

Pioneer

Service Manual

ORDER NO.
RRV4444

AV Receiver

VSX-1123-K

VSX-923-K

VSX-923-S

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

Model	Type	Power Requirement	Remarks
VSX-1123-K	SYXE8	AC 220 V to 230 V	
VSX-923-K	SYXE8	AC 220 V to 230 V	
VSX-923-S	SYXE8	AC 220 V to 230 V	
VSX-923-K	PWVXE8	AC 220 V to 240 V	

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

Model No.	Order No.	Remarks
VSX-1128-K/CUXE	RRV4420	VSX-1123-K/CUXESM, VSX-1028-K/CUXE

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

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 $\rightarrow$ 56 x 10¹ $\rightarrow$ 561 RD1/4PU561J

47k Ω $\rightarrow$ 47 x 10³ $\rightarrow$ 473 RD1/4PU473J

0.5 Ω $\rightarrow$ R50 RN2HR50K

1 Ω $\rightarrow$ 1R0 RS1P1R0K

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

5.62k Ω $\rightarrow$ 562 x 10¹ $\rightarrow$ 5621 RN1/4PC5621F

CONTRAST TABLE

VSX-1123

VSX-1123-K/CUXESM and VSX-1123-K/SYXE8 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-1123-K/CUXESM	VSX-1123-K/SYXE8	Remarks
PCB ASSEMBLIES					
NSP	P56-1	1..PCB TTL ASSY MAIN	7025HK1207020-IL	7025HK1207010-IL	
	P56-2	2..MAIN ASSY	7028073111040-IL	7028073111020-IL	
	P56-2	2..OPTCO ASSY	7028073112010-IL	7028073112020-IL	
	P56-3	2..VIDEO ASSY	7028073113040-IL	7028073113060-IL	
NSP	P56-7	1..PCB TTL ASSY SMPS	7025HK1207026-IL	7025HK1207016-IL	
	P56-7	2..SMPS ASSY	7028073361000-IL	70280733610G0-IL	
NSP	P56-8	1..PCB TTL ASSY FRONT	7025HK1207021-IL	7025HK1207011-IL	
	P56-8	2..FRONT ASSY	7028073121040-IL	7028073121030-IL	
	P56-10	2..INSEL ASSY	7028073123040-IL	7028073123030-IL	
NSP	P56-11	1..PCB TTL ASSY CPU	7025HK1207023-IL	7025HK1207013-IL	
	P56-11	2..CPU ASSY	7028073131040-IL	7028073131020-IL	
	P56-12	2..BRI-1 ASSY	7028073132010-IL	7028073132020-IL	
NSP	P56-15	1..PCB TTL ASSY DMAIN	7025HK1207042-IL	7025HK1207022-IL	
	P56-15	2..D-MAIN ASSY	7028073151010-IL	7028073151040-IL	
NSP	P56-16	1..PCB TTL ASSY AMP7	7025HK1207044-IL	7025HK1207014-IL	
	P56-16	2..AMP7 ASSY	7028073051040-IL	7028073051050-IL	
NSP	P56-17	1..PCB TTL ASSY AUDIO	7025HK1207045-IL	7025HK1207015-IL	
	P56-17	2..AUDIO ASSY	7028073141010-IL	7028073141020-IL	
NSP	P56-18	1..PCB TTL ASSY FHDMI	7025HK1207048-IL	7025HK1207018-IL	
	P56-18	2..FHDMI ASSY	7028073221060-IL	7028073221070-IL	
PACKING SECTION					
	P53-5	Operating Instructions (CD-ROM)	6517000001230-IL	6517000001320-IL	
NSP		Operating Instructions_VSX-1123 (En) (pdf)	ARB7524	Not used	
NSP		Operating Instructions_VSX-1123 (Fr) (pdf)	ARC8213	Not used	
NSP		Operating Instructions_VSX-1123 (Es) (pdf)	ARC8214	Not used	
NSP		Operating Instructions_VSX-923 (En) (pdf)	Not used	ARB7527	
NSP		Operating Instructions_VSX-923 (Fr) (pdf)	Not used	ARC8217	
NSP		Operating Instructions_VSX-923 (De) (pdf)	Not used	ARC8218	

Mark	No.	Symbol and Description	VSX-1123-K/CUXESM	VSX-1123-K/SYXE8	Remarks
NSP		Operating Instructions_VSX-923 (It) (pdf)	Not used	ARC8219	
NSP		Operating Instructions_VSX-923 (Es) (pdf)	Not used	ARC8220	
NSP		Operating Instructions_VSX-923 (NI) (pdf)	Not used	ARC8221	
NSP		Operating Instructions_VSX-923 (Ru) (pdf)	Not used	ARC8222	
NSP		Operating Instructions_VSX-923 (Sv) (pdf)	Not used	ARC8223	
NSP		Operating Instructions_VSX-923 (No) (pdf)	Not used	ARC8224	
	P53-6	Quick Start Guide	5707000007770-IL	5707000007870-IL	
	P53-7	Box, Gift	6007212390000-IL	60072118201H0-IL	
NSP	P53-10	Warranty Card	ARY7172	ARY7158	
⚠	P53-12	Power Cord	Not used	L068250160020-IL	
		EXTERIOR SECTION			
⚠	P56-20	Power Trans	8200960611390-IL	8200960611400-IL	
⚠	P56-21	Cord Assy	L068125101710-IL	Not used	
⚠	P56-22	Socket, Power AC	Not used	G430040560021-IL	
	P56-32	Front Panel	3067215881000-IL	3067215881100-IL	
	P56-33	Back Chassis	3207214606000-IL	3207214606100-IL	
	P56-35	Foot	4000210391000-IL	4007210391000-IL	
	P56-42	Stopper	4380040162010-IL	Not used	
	P56-61	Screw	Not used	CBZ30P080FTB	

Notes : For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES".

VSX-923

VSX-1028-K/CUXE, VSX-923-K/SYXE8, VSX-923-S/SYXE8 and VSX-923-K/PWVXE8 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-1028-K /CUXE	VSX-923-K /SYXE8	VSX-923-S /SYXE8	VSX-923-K /PWVXE8	Remarks
		PCB ASSEMBLIES					
NSP	P56-1	1..PCB TTL ASSY MAIN	7025HK1208010-IL	7025HK1208020-IL	7025HK1208020-IL	7025HK1208040-IL	
	P56-2	2..MAIN ASSY	7028073111040-IL	7028073111020-IL	7028073111020-IL	7028073111020-IL	
	P56-3	2..OPTCO ASSY	7028073112010-IL	7028073112020-IL	7028073112020-IL	7028073112010-IL	
	P56-3	2..VIDEO ASSY	7028073113070-IL	7028073113030-IL	7028073113030-IL	7028073113030-IL	
NSP	P56-7	1..PCB TTL ASSY SMPS	7025HK1207026-IL	7025HK1207016-IL	7025HK1207016-IL	7025HK1207016-IL	
⚠	P56-7	2..SMPS ASSY	70280733610O0-IL	70280733610G0-IL	70280733610G0-IL	70280733610G0-IL	
NSP	P56-8	1..PCB TTL ASSY FRONT	7025HK1208011-IL	7025HK1208021-IL	7025HK1208021-IL	7025HK1208041-IL	
	P56-10	2..FRONT ASSY	7028073121040-IL	7028073121030-IL	7028073121030-IL	7028073121030-IL	
	P56-10	2..INSEL ASSY	7028073123040-IL	7028073123030-IL	7028073123030-IL	7028073123030-IL	
NSP	P56-11	1..PCB TTL ASSY CPU	7025HK1208013-IL	7025HK1208023-IL	7025HK1208023-IL	7025HK1208043-IL	
	P56-12	2..CPU ASSY	7028073131080-IL	7028073131030-IL	7028073131030-IL	7028073131100-IL	
	P56-12	2..BRI-1 ASSY	7028073132070-IL	7028073132030-IL	7028073132030-IL	7028073132030-IL	
NSP	P56-15	1..PCB TTL ASSY DMAIN	7025HK1208012-IL	7025HK1207032-IL	7025HK1207032-IL	7025HK1207032-IL	
	P56-15	2..D-MAIN ASSY	7028073151080-IL	7028073151050-IL	7028073151050-IL	7028073151050-IL	
NSP	P56-16	1..PCB TTL ASSY AMP7	7025HK1207044-IL	7025HK1207014-IL	7025HK1207014-IL	7025HK1207014-IL	
	P56-16	2..AMP7 ASSY	7028073051040-IL	7028073051050-IL	7028073051050-IL	7028073051050-IL	
NSP	P56-17	1..PCB TTL ASSY AUDIO	7025HK1208015-IL	7025HK1208025-IL	7025HK1208025-IL	7025HK1208025-IL	
	P56-17	2..AUDIO ASSY	7028073141080-IL	7028073141030-IL	7028073141030-IL	7028073141030-IL	
		PACKING SECTION					
	P53-5	Operating Instructions (CD-ROM)	6517000001240-IL	6517000001320-IL	6517000001320-IL	6517000001320-IL	
NSP		Operating Instructions_VSX-1128 (En)(pdf)	ARB7525	Not used	Not used	Not used	
NSP		Operating Instructions_VSX-1128(Frca)(pdf)	ARC8215	Not used	Not used	Not used	
NSP		Operating Instructions_VSX-923 (En)(pdf)	Not used	ARB7527	ARB7527	ARB7527	

Mark	No.	Symbol and Description	VSX-1028-K /CUXE	VSX-923-K /SYXE8	VSX-923-S /SYXE8	VSX-923-K /PWVXE8	Remarks
NSP		Operating Instructions_VSX-923 (Fr)(pdf)	Not used	ARC8217	ARC8217	ARC8217	
NSP		Operating Instructions_VSX-923 (De)(pdf)	Not used	ARC8218	ARC8218	ARC8218	
NSP		Operating Instructions_VSX-923 (It)(pdf)	Not used	ARC8219	ARC8219	ARC8219	
NSP		Operating Instructions_VSX-923 (Es)(pdf)	Not used	ARC8220	ARC8220	ARC8220	
NSP		Operating Instructions_VSX-923 (NI)(pdf)	Not used	ARC8221	ARC8221	ARC8221	
NSP		Operating Instructions_VSX-923 (Ru)(pdf)	Not used	ARC8222	ARC8222	ARC8222	
NSP		Operating Instructions_VSX-923 (Sv)(pdf)	Not used	ARC8223	ARC8223	ARC8223	
NSP		Operating Instructions_VSX-923 (No)(pdf)	Not used	ARC8224	ARC8224	ARC8224	
	P53-6	Quick Start Guide	5707000007780-IL	5707000007870-IL	5707000007870-IL	5707000007870-IL	
	P53-7	Box, Gift	60072118201P0-IL	60072118201Q0-IL	60072118201R0-IL	60072118201S0-IL	
	P53-10	Warranty Card	ARY7178	ARY7158	ARY7158	ARY7158	
	P53-12	Power Cord	Not used	L068250160020-IL	L068250160020-IL	L068250100040-IL	
		EXTERIOR SECTION					
	P56-20	Power Trans	8200960611390-IL	8200960611400-IL	8200960611400-IL	8200960611400-IL	
	P56-21	Cord Assy	L068125101710-IL	Not used	Not used	Not used	
	P56-22	Socket, Power AC	Not used	G430040560021-IL	G430040560021-IL	G430040560021-IL	
	P56-30	Pioneer Badge	XAM3006	XAM3006	VAM1129	XAM3006	
	P56-31	Cabinet Assy	3008211846020-IL	3008211846020-IL	3008211846010-IL	3008211846020-IL	
	P56-32	Front Panel	3067215881020-IL	3067215881120-IL	3067215881200-IL	3067215881120-IL	
	P56-33	Back Chassis	3207214596000-IL	3207214596100-IL	3207214596110-IL	3207214596100-IL	
	P56-35	Foot	4000210391000-IL	4007210391000-IL	4007210391000-IL	4007210391000-IL	
	P56-42	Stopper	4380040162010-IL	Not used	Not used	Not used	
	P56-44	Knob	5080212431000-IL	5080212431000-IL	5087212431200-IL	5080212431000-IL	
	P56-45	Button	5090213741100-IL	5090213741100-IL	5097213741000-IL	5090213741100-IL	
	P56-46	5 Key Button	5090214561000-IL	5090214561000-IL	5097214561000-IL	5090214561000-IL	
	P56-61	Screw	Not used	CBZ30P080FTB	CBZ30P080FTB	CBZ30P080FTB	

Notes : For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES".

CONTRAST OF PCB ASSEMBLIES

A F MAIN ASSY

7028073111040-IL and 7028073111020-IL are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028073111040-IL	7028073111020-IL	Remarks
	JA50 TUNER,FM/AM	E903004100780-IL	E903104100780-IL	

Note: This list is not complete. Only components that are available as service part are listed!

B F D-MAIN ASSY (VSX-1123)

7028073151010-IL and 7028073151040-IL are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028073151010-IL	7028073151040-IL	Remarks
	IC1521	Not used	TC7SH08FUS1	
	IC9510	MM3529A32P	MM3529A33P	
	IC103	Not Resisted	8952123000012-IL	
	IC9004	Not Resisted	8952123000021-IL	
	IC9205	Not Resisted	8952123000041-IL	

Note: This list is not complete. Only components that are available as service part are listed!

B F D-MAIN ASSY (VSX-923)

7028073151080-IL and 7028073151050-IL are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028073151080-IL	7028073151050-IL	Remarks
	IC9510	MM3529A32P	MM3529A33P	
	IC103	Not Resisted	8952123000012-IL	
	IC9004	Not Resisted	8952123000021-IL	
	IC9205	Not Resisted	8952123000041-IL	

Note: This list is not complete. Only components that are available as service part are listed!

C F OPTCO ASSY

Although 7028073112010-IL and 7028073112020-IL are different and are NOT COMPATIBLE! Some components on these assy's are different. Since these different components are not available as service part, they are not listed.

E F BRI-1 ASSY (VSX-1123)

Although 7028073132010-IL and 7028073132020-IL are different and are NOT COMPATIBLE! Some components on these assy's are different. Since these different components are not available as service part, they are not listed.

E F BRI-1 ASSY (VSX-923)

Although 7028073132070-IL and 7028073132030-IL are different and are NOT COMPATIBLE! Some components on these assy's are different. Since these different components are not available as service part, they are not listed.

F F VIDEO ASSY (VSX-1123)

Although 7028073113040-IL and 7028073113060-IL are different and are NOT COMPATIBLE! Some components on these assy's are different. Since these different components are not available as service part, they are not listed.

F F VIDEO ASSY (VSX-923)

Although 7028073113070-IL and 7028073113030-IL are different and are NOT COMPATIBLE! Some components on these assy's are different. Since these different components are not available as service part, they are not listed.

I F AUDIO ASSY (VSX-1123)

Although 7028073141010-IL and 7028073141020-IL are different and are NOT COMPATIBLE! Some components on these assy's are different. Since these different components are not available as service part, they are not listed.

I F AUDIO ASSY (VSX-923)

Although 7028073141080-IL and 7028073141030-IL are different and are NOT COMPATIBLE! Some components on these assy's are different. Since these different components are not available as service part, they are not listed.

J F CPU ASSY (VSX-1123)

7028073131040-IL and 7028073131020-IL are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028073131040-IL	7028073131020-IL	Remarks
	IC300	Not Resisted	8952123000031-IL	

Note: This list is not complete. Only components that are available as service part are listed!

J F CPU ASSY (VSX-923)

7028073131080-IL, 7028073131030-IL and 7028073131100-IL are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028073131080-IL	7028073131030-IL	7028073131100-IL	Remarks
	IC300	Not Resisted	8952123000031-IL	8952123000031-IL	

Note: This list is not complete. Only components that are available as service part are listed!

K F AMP7 ASSY

Although 7028073051040-IL and 7028073051050-IL are different and are NOT COMPATIBLE! Some components on these assy's are different. Since these different components are not available as service part, they are not listed.

L F FHDMI ASSY

Although 7028073221060-IL and 7028073221070-IL are different and are NOT COMPATIBLE! Some components on these assy's are different. Since these different components are not available as service part, they are not listed.

M F INSEL ASSY

Although 7028073123040-IL and 7028073123030-IL are different and are NOT COMPATIBLE! Some components on these assy's are different. Since these different components are not available as service part, they are not listed.

N F FRONT ASSY

7028073121040-IL and 7028073121030-IL are constructed the same except for the following:

Mark	Symbol and Description	7028073121040-IL	7028073121030-IL	Remarks
	R3021, R3022	C060R47065050-IL	C060001065060-IL	

Note: This list is not complete. Only components that are available as service part are listed!

PF SMPS ASSY

70280733610O0-IL and 70280733610G0-IL are constructed the same with the exception of some components, including the following:

A

Mark	Symbol and Description	70280733610O0-IL	70280733610G0-IL	Remarks
	C107	Not used	D041562081001-IL	
	CN9100 CN.WAFER 7.92mm	L108396030010-IL	Not used	
⚠	FU101 FUSE GLASS TUBE 20mm (T8AL/250V)	N751508001160-IL	Not used	
⚠	FU101 FUSE GLASS TUBE 20mm (T6.3AL/250V)	Not used	N751506301160-IL	

The mounting positions of the additional parts are described in the circuit diagram and PCB diagram of the parent manual.
Note: This list is not complete. Only components that are available as service part are listed!

B

C

D

E

F