

# Pioneer

## Service Manual

ORDER NO.  
**RRV4071**

**AUDIO/VIDEO MULTI-CHANNEL RECEIVER**

# VSX-1325-K

## VSX-1125-K

## VSX-1120-K

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

| Model      | Type  | Power Requirement | Remarks |
|------------|-------|-------------------|---------|
| VSX-1325-K | CUXJ  | AC 120 V          |         |
| VSX-1125-K | CUXJ  | AC 120 V          |         |
| VSX-1120-K | UXJCB | AC 120 V          |         |

**This service manual should be used together with the following manual(s).**

| Model No.      | Order No. | Remarks |
|----------------|-----------|---------|
| VSX-LX53/SYXJ5 | RRV4133   |         |

**For SPECIFICATIONS and PANEL FACILITIES, refer to the operating instructions.**

# SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

## WARNING

This product may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

## NOTICE

(FOR CANADIAN MODEL ONLY)

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

## REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

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

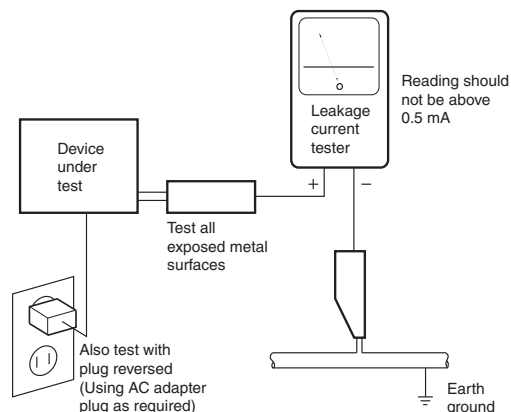
## (FOR USA MODEL ONLY)

### 1. SAFETY PRECAUTIONS

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

#### LEAKAGE CURRENT CHECK

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



AC Leakage Test

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

### 2. PRODUCT SAFETY NOTICE

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

Electrical components having such features are identified by marking with a  $\Delta$  on the schematics and on the parts list in this Service Manual. The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

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

# 1. 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.

● For the applying amount of lubricants or glue, follow the instructions in this manual.

(In the case of no amount instructions, apply as you think it appropriate.)

● 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  $\Omega$   $\rightarrow$  56 x 10<sup>1</sup>  $\rightarrow$  561 ..... RD1/4PU  $\boxed{5} \boxed{6} \boxed{1} \text{J}$

47k  $\Omega$   $\rightarrow$  47 x 10<sup>3</sup>  $\rightarrow$  473 ..... RD1/4PU  $\boxed{4} \boxed{7} \boxed{3} \text{J}$

0.5  $\Omega$   $\rightarrow$  R50 ..... RN2H  $\boxed{R} \boxed{5} \boxed{0} \text{K}$

1  $\Omega$   $\rightarrow$  1R0 ..... RS1P  $\boxed{1} \boxed{R} \boxed{0} \text{K}$

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

5.62k  $\Omega$   $\rightarrow$  562 x 10<sup>1</sup>  $\rightarrow$  5621 ..... RN1/4PC  $\boxed{5} \boxed{6} \boxed{2} \boxed{1} \text{F}$

## CONTRAST TABLE

VSX-LX53/SYXJ5, VSX-1325-K/CUXJ, VSX-1125-K/CUXJ and VSX-1120-K/UXJCB are constructed the same except for the following:

| Mark     | No.    | Symbol and Description          | VSX-LX53/<br>SYXJ5 | VSX-1325-K/<br>CUXJ | VSX-1125-K/<br>CUXJ | VSX-1120-K/<br>UXJCB | Remarks |
|----------|--------|---------------------------------|--------------------|---------------------|---------------------|----------------------|---------|
| NSP      | P81-5  | <b>PCB ASSEMBLIES</b>           |                    |                     |                     |                      |         |
|          |        | 1..AMP ASSY                     | AWM8192            | AWM8186             | AWM8228             | AWM8228              |         |
|          |        | 2..POWER AMP ASSY               | AWX9660            | AWX9573             | AWX9724             | AWX9724              |         |
| NSP      | P81-12 | 1..LOCAL POWER ASSY             | AWM8195            | AWM8187             | AWM8195             | AWM8195              |         |
|          |        | 2..XM REGULATOR ASSY            | AWX9667            | AWX9582             | AWX9667             | AWX9667              |         |
| NSP      | P85-5  | 1..COMPLEX ASSY                 | AWM8197            | AWM8218             | AWM8229             | AWM8203              |         |
|          | P83-2  | 2..DISPLAY ASSY                 | AWX9669            | AWX9723             | AWX9725             | AWX9675              |         |
|          |        | 2..PRIMARY ASSY                 | AWX9676            | AWX9591             | AWX9591             | AWX9591              |         |
| NSP      | P83-3  | 1..AUDIO COMPOSITE ASSY         | AWR7087            | AWR7084             | AWR7089             | AWR7089              |         |
|          | P83-7  | 2..COMPOSITE ASSY               | AWX9568            | AWX9568             | AWX9651             | AWX9651              |         |
|          |        | 2..AUDIO ASSY                   | AWX9644            | AWX9567             | AWX9646             | AWX9646              |         |
|          | P83-9  | 1..DAC LOW ASSY                 | AWX9657            | AWX9566             | AWX9566             | AWX9566              |         |
|          | P83-10 | 1..DIGITAL MAIN ASSY            | AWX9719            | AWX9718             | AWX9626             | AWX9626              |         |
| NSP      | P79-1  | 1..BLUETOOTH AD ASSY            | AXF7022            | Not used            | Not used            | Not used             |         |
|          | P79-7  | 2..BLUETOOTH ASSY               | AWM8111            | Not used            | Not used            | Not used             |         |
|          |        | <b>PACKING SECTION</b>          |                    |                     |                     |                      |         |
| NSP      | P79-1  | Bluetooth AD ASSY               | AXF7022            | Not used            | Not used            | Not used             |         |
| NSP      | P79-2  | Top Case BTA                    | AAK8468            | Not used            | Not used            | Not used             |         |
| NSP      | P79-3  | Bottom Case BTA                 | AAK8469            | Not used            | Not used            | Not used             |         |
| NSP      | P79-4  | BT Label (6L)                   | AAL7444            | Not used            | Not used            | Not used             |         |
|          | P79-5  | Nonwoven Sheet BTA              | AHG7142            | Not used            | Not used            | Not used             |         |
| NSP      | P79-6  | Polyethylene Bag 55 x 80        | AHG7153            | Not used            | Not used            | Not used             |         |
| $\Delta$ | P79-8  | Power Cord                      | XDG3061            | ADG7111             | ADG7111             | ADG7111              |         |
|          | P79-14 | Packing Case                    | AHD8672            | AHD8670             | AHD8671             | AHD8693              |         |
|          | P79-16 | Quick Start Guide (En, Fr, Gr)  | ARH7098            | Not used            | Not used            | Not used             |         |
|          | P79-17 | Quick Start Guide (It, Sp)      | ARH7099            | Not used            | Not used            | Not used             |         |
|          | P79-18 | Quick Start Guide (Du, Ru)      | ARH7100            | Not used            | Not used            | Not used             |         |
|          | P79-20 | Operating Instructions (CD-ROM) | ARU7002            | Not used            | Not used            | Not used             |         |
|          | P79-21 | Warranty Card EU                | ARY7128            | Not used            | Not used            | Not used             |         |
|          | P79-22 | Remote Control Unit             | AXD7592            | AXD7591             | AXD7591             | AXD7591              |         |
|          |        | Operating Instructions (En)     | Not used           | Not used            | Not used            | ARB7451              |         |
|          |        | Operating Instructions (En)     | Not used           | ARB7440             | ARB7440             | Not used             |         |
|          |        | Operating Instructions (Frca)   | Not used           | ARC7971             | ARC7971             | Not used             |         |

| Mark | No.      | Symbol and Description  | VSX-LX53/<br>SYXJ5 | VSX-1325-K/<br>CUXJ | VSX-1125-K/<br>CUXJ | VSX-1120-K/<br>UXJCB | Remarks |
|------|----------|-------------------------|--------------------|---------------------|---------------------|----------------------|---------|
| A    |          | <b>EXTERIOR SECTION</b> |                    |                     |                     |                      |         |
|      | ⚠ P81-16 | Power Transformer       | ATS7435            | ATS7434             | ATS7434             | ATS7434              |         |
|      | ⚠ P81-17 | Fuse (FU6 : T800 mA)    | AEK7072            | Not used            | Not used            | Not used             |         |
|      | ⚠ P81-17 | Fuse (FU6 : 1.25 A)     | Not used           | REK1143             | REK1143             | REK1143              |         |
|      | ⚠ P81-18 | Fuse (FU7 : T800 mA)    | AEK7072            | Not used            | Not used            | Not used             |         |
|      | ⚠ P81-18 | Fuse (FU7 : 1.25 A)     | Not used           | REK1143             | REK1143             | REK1143              |         |
|      | ⚠ P81-19 | Fuse (FU10 : T1.25 A)   | AEK7074            | Not used            | Not used            | Not used             |         |
|      | ⚠ P81-19 | Fuse (FU10 : 1.6 A)     | Not used           | REK1144             | REK1144             | REK1144              |         |
|      | ⚠ P81-20 | Fuse (FU8 : T1.6 A)     | AEK7075            | Not used            | Not used            | Not used             |         |
|      | ⚠ P81-20 | Fuse (FU8 : 1.6 A)      | Not used           | REK1144             | REK1144             | REK1144              |         |
| B    | ⚠ P81-21 | Fuse (FU9 : T1.6 A)     | AEK7075            | Not used            | Not used            | Not used             |         |
|      | ⚠ P81-21 | Fuse (FU9 : 1.6 A)      | Not used           | REK1144             | REK1144             | REK1144              |         |
|      | P81-37   | Insulator ASSY          | DXA1904            | Not used            | Not used            | Not used             |         |
|      | P81-37   | Insulator               | Not used           | AMR7198             | AMR7198             | PNW2766              |         |
|      | P81-39   | Screw 3 x 10 (FE)       | ABA1193            | ABA1193             | BBZ30P080FCC        | BBZ30P080FCC         |         |
| C    | NSP      | Transistor Holder       | Not used           | ANG7543             | Not used            | Not used             | *1      |
|      | ⚠        | Fuse (FU11 : 1.6 A)     | Not used           | REK1144             | Not used            | Not used             | *2      |
|      |          | <b>REAR SECTION</b>     |                    |                     |                     |                      |         |
|      | ⚠ P83-11 | FM/AM TUNER Unit        | AXX7265            | AXX7267             | AXX7267             | AXX7267              |         |
|      | ⚠ P83-12 | Fuse (FU1 : T5 A)       | AEK1061            | Not used            | Not used            | Not used             |         |
|      | ⚠ P83-12 | Fuse (FU1 : 10 A)       | Not used           | REK1154             | REK1154             | REK1154              |         |
|      | ⚠ P83-13 | Fuse (FU4 : 4 A)        | REK1104            | Not used            | Not used            | Not used             |         |
|      | ⚠ P83-13 | Fuse (FU4 : 2 A)        | Not used           | REK1139             | REK1139             | REK1139              |         |
|      | P83-18   | Rear Panel              | ANC8586            | ANC8584             | ANC8585             | ANC8594              |         |
|      | P83-25   | Shield Case             | AMR7557            | Not used            | Not used            | Not used             |         |
| D    |          | <b>FRONT SECTION</b>    |                    |                     |                     |                      |         |
|      | P85-13   | IB Lens V5SEL           | AAK8430            | Not used            | Not used            | Not used             |         |
|      | P85-14   | Power Ring              | AAK8471            | AAK8476             | AAK8476             | AAK8476              |         |
|      | P85-15   | Input Cover             | AAK8528            | AAK8528             | AAK8528             | AAK8543              |         |
|      | P85-18   | Front Panel             | ANB7544            | ANB7543             | AMB8023             | AMB8028              |         |
|      | P85-19   | Standby BTN ASSY        | AXG7400            | XXG3413             | XXG3413             | XXG3413              |         |
|      | P85-20   | P Base ASSY             | AXG7403            | AXG7415             | AXG7427             | AXG7431              |         |
|      | P85-21   | Center Lens V6S H       | AAK8505            | XAK3648             | XAK3648             | XAK3648              |         |
|      | P85-22   | Panel Base              | AMB8010            | AMB8004             | AMB8004             | AMB8004              |         |
|      | P85-29   | Pioneer Badge           | VAM1158            | VAM1158             | VAM1158             | YAM1005              |         |

Notes : \*1, \*2 For XM REGULATOR ASSY.

For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES" and "2. SCHEMATIC DIAGRAM".

## CONTRAST OF PCB ASSEMBLIES

### A F AUDIO ASSY

AWX9644, AWX9567 and AWX9646 are constructed the same except for the following:

| Mark | Symbol and Description     | AWX9644      | AWX9567      | AWX9646      | Remarks |
|------|----------------------------|--------------|--------------|--------------|---------|
|      | IC3931                     | LC72725KM    | Not used     | Not used     |         |
|      | Q2971                      | IMX25        | IMX25        | Not used     |         |
|      | L3931 Chip Solid Inductor  | QTL1013      | Not used     | Not used     |         |
|      | X3931 Crystal Resonator    | ASS7004      | Not used     | Not used     |         |
|      | JA2952 2P Pin Jack         | Not used     | Not used     | AKB7233      |         |
|      | JA2951 Pin Jack(4P)        | XKB3017      | XKB3017      | Not used     |         |
|      | R3003, R3004               | RS1/10SR101J | RS1/10SR121J | RS1/10SR121J |         |
|      | R3931, R3932               | RS1/10SR220J | Not used     | Not used     |         |
|      | R2709, R2710               | RS1/10SR331J | RS1/10SR562J | RS1/10SR562J |         |
|      | R3933                      | RS1/10SR473J | Not used     | Not used     |         |
|      | R2707, R2708               | RS1/10SR562J | RS1/10SR331J | RS1/10SR331J |         |
|      | R3031                      | RS1/8SQ475J  | Not used     | Not used     |         |
|      | R3032                      | RS1/8SQ562J  | RS1/8SQ822J  | RS1/8SQ822J  |         |
|      | R2907, R2908               | RS1/10SR0R0J | RS1/10SR0R0J | Not used     |         |
|      | R2971-R2976                | RS1/10SR102J | RS1/10SR102J | Not used     |         |
|      | R2901, R2902               | RS1/10SR104J | RS1/10SR104J | Not used     |         |
|      | R2868                      | RS1/10SR222J | RS1/10SR222J | Not used     |         |
|      | R2867                      | RS1/10SR562J | RS1/10SR562J | Not used     |         |
|      | C2501-C2504, C2521-C2524   | CCSRCH101J50 | Not used     | Not used     |         |
|      | C2541-C2544, C2561, C2562  | CCSRCH101J50 | Not used     | Not used     |         |
|      | C2581-C2584, C2601-C2604   | CCSRCH101J50 | Not used     | Not used     |         |
|      | C2621, C2622, C2641-C2644  | CCSRCH101J50 | Not used     | Not used     |         |
|      | C3113, C3114, C3163, C3164 | CCSRCH101J50 | Not used     | Not used     |         |
|      | C3213, C3214, C3263, C3264 | CCSRCH101J50 | Not used     | Not used     |         |
|      | C3283, C3284, C3932        | CCSRCH101J50 | Not used     | Not used     |         |
|      | C2563-C2564, C2623, C2624  | CCSRCH220J50 | Not used     | Not used     |         |
|      | C3937, C3938               | CCSRCH270J50 | Not used     | Not used     |         |
|      | C3111, C3112, C3161, C3162 | CCSRCH331J50 | Not used     | Not used     |         |
|      | C3211, C3212, C3261, C3262 | CCSRCH331J50 | Not used     | Not used     |         |
|      | C3281, C3282               | CCSRCH331J50 | Not used     | Not used     |         |
|      | C2864, C2866               | CKSRYB104K50 | CKSRYB104K50 | Not used     |         |
|      | C2903, C2904               | CEAT100M50   | CEAT100M50   | Not used     |         |
|      | C2951, C2952, C2971, C2972 | CCSRCH471J50 | Not used     | Not used     |         |
|      | C2983                      | CKSRYB103K50 | CKSRYB103K50 | Not used     |         |
|      | C3933                      | CCSRCH561J50 | Not used     | Not used     |         |
|      | C3935                      | CEAT100M50   | Not used     | Not used     |         |
|      | C3931                      | CEAT221M16   | Not used     | Not used     |         |
|      | C3941                      | CKSRYB103K50 | Not used     | Not used     |         |
|      | C3942, C3934               | CKSRYB104K16 | Not used     | Not used     |         |
|      | C3936                      | CKSRYB472K50 | Not used     | Not used     |         |

### B F COMPOSITE ASSY

AWX9568 and AWX9651 are different in part number, they consist of the same components.

## C F DAC LOW ASSY

AWX9657 and AWX9566 are constructed the same except for the following:

| Mark | Symbol and Description    | AWX9657      | AWX9566      | Remarks |
|------|---------------------------|--------------|--------------|---------|
|      | D2130                     | Not used     | 1SS302       |         |
|      | JA2101 Socket             | Not used     | BKP1127      |         |
|      | R2135                     | Not used     | RS1/10SR0R0J |         |
|      | R2140, R2141              | Not used     | RS1/10SR474J |         |
|      | R2142, R2143              | Not used     | RS1/10SR331J |         |
|      | R2130-R2134, R2144, R2145 | RS1/10SR0R0J | Not used     |         |
|      | R2189                     | RS1/8SQ475J  | RS1/8SQ225J  |         |
|      | C2124, C2126              | Not used     | CKSRYB103K50 |         |
|      | C2127, C2128              | Not used     | CEAK220M50   |         |

## E F DIGITAL MAIN ASSY

AWX9719 and AWX9718 are constructed the same except for the following:

| Mark | Symbol and Description     | AWX9719      | AWX9718       | Remarks |
|------|----------------------------|--------------|---------------|---------|
|      | IC1809                     | Not used     | TC74VHC157FK  |         |
|      | IC1801                     | Not used     | AAT4614AIGU-2 |         |
|      | IC1806                     | Not used     | TC74VHC125FK  |         |
|      | IC1808                     | Not used     | TC74LCX157FK  |         |
|      | IC1816                     | Not used     | NJM2872BF33   |         |
|      | IC1803                     | Not used     | BU9450KV      |         |
|      | D602, D604                 | Not used     | 1SS352        |         |
|      | D1801, D1802               | Not used     | HZU5R6(B2)    |         |
|      | L1801, L1802, L1806, L1808 | Not used     | QTL1013       |         |
|      | L1811 Chip Solid Inductor  | Not used     | QTL1013       |         |
|      | JA1801 4p Socket           | Not used     | AKP7201       |         |
|      | X1801 Crystal              | Not used     | ASS7095       |         |
|      | R1823, R1828               | Not used     | RS1/10SR101J  |         |
|      | R1814                      | Not used     | RS1/10SR104J  |         |
|      | R1818                      | Not used     | RS1/16SS0R0J  |         |
|      | R739, R1806, R1807, R1819  | Not used     | RS1/16SS101J  |         |
|      | R1820, R1824-R1827, R1829  | Not used     | RS1/16SS101J  |         |
|      | R1843, R1863, R1864, R1866 | Not used     | RS1/16SS101J  |         |
|      | R1867, R1869-R1874, R1901  | Not used     | RS1/16SS101J  |         |
|      | R1902                      | Not used     | RS1/16SS101J  |         |
|      | R1808, R1809, R1812, R1905 | Not used     | RS1/16SS102J  |         |
|      | R1906                      | Not used     | RS1/16SS102J  |         |
|      | R1801                      | Not used     | RS1/16SS103J  |         |
|      | R1817, R1821, R1822, R1831 | Not used     | RS1/16SS104J  |         |
|      | R1832, R1834, R1835        | Not used     | RS1/16SS104J  |         |
|      | R1813                      | Not used     | RS1/16SS105J  |         |
|      | R1868, R1892               | Not used     | RS1/16SS151J  |         |
|      | R1846, R1847, R1865        | Not used     | RS1/16SS470J  |         |
|      | R1830                      | Not used     | RS1/16SS473J  |         |
|      | R1891                      | Not used     | RS1/16SS680J  |         |
|      | R1805                      | RS1/10SR0R0J | Not used      |         |
|      | R724, R725, R1856, R1857   | RS1/16SS0R0J | Not used      |         |
|      | R1859, R1860, R1907, R1909 | RS1/16SS0R0J | Not used      |         |
|      | R1910                      | RS1/16SS0R0J | Not used      |         |
|      | R738                       | RS1/16SS101J | Not used      |         |
|      | R9865                      | RS1/16SS120J | RS1/16SS0R0J  |         |
|      | R919, R921, R923, R926     | RS1/16SS220J | RS1/16SS0R0J  |         |
|      | R928, R930                 | RS1/16SS220J | RS1/16SS0R0J  |         |
|      | R1833                      | Not used     | RAB4CQ470J    |         |

| Mark | Symbol and Description     | AWX9719      | AWX9718      | Remarks |
|------|----------------------------|--------------|--------------|---------|
|      | C9815                      | CCSRCH100D50 | CCSRCH102J50 |         |
|      | C1410                      | CCSSCH100D50 | CCSSCH101J50 |         |
|      | C1217, C1361, C9842        | CCSSCH100D50 | Not used     |         |
|      | C941, C987, C1705, C9020   | CKSSYB104K16 | CKSSYB104K10 |         |
|      | C1802, C1812               | Not used     | CCSSCH101J50 |         |
|      | C1826, C1833, C1835        | Not used     | CCSSCH471J50 |         |
|      | C1810, C1811               | Not used     | CCSSCH8R0D50 |         |
|      | C1807                      | Not used     | CEVLW101M10  |         |
|      | C1803                      | Not used     | CEVW101M16   |         |
|      | C1854                      | Not used     | CKSQYB225K10 |         |
|      | C1804                      | Not used     | CKSRYB104K16 |         |
|      | C1801                      | Not used     | CKSRYB105K10 |         |
|      | C1805, C1806, C1808, C1809 | Not used     | CKSSYB104K10 |         |
|      | C1813-C1815, C1819, C1820  | Not used     | CKSSYB104K10 |         |
|      | C1825, C1832, C1834, C1852 | Not used     | CKSSYB104K10 |         |
|      | C1853                      | Not used     | CKSSYB104K10 |         |
|      | C985 Chip Px Capacitor     | VCH1234      | CEVW221M4    |         |

## **E F** DIGITAL MAIN ASSY

AWX9719 and AWX9626 are constructed the same except for the following:

| Mark | Symbol and Description     | AWX9719       | AWX9626       | Remarks |
|------|----------------------------|---------------|---------------|---------|
|      | IC1607                     | TC7SH32FUS1   | Not used      |         |
|      | IC1606                     | AAT4614AIGU-2 | Not used      |         |
|      | IC1603                     | SI9134CTU-K   | Not used      |         |
|      | IC9009                     | ICS87002BM-05 | IDT6V60008DCG |         |
|      | Q1604                      | UMB1N         | Not used      |         |
|      | Q1602                      | LTC114YUB     | Not used      |         |
|      | D1602                      | UDZS5R1(B)    | Not used      |         |
|      | L1602, L1608, L1624, L1625 | ATL7010       | Not used      |         |
|      | L1626 Chip Beads           | ATL7010       | Not used      |         |
|      | L1613-L1616 Coil           | ATH7064       | Not used      |         |
|      | L1621 Inductor             | CTF1473       | Not used      |         |
|      | JA1602 Hdmi Connector      | AKP7254       | Not used      |         |
|      | R739                       | Not used      | RS1/16SS101J  |         |
|      | R1679, R1680               | RS1/16SS0R0J  | Not used      |         |
|      | R1627, R1635, R1639, R1641 | RS1/16SS100J  | Not used      |         |
|      | R1644                      | RS1/16SS100J  | Not used      |         |
|      | R738                       | RS1/16SS101J  | Not used      |         |
|      | R1647                      | RS1/16SS102J  | Not used      |         |
|      | R1632                      | RS1/16SS103J  | Not used      |         |
|      | R9865                      | RS1/16SS120J  | RS1/16SS0R0J  |         |
|      | R1677                      | RS1/16SS180J  | Not used      |         |
|      | R919, R921, R923, R926     | RS1/16SS220J  | RS1/16SS0R0J  |         |
|      | R928, R930                 | RS1/16SS220J  | RS1/16SS0R0J  |         |
|      | R1659                      | RS1/16SS243J  | Not used      |         |
|      | R1657, R1663               | RS1/16SS272J  | Not used      |         |
|      | R1610                      | RS1/16SS330J  | Not used      |         |
|      | R1624                      | RS1/16SS470J  | Not used      |         |
|      | R1649                      | RS1/16SS471J  | Not used      |         |
|      | R1653, R1655, R1678        | RS1/16SS472J  | Not used      |         |
|      | R1670                      | RS1/16SS473J  | Not used      |         |
|      | R1651                      | RS1/16SS6800F | Not used      |         |
|      | C9815                      | CCSRCH100D50  | CCSRCH102J50  |         |
|      | C1410                      | CCSSCH100D50  | CCSSCH101J50  |         |
|      | C1217, C1361, C9842        | CCSSCH100D50  | Not used      |         |

| Mark | Symbol and Description     | AWX9719       | AWX9626      | Remarks |
|------|----------------------------|---------------|--------------|---------|
| A    | C1619, C1625, C1629, C1638 | CCSSCH101J50  | Not used     |         |
|      | C1649, C1714               | CCSSCH101J50  | Not used     |         |
|      | C1602, C1663, C1671, C1699 | CCSSCH102J50  | Not used     |         |
|      | C1709, C1715               | CCSSCH102J50  | Not used     |         |
|      | C1717                      | CCSSCH331J50  | Not used     |         |
|      | C1621, C1623, C1627, C1639 | CCSSCH471J50  | Not used     |         |
| B    | C1645, C1658, C1660, C1708 | CCSSCH471J50  | Not used     |         |
|      | C1713                      | CCSSCH471J50  | Not used     |         |
|      | C1665                      | CEVLW101M10   | Not used     |         |
|      | C1606, C1656, C1710, C1711 | CKSQYB106K6R3 | Not used     |         |
|      | C1689, C1695               | CKSRYB105K10  | Not used     |         |
|      | C1647                      | CKSSYB103K16  | Not used     |         |
|      | C1631, C1635, C1642, C1659 | CKSSYB104K10  | Not used     |         |
|      | C1661, C1716, C1721        | CKSSYB104K10  | Not used     |         |
|      | C941, C987, C1705, C9020   | CKSSYB104K16  | CKSSYB104K10 |         |
|      | C1707                      | CKSSYB104K16  | Not used     |         |
|      | C1618, C1620, C1622, C1624 | CKSSYB105K6R3 | Not used     |         |
|      | C1626, C1643, C1657, C1712 | CKSSYB105K6R3 | Not used     |         |
|      | C1675, C1677, C1679, C1681 | VCG1066       | Not used     |         |
|      | C1685, C1688, C1691, C1693 | VCG1066       | Not used     |         |
|      | Chip Capacitor             |               |              |         |
|      | C985 Chip Px Capacitor     | VCH1234       | CEVW221M4    |         |

The mounting positions of the additional parts are described in the circuit diagram and PCB diagram of the parent manual.

## HF POWER AMP ASSY

AWX9660 and AWX9573 are constructed the same except for the following:

| Mark | Symbol and Description            | AWX9660 | AWX9573 | Remarks |
|------|-----------------------------------|---------|---------|---------|
|      | JA5800-JA5802 Speaker Terminal 6p | AKE7108 | AKE7107 |         |

## H F POWER AMP ASSY

AWX9660 and AWX9724 are constructed the same except for the following:

| Mark | Symbol and Description                                                                                                    | AWX9660                                                                      | AWX9724                                                      | Remarks |
|------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------|---------|
|      | Q5952, Q5954, Q5956<br>Q5951, Q5953, Q5955<br>Q5865<br>D5931<br>D5935                                                     | LSA1576UB(QR)<br>LTC124EUB<br>RT3T22M<br>MC2848-11<br>1SS357                 | Not used<br>Not used<br>Not used<br>Not used<br>Not used     |         |
|      | L5933 Chip Solid Inductor<br>L5951 Chip Solid Inductor<br>JA5800-JA5802 Speaker Terminal 6p<br>JA5807 Jack<br>JA5811 Jack | QTL1013<br>ATL7002<br>AKE7108<br>AKN-209<br>VKB1243                          | Not used<br>Not used<br>AKE7107<br>Not used<br>Not used      |         |
|      | R5931<br>R5947, R5960-R5962<br>R5964-R5966<br>R5951, R5952<br>R5939                                                       | Not used<br>RS1/10SR0R0J<br>RS1/10SR0R0J<br>RS1/10SR103J<br>RS1/10SR104J     | RS1/10SR0R0J<br>Not used<br>Not used<br>Not used<br>Not used |         |
|      | R5953-R5955, R5963<br>R5956-R5959<br>R5933<br>C5955<br>C5932, C5953, C5954                                                | RS1/10SR120J<br>RS1/10SR472J<br>RS1/10SR622J<br>CKSRYB102K50<br>CKSRYB103K50 | Not used<br>Not used<br>Not used<br>Not used<br>Not used     |         |
|      | C5951<br>C5934<br>C5957                                                                                                   | CKSRYB104K16<br>CKSRYB153K50<br>CKSRYB472K50                                 | Not used<br>Not used<br>Not used                             |         |

The mounting positions of the additional parts are described in the circuit diagram and PCB diagram of the parent manual.

## J F DISPLAY ASSY

AWX9669, AWX9723, AWX9725 and AWX9675 are constructed the same except for the following:

| Mark | Symbol and Description                                                                    | AWX9669                                                                      | AWX9723                                                                      | AWX9725                                                                      | AWX9675                                                                      | Remarks |
|------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|
|      | Q3207, Q3208, Q3210-Q3213<br>D3204, D3206, D3208, D3210<br>D3212, D3214<br>D3216<br>R3020 | LTC124EUB<br>SLR343BC4T<br>SLR343BC4T<br>SLR343WBCT<br>RS1/10SR473J          | Not used<br>SLR-343VC<br>Not used<br>SLR343BC4T<br>Not used                  | Not used<br>SLR-343VC<br>Not used<br>SLR343BC4T<br>Not used                  | Not used<br>SLR-343VC<br>Not used<br>SLR343BC4T<br>Not used                  |         |
|      | R3021<br>R3022<br>R3023<br>R3079, R3211-R3214<br>R3241-R3244                              | Not used<br>RS1/10SR473J<br>Not used<br>Not used<br>RS1/10SR151J             | RS1/10SR473J<br>RS1/10SR223J<br>RS1/10SR333J<br>RS1/10SR0R0J<br>RS1/10SR681J | RS1/10SR473J<br>RS1/10SR333J<br>RS1/10SR223J<br>RS1/10SR0R0J<br>RS1/10SR681J | RS1/10SR473J<br>RS1/10SR393J<br>RS1/10SR103J<br>RS1/10SR0R0J<br>RS1/10SR681J |         |
|      | R3245, R3246<br>R3247<br>R3356<br>C3041, C3043, C3343<br>C3218, C3219                     | RS1/10SR151J<br>RS1/10SR561J<br>RS1/10SR101J<br>CCSRCH100D50<br>CCSRCH470J50 | Not used<br>RS1/10SR151J<br>Not used<br>Not used<br>Not used                 | Not used<br>RS1/10SR151J<br>Not used<br>Not used<br>Not used                 | Not used<br>RS1/10SR151J<br>Not used<br>Not used<br>Not used                 |         |

The mounting positions of the additional parts are described in the circuit diagram and PCB diagram of the parent manual.

## K F PRIMARY ASSY

AWX9676 and AWX9591 are constructed the same except for the following:

| Mark | Symbol and Description | AWX9676            | AWX9591      | Remarks |
|------|------------------------|--------------------|--------------|---------|
|      | L1 Line Filter         | ATF7049            | ATF7048      |         |
|      | VA1 Varistor           | TND10V-511KB00AAA0 | Not used     |         |
|      | CN82 Connector         | Not used           | B2P3-VH      |         |
|      | CN81 Connector(vh)     | B3P5-VH            | Not used     |         |
|      | KN52 Screw Plate       | ANG7591            | Not used     |         |
|      | R4                     | RS1/10SR821J       | RS1/10SR182J |         |
|      | R14                    | RS1/10SR1001F      | RS1/10SR0R0J |         |
|      | R57                    | RS1/4SA155J        | Not used     |         |
|      | R59                    | RS1/8SQ365J        | RS1/8SQ475J  |         |
|      | R72                    | RS1/10SR123J       | RS1/10SR392J |         |
|      | R73                    | RS1/10SR513J       | RS1/10SR473J |         |
|      | C74, C75               | CCSRCH220J50       | CCSRCH101J50 |         |
|      | C72 Film Capacitor     | ACE7013            | Not used     |         |

## M F XM REGULATOR ASSY

AWX9667 and AWX9582 are constructed the same except for the following:

| Mark | Symbol and Description | AWX9667  | AWX9582      | Remarks |
|------|------------------------|----------|--------------|---------|
|      | IC4301                 | Not used | NJM7805FA    |         |
|      | Q4301                  | Not used | 2SD1763A     |         |
|      | Q4302                  | Not used | LSC4081UB    |         |
|      | D4301                  | Not used | D3SBA20      |         |
|      | D4302                  | Not used | PTZ9R1       |         |
|      | H4301, H4302 Fuse Clip | Not used | AKR1004      |         |
|      | R4302                  | Not used | RS1/10SR102J |         |
|      | R4303                  | Not used | RS1/10SR221J |         |
|      | R4304                  | Not used | RS1/10SR100J |         |
|      | C4314, C4315           | Not used | CCSRCH102J50 |         |
|      | C4306                  | Not used | CEAT101M25   |         |
|      | C4308                  | Not used | CEAT101M50   |         |
|      | C4301                  | Not used | CFTLA104J50  |         |
|      | C4307                  | Not used | CKSRYB103K50 |         |
|      | C4305                  | Not used | CKSRYB104K25 |         |
|      | C4309                  | Not used | CKSRYB104K50 |         |
|      | C4303                  | Not used | CEAT332M25-F |         |

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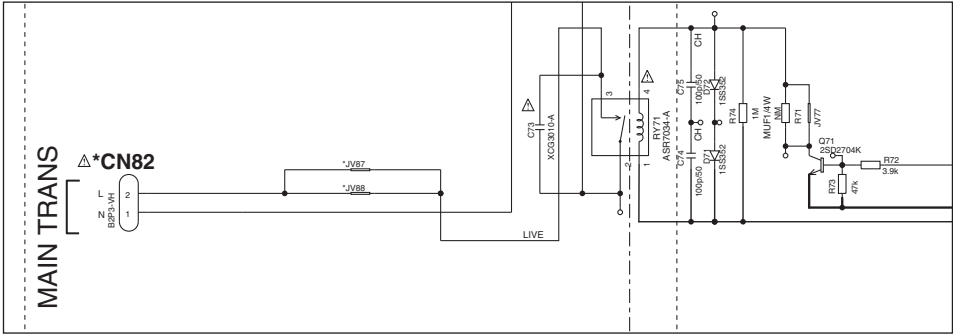
VSX-1325-K

11



2.3 PRIMARY ASSY

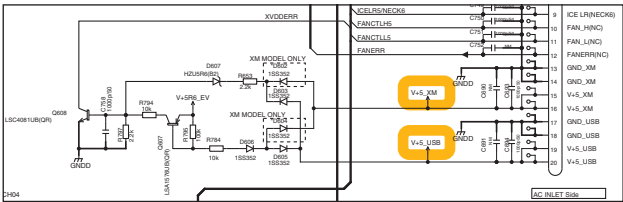
**K<sub>F</sub>** PRIMARY ASSY  
(AWX9591)



**K<sub>F</sub>**

2.4 DIGITAL MAIN ASSY(2/10)

**E<sub>2/10 F</sub>** DIGITAL MAIN ASSY (2/10)  
(AWX9718)



**E<sub>2/10 F</sub>**

**E<sub>2/10 F</sub>**

## 2.5 DIGITAL MAIN ASSY(6/10)

E2/10-5/10,7/10,8/10,10/10

E7/10,8/10

E1/10

E5/10

E2/10, 5/10, 7/10, 8/10, 10/10

XM/DT BLOCK

E1/10 - 5/10, 7/10 - 9/10

E1/1

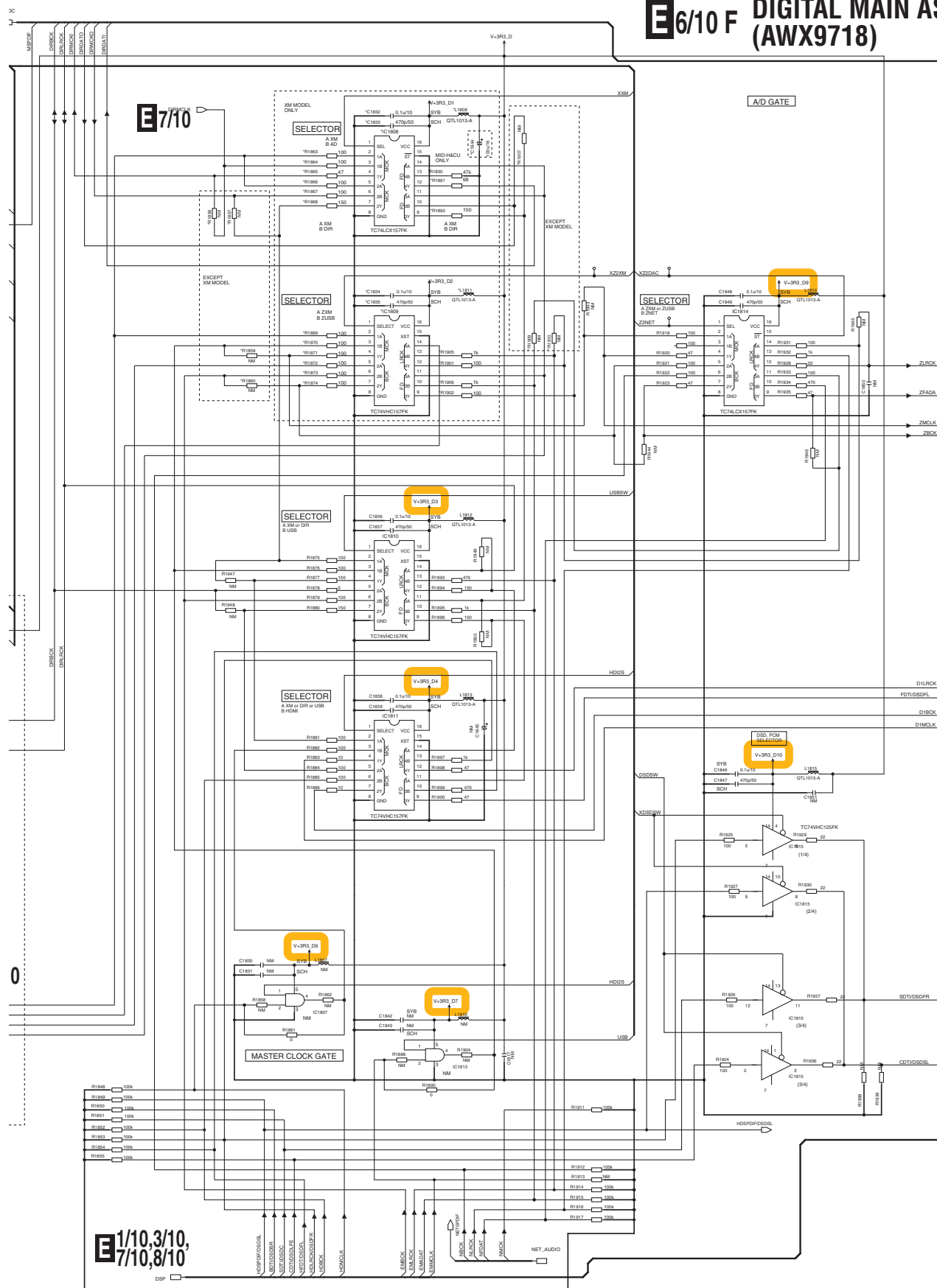
The  mark found on some component parts should be replaced with same parts (safety regulation authorized) or identical designation.

E6/10 F

| HDMI PCM DATA |       |
|---------------|-------|
| PC1           | PC1H  |
| PC2           | PC2H  |
| PC3           | PC3H  |
| PC4           | PC4H  |
| PC5           | PC5H  |
| PC6           | PC6H  |
| PC7           | PC7H  |
| PC8           | PC8H  |
| PC9           | PC9H  |
| PC10          | PC10H |

VSX-1325-K

# E6/10 F DIGITAL MAIN ASSY (6/10) (AWX9718)



MF

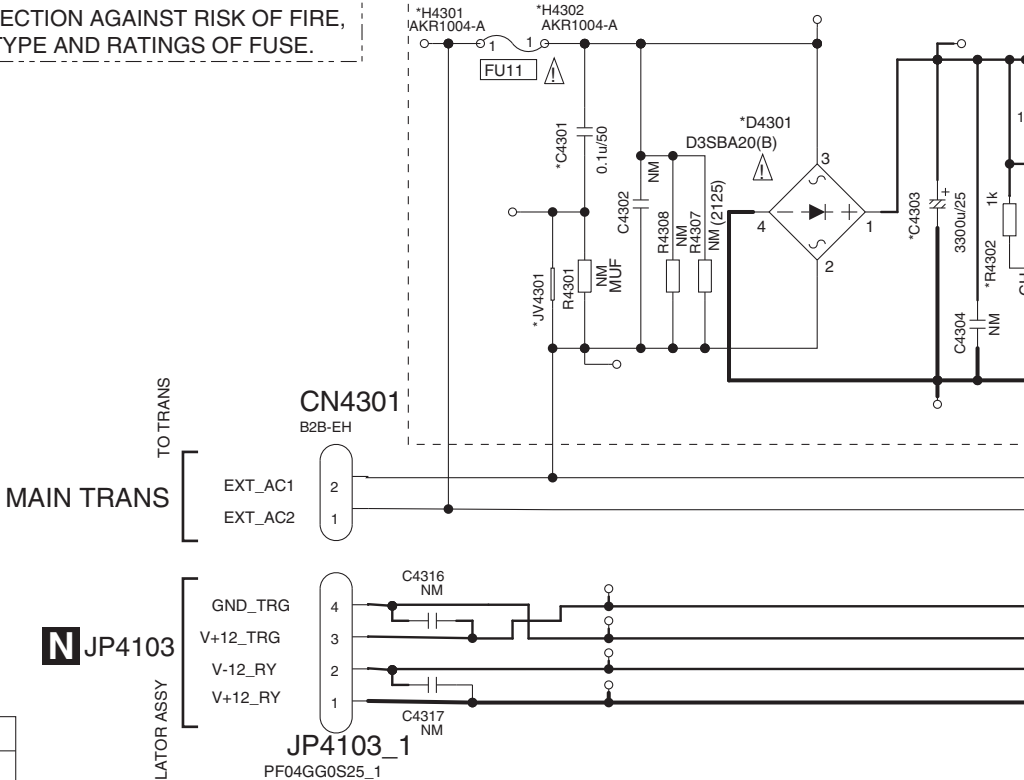
XM REGULATOR ASSY

(AWX9582)

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

XM

AWX9582 ONLY



|        | awx9582       | awx9667 |
|--------|---------------|---------|
| C4301  | 0.1u/50       | NM      |
| C4303  | 3300u/25      | NM      |
| C4305  | 0.1u/25       | NM      |
| C4306  | 100u/25       | NM      |
| C4307  | 0.01u/50      | NM      |
| C4308  | 100u/50       | NM      |
| C4309  | 0.1u/50       | NM      |
| C4314  | 1000p/50      | NM      |
| C4315  | 1000p/50      | NM      |
| R4302  | 1k            | NM      |
| R4303  | 220           | NM      |
| R4304  | 10            | NM      |
| IC4301 | NJM7805FA     | NM      |
| D4301  | D3SBA20(B)    | NM      |
| D4302  | PTZ9R1(B)     | NM      |
| D4303  | NM            | NM      |
| H4301  | AKR1004-A     | NM      |
| H4302  | AKR1004-A     | NM      |
| JV4301 |               | NM      |
| Q4301  | 2SD1763A(DE)  | NM      |
| Q4302  | LSC4081UB(QR) | NM      |

NOTE

1. RESISTORS  
Unit: k-k  $\Omega$ , M-M  $\Omega$  or  $\Omega$  unless  
otherwise noted.  
Rated Power: 1/10W unless  
otherwise noted.  
Tolerance: (J)5% unless  
otherwise noted.  
MUF : RD1/4MUF  
2125 : RS1/8SQ  
2. CAPACITORS  
Unit: p-pF or u-uF unless  
otherwise noted.  
Ratings: Capacity(F)/Voltage(V)  
unless otherwise noted.  
CH : CCSRCH  
NO MARKED : CEAT or CKSRYB  
3. NM : NO MOUNT



A

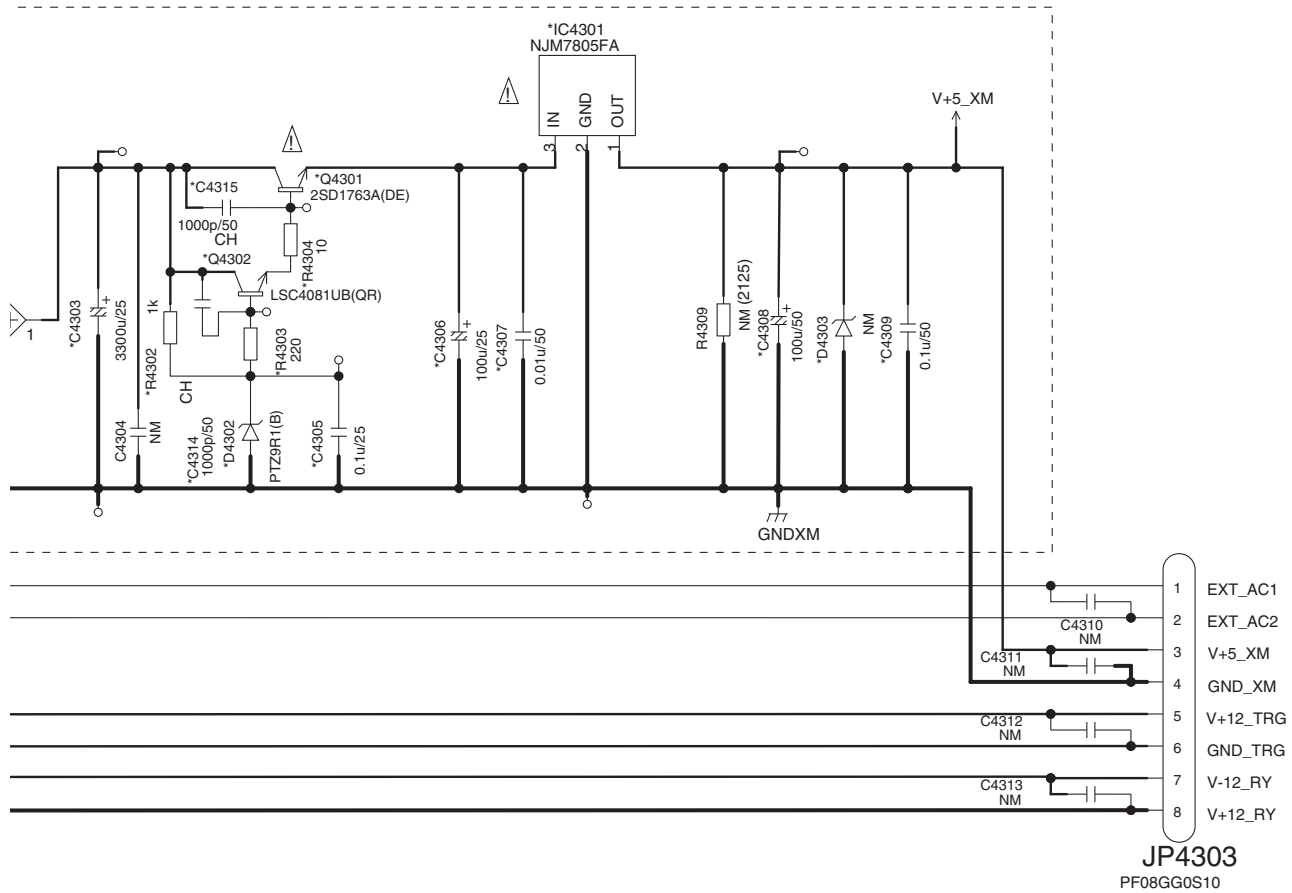
B

C

D

E

F



VEF1040-A  
JH4301

VEF1040-A  
JH4302

VEF1040-A  
JH4303

NM  
JH4304