

# Service Manual

ORDER NO.  
**ARP2008**

STEREO AMPLIFIER

# A-227

# A-227-S

# A-117

- Refer to the service manual ARP1765, A-225/HEZ AND A-115/HEZ types.

MODELS A-227, A-227-S AND A-117 HAVE FOLLOWING VERSIONS :

Type	Applicable model			Power requirement	Destination
	A-227	A-227-S	A-117		
HEWZ	○	○	○	AC220V,240V (Switchable) *	West Germany
HE	○	—	○	AC220V,240V (Switchable) *	European continent
HB	○	—	○	AC220V,240V (Switchable) *	United Kingdom
YPW	—	—	○	AC240V only	Australia
SD	○	—	○	AC110V,120V,220V,240V (Switchable)	Kingdom of Saudi Arabia and General market

\* Change the primary wiring of the power transformer.

- This manual is applicable to the A-227/HEWZ, HE, HB, SD, A-227-S/HEWZ, A-117/HEWZ, HE, HB, YPW and SD types.
- The A-227 is the same as the A-227-S except for the color.
- The A-227 and A-227-S are the same as the A-225 except for the appearance design.
- The A-117 is the same as the A-115 except for the appearance design.

# 1. FOR A – 227/HEWZ, HE, HB, SD AND A – 227 – S/HEWZ TYPES

**NOTES:**

- Parts without part number cannot be supplied.
- 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 “ $\odot$ ” are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

## 1.1 CONTRAST OF MISCELLANEOUS PARTS

The A – 227/HEWZ, HE, HB, SD and A – 227 – S/HEWZ types are the same as the A – 225/HEZ type with the exception of the following sections.

Mark	Symbol & Description	Part No.						Remarks
		A – 225/ HEZ	A – 227/ HEWZ	A – 227/ HE	A – 227/ HB	A – 227/ SD	A – 227 – S/ HEWZ	
	AF assembly	AWZ2356	AWZ2356	AWZ2357	AWZ2357	AWZ2460	AWZ2356	*1
	SP SW assembly	Non supply	Non supply	Non supply	Non supply	Non supply	Non supply	
$\triangle$	S7 Line voltage selector switch (AC110V/120V – 127V/220V/240V)	.....	.....	.....	.....	AKX – 507	.....	
$\triangle$	T1 Power transformer	ATS1189	ATS1189	ATS1189	ATS1189	.....	ATS1189	
$\triangle$	T1 Power transformer	.....	.....	.....	.....	ATS1190	.....	
$\triangle$	FU1 Fuse (T1.25A/250V)	AEK – 018	AEK – 018	AEK – 018	AEK – 509	AEK – 018	AEK – 018	
$\triangle$	FU2 Fuse (T1.25A/250V)	.....	.....	.....	.....	AEK – 018	.....	
$\triangle$	AC socket (OUTLET 3P)	.....	.....	.....	.....	AKP – 515	.....	
$\triangle$	AC Power cord	ADG1049	ADG1049	ADG1049	ADG1052	ADG1051	ADG1049	
	Rotary volume S	AAB1068	.....	.....	.....	.....	.....	
	Rotary knob S	.....	AAB1155	AAB1155	AAB1155	AAB1155	AAB1156	
	Rotary knob L	AAB1093	AAB1145	AAB1145	AAB1145	AAB1145	AAB1147	
	Rotary knob M	AAB1094	AAB1146	AAB1146	AAB1146	AAB1146	AAB1148	
	Panel base	AMB1453	AMB1630	AMB1630	AMB1630	AMB1630	AMB1631	
	Knob(B)	AAD – 418	AAD – 418	AAD – 418	AAD – 418	AAD – 418	AAD1368	
	Knob(POWER)	AAD1535	AAD1535	AAD1535	AAD1535	AAD1535	AAD1537	
	Knob	AAD1536	AAD1536	AAD1536	AAD1536	AAD1536	AAD1538	
	Bonnet	ANE1174	ANE1174	ANE1174	ANE1174	ANE1174	ANE1175	
	Nut	NK90FZB	NK90FZB	NK90FZB	NK90FZB	NK90FZB	NK90FUC	
	Insulator assembly	AMR1350	AMR2140	AMR2140	AMR2140	AMR2141	AMR2140	
	Insulator assembly	AMR1353	.....	.....	.....	.....	.....	
	Front panel	ANB1263	ANB1380	ANB1380	ANB1380	ANB1380	ANB1381	
	Packing case	AHD1596	AHD1818	AHD1818	AHD1818	AHD1818	AHD1819	
	Operating instructions (German)	ARC1124	ARC1185	.....	.....	.....	ARC1185	
	Operating Instructions (English/German/French/Italian/ Swedish/Dutch/Spanish/Portuguese)	.....	.....	ARE1149	.....	.....	.....	



Mark	Symbol & Description	Part No.						Remarks
		A-225/HEZ	A-227/HEWZ	A-227/HE	A-227/HB	A-227/SD	A-227-S/HEWZ	
	Operating instructions (English)	.....	.....	.....	ARB1230	ARB1230	.....	
	Operating instructions (Spanish)	.....	.....	.....	.....	ARC1186	.....	

\*1 : The SP SW assembly of A-225/HEZ, A-227/HEZ and A-227-S/HEWZ types are identical assemblies. The SP SW assembly of A-225/HE, HB and SD types are identical assemblies.

**AF assembly (AWZ2357 and AWZ2460)**

The AF assembly (AWZ2357 and AWZ2460) are the same as the AF assembly (AWZ2356) with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		AWZ2356	AWZ2357	AWZ2460	
	L951-L954	ATH-133	.....	.....	
	C3	CQMXA104J100	ACG1005	ACG1005	
	C151,C152,C155,C156	CKDYB391K50	.....	.....	
	C159-C162,C251,C252	.....	.....	.....	
	C215,C216	CKDYB391K50	CCDSL221J50	CCDSL221J50	
	C409,C410	CCDSL050C50	CCDSL020C50	CCDSL020C50	
	C419,C420	CCDSL101J50	CCDSL151J50	CCDSL151J50	
	C951-C955	CKDYB472K50	.....	.....	
	R151-R158	RD1/8PM102J	.....	.....	
	R201,R202	RD1/8PM152J	RD1/8PM331J	RD1/8PM331J	
	R217,R218	RD1/8PM221J	RD1/8PM181J	RD1/8PM181J	

**SP SW assembly(A-227/HE,HB and SD types)**

The SP SW assembly (A-227/HE, HB and SD types) is the same as the SP SW assembly (A-225/HEZ type) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		A-227/HEZ type	A-227/HE, HB and SD types	
	C751,C752	CKDYB392K50	.....	
	R751,R752	RD1/2PMF681J	.....	

### 1.2 SCHEMATIC DIAGRAM

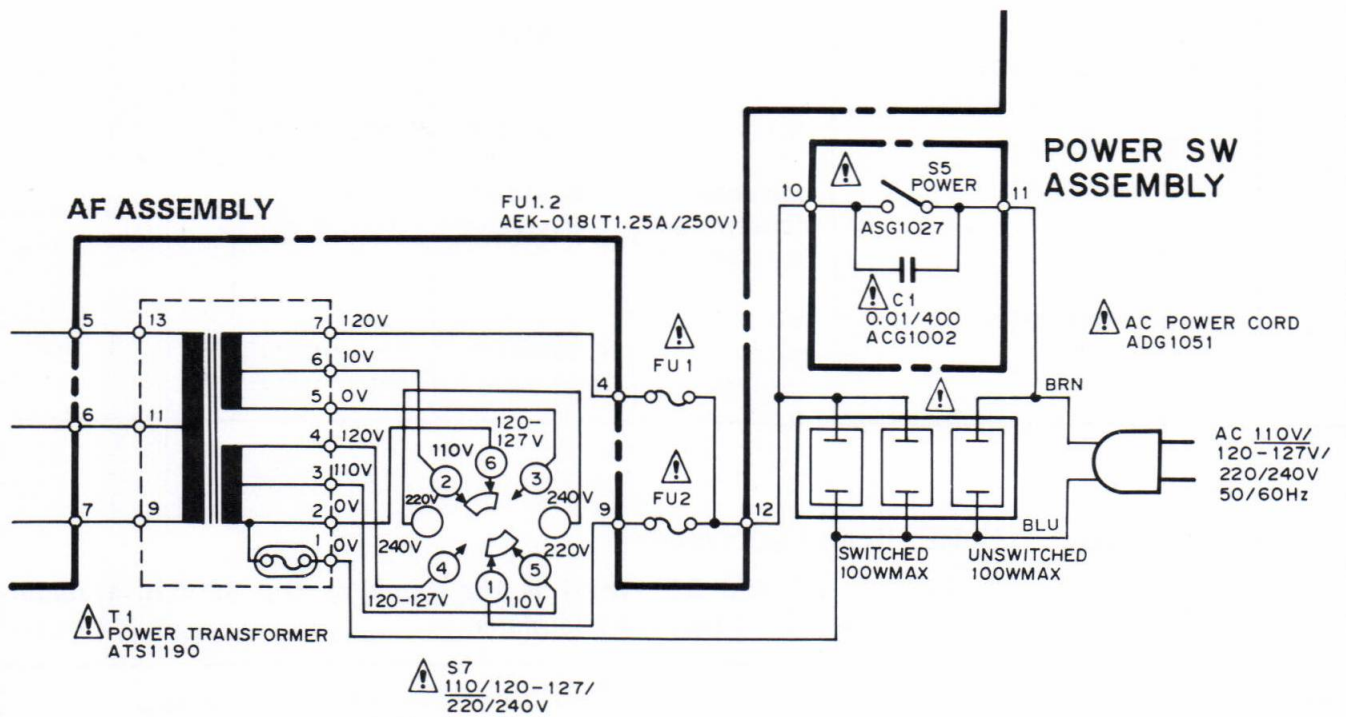
#### 1.2.1 For A-227/HEWZ and A-227-S/HEWZ types

The A-227/HEWZ type and A-227-S/HEWZ types use the same circuit as the A-225/HEZ type. For the circuit diagram refer to the service manual ARP1765, A-225/HEZ type.

#### 1.2.2 For A-227/HE and HB types

The A-227/HE and HB types use the same circuit as the A-225/HE and HB types. For the circuit diagram refer to the A-225/HE and HB types in the service manual ARP1765, A-225/HEZ type.

#### 1.2.3 For A-227/SD type





## 2. FOR A – 117/HEWZ, HE, HB, YPW AND SD TYPES

**NOTES:**

- Parts without part number cannot be supplied.
- 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.

### 2.1 CONTRAST OF MISCELLANEOUS PARTS

The A – 117/HEWZ, HE, HB,YPW and SD types are the same as the A – 115/HEZ type with the exception of the following sections.

Mark	Symbol & Description	Part No.						Remarks
		A – 115/ HEZ	A – 117/ HEWZ	A – 117/ HE	A – 117/ HB	A – 117/ YPW	A – 117 SD	
	AF assembly	AWZ2358	AWZ2358	AWZ2359	AWZ2359	AWZ2359	AWZ2461	*1
	HEAD PHONE assembly	Non supply	Non supply	Non supply	Non supply	Non supply	Non supply	
$\triangle$	S7 Line voltage selector switch (AC110V/120V – 127V/220V/240V)	.....	.....	.....	.....	.....	AKX – 507	
$\triangle$	T1 Power transformer	ATS1191	ATS1191	ATS1191	ATS1191	ATS1191	.....	
$\triangle$	T1 Power transformer	.....	.....	.....	.....	.....	ATS1192	
$\triangle$	FU1 Fuse (T800mA/250V)	AEK – 031	AEK – 031	AEK – 031	AEK – 507	AEK – 031	AEK – 031	
$\triangle$	FU2 Fuse (T800mA/250V)	.....	.....	.....	.....	.....	AEK – 031	
$\triangle$	AC socket (OUTLET 3P)	.....	.....	.....	.....	.....	AKP – 515	
$\triangle$	AC Power cord	ADG1049	ADG1049	ADG1049	ADG1052	ADG1050	ADG1051	
	Rotary volume S	AAB1068	.....	.....	.....	.....	.....	
	Rotary knob S	.....	AAB1155	AAB1155	AAB1155	AAB1155	AAB1155	
	Panel base	AMB1453	AMB1630	AMB1630	AMB1630	AMB1630	AMB1630	
	Leg assembly	AEC – 784	.....	.....	.....	AEC – 784	AEC – 784	
	Insulator assembly	.....	AMR2140	AMR2140	AMR2140	.....	.....	
	Front panel	ANB1262	ANB1382	ANB1382	ANB1382	ANB1382	ANB1382	
	Packing case	AHD1595	AHD1820	AHD1820	AHD1820	AHD1820	AHD1820	
	Operating instructions (German)	ARC1124	ARC1185	.....	.....	.....	.....	
	Operating instructions (English/German/French/Italian/ Swedish/Dutch/Spanish/Portuguese)	.....	.....	ARE1149	.....	.....	.....	
	Operating instructions (English)	.....	.....	.....	ARB1230	ARB1230	ARB1230	
	Operating instructions (S)	.....	.....	.....	.....	.....	ARC1186	

\*1 : The HEAD PHONE assembly of A – 115/HEZ and A – 117/HEWZ types are identical assemblies. The HEAD PHONE assembly of A – 117/HE, HB,YPW and SD types are identical assemblies.

**AF assembly (AWZ2359 and AWZ2461)**

The AF assembly (AWZ2359 and AWZ2461) is the same as the AF assembly (AWZ2358) with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		AWZ2358	AWZ2359	AWZ2461	
	L953,L954	ATH-133	.....	.....	
	C3	CQMXA104J100	ACG1005	ACG1005	
	C151,C152,C155,C156	CKDYB391K50	.....	.....	
	C159-C162,C251,C252				
	C215,C216	CKDYB391K50	CCDSL221J50	CCDSL221J50	
	C407,C408	CEXA101M25	CEAS101M10	CEAS101M10	
	C953-C955	CKDYB472K50	.....	.....	
	R151-R158	RD1/8PM102J	.....	.....	
	R201,R202	RD1/8PM152J	RD1/8PM331J	RD1/8PM331J	
	R217,R218	RD1/8PM221J	RD1/8PM181J	RD1/8PM181J	
	R951,R952	RD1/2PMF681J	.....	.....	

**HEAD PHONE assembly (A-117/HE,HB,YPW and SD types)**

The HEAD PHONE assembly (A-117/HE, HB, YPW and SD types) is the same as the HEAD PHONE assembly (A-115/HEZ type) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		A-115/HEZ type	A-117/HE, HB, YPW, SD types	
	C851,C852	CKCYB392K50	.....	

**2.2 SCHEMATIC DIAGRAM**

**2.2.1 For A-117/HEWZ type**

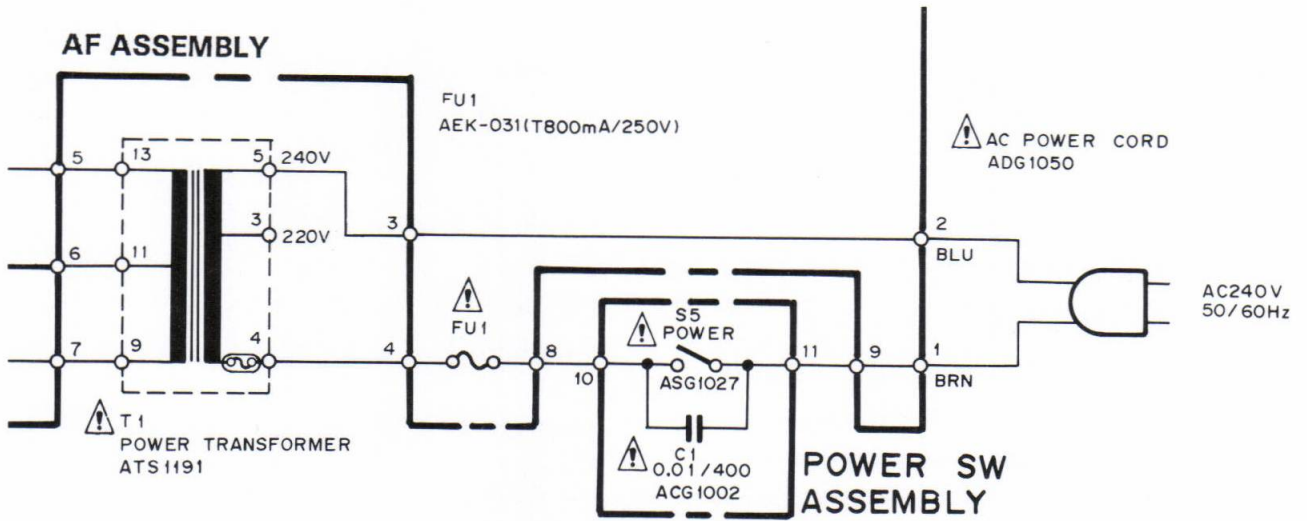
The A-117/HEWZ type use the same circuit as the A-115/HEZ type. For the circuit diagram refer to the A-115/HEZ type in the service manual ARP1765, A-225/HEZ type.

**2.2.2 For A-117/HE and HB types**

The A-117/HE and HB types use the same circuit as the A-115/HE and HB types. For the circuit diagram refer to the A-115/HE and HB types in the service manual ARP1765, A-225/HEZ type.



2.2.3 For A-117/YPW type



2.2.4 For A-117/SD type

