

ADDITIONAL

Service Manual



PIONEER®
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ORDER NO.
ARP1592

STEREO AMPLIFIER

A-717 MARK II

HE, HB

- Refer to the service manual ARP1437, A-717/HEZ TYPE.

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1. ELECTRICAL PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- 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.
- For your parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.
- ★★ **GENERALLY MOVES FASTER THAN ★**
This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- 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 × 10 ¹	561.....	RD1/4PS	⊙	⊙	⊙	J
47kΩ	47 × 10 ³	473.....	RD1/4PS	⊙	⊙	⊙	J
0.5Ω	0R5.....		RN2H	⊙	⊙	⊙	K
1Ω	010.....		RS1P	⊙	⊙	⊙	K

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

5.62kΩ	562 × 10 ¹	5621.....	RN1/4SR	⊙	⊙	⊙	F
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Miscellaneous Prrts List

P.C. BOADE ASSEMBLIES

Mark	Symbol & Description	Part No.
	Tone AMP assembly	AWZ1472
	Power AMP assembly	AWZ1487
	PHONO AMP assembly	AWZ1888
	Input selector assembly	
	REC Out assembly	
	Speaker switch assembly	
	Main volume assembly	
	Power supply assembly	
	Speaker terminal assembly	
	Headphone assembly	

OTHERS

Mark	Symbol & Description	Part No.
⊙★★	Q3, Q4, Q5, Q6	2SA1265N
⊙★★	Q1, Q2, Q7, Q8	2SC3182N
⊙	C3 Electrolytic capacitor (22,000μF/63V × 2)	ACH1045
⊙ ★	T1 Power transformer (220V/240V)	ATS1087
⊙ ★	T2 Power transformer (220V/240V)	ATS1088
⊙★★	S1 Push switch (POWER)	ASG-553
⊙★★	FU1 Fuse (T4A/250V)	AEK-400 (HE type)
⊙★★	FU4 Fuse (T4A/250V)	AEK-514 (HB type)
⊙★★	FU2, FU3 Fuse (T400mA/250V)	AEK-407 (HE type)
⊙★★	FU2, FU3 Fuse (T400mA/250V)	AEK-504 (HB type)
⊙	AC power cord	ADG1019 (HE type)
⊙	AC power cord	ADG-051 (HB type)
★★	S3 Remote slide rotary switch (REC SELECTOR)	ASU1003
★★	S2 Remote slide rotary switch (INPUT SELECTOR)	ASU1005
★★	S4 Remote slide rotary switch (PHONO SELECTOR)	ASU1007

Tone AMP Assembly (AWZ1472)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC301	M5220P
★★	IC302	M74LS74AP
★★	Q301, Q302	2SA992
★★	Q303, Q304	2SC1845
★★	Q305, Q306	2SC2603 (2SC2458)
★	D301, D303-D306 LED (POWER, TAPE3/ADPT LOUDNESS)	AEL1004
★	D302 LED (DIRECT)	AEL1010
★	D308	RD6.1ESB1
★	D310	RD5.6ESB
★	D307, D309, D311	1SS131

SWITCHES

Mark	Symbol & Description	Part No.
★★	S301, S302 Push switch (TAPE3, LOUDNESS)	ASG1019
★★	S304 Tact switch (MUTING)	ASG-711
★★	S303 Push switch (EQ-POWER)	ASG1021

CAPACITORS

Mark	Symbol & Description	Part No.
	C303,C304	CCCSL470J50 (CCDSL470J50)
	C321,C322	CCDSL390J50
	C325,C326,C338,C341,C342	CEAS010M50
	C337,C339,C340	CEAS100M25
	C317,C318,C331,C332	CEAS2R2M50
	C336	CEAS221M10
	C333,C334	CEAS221M25
	C323,C324,C335	CEAS470M10
	C301,C302,C305 - C308	CXA2R2M50
	C329,C330	CFTXA104J50
	C309,C310	CFTXA153J50
	C315,C316	CFTXA183J50
	C311,C312,C327,C328	CFTXA823J50
	C313,C314	CQMA332K50

RESISTORS

Mark	Symbol & Description	Part No.
★★	VR301 Variable resistor (250KΩ × 2: BALANCE)	ACT1027
★★	VR302,VR303 Variable resistor (100KΩ × 2: BASS, TREBLE)	ATC1028
	R350,R351,R353,R356, R368 - R371	RD1/8PM□□□J
	Other resistor	RD1/4PM□□□J

Power AMP Assembly (AWZ1487)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC101,IC102	PA0018
★★	Q143	2SA1115 (2SA1048)
★★	Q117,Q118,Q125,Q126,Q131, Q132	2SA1146
★★	Q135,Q136	2SA968
★★	Q113 - Q116,Q123,Q124	2SA992
★★	Q103 - Q112,Q137,Q138, Q121,Q122	2SC1845
★★	Q145	2SC2235
★★	Q133,Q134	2SC2238
★★	Q139,Q140 - Q142,Q144	2SC2603 (2SC2458)
★★	Q119,Q120,Q127 - Q130,	2SC2705
★★	Q101,Q102	2SK389
★	D131	RD12ESB
★	D133 - D136	RD3.6EB
★	D127 - D130	1SS131
★	D137 - D140	10E2FD
★	D101 - D126	11E2

CAPACITORS

Mark	Symbol & Description	Part No.
	C109 - C112	CMA150J500
	C101,C102	CMA221J500
	C113,C114	CCDSL271K50
	C123,C124	CMA151J500
	C119 - C122	CMA680J500
	C129,C130	CEANP010M50
	C135	CEASR47M100
	C134	CEAS221M16
	C131,C132,C137,C138	CEAS471M6
	C107,C108	CXA471M50
	C103,C104	CFTXA473J50
	C105,C106	CQMXA102J100
	C133	CKCYF103Z50 (CKDYF103Z50)
	C151 - C154	CEAS010M100
	C147 - C150	CKDYB102K50
	C115 - C118	CMA101J500
	C143 - C146	CMA470J500

RESISTORS

Mark	Symbol & Description	Part No.
⚠	R227 - R230 (0.33Ω × 2.5W)	ACN - 139
	R107 - R110,R131 - R134	RD1/2PM□□□J
⚠	R147,R148,R151,R152, R165 - R168,R171 - R178, R183 - R194,R207 - R210,R217	RD1/4PMF□□□J
	R113 - R116	RDR1/2PM□□□J
	R101 - R104,R223	RDR1/4PM□□□J
⚠	R125 - R128,R149,R150, R153 - R156,R179 - R182, R195 - R202,R139 - R142	RFA1/4PS□□□J
	R218,R220 - R222,R231 Other resistors	RD1/8PM□□□J RD1/4PM□□□J

Phono AMP Assembly (AWZ1488)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC501,IC502	M5220P
★★	IC503	M5F78M24L
★★	IC504	M5F79M24L
★★	Q505 - Q510	2SC1845
★★	Q501 - Q504	2SK389
★★	Q511 - Q514	2SC3327
★	D503,D504	11E2
★	D505,D506	1SS131
★	D507 - D510	MA859

SWITCH

Mark	Symbol & Description	Part No.
★★	S501 Remote slide switch (PHONO SELECTOR)	ASU1008

CAPACITORS

Mark	Symbol & Description	Part No.
	C505,C506 C531,C532 C521,C522 C511,C512,C528 C529,C530	CCDSL221J50 CCDSL271J50 CEXA220M25 CEXA221M25 CFTXA103J50
	C509,C510 C525 C519,C520 C515,C516 C517,C518 C535,C536 C507,C508 C533,C534	CEXA470M25 CEXA471M25 CFTXA563J50 CQPA333J2A CFTXA224J50 CCCSL221J50 CQSA821J50 CKCYB331K50 (CKDYB331K50) CEAS470M10 CEXA220M50
	C545,C546 C527,C528	CKCYF103Z50 (CKDYF103Z50)
	C537 - C540	CQPA224J2A
	C513,C514	

RESISTORS

Mark	Symbol & Description	Part No.
	R501 - R504,R507,R508, R527 - R544	RDR1/4PM□□□J
	R563 - R566, R568,R569	RD1/8PM□□□J
	Other resistors	RD1/4PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	1P pin jack (PHONO:RED)	AKB1027
	1P pin jack (PHONO:WHITE)	AKB1028

Input Selector Assembly

SWITCH

Mark	Symbol & Description	Part No.
★★	S702 Remote slide switch (REC SELECTOR)	ASU1002
★★	S701 Remote slide switch (FUNCTION SELECTOR)	ASU1006

RESISTORS

Mark	Symbol & Description	Part No.
	R713 - R716 R711,R712	RD1/4PM□□□J RDR1/4PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	4P pin jack (TAPE1,TAPE2 PLAY)	AKB1007
	6P pin jack (CD,TUNER,LINE IN)	AKB1029

REC Out Assembly

CAPACITORS

Mark	Symbol & Description	Part No.
	C813,C814	CKMYB221K50

RESISTORS

Mark	Symbol & Description	Part No.
	R803 - R808,R811,R812	RD1/4PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	4P pin jack (TAPE1 REC,TAPE2 REC,TAPE3 REC,TAPE3 PLAY)	AKB1009

Speaker Switch Assembly

SWITCH

Mark	Symbol & Description	Part No.
★★	S401 Rotary switch (SPEAKER A,B)	ASD1002

CAPACITORS

Mark	Symbol & Description	Part No.
	C401,C402	CEAS3R3M50

RESISTORS

Mark	Symbol & Description	Part No.
	R401,R402 R407,R408 Other resistors	RD1/2PM151J RD1/4PMF561J RD1/4PM□□□J

Main Volume Assembly

SWITCH

Mark	Symbol & Description	Part No.
★★	S801 Push switch (LINE DIRECT)	ASG1018

RESISTORS

Mark	Symbol & Description	Part No.
★★	VR801 Variable resistors (60KΩ × 2:VOLUME)	ACW1003
	R801,R802	RDR1/4PM.272J

**Power Supply Assembly
SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
★★	IC601	M5F78M24L
★★	IC602	M5F79M24L
★★	Q603	2SA1145
★★	Q602	2SA992
★★	Q601	2SC2705
★	D617	RD30ESB2
★	D607	RD5.1EB (HZ5.1EB) S5566 (11E2)
★	D603 - D606, D608, D616	1SS131
★	D601, D602, D609 - D611	30DF2FC - 2
★	D612 - D615	

COILS

Mark	Symbol & Description	Part No.
	L601 - L604 Inductor (10mH)	LTA103J

CAPACITORS

Mark	Symbol & Description	Part No.
⚠	C617, C618 (0.01 μF/AC400V)	ACG1003
⚠	C615, C616 (0.01 μF/AC150V)	ACG1005
	C607, C608	CEAS010M50
	C619, C620	CEAS100M50
	C610	CEAS101M50
	C604	CEHAQ101M50
	C611	CEAS3R3M50
	C605, C606	CEXA471M50
	C609	CKCYB471K50 (CKDYB471K50)
	C601 - C603	CEAS470M50

RESISTORS

Mark	Symbol & Description	Part No.
⚠	R605, R606, R619, R620	RD1/4PMFL220J
⚠	R608	RS1LMF102J
⚠	R611	RS1PMF103J
⚠	R601, R602	RS1PMF391J
⚠	R603, R604	RS2LMF182J
	Other resistors	RD1/4PM□□□J

Speaker Terminal Assembly

RELAYS

Mark	Symbol & Description	Part No.
★★	RY901, RY902 Relay (SPEAKER PROTECTION)	ASR - 106
★★	RY903 Relay (HEADPHONE PROTECTION)	ASR1014

COILS

Mark	Symbol & Description	Part No.
	L901, L902 Inductor (2.7mH)	ATH1011

CAPACITORS

Mark	Symbol & Description	Part No.
	C901 - C904	CFTXA104J50

RESISTORS

Mark	Symbol & Description	Part No.
⚠	R901, R902	RS1LMF100J
⚠	R905, R906	RS1PMF681J
⚠	R907, R908	RS2LMF100J
⚠	R903, R904	RS2LMF331J

OTHERS

Mark	Symbol & Description	Part No.
	4P Speaker Terminal	AKE1006

Headphone Assembly

OTHERS

Mark	Symbol & Description	Part No.
	Headphone jack (PHONOS)	AKN1002

2. PACKING

PARTS LIST OF PACKING

Mark	No.	Parts No.	Description
	1	AHA1070	Front rear pad
	2	AHD1469	Packing case
	3	ABE1086 (HE type)	Operating instruction (English/German/French/Italian/ Dutch/Spanish/Portuguese/ Swedish)
		ARB1119 (HB type)	Operating instructions (English)
	4	AEA1010	Spacer set
	101		Polyethylene sheet

3. EXPLODED PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- 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.
- For your parts Stock Control, the fast moving items are indicated with the marks $\star\star$ and \star .
 $\star\star$ **GENERALLY MOVES FASTER THAN \star**
 This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Parts List of Exterior

Mark	No.	Parts No.	Description	Mark	No.	Parts No.	Description
$\Delta\star\star$	1	2SA1265N	Transistor(Q3,Q4,Q5,Q6)		35	AMR1161	Joint arm
$\Delta\star\star$	2	2SC3182N	Transistor(Q1,Q2,Q7,Q8)		36	AMR1178	Joint
Δ	3	ACH1045	Electrolytic capacitor (C3 22,000 μ F/63V x 2)		37	ANL1007	Long shaft assembly
	4	.....	.....		38	ABA-297	Screw
	5	.....	.....		39	ABA-298	Screw
$\Delta\star$	6	ATS1087	Power transformer (AC220V/240V,T1)		40	ABA1004	Screw
$\Delta\star$	7	ATS1088	Power transformer (AC220V/240V,T2)		41	.....	.....
$\Delta\star\star$	8	ASG-553	Push switch(POWER,S1)		42	ABA1009	Screw
$\star\star$	9	ASU1003	Remote slide rotary switch (REC SELECTOR,S3)		43	ABA1011	Screw
$\star\star$	10	ASU1005	Remote slide rotary switch (INPUT SELECTOR,S2)	Δ	44	ABA1034	Screw
$\star\star$	11	ASU1007	Remote slide rotary switch (PHONO SELECTOR,S4)		45	ABA1048	Screw
$\Delta\star\star$	12	AEK-400(HE type) Fuse(FU1 T4A/250V) AEK-514(HB type) Fuse (FU4 T4A/250V)			46	ABN-065	Shaft nut
$\Delta\star\star$	13	AEK-407(HE type) Fuse(FU2 FU3 T400mA/250V) AEK-504(HB type) Fuse(FU2 FU3 T400mA/250V)			47	.....	.....
	14	AMR1158	Leg assembly		48	ADG1019(HE type) AC Power cord ADG-051(HB type) AC Power cord	AC Power cord
	15	AMR1159	Leg assembly		49	BBZ40P080FZK	Screw
	16	ANK1029	Shield plate		50	NK90FUC	Nut
	17	ANK1031	Volume holder		51	VMZ30P060FCU	Screw
	18	AAB1036	Rotary knob L(VOLUME)		52	AWZ1472	Tone AMP assembly
	19	AAB1038	Rotary knob M (REC,INPUT SELECTOR)		53	AWZ1487	Power AMP assembly
	20	AAB1040	Rotary knob S (PHONO SELECTOR, BALANCE,TREBLE,BASS, SPEAKERS B)		54	AWZ1488	PHONO AMP assembly
	21	AAD1016	Tact Knob B		55	.....	.....
	22	AAD1168	Power knob (POWER)		56	ABA1047	Screw
	23	AAD1162	Push knob (LOUDNESS, ADPT1/TAPE3)		57	AKM1019	Jumper plug
	24	AAD1164	Direct knob (LINE DIRECT)		101		Input selector assembly
	25	AAM-030	Name plate		102		REC Out assembly
	26	AMB1200	Panel base		103		Speaker switch assembly
	27	AMR1160	LED Lens		104		Main volume assembly
	28	ANB1216	Front panel		105		Speaker terminal assembly
	29	ANE1075	Bonnet case		106		Power supply assembly
	30	ABE1009	Washer		107		Headphone assembly
	31	ABH1033	Coil spring A		108		.....
	32	ABH1034	Coil spring B		109		Trans frame
	33	AEC-818	Mica sheet		110		Right frame
Δ	34	AEC-882	Strain relief		111		Rear panel
					112		Panel stay
					113		Bottom plate
					114		Heat sink holder
					115		Heat sink
					116		Heat sink
					117		Spacer
					118		Cushion rubber C
					119		Binder
					120		Binder
					121		Boss
					122		Pin gromet
					123		Spacer
					124		Binder
					125		.....
					126		Cord (GND)