

Pioneer

Service Manual

ORDER NO.
RRV4505

AV Receiver

VSX-423-K

VSX-423-S

VSX-523-K

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

Model	Type	Power Requirement	Remarks
VSX-423-K	SYXEV8	AC 220 V to 230 V	
VSX-423-S	SYXEV8	AC 220 V to 230 V	
VSX-423-K	PWVXEV8	AC 220 V to 240 V	
VSX-523-K	PWXEV	AC 220 V to 240 V	

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

Model No.	Order No.	Remarks
VSX-523-K/CUXESM	RRV4418	

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

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1. CONTRAST OF MISCELLANEOUS PARTS

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

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

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

● Screws adjacent to ∇ 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 Ω → 56 x 10¹ → 561 RD1/4PU561J

47k Ω → 47 x 10³ → 473 RD1/4PU473J

0.5 Ω → R50 RN2HR50K

1 Ω → 1R0 RS1P1R0K

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

5.62k Ω → 562 x 10¹ → 5621 RN1/4PC5621F

CONTRAST TABLE

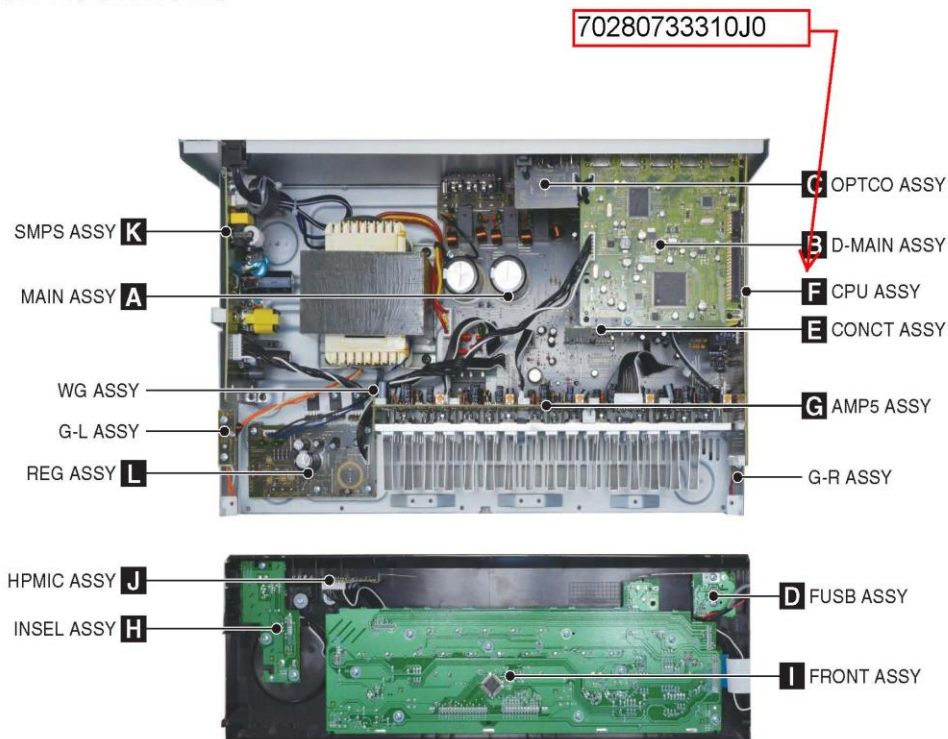
VSX-423

VSX-523-K/CUXESM, VSX-423-K/SYXEV8, VSX-423-S/SYXEV8 and VSX-423-K/PWVXEV8 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-523-K /CUXESM	VSX-423-K /SYXEV8	VSX-423-S /SYXEV8	VSX-423-K /PWVXEV8	Remarks
C	NSP	PCB ASSEMBLIES					
		1..PCB TTL ASSY MAIN	7025HK1211010-IL	7025HK1211V20	7025HK1211V30	7025HK1211V40	
	P48-1	2..MAIN Assy	7028073311010-IL	70280733110J0	70280733110J0	70280733110K0	
	P48-3	2..OPTCO Assy	7028073313010-IL	70280733130J0	70280733130J0	70280733130J0	
	P48-12	2..REG Assy	7028073312010-IL	70280733120J0	70280733120J0	70280733120J0	
	P48-13	2..WG Assy	7028073315010-IL	7028073315040	7028073315040	7028073315040	
	P48-14	2..G-L Assy	7028073316010-IL	7028073316040	7028073316040	7028073316040	
	P48-15	2..G-R Assy	7028073317010-IL	7028073317040	7028073317040	7028073317040	
	NSP	1..PCB TTL ASSY DMAIN	7025HK1211012-IL	7025HK1211V22	7025HK1211V32	7025HK1211V42	
	P48-2	2..D-MAIN Assy	7028073351010-IL	70280733510D0	70280733510D0	70280733510D0	
	NSP	1..PCB TTL ASSY FRONT	7025HK1211011-IL	7025HK1211V21	7025HK1211V31	7025HK1211V41	
	P48-4	2..FUSB Assy	7028073323010-IL	70280733230N0	70280733230N0	70280733230N0	
	P48-5	2..CONCT Assy	7028073325010-IL	7028073325040	7028073325040	7028073325040	
	P48-8	2..INSEL Assy	7028073324010-IL	7028073324040	7028073324040	7028073324040	
	P48-9	2..FRONT Assy	7028073321010-IL	70280733210N0	70280733210N0	70280733210N0	
	P48-10	2..HPMIC Assy	7028073322010-IL	70280733220N0	70280733220N0	70280733220N0	
D	NSP	1..PCB TTL ASSY CPU	7025HK1211013-IL	7025HK1211V23	7025HK1211V33	7025HK1211V43	
	P48-6	2..CPU Assy	7028073331010-IL	70280733310J0	70280733310J0	70280733310K0	
	NSP	1..PCB TTL ASSY AMP5	7025HK1211014-IL	7025HK1211V24	7025HK1211V34	7025HK1211V44	
	P48-7	2..AMP5 Assy	7028073341010-IL	70280733410J0	70280733410J0	70280733410J0	
	NSP	1..PCB TTL ASSY SMPS	7025HK1211015-IL	7025HK1211V25	7025HK1211V35	7025HK1211V45	
	Δ P48-11	2..SMPS Assy	7028073361010-IL	70280733610T0	70280733610T0	70280733610U0	
		PACKING SECTION					
	P45-5	Quick Start Guide	5707000007800-IL	5707000008590S	5707000008590S	5707000008590S	
	P45-6	Operating Instructions (CD-ROM)	6517000001280-IL	6517000001570S	6517000001570S	6517000001570S	
	P45-7	Box, Gift	6007212370000-IL	60072123700F0S	60072123700G0S	60072123700H0S	
	NSP	Warranty Card	ARY7172	ARY7158	ARY7158	ARY7158	
	Δ P45-10	AC Power Cord	Not used	Not used	Not used	L068250100040-IL	
		EXTERIOR SECTION					
	Δ P48-16	Power Trans	8200960611280-IL	8200960611290-IL	8200960611290-IL	8200960611290-IL	
	Δ P48-17	Cord Assy	L068125101710-IL	L068250161710-IL	L068250161710-IL	Not used	
F	P48-22	Pioneer Badge	XAM3006	XAM3006	VAM1129	XAM3006	
	P48-23	Cabinet VSX-523	3008212076000-IL	3008212076000-IL	3008212076010-IL	3008212076000-IL	
	P48-24	Front Panel	3067215871001S	3067215871101S	3067215871200-IL	3067215871101S	

VSX-423-K

3.3 PCB LOCATIONS



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

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
LIST OF ASSEMBLIES							
NSP	1..PCB TTL ASSY MAIN	7025HK1211010-IL	NSP	1..PCB TTL ASSY AMP5	7025HK1211014-IL	E	
	2..MAIN ASSY (PCB SUB ASSY MAIN)	7028073331010-IL		2..AMP5 ASSY (PCB SUB ASSY AMP5)	7028073341010-IL		
	2..REG ASSY (PCB SUB ASSY REG)	7028073312010-IL	NSP	1..PCB TTL ASSY FRONT	7025HK1211011-IL		
	2..OPTCO ASSY (PCB SUB ASSY OPTCO)	7028073313010-IL		2..FRONT ASSY (PCB SUB ASSY FRONT)	7028073321010-IL		
	2..WG ASSY (PCB SUB ASSY WG)	7028073315010-IL		2..HPMIC ASSY (PCB SUB ASSY HPMIC)	7028073322010-IL		
	2..G-L ASSY (PCB SUB ASSY G-L)	7028073316010-IL		2..FUSB ASSY (PCB SUB ASSY FUSB)	7028073323010-IL		
	2..G-R ASSY (PCB SUB ASSY G-R)	7028073317010-IL		2..INSEL ASSY (PCB SUB ASSY INSEL)	7028073324010-IL		
NSP	1..PCB TTL ASSY DMAIN	7025HK1211012-IL		2..CONCT ASSY (PCB SUB ASSY CONCT)	7028073325010-IL		
	2..D-MAIN ASSY (PCB SUB ASSY DMAIN)	7028073351010-IL	NSP	1..PCB TTL ASSY SMPS	7025HK1211015-IL	F	
NSP	1..PCB TTL ASSY CPU	7025HK1211013-IL		2..SMPS ASSY (PCB SUB ASSY SMPS)	7028073361010-IL		
	2..CPU ASSY (PCB SUB ASSY CPU)	7028073331010-IL					