

Pioneer

Service Manual

ORDER NO.
RRV4439

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	SYXE8	AC 220 V to 230 V	
VSX-423-S	SYXE8	AC 220 V to 230 V	
VSX-423-K	PWVXE8	AC 220 V to 240 V	
VSX-523-K	PWXE	AC 220 V to 240 V	
VSX-523-K	AXQ5	AC 220 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 ⚠ 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%).

560Ω → 56 x 10¹ → 561 RD1/4PU561J
47kΩ → 47 x 10³ → 473 RD1/4PU473J
0.5Ω → R50 RN2H50K
1Ω → 1R0 RS1P1R0K

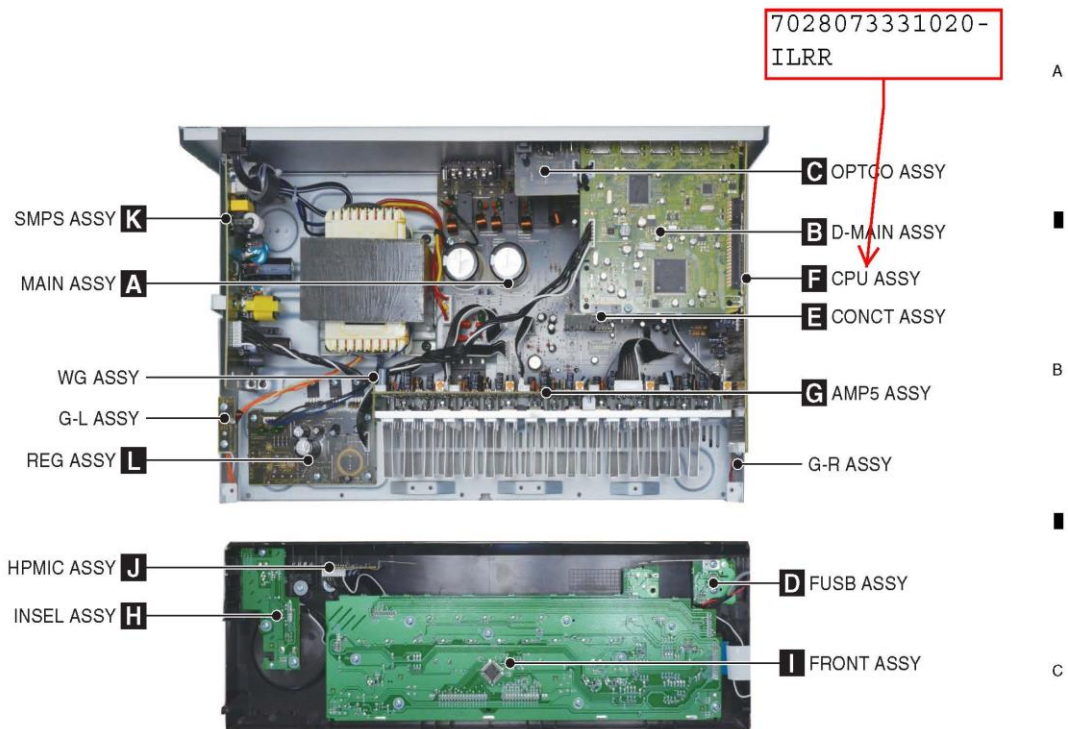
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62kΩ → 562 x 10¹ → 5621 RN1/4PC5621F

CONTRAST TABLE
VSX-423

VSX-523-K/CUXESM, VSX-423-K/SYXE8, VSX-423-S/SYXE8 and VSX-423-K/PWVXE8 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-523-K /CUXESM	VSX-423-K /SYXE8	VSX-423-S /SYXE8	VSX-423-K /PWVXE8	Remarks
C	NSP	PCB ASSEMBLIES					
	P48-1	1..PCB TTL ASSY MAIN	7025HK1211010-IL	7025HK1211020-IL	7025HK1211030-IL	7025HK1211040-IL	
		2..MAIN ASSY	7028073311010-IL	7028073311020-IL	7028073311020-IL	7028073311040-IL	
	P48-12	2..REG ASSY	7028073312010-IL	7028073312020-IL	7028073312020-IL	7028073312020-IL	
	NSP	1..PCB TTL ASSY DMAIN	7025HK1211012-IL	7025HK1211022-IL	7025HK1211032-IL	7025HK1211042-IL	
D	NSP	1..PCB TTL ASSY CPU	7025HK1211013-IL	7025HK1211023-IL	7025HK1211033-IL	7025HK1211043-IL	
	P48-6	2..CPU ASSY	7028073331010-IL	7028073331020-IL	7028073331020-IL	7028073331040-IL	
	NSP	1..PCB TTL ASSY AMP5	7025HK1211014-IL	7025HK1211024-IL	7025HK1211034-IL	7025HK1211044-IL	
	P48-9	1..PCB TTL ASSY FRONT	7025HK1211011-IL	7025HK1211021-IL	7025HK1211031-IL	7025HK1211041-IL	
	NSP	2..FRONT ASSY	7028073321010-IL	7028073321020-IL	7028073321020-IL	7028073321020-IL	
E	NSP	1..PCB TTL ASSY SMPS	7025HK1211015-IL	7025HK1211025-IL	7025HK1211035-IL	7025HK1211045-IL	
	⚠ P48-11	2..SMPS ASSY	7028073361010-IL	7028073361020-IL	7028073361020-IL	7028073361040-IL	
	P45-5	PACKING SECTION					
		Quick Start Guide	5707000007800-IL	5707000007820-IL	5707000007820-IL	5707000007820-IL	
	P45-6	Operating Instructions (CD-ROM)	6517000001280-IL	6517000001300-IL	6517000001300-IL	6517000001300-IL	
F	NSP	Operating Instructions_VSX-523 (En) (pdf)	ARB7517	Not used	Not used	Not used	
	NSP	Operating Instructions_VSX-523 (Frc) (pdf)	ARC8192	Not used	Not used	Not used	
	NSP	Operating Instructions_VSX-523 (Es) (pdf)	ARC8193	Not used	Not used	Not used	
	NSP	Operating Instructions_VSX-323/423 (En) (pdf)	Not used	ARB7520	ARB7520	ARB7520	
	NSP	Operating Instructions_VSX-323/423 (Fr) (pdf)	Not used	ARC8197	ARC8197	ARC8197	
	NSP	Operating Instructions_VSX-323/423 (De) (pdf)	Not used	ARC8198	ARC8198	ARC8198	
	NSP	Operating Instructions_VSX-323/423 (It) (pdf)	Not used	ARC8199	ARC8199	ARC8199	
	NSP	Operating Instructions_VSX-323/423 (Es) (pdf)	Not used	ARC8200	ARC8200	ARC8200	
	NSP	Operating Instructions_VSX-323/423 (Nl) (pdf)	Not used	ARC8201	ARC8201	ARC8201	
	NSP	Operating Instructions_VSX-323/423 (Ru) (pdf)	Not used	ARC8202	ARC8202	ARC8202	
	NSP	Operating Instructions_VSX-823 (En) (pdf)	ARB7518	Not used	Not used	Not used	
	NSP	Operating Instructions_VSX-823 (Frc) (pdf)	ARC8194	Not used	Not used	Not used	
	NSP	Operating Instructions_VSX-823 (Es) (pdf)	ARC8195	Not used	Not used	Not used	
	NSP	Operating Instructions_VSX-528/828 (En) (pdf)	Not used	ARB7521	ARB7521	ARB7521	
	NSP	Operating Instructions_VSX-528/828 (Fr) (pdf)	Not used	ARC8203	ARC8203	ARC8203	
	NSP	Operating Instructions_VSX-528/828 (De) (pdf)	Not used	ARC8204	ARC8204	ARC8204	
	NSP	Operating Instructions_VSX-528/828 (It) (pdf)	Not used	ARC8205	ARC8205	ARC8205	
	NSP	Operating Instructions_VSX-528/828 (Es) (pdf)	Not used	ARC8206	ARC8206	ARC8206	

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
	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)	70280733312010-IL				
	2..	OPTCO ASSY (PCB SUB ASSY OPTCO)	70280733313010-IL	NSP	1..	PCB TTL ASSY FRONT	7025HK1211011-IL
	2..	WG ASSY (PCB SUB ASSY WG)	70280733315010-IL		2..	FRONT ASSY (PCB SUB ASSY FRONT)	7028073321010-IL
					2..	HPMIC ASSY (PCB SUB ASSY HPMIC)	7028073322010-IL
	2..	G-L ASSY (PCB SUB ASSY G-L)	70280733316010-IL		2..	FUSB ASSY (PCB SUB ASSY FUSB)	7028073323010-IL
	2..	G-R ASSY (PCB SUB ASSY G-R)	70280733317010-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)	70280733351010-IL				
NSP	1..	PCB TTL ASSY CPU	7025HK1211013-IL	NSP	1..	PCB TTL ASSY SMPS	7025HK1211015-IL
	2..	CPU ASSY (PCB SUB ASSY CPU)	70280733331010-IL	⚠	2..	SMPS ASSY (PCB SUB ASSY SMPS)	7028073361010-IL