

# Pioneer

## Service Manual

ORDER NO.  
RRV4454

AV RECEIVER

# SC-1223-K

## SC-1223-S

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

Model	Type	Power Requirement	Remarks
SC-1223-K	SYXJ8	AC 220 V to 230 V	
SC-1223-S	SYXJ8	AC 220 V to 230 V	

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

Model No.	Order No.	Remarks
SC-71/CUXJE	RRV4450	SC-1223-K/UXJCB
SC-71, SC-1228-K, SC-1223-K	RRV4462	SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM, PCB PARTS LIST

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  $\Delta$  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 ..... RD1/4PU561J  
 47k  $\Omega$   $\rightarrow$  47 x 10<sup>3</sup>  $\rightarrow$  473 ..... RD1/4PU473J  
 0.5  $\Omega$   $\rightarrow$  R50 ..... RN2HR50K  
 1  $\Omega$   $\rightarrow$  1R0 ..... RS1P1R0K

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 ..... RN1/4PC5621F

## CONTRAST TABLE

SC-1223-K/UXJCB, SC-1223-K/SYXJ8 and SC-1223-S/SYXJ8 are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-1223-K /UXJCB	SC-1223-K /SYXJ8	SC-1223-S /SYXJ8	Remarks
<b>PCB ASSEMBLIES</b>						
NSP	P67-2	1..PRIM DISPLAY ASSY	AWM8342	AWM8332	AWM8332	
	P71-2	2..PRIMARY ASSY	AWX1640	AWX1641	AWX1641	
		2..POWER SW ASSY	AWX1508	AWX1654	AWX1654	
NSP	P67-6 P69-6	1..INTERFACE REG_SS ASSY	AWR7211	AWR7179	AWR7179	
		2..B-DIODE_SS ASSY	AWX1588	AWX1373	AWX1373	
		2..INTERFACE_SS ASSY	AWX1589	AWX1370	AWX1370	
NSP	P67-8 P69-9 P69-10 P69-11	1..PRE POWER_SS ASSY	AWR7222	AWR7180	AWR7180	
		2..V-REG_SS ASSY	AWX1605	AWX1379	AWX1379	
		2..VIDEO_SS ASSY	AWX1602	AWX1371	AWX1371	
		2..OPT COAX_SS ASSY	AWX1603	AWX1372	AWX1372	
NSP	P69-11	2..232C_SS ASSY	AWX1607	AWX1386	AWX1386	
NSP	P69-1	1..D-AMP_SS ASSY	AWH7068	AWH7069	AWH7069	
		2..D-AMP_SS ASSY	AWX1425	AWX1426	AWX1426	
NSP	P69-3 P69-4	1..AUDIO BUFFER_SS ASSY	AWR7199	AWR7187	AWR7187	
		2..AUDIO_SS ASSY	AWX1536	AWX1362	AWX1362	
		2..IR BUFFER_SS ASSY	AWX1537	AWX1453	AWX1453	
NSP	P69-12 P71-6	1..DIGITAL MAIN_L ASSY	AWX1353	AWX1649	AWX1649	
		1..FRONT HDMI USB ASSY	AWX1548	AWX1549	AWX1549	
<b>PACKING SECTION</b>						
$\Delta$	P65-2	Power Cord	ADG7118	ADG7123	ADG7123	
	P65-6	Quick Start Guide	ARH7183	ARH7184	ARH7184	
NSP	P65-8	Safety Brochure	ARM7155	ARM7156	ARM7156	
	P65-9	CD-ROM (AVNavigator)	ARU7056	ARU7057	ARU7057	
NSP		Operating Instructions (En)	ARB7513	ARB7514	ARB7514	
NSP		Operating Instructions (Frca)	ARC8176	Not used	Not used	
NSP		Operating Instructions (Fr)	Not used	ARC8177	ARC8177	
NSP		Operating Instructions (De)	Not used	ARC8178	ARC8178	
NSP		Operating Instructions (It)	Not used	ARC8179	ARC8179	
NSP		Operating Instructions (Es)	Not used	ARC8180	ARC8180	
NSP		Operating Instructions (NI)	Not used	ARC8181	ARC8181	
NSP		Operating Instructions (Ru)	Not used	ARC8182	ARC8182	
NSP	P65-10	Warranty Sheet	ARY7045	ARY7158	ARY7158	
	P65-16	Packing Case	AHD8824	AHD8825	AHD8826	
<b>EXTERIOR SECTION</b>						
$\Delta$	P67-9	Power Transformer	ATS7465	ATS7466	ATS7466	

Mark	No.	Symbol and Description	SC-1223-K /UXJCB	SC-1223-K /SYXJ8	SC-1223-S /SYXJ8	Remarks
⚠	P67-10	Fuse (FU4 : 2A)	REK1139	Not used	Not used	F-Panel(Bottom)
⚠	P67-10	Fuse (FU4 : 4A)	Not used	REK1104	REK1104	
⚠	P67-11	Fuse (FU31, FU32 : 1A)	REK1142	Not used	Not used	
⚠	P67-11	Fuse (FU31, FU32 : T800mA)	Not used	AEK7072	AEK7072	
⚠	P67-12	Fuse (FU21, FU22 : 1.25A)	REK1143	Not used	Not used	
⚠	P67-12	Fuse (FU21, FU22 : T800mA)	Not used	AEK7072	AEK7072	
⚠	P67-13	Fuse (FU10 : 6A)	REK1151	Not used	Not used	
⚠	P67-13	Fuse (FU10 : T5A)	Not used	AEK1061	AEK1061	
⚠	P67-14	Fuse (FU1 : 10A)	REK1154	Not used	Not used	
⚠	P67-14	Fuse (FU1 : T5A)	Not used	AEK1061	AEK1061	
	P67-17	Bonnet	AZN8057	AZN8057	AZN8058	
	P67-21	Insulator	AMR7198	PNW2766	PNW2766	
	P67-29	Screw	BBZ30P080FTB	BBZ30P080FTB	BBZ30P080FNI	
	P67-30	Screw	BCZ40P060FTB	BCZ40P060FTB	BCZ40P060FNI	
<b>REAR SECTION</b>						
	P69-13	AM/FM Tuner Unit	AXX7282	AXX7283	AXX7283	
⚠	P69-14	Fuse (FU13, FU14 : 1A)	REK1142	Not used	Not used	
⚠	P69-14	Fuse (FU13, FU14 : T800mA)	Not used	AEK7072	AEK7072	
⚠	P69-15	Fuse (FU15 : 1.25A)	REK1143	Not used	Not used	
⚠	P69-15	Fuse (FU15 : T1A)	Not used	AEK7073	AEK7073	
	P69-23	Rear Panel	ANC8692	ANC8693	ANC8694	
<b>FRONT SECTION</b>						
	P71-12	Door	AAN7235	AAN7235	AAN7240	
	P71-14	Cushion Circle	AED7083	AED7083	AED7080	
	P71-17	Door Base	AMR7565	AMR7565	AMR7636	
	P71-20	VOL. Knob	AAA7068	AAA7068	AAA7071	
	P71-21	STDBY BTN ASSY	AAD7804	AAD7804	AAD7807	
	P71-24	Power Ring	AAK8571	AAK8571	AAK8574	
	P71-27	Panel Base	AMB8041	AMB8042	AMB8049	
	P71-28	Panel	AMB8058	AMB8058	AMB8060	
	P71-30	Screw	BBZ30P080FTB	BBZ30P080FTB	BBZ30P080FNI	

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

## CONTRAST OF PCB ASSEMBLIES

### **A**F AUDIO\_SS ASSY

AWX1536 and AWX1362 are constructed the same except for the following:

Mark	Symbol and Description	AWX1536	AWX1362	Remarks
	R2715, R2716	RS1/10SR0R0J	RS1/10SR101J	
	R3161, R3162, R3165, R3166	RS1/10SR103J	RS1/10SR123J	
	R3157, R3158	RS1/10SR104J	RS1/10SR223J	
	R5621, R5622	RS1/10SR121J	RS1/10SR101J	
	R2764, R6746	RS1/10SR223J	Not used	
	C5554, C5555, C5558, C5559	CKSQYB103K50	Not used	
	C3015, C3016	Not used	CEAK221M16	
	C5590, C5591	CEAK101M35	CEAK221M16	

### **B**F FRONT HDMI USB ASSY

Although AWX1548 and AWX1549 are different in part number, they consist of the same service components.

### **D**F OPT COAX\_SS ASSY

Although AWX1603 and AWX1372 are different in part number, they consist of the same service components.

**E F DIGITAL MAIN\_L ASSY**

AWX1353 and AWX1649 are constructed the same except for the following:

Mark	Symbol and Description	AWX1353	AWX1649	Remarks
A	R712 R688 R1567, R1568, R1571, R1888 R1912, R1913, R9028, R9318 R9316	RS1/16SS0R0J RS1/16SS100J RS1/16SS100J RS1/16SS100J RS1/16SS100J	RS1/16SS101J RS1/16SS101J RS1/16SS120J RS1/16SS120J RS1/16SS220J	
	R1604, R9653 R1882-R1885 R1944, R1946 R9314 R1800	RS1/16SS101J RS1/16SS120J RS1/16SS120J RS1/16SS220J RS1/16SS472J	RS1/16SS121J RS1/16SS150J RS1/16SS150J RS1/16SS270J RS1/16SS562J	
B	R9275 C966 C1745 C223, C1038, C1047, C1272 C1319, C1401, C1684, C1739	RS1/16SS473J CCSSCH102J50 CCSSCH471J50 CKSSYB104K16 CKSSYB104K16	RS1/16SS563J Not used CCSSCH331J50 CKSSYB103K25 CKSSYB103K25	
	C9047, C9353, C9677, C9679 C1206 C590 C1113 C1658, C1663	CKSSYB104K16 Not used Not used Not used Not used	CKSSYB103K25 CCSSCH220J50 CCSSCH331J50 CEVW101M16 CKSSYB103K25	
C	C456, C9314, C9475 C1657, C1662, C9630	Not used DCH1246	CEVW221M4 Not used	

**F F INTERFACE\_SS ASSY**

AWX1589 and AWX1370 are constructed the same except for the following:

Mark	Symbol and Description	AWX1589	AWX1370	Remarks
	C7063	Not used	CFTLA474J2A	

**G F 232C\_SS ASSY**

Although AWX1607 and AWX1386 are different in part number, they consist of the same service components.

**H F VIDEO\_SS ASSY**

Although AWX1602 and AWX1371 are different in part number, they consist of the same service components.

**L F POWER SW ASSY**

AWX1508 and AWX1654 are constructed the same except for the following:

Mark	Symbol and Description	AWX1508	AWX1654	Remarks
	C3402	CKSRYB104K16	CKSRYB104K50	

**N F IR BUFFER\_SS ASSY**

AWX1537 and AWX1453 are constructed the same except for the following:

Mark	Symbol and Description	AWX1537	AWX1453	Remarks
	R6804, R6806, R6856, R6858 R6860, R6862, R6864 R6805, R6807 R6836 R6855, R6857, R6859, R6861	RS1/10SR22R0F RS1/10SR22R0F RS1/10SR1000F RS1/10SR120J RS1/10SR101J	RS1/10SR0R0J RS1/10SR0R0J RS1/10SR111J RS1/10SR100J RS1/10SR111J	
F	R6863 R6935, R6939 R6954 R6967, R6971	RS1/10SR101J RS1/10SR120J RS1/8SQ204J RS1/8SQ0R0J	RS1/10SR111J RS1/10SR100J RS1/8SQ244J Not used	

Mark	Symbol and Description	AWX1537	AWX1453	Remarks
	R6968, R6972	Not used	RS1/8SQ0R0J	

## **OF** D-AMP\_SS ASSY

AWX1425 and AWX1426 are constructed the same except for the following:

Mark	Symbol and Description	AWX1425	AWX1426	Remarks
	JA4301, JA4501, JA5101 Speaker Terminal 4P	AKE7109	AKE7110	
	JA4101 Speaker Terminal 6P	AKE7107	AKE7108	
	R4287, R4288, R4487, R4488	ACN7180	Not used	
	R4687, R4688, R4787, R4788	ACN7180	Not used	
	R4005	RS1/4SA105J	Not used	
	R4105, R4106, R5197	Not used	RS1/10SR0R0J	
	R4160, R4260, R4360, R4460	RS1/10SR101J	RS1/10SR121J	
	R4560, R4660, R4760	RS1/10SR101J	RS1/10SR121J	
	R4189, R4289, R4389, R4489	RS1/10SR150J	RS1/10SR180J	
	R4589, R4689, R4789	RS1/10SR150J	RS1/10SR180J	
	R4161, R4261, R4361, R4461	RS1/8SQ822J	RS1/8SQ153J	
	R4561, R4661, R4761	RS1/8SQ822J	RS1/8SQ153J	
	R5083	RS1/10SR1R0J	RS1/10SR2R2J	
	R5113, R5114, R5118, R5119	RS1/8SQ223J	RS1/8SQ473J	
	R5127, R5132, R5133	RS1/8SQ223J	RS1/8SQ473J	
	R5196	RS1/10SR0R0J	Not used	
	C4125, C4225, C4325, C4425	Not used	RS1/8SQ105J	
	C4525, C4625, C4725	Not used	RS1/8SQ105J	
	C4126, C4226, C4326, C4426	Not used	RS1/8SQ182J	
	C4526, C4626, C4726	Not used	RS1/8SQ182J	
	C4084	Not used	ACE7082	
	C4071, C4072	Not used	CEAK471M16	
	C4166, C4167, C4266, C4267	CEAK101M16	CEAK221M10	
	C4366, C4367, C4466, C4467	CEAK101M16	CEAK221M10	
	C4566, C4567, C4666, C4667	CEAK101M16	CEAK221M10	
	C4766, C4767	CEAK101M16	CEAK221M10	

## **PF** PRIMARY ASSY

AWX1640 and AWX1641 are constructed the same except for the following:

Mark	Symbol and Description	AWX1640	AWX1641	Remarks
⚠	L1 Line Filter	ATF7046	ATF7050	
⚠	CN81 Connector	B2P3-VH	Not used	
⚠	CN82 Connector	Not used	B3P5-VH	

## **QF** B-DIODE\_SS ASSY

AWX1588 and AWX1373 are constructed the same except for the following:

Mark	Symbol and Description	AWX1588	AWX1373	Remarks
	R7515	Not used	RS1/4SA913J	
	R7516	Not used	RS1/4SA683J	

## **RF** V-REG\_SS ASSY

Although AWX1605 and AWX1379 are different in part number, they consist of the same service components.