

SERVICE

MANUAL

AMPLIFIER

PA-2000/4000

interM

PA - 2000/4000

Reference	ITEM NO	Description	Value	Qty
MAIN B'D (4005416500)				
IC601	2128740209	IC BXA4230K	BXA4230K	1
C412 C503 C523 C102A C102B C102C C102D C102E C102F C103A C103B C103C C103D C103E C103F C109A C109B C109C C109D C109E C109F	3509102530-T	CAP CE B 0.001UF 50V J	0.001/50	21
C353 C356	3509822530-T	CAP CE F 0.0082UF 50V Z	0.0082	2
C707-708	3529104531-A	CAP CE F 100000PF 50V Z	0.1/50	2
C410-411 C413	3509101231-A	CAP CE B 100PF 50V K AXIAL	100P	3
C202 C322	3529300311-A	CAP CE SL 30PF 50V J AXIAL	30P	2
C221	3509300130-T	CAP CE SL 30PF 50V J	30P	1
C220	3409210971-T	CAP AF RSG 1UF 50V 5 P	1/50	1
C407	3529470311-A	CAP CE SL 47PF 50V J AXIAL	47P	1
C302 C108A C108B C108C C108D C108E C108F	3509561231-A	CAP CE B 560PF 50V K AXIAL	560P	7
C902 C904	(R) only		(R) only	2
C107A C107B C107C C107D C107E C107F	3529050311-A	CAP CE SL 5P 50V C AXIAL	5P	6
P1-3	4678699411	CNT PLUG 1P	PLUG 1P	3
CON201 CON351A CON702-703	4428598303	CONNECTOR WAFER LW-0640-3P	LW0640-03	4
CON801	4428596603	LOCK WAFER LW-1143-03P	LW1143-03	1
CON101-106	4428598305	CONNECTOR WAFER LW-0640-5P	LW0640-05	6
D402-403	2058010101	DIODE IN 60	1N 60	2
D401 D410-412 D701	2058100996	DIODE RECTIFIER LT1N4006(4007)	1N 4006	5
D404-409 D501-502 D505	2058304100	DIODE IN4148M	1N4148	9
C705	3409247871-T	CAP AF RSG 0.47UF 50V 5 P	0.47/50	1
C153 C355 C401 C403 C405 C501 C521 C625 C701 C706 C111A C111B C111C C111D C111E C111F	3409210971-T	CAP AF RSG 1UF 50V 5 P	1/50	16
C351-352	3409222971-T	CAP AF RSG 2.2UF 50V 5 P	2.2/50	2
C906-907 C901	(R) only		(R) only	3
C158 C201 C204 C206 C219 C223 C304 C324 C358 C408 C414-415 C525 C604 C703 C504 C104A C104B C104C	3409210071-T	CAP AF RSG 10UF 50V 5 P	10/50	28

C104D C104E C104F C105A C105B C105C C105D C105E C105F				
C505 C301	3409247971-T	CAP AF RSG 4.7UF 50V 5 P	4.7/50	2
C154 C203 C205 C222 C224-226 C303 C321 C323 C357 C402 C506 C601 C620 C624 C804 C811-812 C814 C821 C824 C106A C106B C106C C106D C106E C106F C110A C110C C110B C110D C110E C110F C825	3409210171-T	CAP AF RSG 100UF 50V 8 P	100/50	35
C354	3409247971-T	CAP AF RSG 4.7UF 50V 5 P	4.7/50	1
C704	3409222071-T	CAP AF RSG 22UF 50V 5 P	22/50	1
C801-802	3419533280 3419568280	CAP AF 3300UF 63V 25 P LUG (PA-2000) CAP AF HM 6800UF 63V 30 P LUG (PA-4000)	3300/63 68000/63	2 2
C605 C621 C628	3409247971-T	CAP AF RSG 4.7UF 50V 5 P	4.7/50	3
C406 C409 C526 C600 C702 C101A C101B C101C C101D C101E C101F	3409247071-T	CAP AF RSG 47UF 50V 6 P	47/50	11
C903 C905	(R) only		(R) only	2
FB1-12	2648609900	FERITE BEAD H5B	FILTER	12
IC201 IC301 IC351	2118010590	IC NJM4558D JRC	4558D	3
IC901	(R) only		(R) only	1
PAONO PREAMPOUT	4438098910	JACK PHONE(DAE RYUNG MA-8001)	JACK PHONE	2
MIC1PHONEJACK	4438099710	JACK HTJ 064-03B	JACK PHONE	1
VR101A VR101B VR101C VR101D VR101E VR101F	3228091210	VR RK09K111020223C	20KC	6
VR401 VR102A VR102B VR102C VR102D VR102E VR102F	3228089510	VR RK16K112000113A	10KA	7
C627	3609102120-T	CAP MA 0.001UF 100V	0.001(M)	1
C404	3609272120-T 3609562120-T	CAP MA 0.0027UF 100V J (PA-2000) CAP MA 0.0056UF 100V (PA-4000)	0.0027(M) 0.0056(M)	1 1
C502 C522	3609103120-T	CAP MA 0.01UF 100V	0.01(M)	2
C155	3609183120-T	CAP MA 0.018UF 100V	0.018(M)	1
C602-603	3609223120-T	CAP MA 0.022UF 100V J	0.022(M)	2
C157	3609473120-T	CAP MA 0.047UF 100V	0.047(M)	1
C524 C805 C813 C823 C504	3609104120-T	CAP MA 0.1UF 100V J	0.1(M)	5
IC101-103	2118010590	IC NJM4558D JRC	4558D	3
IC401	2118010590	IC NJM4558D JRC	4558D	1
R430-433	3059278783	RES CE 0.27 5W J T	0.27 5W	4
R323 R353 R100A	3009122973	RES CF 1.2K 1/5W J N (PA-2000)	1.2K	9

R355 R406 R100F R100B R100C R100D				
R323 R353 R100A R355 R406 R427-428 R100B R100C R100D R100F	3009122973	RES CF 1.2K 1/5W J N (PA-4000)	1.2K	11
R434-435	3039122472-F	RES MO 1.2K 1W J	1.2K 1W	2
R407	3009152973	RES CF 1.5K 1/5W J N	1.5K	1
R423-424	3009182973	RES CF 1.8K 1/5W J N	1.8K	2
R154 R305 R402 R504	3009101973	RES CF 100 1/5W J N	100	4
R506 R526 R623-625 R704 R713	3009104973	RES CF 100K 1/5W J N	100K	7
R903	(R) only		(R) only	1
R101A R101B R101C R101D R101E R101F	3009100973	RES CF 10 1/5W J N	10	6
R157 R307 R410 R414 R417-418 R603 R606-607 R621	3009103973	RES CF 10K 1/5W J N	10K	10
R204-205 R326 R416	3009123973	RES CF 12K 1/5W J N	12K	4
R220-221 R702 R705 R708 R714 R111A R111B R111C R111D R111E R111F	3009153973	RES CF 15K 1/5W J N	15K	12
R628	3009183973	RES CF 18K 1/5W J N	18K	1
R908 R911	(R) only		(R) only	2
R357 R412 R604	3009102973	RES CF 1K 1/5W J N	1K	3
R413	3009471973	RES CF 470 1/5W J N (PA-2000)	470	1
R413 R415	3009471973	RES CF 470 1/5W J N (PA-4000)	470	2
R901-902 R906	(R) only		(R) only	3
R904	(R) only		1K	1
R622	3009105973	RES CF 1M 1/5W J N	1M	1
R155	3009222973	RES CF 2.2K 1/5W J N	2.2K	1
R501 R521	3009224973	RES CF 220K 1/5W J N	2.2M	2
R404 R609	3009272973	RES CF 2.7K 1/5W J N	2.7K	2
R226 R426 R429	3009203973	RES CF 20K 1/5W J N	20K	3
R419 R421	3009221973	RES CF 220 1/5W J N	220	2
R354 R710	3009224973	RES CF 220K 1/5W J N	220K	2
R153 R206 R409 R524 R629 R112A R112B	3009223973	RES CF 22K 1/5W J N	22K	7
R425	3039271472-F	RES MO 270 1W J	270 1W	1
R608	3009274973	RES CF 270K 1/5W J N	270K	1
R156 R420 R601	3009273973 3009303973	RES CF 27K 1/5W J N RES CF 30K 1/5W J N	27K 30K	3 1
R358	3009332973	RES CF 3.3K 1/5W J N	3.3K	1
R104A R104B R104C R104D R104E R104F R105A R105B R105C	3009392973	RES CF 3.9K 1/5W J N	3.9K	12

R105D R105E R105F				
R202	3009303973	RES CF 30K 1/5W J N	30K	1
R151-152 R351-352 R100E R427-428	3009331973	RES CF 330 1/5W J N (PA-2000)	330	7
R151-152 R351-352 R100E	3009331973	RES CF 330 1/5W J N (PA-4000)	330	5
R801-802 R811-812	3039331572-F	RES MO 330 2W J N	330 2W	4
R822 R821	3039561572-F	RES MO 560 2W J N	560 2W	2
R503 R523 R626	3009334973	RES CF 330K 1/5W J N	330K	3
R405 R408 R605 R712	3009333973	RES CF 33K 1/5W J N	33K	4
R415	3009391973	RES CF 390 1/5W J N	390	1
R502 R522	3009393973	RES CF 39K 1/5W J N	39K	2
R707	3009302973	RES CF 3K 1/5W J N	3K	1
R209 R360 R108A R108B R108C R108D R108E R108F R109A R109B R109C R109D R109E R109F	3009472973	RES CF 4.7K 1/5W J N	4.7K	14
R905 R909	(R) only		(R) only	2
R907 R910	(R) only		(R) only	2
R620	3039471472-F	RES MO 470 1W J	470 1W	1
R158 R203 R208 R222 R225 R227 R304 R321 R324 R356 R359 R403 R600 R110A R110B R110C R110D R110E R110F	3009470973	RES CF 47 1/5W J N	47	19
R401 R411 R627 R709	3009473973	RES CF 47K 1/5W J N	47K	4
R505 R525 R102A R102B R102C R102D R102E R102F R103A R103B R103C R103D R103E R103F	3009562973	RES CF 5.6K 1/5W J N	5.6K	14
R602 R701 R703 R711	3009563973	RES CF 56K 1/5W J N	56K	4
R207 R106A R106B R106C R106D R106E R106F R107A R107B R107C R107D R107E R107F	3009682973	RES CF 6.8K 1/5W J N	6.8K	13
R301 R325	3009681973	RES CF 680 1/5W J N	680	2
R422	3009680973	RES CF 68 1/5W J N	68	1
R706	3009683973	RES CF 68K 1/5W J N (PA-2000)	68K	1
	3009184973	RES CF 180K 1/5W J N (PA-4000)	180K	1
R223 R303	3009752973	RES CF 7.5K 1/5W J N	7.5K	2
R715	3009753973	RES CF 75K 1/5W J N (PA-2000)	75K	1
R706 R715	3009753973	RES CF 75K 1/5W J N (PA-4000)	75K	2
R224	3009822973	RES CF 8.2K 1/5W J N	8.2K	1

R803 R813 R821	3009821973	RES CF 820 1/5W J N	820	3
RLY301	5528001040	RELAY RZ-24 RY24W DC24V	RY24W	1
RLY401	5528009980	RELAY HR-CR3A11 DC24H	HR311	1
EMI FILTER	3908609990	EMI FILTER 1000PF	FILTER	1
SVR601	3248322420	RES SEMI RH0615C100224	220K	1
SVR401-402	3248347120	RES RH0615C100471	470	2
SVR501-502 SVR701	3248347320	RES RH0615C100473	47K	3
SW101	4618001110	SW SV10020-0202-9T-SN	SLIDE SW	1
IC701	2118050410	IC TA7317P TOSHIBA	TA7317P	1
TP1-26			TP	26
Q410	2028407118	KTC2238A-Y-U	C2238Y	1
Q414 Q416	2028407109	TR NPN 2SC5197 TOSHIBA (PA-2000)	D718	2
	2028427998	TR 2SC 3856 W/ACC (PA-4000)	C3856	2
Q401-404 Q409	2008606108-T	KTC3200-BL-AT	C3200BL	5
Q407-408	2008407970-T	KTC1027-Y-AT	C1027Y	2
Q201-202 Q601-602	2008606101-T	KTC3198L-BL-AT	C3198BL	4
Q412 Q501-502 Q521-522	2008606104-T	TR NPN KTC3198-Y-AT TO-92	C3198Y	5
Q503 Q523	2008601600-T	TR NPN 2SD 1302R(BORS) (STYE)	D1302R	2
Q801 Q821			D880	2
Q405-406	2008206998-T	KTA1023-Y-AT	A965Y	2
Q411	2028107115	KTA968A-Y-U	A968Y	1
Q415 Q417	2028107106	TR PNP 2SB688(O)/2SA1940	B688	2
Q413	2008606105-T	TR NPN KTA1266-Y-AT TO-92	A1266Y	1
Q101A Q101B Q101C Q101D Q101E Q101F Q102A Q102B Q102C Q102D Q102E Q102F	2008206104-T	KTA1268-BL-AT	A1268BL	12
Q811	2028106111	TR PNP KTB988-Y-U TO-220AB	B988Y	1
PT101A PT101B PT101C PT101D PT101E PT101F	OPTION		OPTION	6
CON309 CON351B	(R) only		(R) only	2
CONA	4355965910	CON ASS'Y 3P 220MM B	3P	1
CON601	4428598304	WAFER LW-0640-4P	LW0640-04	1
CON107	4428598305	CONNECTOR WAFER LW-0640-5P	LW0640-05	1
CON301	4428598307	CONNECTOR WAFER LW-0640-7P	LW0640-07	1
CON351C CON351D CON702-703	4428595002	LW5267/LWB0640/2.5MM-02P	LW5267-02	4
D821	2058502120	DIODE ZENER UZ-12BM(1N5242B)	12BM	1
D801 D811	2058502160	DIODE ZENER UZ-16BM(1N5246B)	16BM	2
D620	2058502056	DIODE ZENER UZ-5.6BM(1N5232B)	5.6BM	1
CONB	4355965710	CON ASS'Y 6P 300MM B	6P	1
HEAT SINK	7505299310	HEAT SINK(30MM) REG TR	HEAT SINK	2

SUB EQ B'D (4005416400)

CON301A				1
CON301B				1

CON701	4428598303	CONNECTOR WAFER LW-0640-3P	LW0640-03	1
CR3	3509102231-A	CAP CE YB 1000PF 50V K AXIAL	0.001/50	1
	3509561231-A	CAP CE B 560PF 50V K AXIAL	560P	1
CR4	3509101231-A	CAP CE B 100PF 50V K AXIAL	100P	1
	3529104531-A	CAP CE F 100000PF 50V Z	100000P	1
CON51				1
CON52				1
C5	3409233871-T	CAP AF RSG 0.33UF 50V 5 P	0.33/50	1
C6	3409247871-T	CAP AF RSG 0.47UF 50V 5 P	0.47/50	1
C52	3409210971-T	CAP AF RSG 1UF 50V 5 P	1/50	1
C53	3409233971-T	CAP AF RSG 3.3UF 50V 5 P	3.3/50	1
C1-2 C51	3409247071-T	CAP AF RSG 47UF 50V 6 P	47/50	3
C12	3609152120-T	CAP MA 0.0015UF 100V J	0.0015(M)	1
C16	3609272120-T	CAP MA 0.0027UF 100V J	0.027(M)	1
C15	3609562120-T	CAP MA 0.0056UF 100V	0.0056(M)	1
C14	3609103120-T	CAP MA 0.01UF 100V	0.01(M)	1
C13	3609153120-T	CAP MA 0.015UF 100V J	0.015(M)	1
C7	3609273120-T	CAP MA 0.027UF 100V J	0.027(M)	1
C11	3609333120-T	CAP MA 0.033UF 100V J	0.033(M)	1
C10	3609563120-T	CAP MA 0.056UF 100V	0.056(M)	1
C8-9	3609104120-T	CAP MA 0.1UF 100V J	0.1(M)	2
IC2-3	2118010590	IC NJM4558D JRC	4558D	2
IC1	2118010590	IC NJM4558D JRC	4558D	1
R8 R10 R12 R14 R61-70 R52	3009122973	RES CF 1.2K 1/5W J N	1.2K	15
R51	3009100973	RES CF 10 1/5W J N	10	1
R3-4	3009103973	RES CF 10K 1/5W J N	10K	2
R11 R13 R15	3009123973	RES CF 12K 1/5W J N	12K	3
R7 R9	3009153973	RES CF 15K 1/5W J N	15K	2
R6	3009102973	RES CF 1K 1/5W J N	1K	1
R55	3009274973	RES CF 270K 1/5W J N	270K	1
R1-2	3009470973	RES CF 47 1/5W J N	47	2
R56-59	3009473973	RES CF 47K 1/5W J N	47K	4
SVR1-5	3238096410	VR RS25111CC00153W	50KW	5
IC51	2118031207	IC KA2281 S.S	KA2281	1
Q51	2008606104-T	TR NPN KTC3198-Y-AT TO-92	C3198Y	1

SUB SELECTOR B'D (4005416410)

CON601				1
CON602	4428596607	LOCK WAFER LW-1143-07P	LW7P	1
SW601	3228091110	SW PUSH 8TFPC-K1001CC2080	PUSH SW	1

EXTERNAL TERMINAL B'D (4005416420)

CON351	4355966311	CON ASS'Y 10P PA-4000	10P	1
JK6	4465998610	TERMINAL(SCREW)6P	TERMINAL 6P	1

SUB LED B'D (4005416440)

CON51	4355962910	CON ASS'Y 6P(LED)80MM A	6P	1
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CON52	4355962810	CON ASS'Y 7P(LED)PA2000,4000R	7P	1
D51 D62 D52	2308684246	LED REC SP SR5533 2X5 RED KOT	RED	3
D54-61	2308684286	LED REC SP SM5533 2X5 GRE KOT	GRE	8
D53	2308684316	LED REC SP SY5533 2X5 YEL KOT	YEL	1
R60	3009122973	RES CF 1.2K 1/5W J N	1.2K	1

SUB PHONE JACK B'D (4005416430)

CON201	4355965920	CON ASS'Y 3P 80MM B	3P	1
LINKIN LINKOUT	4438098910	JACK PHONE(DAE RYUNG MA-8001)	JACK PHONE	2

ASS'Y

DIODE	2058100103	DIODE KBPC-2504 LUG TYPE	KBPC25	1
THERMISTOR	2438209011	THERMISTOR YSG-503J L=100MM	YSG503	1
CON	4355965810	CON ASS'Y 7P PA-2000R,4000R	7P	1
	4355986510	CON ASS'Y 1791,1792 PA2(4)000R	CON	6
	4355972521	CON ASS'Y 2P 320MM PA-4000	2P	1
	43559393816	CON ASS'Y 9P	9P	1
JACK	4438097530	JACK XLR(BELTON)	XLR	5
END	4428200210	END SPLICE	PA-2000	4
	4428200210	END SPLICE	PA-4000	7
FUSE	4458000110	HOLDER FUSE(EDK20MM)FH-033	FUSE	1
	5508412234	FUSE 218T 20MM 1A/250V UCSKJ	PA-2000	4
	5508412734	FUSE TS 20MM 2A/250V U/C/S	PA-4000	7
SW	4628005410	SW POWER ESB-90117S	PA-4000	1
	4628034910	POWER SWITCH PS3 22SP W4CW	PA-2000	1
CAP	3549472407	CAP DE2E3KH472MA4B	0.0047/400V	2
	3609104140-T	CAP MA 0.1UF 200V J	0.1/200V	1
HOLDER	6515000630	HOLDER VOLTAGE SELECTOR	HOLDER	1
HEAT SINK	7502097410	HEAT SINK PA-2000	PA-2000	1
	7502097410	HEAT SINK PA-4000	PA-4000	1
EMI CORE	13908101980	ENMI CORE OR 18.2*602-11H SN-20	SN20	1
AC CORD	4308999610	CORD AC EURO 3 CORES	AC CORD	1
STOPPER CORD	6513000210	STOPPER CORD 3-CORES	CORD	1
PT	2828084900	TRANSFORMER POWER(0,110V,120V)	PA-2000	1
	2828084800	TRANSFORMER POWER(0,110V,120V)	PA-4000	1
OPT	2828096200	TRANS OUTPUT PA-2000	PA-2000	1
	2828096300	TRANS OUTPUT PA-4000	PA-4000	1

