|--------------|
| C301, C401                   | CCSQCH330J50 |
| C702                         | CCSQCH331J50 |
| C309, C502, C505, C506, C806 | CEJA1R0M50   |
| C305, C405, C901, C902       | CEJA470M16   |
| C306, C504                   | CEJA4R7M50   |
| C501, C507                   | CKSQYB102K50 |
| C708                         | CKSQYB153K50 |
| C701, C703                   | CKSQYB562K50 |
| C705                         | CKSQYB822K50 |
| C302, C303, C402, C403, C406 | CKSQYF104Z25 |
| C503, C704                   | CKSQYF104Z25 |

#### RESISTORS

|                         |             |
|-------------------------|-------------|
| VR301 (10K $\Omega$ -B) | XCS3004     |
| Other Resistors         | RS1/10S□□□J |

#### OTHERS

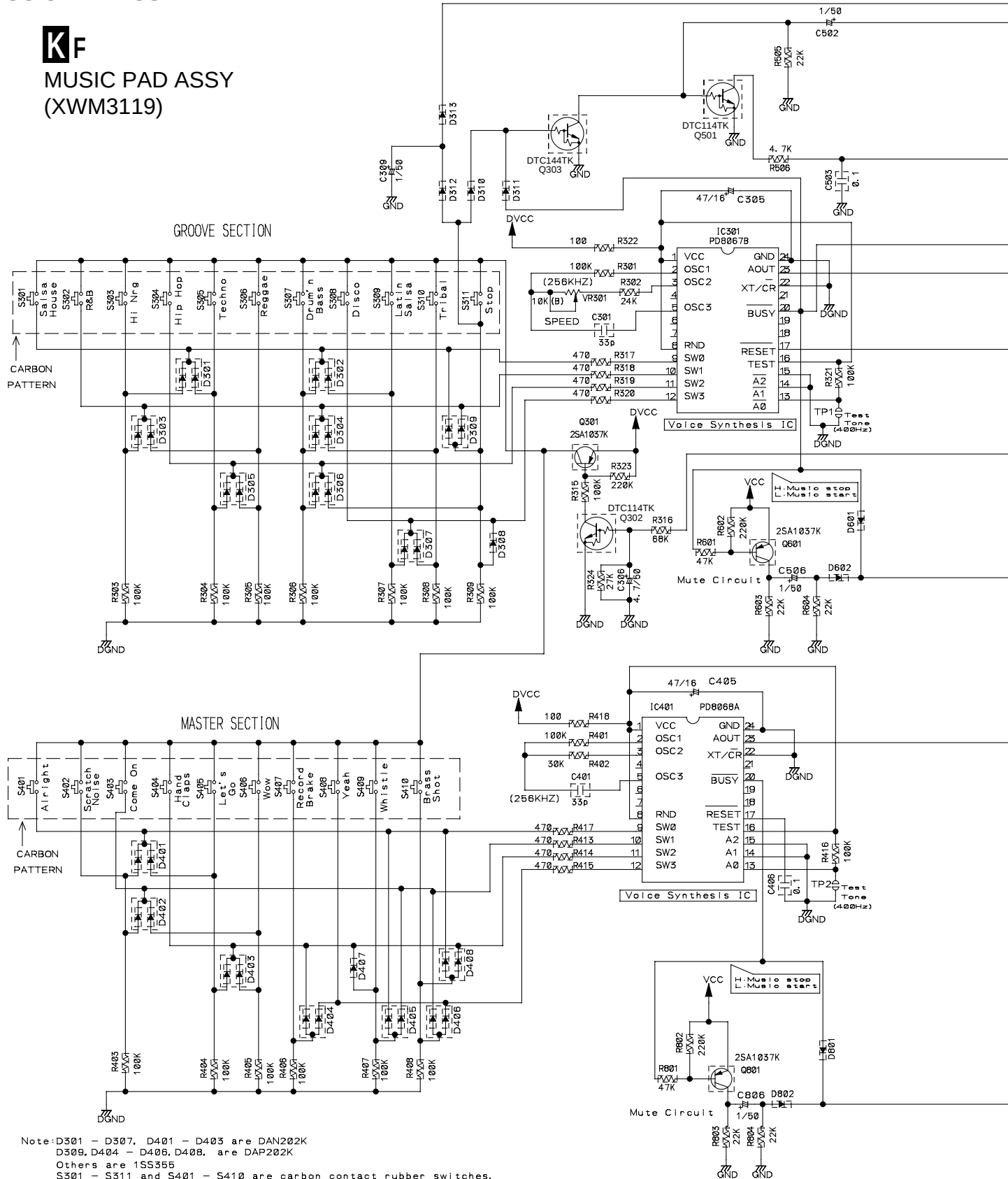
|       |           |         |
|-------|-----------|---------|
| JA701 | MINI JACK | XKN3005 |
|-------|-----------|---------|

## 6.3 SCHEMATIC DIAGRAM

### 6.3.1 MUSIC PAD ASSY

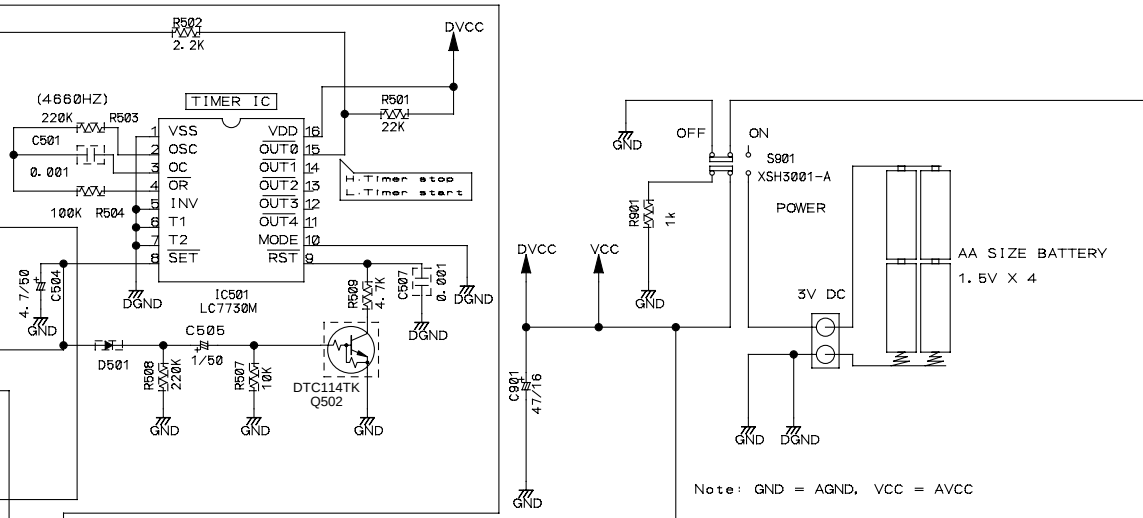
**KF**

MUSIC PAD ASSY  
(XWM3119)



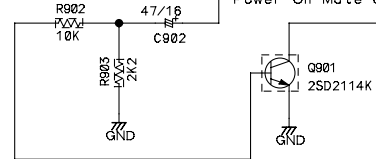
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

Timer Circuit for Auto Shut Off

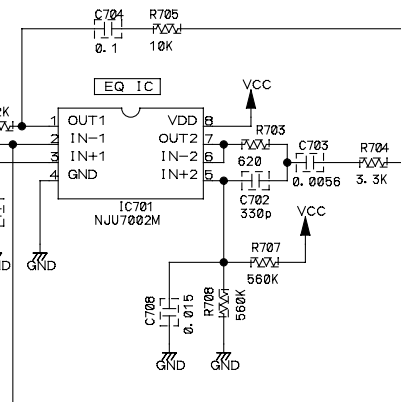


Note: GND = AGND, VCC = AVCC

Power On Mute Circuit

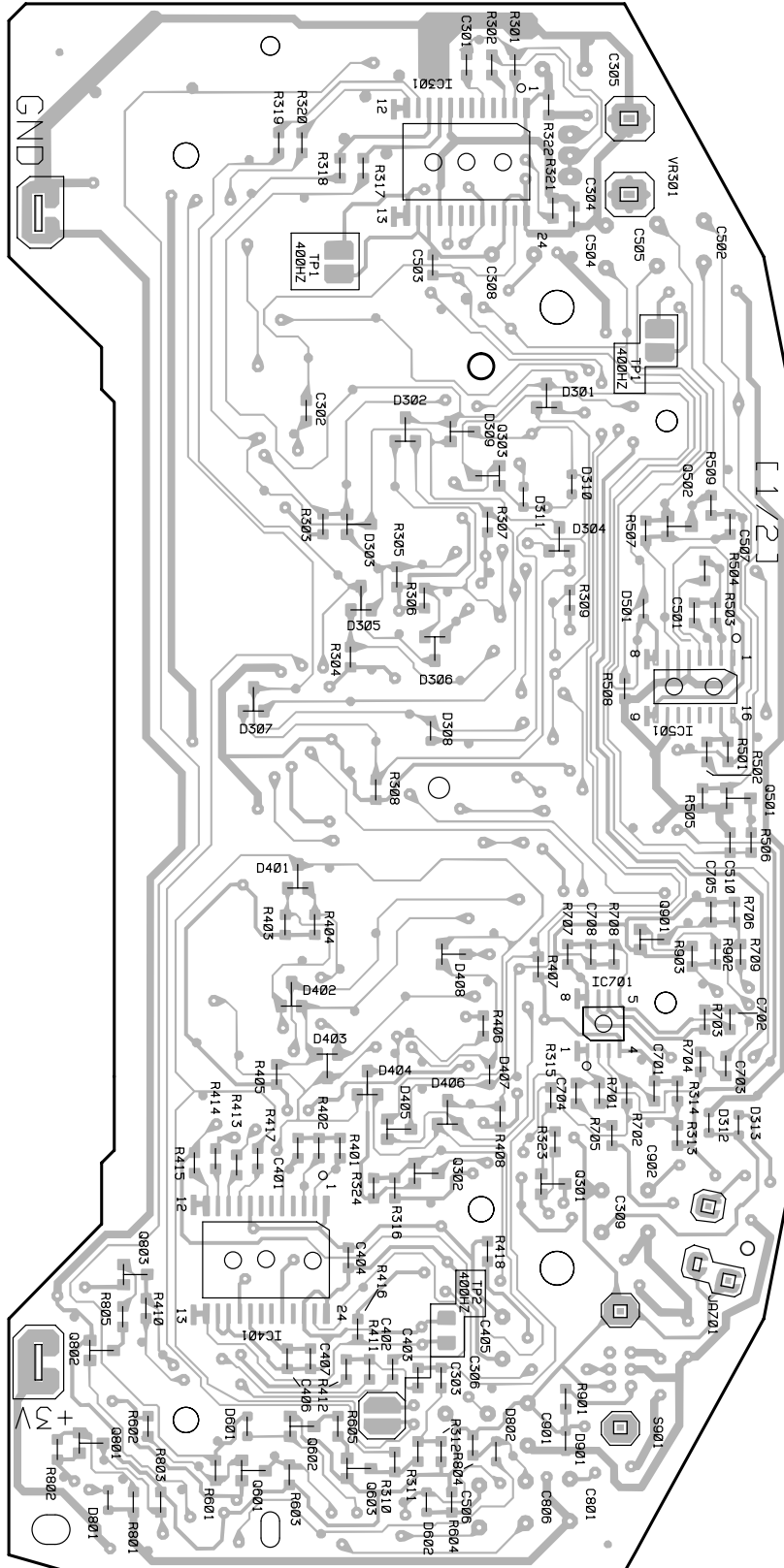


High Frequency Boost Op-Amp Circuit





**KF** MUSIC PAD ASSY



IC301

Q303

Q502

IC501

Q501

Q901

IC701

Q302

Q301

IC401

Q803

Q802

Q602

Q801

Q601

Q603

(XNP3024-C)

**SIDE B**