

# Service Manual

ORDER NO.  
**ARP2883**

**STEREO AMPLIFIER**

# A-204

# A-104

- Refer to the service manual ARP2852 for A-203/HEXJ.

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

Type	Model		Power Requirement	The voltage can be converted by the following method.
	A-204	A-104		
HLXJ	○	○	AC 220 - 230V	AC 240V,*
SDXJ	○	○	AC 110V / 120 - 127V / 220V / 240V	With the voltage selector

\* : Alter the wiring of the Power-supply block at the primary winding of Power-transformer referring to the "Line Voltage Selection" described in Service Manual.

## CONTRAST OF MISCELLANEOUS PARTS

**NOTES:**

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\triangle$  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.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

A-204/HLXJ, A-204/SDXJ and A-203/HLXJ have the same construction except for the following:

Mark	Symbol & Description	Part No.			Remarks
		A-203/HLXJ	A-204/HLXJ	A-204/SDXJ	
	Front panel	AMB2231	AMB7212	AMB7212	
	Rear panel	ANC2201	ANC7224	ANC7225	
	Operating instructions (English, Chinese)	ARE1300	ARE7047	Not used	
	Operating instructions (English, Spanish, Chinese)	Not used	Not used	ARE7048	
	Paper Protector A	AHA1660	AHA7061	AHA7061	
	Paper Protector B	AHA1661	AHA7062	AHA7062	
	Paper Protector C	AHA1662	AHA7063	AHA7063	
	Paper Protector D	Not used	AHA7064	AHA7064	
	Packing case	AHD2701	AHD7144	AHD7144	

A-104/HLXJ, A-104/SDXJ and A-103/HLXJ have the same construction except for the following:

Mark	Symbol & Description	Part No.			Remarks
		A-103/HLXJ	A-104/HLXJ	A-104/SDXJ	
	Front panel	AMB2234	AMB7211	AMB7211	
	Rear panel	ANC2202	ANC7222	ANC7223	
	Operating instructions (English, Chinese)	ARE1300	ARE7047	Not used	
	Operating instructions (English, Spanish, Chinese)	Not used	Not used	ARE7048	
	Paper Protector A	AHA1660	AHA7061	AHA7061	
	Paper Protector B	AHA1661	AHA7062	AHA7062	
	Paper Protector C	AHA1662	AHA7063	AHA7063	
	Paper Protector D	Not used	AHA7064	AHA7064	
	Packing case	AHD2702	AHD7143	AHD7143	

# Service Manual

ORDER NO.  
**ARP2893**

**STEREO AMPLIFIER**

# A-204R

- Refer to the service manual ARP2852 for A-203/HEXJ.

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

Type	Model	Power Requirement	The voltage can be converted by the following method.
	A-204R		
HEXJ	○	AC 220 - 230V	AC 240V,*
HEWZXJ	○	AC 220 - 230V	AC 240V,*
HBWXJ	○	AC 230V	AC 240V,*

\* : Alter the wiring of the Power-supply block at the primary winding of Power-transformer referring to the "Line Voltage Selection" described in Service Manual.

## ● CONTRAST OF MISCELLANEOUS PARTS

### NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\triangle$  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.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

A-204R/HEWZXJ, A-204R/HBWXJ and A-203/HEXJ have the same construction except for the following:

Mark	Symbol & Description	Part No.				Remarks
		A-203 / HEXJ	A-204R / HEXJ	A-204R / HEWZXJ	A-204R / HBWXJ	
NSP	AF assy	AWK1787	AWK7118	AWK7118	AWK7119	
	Power transformer	ATS1538	ATS7060	ATS7060	ATS7060	
$\triangle$	FUSE FU1 (T1.25A)	REK1023	.....	.....	.....	
$\triangle$	FUSE FU1 (T1.0A)	.....	REK1022	REK1022	REK1022	
$\triangle$	Power AC cord	ADG1154	ADG1154	ADG1154	ADG1156	
$\triangle$	Remote control unit (CU-A014)	.....	AXD7049	AXD7049	AXD7049	
	Filter	.....	AAK7141	AAK7141	AAK7141	
	Wire clamp	.....	AEC7022	AEC7022	AEC7022	
	Front panel (PLS)	AMB2231	AMB7194	AMB7194	AMB7194	
	Rear panel (MET)	ANC2173	ANC7234	ANC7235	ANC7190	
NSP	Radiator	ANH1464	ANH1465	ANH1465	ANH1465	
NSP	Getter (LABEL)	.....	AAX7171	AAX7171	AAX7171	For front panel
	Holder	.....	VEC1355	VEC1355	VEC1355	
	Operating instructions (English / French / German/Italian / Swedish / Spanish / Dutch / Portuguese)	ARE1302	ARE7046	.....	.....	
	Operating instructions (German)	.....	.....	ARC7069	.....	
	Operating instructions (Spanish / German)	.....	.....	.....	ARB7046	
	Packig case	AHD2672	AHD7145	AHD7145	AHD7202	
	Paper protector A	AHA1660	AHA7061	AHA7061	AHA7061	
	Paper protector B	AHA1661	AHA7062	AHA7062	AHA7071	
	Paper protector C	AHA1662	AHA7063	AHA7063	AHA7072	
	Paper protector D	.....	AHA7064	AHA7064	AHA7073	For packing
NSP	Polyethy lene bag	.....	AHG1217	AHG1217	AHG1217	For packing
NSP	Air cap	.....	.....	.....	AHG1087	For packing

**For AWK7118 and AWK7119**

AWK7119 and AWK7118 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWK7118	AWK7119	
	SP ASSY POWER SW ASSY	AWZ7566 AWZ7567	AWZ7570 AWZ7571	

**SP ASSY**

AWZ7570 and AWZ7566 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWK7118	AWK7119	
△	CN401 AC INLET(1P)	AKP1132	AKP1133	

**POWER SW ASSY**

Although AWZ7571 and AWZ7567 are different in part number, they have the same service parts.

**PCB PARTS LIST**

**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.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- 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 ohms and 47k ohms (tolerance is shown by J = 5%, and K = 10%).  
 $560\Omega \rightarrow 56 \times 10^1 \rightarrow 561$  ----- RD1/8PM 5 6 1 J  
 $47k\Omega \rightarrow 47 \times 10^3 \rightarrow 473$  ----- RD1/4PS 4 7 3 J  
 $0.5\Omega \rightarrow 0R5$  ----- RN2H 0 R 5 K  
 $1\Omega \rightarrow 010$  ----- RS1P 0 1 0 K
- Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).  
 $5.62k\Omega \rightarrow 562 \times 10^1 \rightarrow 5621$  ----- RN1/4PC 5 6 2 1 F

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
LIST OF ASSEMBLIES							
NSP	AF ASSY		AWK7118		RESISTORS		
	FUNCTION ASSY		AWZ7563	△	R115 ,R116 ,R148 ,R149		RD1/8MMF101J
	CONTROL ASSY		AWZ7564		VR101 (100KΩ)		ACX7006
	HEADPHONE ASSY		AWZ7565		Other Resistors		RD1/8PM□□□□J
	SP ASSY		AWZ7566		OTHERS		
	POWER SW ASSY		AWZ7567		CN11 (PIN JACK 8P)		AKB7022
	TRANS ASSY		AWZ7568		CN10 (PIN JACK 8P)		AKB7023
	POWER AMP ASSY		AWZ7569		CN1 (CONNECTOR 15P)		KPE15
					CONTROL ASSY		
					SEMICONDUCTORS		
	FUNCTION ASSY				IC201		NJM4558DXP
					IC202		PD6144A
					Q210		2SA933S
	SEMICONDUCTORS				Q211 -Q214		2SC2878
△	IC104		TA8409S		Q201 -Q209		DTC124ES
	IC101		TC9163N		D210 -D214		D210
	IC102 ,IC103		UPC4570C		D209		AEL1065
	Q106 -Q109		2SK246		D208		AEL1084
	D106 -D109		1SS252		D201 -D206		AEL1099
	COILS AND FILTERS				COILS AND FILTERS		
	L101 -L104		LAU121K		L201		LAU221K
	CAPACITORS				SWITCHES AND RELAYS		
	C156 ,C157		CCCSL151J50		S208		ASG1019
	C101 -C114 ,C122 ,C123 ,C139		CCCSL221J50		S201 -S206		ASG1034
	C143 ,C144		CCCSL221J50		S207		ASG1079
	C118 ,C119		CCCSL330J50		CAPACITORS		
	C136 ,C137		CEAS101M25		C225(0.047F)		ACH1246
	C120 ,C121 ,C130 ,C131		CEAS2R2M50		C223 ,C224		CCCSL151J50
	C159 ,C160		CEAS2R2M50		C217 ,C218		CCCSL271J50
	C124 ,C125		CEAS470M25		C221 ,C222		CCCSL470J50
	C162		CEAS470M50		C219		CEANP220M35
	C149 ,C150		CEGA470M25		C205 ,C206		CEAS2R2M50
	C151 -C154		CEZA470M25		C207 ,C208 ,C220 ,C227 ,C228		CEAS470M25
	C155		CFTXA473J50		C201		CEJA2R2M50
	C145 ,C146		CFTXA823J50		C213 ,C214		CFTXA154J50
	C141 ,C142 ,C147 ,C148		CFTXA824J50		C211 ,C212		CFTXA184J50
	C133 ,C138		CKCYB103K50		C209 ,C210		CFTXA333J50
	C161 ,C163		CKCYF103Z50		C215 ,C216		CFTXA824J50
	C115		CKCYF473Z50		C204		CKCYF103Z50
	C116 ,C117 ,C132		CKPUYB681K50		C203		CKPUYB102K50
	C126 ,C127 ,C134 ,C135		CQMA222J50		C202 ,C229		CKPUYF103Z25
	C128 ,C129		CQMA822J50				

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
		RESISTORS				TRANS ASSY	
	R258 ,R259		RD1/2PM271J			CAPACITORS	
	VR202 ,VR203(10KΩ)		ACS1113			C701(1μ/100V)	ACH1237
	VR201(250KΩ)		ACS1114			RESISTORS	
	Other Resistors		RD1/8PM□□□□J	△		Other Resistors	RD1/4PM□□□□J
	OTHERS					OTHERS	
	8206 (SOCKET 10P)		AKP1044			CN4 (CONNECTOR 7P)	KPE7
	X201(4.00MHz)		ASS1025			POWER AMP ASSY	
	REMOTE RECEIVER UNIT		AXX1023			SEMICONDUCTORS	
	HEADPHONE ASSY					IC301	UPC4570C
	CAPACITORS					Q305 ,Q306	2SA1145
	C503 ,C504		CKCYB392K50			Q320	2SA933S
	RESISTORS					Q313 ,Q314	2SA965
△	R505 ,R506		RS2LMF331J			Q303 ,Q304	2SA992
	OTHERS					Q317 ,Q318	2SC1740S
	JACK		AKN1010			Q301 ,Q302 ,Q315 ,Q316	2SC1845
	SP ASSY					Q311 ,Q312	2SC2235
	SEMICONDUCTORS					Q319	2SC2240
△	Q402		2SA1932P			Q309 ,Q310	2SC2458
△	Q401		2SC5174P			Q307 ,Q308	2SC2705
△	Q403		2SD1913			D301 -D308 ,D313 -D322 ,D334	1SS252
	D405 ,D406 ,D410 ,D413		1SS252			D323	MTZJ13
△	D401		D3SBA20(B)			D333	MTZJ27A
	D414 ,D417		MTZJ5.6B			D329 -D332	MTZJ3.3
	D403 ,D404 ,D412		RD16ESB2			D309 -D312	MTZJ6.2A
	D407 -D409 ,D411 ,D416		S5566			SWITCHES AND RELAYS	
	CAPACITORS					RY301	ASR1035
△	C413(0.01μF)		ACG1054			CAPACITORS	
	C401 ,C402(6800μ/42V)		ACH1110			C165 ,C166	CCCSL220J50
	C408 ,C410 ,C411		CEAS100M50			C309 -C312	CCCSL560K500
	C407		CEAS101M50			C326	CEAS101M25
	C409		CEAS102M50			C317	CEAS471M6
	C412		CEAS470M50			C315 ,C316	CEAS4R7M50
	C403 ,C404		CEZA101M25			C327 ,C328	CEZA100M50
	C405 ,C406		CEZA470M25			C313 ,C314	CEZA2R2M50
	C451 ,C452		CKCYB472K50			C305 ,C306 ,C324 ,C325	CEZA470M25
	RESISTORS					C319 -C322	CFTXA224J50
△	R410		RD1/2PMF471J			C301 ,C302	CFTXA824J50
	R411		RD1/4PM153J			C303 ,C304	CKCYB471K50
	R405		RD1/4PM222J			C323	CKCYF103Z50
	R403 ,R404 ,R409		RD1/4PM472J			RESISTORS	
	R406		RD1/4PM682J	△		R347 ,R348 (0.33Ω/5W)	ACN-139
△	R401 ,R402 ,R407 ,R413 -R415		RD1/8MMF4R7J	△		R362	RD1/2PMFL181J
△	R417		RD1/8MMF4R7J	△		R363	RD1/2PMFL221J
	Other Resistors		RD1/8PM□□□□J	△		R369 ,R370	RD1/2PMFL4R7J
	OTHERS			△		R385	RD1/4PMF100J
	SCREW		ABA-298	△		R357	RD1/4PMF101J
	SPEAKER TERMINAL 4-P		AKE1054	△		R349 ,R350	RD1/4PMF222J
	CN7(JACK)		AKN-207	△		R386	RD1/8MMF100J
△	CN401(AC INLET 1P)		AKP1132	△		R337 -R340	RD1/8MMF101J
	HEAT SINK M		ANH-697	△		R341 ,R342	RD1/8MMF271J
	CN2(CONNECTOR 15P)		KPE15	△		R367 ,R368 ,R387 ,R388	RD1/8MMF4R7J
	CN5(CONNECTOR 6P)		KPE6	△		R323 -R326	RD1/8MMF511J
	POWER SW ASSY			△		R327 -R330	RD1/8MMF680J
	SWITCHES AND RELAYS			△		R371 ,R372	RDR1/4PM332J
△	S601		ASG1035	△		R343 -R346	RFA1/4PS4R7J
	CAPACITORS					R331 ,R332	RN1/4PC1501F
△	C601		ACG1054			R335 ,R336	RN1/4PC6800F
	OTHERS					Other Resistors	RD1/8PM□□□□J
	PLUG(10P)					CN3(CONNECTOR 8P)	AKM1037
							KPE8

