

SERVICE

MANUAL

P O W E R

AMPLIFIER

CPA-9337

interM

ELECTRICAL PARTS LIST (CPA-9337)

Ref No.	Part No.	Description	Value	Qty
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AMP B'D (4002419100)

Q11-13 Q34 Q19-20 Q36	2008606104-T	KTC3198-Y-AT	3198Y	7
Q35	2008606105-T	KTA1266-Y-AT	A1266	1
Q15-16	2008606107-T	KTC3206-Y-AT	3206Y	2
Q14 Q38	2008606108-T	KTC3200-BL-AT	C3200	2
Q17-18	2028407118	KTC2238A-Y-U	2SC 2238Y	2
Q37	2028407990	KTC4370A-Y-U	4370	1
Q21-30	2028427998	TR 2SC 3856 W/ACC	2SC 3856	10
D20	2058300997	DIODE SCHOTTKY SBL-3040PT	SBL3040	1
D13-14 D15-19 D21	2058304100	DIODE IN4148M	1N 4148	8
ZD22	2058500033	DIODE ZENER UZ-3.3B(1N5226B)	3.3V	1
ZD11	2058501076	DIODE ZENER UZ-7.5B(1N5236B)	UZ7.5BM	1
ZD15-16	2058502056	DIODE ZENER UZ-5.6BM(1N5232B)	UZ5.6BM	2
ZD14	2058502100	DIODE ZENER UZ-10BM(1N5240B)	UZ 10BM	1
ZD18	2058502160	DIODE ZENER UZ-16BM(1N5246B)	UZ16BM	1
ZD19	2058502240	DIODE ZENER UZ-24BM(1N5252B)	UZ24BM	1
U14	2118010590	IC NJM4558D JRC	4558D	1
U12	2118220988	IC NJM 4580D	4580D	1
U1	2128610400	IC 7824 COMMON	7824	1
U13	2128610900	IC KA7815 COMMON	7815	1
PH102	2408000101	PHOTO COUPLER NTL5C4	NTL5C4	1
PO1	2438007995	POSISTOR PTFM04BH471Q2N34B0	50K	1
TH11-12	2438209031	THERMISTOR YSG-503J L=100	TH50K	2
IPT11	2808098300	TRANSFORMER INPUT (PA-9324)	I.P.T	1
R75	3003120953	RES CF 1.2K 1/5W FN	1.2K(1%)	1
R74	3003324953	RES CF 3.24K 1/5W F N	3.24K(1%)	1
R76	3003866953	RES CF 8.66K 1/5W FN	8.66K(1%)	1
R41	3009100973	RES CF 10 1/5W J N	10	1
R90	3009102973	RES CF 1K 1/5W J N	1K	1
R24 R26 R29 R70 R81	3009103973	RES CF 10K 1/5W J N	10K	5
R73	3009104973	RES CF 100K 1/5W J N	100K	1
R91	3009122973	RES CF 1.2K 1/5W J N	1.2K	1
R25	3009182973	RES CF 1.8K 1/5W J N	1.8K	1
R33	3009183973	RES CF 18K 1/5W J N	18K	1
R50-51	3009201973	RES CF 200 1/5W	200	2
R30	3009202973	RES CF 2K 1/5W J N	2K	1
R57-58	3009203973	RES CF 20K 1/5W J N	20K	2
R48-49	3009220973	RES CF 22 1/5W J N	22	2
R56 R59	3009222973	RES CF 2.2K 1/5W J N	2.2K	2
R88	3009223973	RES CF 22K 1/5W J N	22K	1
R54-55	3009271973	RES CF 270 1/5W J N	270	2
R38	3009271973	RES CF 270 1/5W J N	270	1
R92	3009272973	RES CF 2.7K 1/5W J N	2.7K	1
R39-40 R86	3009330973	RES CF 33 1/5W J N	33	3

R27	3009331973	RES CF 330 1/5W J N	330	1
R45	3009391973	RES CF 390 1/5W J N	390	1
R52-53	3009471973	RES CF 470 1/5W J N	470	2
R43 R89	3009471973	RES CF 470 1/5W J N	470	2
R44	3009472973	RES CF 4.7K 1/5W J N	4.7K	1
R31-32 R36-37 R77	3009473973	RES CF 47K 1/5W J N	47K	5
R71	3009563973	RES CF 56K 1/5W J N	56K	1
R84 R87	3009682973	RES CF 6.8K 1/5W J N	6.8K	2
R34-35	3009752973	RES CF 7.5K 1/5W J N	7.5K	2
R72	3009753973	RES CF 75K 1/5W J N	75K	1
R85	3009824973	RES CF 820K 1/5W J N	820K	1
R28	3009911973	RES CF 910 1/5W J N	910	1
R46-47	3039102575-T	RES MO 1K 2W J RADIAL	1K 2W	2
R82	3039200575-T	RES MO 20 2W J RADIAL	20 2W	1
R42	3039479575-T	RES MO 4.7 2W J RADIAL	4.7 2W	1
R60-69	3049278786	RES CE 0.27 5W J F MANNAE	0.27 5W	10
SVR11-12	3248310120-T	RES RH0638C100101	100B	2
SVR1	3248347320-T	RES SEMI RH0638C100473	47K	1
C23	3408247149	CAP AF SG 470UF 25V	470/25	1
C20	3408247149	CAP AF SG 470UF 25V	470/25	1
C21	3408247171	CAP RSA 470UF 50V SNAP 13 P	470/50	1
C18 C28-29	3409210071-T	CAP AF RSG 10UF 50V 5 P	10/50	3
C24-25 C75	3409210071-T	CAP AF RSG 10UF 50V 5 P	10/50	3
C22	3409210141-T	CAP AF RSG 100UF 25V 6 P	100/25	1
C35	3409210171-T	CAP AF RSG 100UF 50V 8 P	100/50	1
C30	3409222141-T	CAP AF RSG 220UF 25V J 8 P	220/25	1
C31	3409233071-T	CAP AF RSG 33UF 50V 6 P	33/50	1
C19 C107	3409247971-T	CAP AF RSG 4.7UF 50V 5 P	4.7/50	2
C32-33	3419515379	CAP E LPW 15000UF 50V JAMICON	15000/50	2
CR15	3509151231-A	CAP CE B 150PF 50V K AXIAL	100P	1
CR16-17	3509471231-A	CAP CE B 470PF 50V K AXIAL	470P	2
CR18-21	3539104531-A	CAP CE Y 10000PF 50V Z AXIAL	0.1	4
CR1-2	3539332331-A	CAP CE YR 3300PF 16V M AXIAL	3300P	2
C38	3609103120-T	CAP MA 0.01UF 100V	0.01/100(M)	1
C34	3609104122-T	CAP MA 0.1UF 100V J SMALL	M0.1	1
TP2-3 TP11-15	4225000810-T	TEST POINT (NZ0352-001Z)	TEST POINT	7
AN112	4355740913	CON ASS'Y 2P G/W	ASS'Y 2P G/W	1
AN113	4355741014	CON ASS'Y 2P Y/W	ASS'Y 2P Y/W	1
H11-14	4355874810	CONNECTOR ASS'Y 4P PA-9324	ASS'Y 4P	1
CN14 CN15-17	4428595002	LW5267/LWB0640/2.5MM-02P	LW5267-02	4
CN101	4428598307	CONNECTOR WAFER LW-0640-7P	LW0640-07	1
P11-14	4465998210	TERMINAL(250)PCB TAB	250T	2
RLY11	5528006700	RELAY 82254D0241AS-24VDC	24VDC	1

REAR B'D (4002419110)

IC101	2118010332	IC NJM 5532DD JRC	5532DD	1
PH101	2408000101	PHOTO COUPLER NTL5C4	NTL5C4	1
R105-107 R111 R118	3009103973	RES CF 10K 1/5W J N	10K	5
R113-114	3009104973	RES CF 100K 1/5W J N	100K	2
R101-102 R112 R115	3009562973	RES CF 5.6K 1/5W J N	5.6K	4
R103-104	3009822973	RES CF 8.2K 1/5W J N	8.2K	2
C111 C113-114 C117	3409210071-T	CAP AF RSG 10UF 50V 5 P	10/50	4
C103-104	3409210971-T	CAP AF RSG 1UF 50V 5 P	1/50	2
C121	3409222871-T	CAP AF RSG 0.22UF 50V 5 P	0.22/50	1
C106	3409222971-T	CAP AF RSG 2.2UF 50V 5 P	2.2/50	1
C122	3409247871-T	CAP AF RSG 0.47UF 50V 5 P	0.47/50	1
C101-102 C108	3509102530-T	CAP CE B 0.001UF 50V J	0.001/50	3
C105	3509121130-T	CAP CE SL 120P 50V J	120P	1
C116	3509509030-T	CAP CE SL 5PF 50V J	5P	1
C120	3609103120-T	CAP MA 0.01UF 100V	0.01/100(M)	1
AN101	4355740200	CON ASS'Y 7P 270MM	ASS'Y 7P	1
AN111	4355740814	CON ASS'Y 2P BIR	ASS'Y 2P	1
AN106	4355741316	CON ASS'Y 3P 350MM	ASS'Y 3P	1
AN110	4355741407	CON ASS'Y 3P 150MM	ASS'Y 3P	1
H1	4355795713	CON ASS'Y 1P WHI #14 250-TER	WIRE 1P WHITE	1
H2	4355833215	CON ASS'Y 1P BLK #14 250-TER	WIRE 1P BLACK	1
DCIN1	4438094610	DC TERMINAL 2P	TERMINAL/DC	1
P5-6	4465998210	TERMINAL(250)PCB TAB	250T	2
SW101-103	4618001110	SW SV10020-0202-9T-SN	SV10020	3
F2-3	5508424230	FUSE TS 31.8MM 15A/250V KS	15A/250V	2
FUSE CLIP	4255000410	FUSE CLIP 6*31.8	FUSE CLIP	4

LED B'D (4002419120)

Q210	2008206105-T	TR PNP KAT 1268	KTA 1268	1
Q202 Q204-208	2008606104-T	KTC3198-Y-AT	3198Y	6
Q212	2008613954-T	TR DTC 124ES	DTC 124ES	1
Q211	2008613955-T	TR DTA 124ES	DTA 124ES	1
D202-203 D212-213	2058502120	DIODE ZENER UZ-12BM(1N5242B)	UZ 12BM	4
D204 D209-210	2300050105	LED LTL-307E-041A LITEON	RED(R5)	3
D206-207 D211	2300052105	LED LTL-307G-041A LITEON	GRN(R5)	3
D205	2301053105	LED SLA-114L SHINYOUNG (ORG)	ORG(R5)	1
D208	2305050005	LED SLR113L-FAI	RED(R5)	1
R213	3009102973	RES CF 1K 1/5W J N	1K	1
R231 R235 R245	3009182973	RES CF 1.8K 1/5W J N	1.8K	3
R217-220 R228-229	3009202973	RES CF 2K 1/5W J N	2K	6
R215	3009331973	RES CF 330 1/5W J N	330	1
R232	3009473973	RES CF 47K 1/5W J N	47K	1

R211-212 R230 R236	3009682973	RES CF 6.8K 1/5W J N	6.8K	4
R233-234	3039222572	RES MO 2.2K 2W JN T.H	2.2K 2W	2
C205-206 C208-209	3409247971-T	CAP AF RSG 4.7UF 50V 5 P	4.7/50	4
AN115	4435741606	CON SOCKET 6P (163681-4)	SOCKET 6P	1
AN116	4435741608	CON SOCKET 8P (163681-6)	SOCKET 8P	1

SUB LED B'D (4002419130)

Q301 Q309	2008606104-T	KTC3198-Y-AT	3198Y	2
Q303	2008613954-T	TR DTC 124ES	DTC 124ES	1
D301	2058502120	DIODE ZENER UZ-12BM(1N5242B)	UZ 12BM	1
IC303-306	2118010590	IC NJM4558D JRC	4558D	4
R301 R342	3002330953	RES CF 33K 1/5W FN PL-2404	33K 1%	2
R302 R343	3003820953	RES CF 8.2K 1/5W FN	8.2K 1%	2
R322 R326 R340	3009102973	RES CF 1K 1/5W J N	1K	3
R337	3009103973	RES CF 10K 1/5W J N	10K	1
R304 R339	3009104973	RES CF 100K 1/5W J N	100K	2
R309	3009150973	RES CF 15 1/5W J N	15	1
R305	3009152973	RES CF 1.5K 1/5W J N	1.5K	1
R303	3009183973	RES CF 18K 1/5W J N	18K	1
R347	3009202973	RES CF 2K 1/5W J N	2K	1
R338	3009242973	RES CF 2.4K 1/5W J N	2.4K	1
R308	3009302973	RES CF 3K 1/5W J N	3K	1
R341	3009303973	RES CF 30K 1/5W J N	30K	1
R344	3009334973	RES CF 330K 1/5W J N	330K	1
R323	3009391973	RES CF 390 1/5W J N	390	1
R307 R348 R351	3009472973	RES CF 4.7K 1/5W J N	4.7K	3
R349-350	3009473973	RES CF 47K 1/5W J N	47K	2
R346	3009681973	RES CF 680 1/5W J N	680	1
R310	3009682973	RES CF 6.8K 1/5W J N	6.8K	1
R306	3009822973	RES CF 8.2K 1/5W J N	8.2K	1
C301 C311 C315	3409210071-T	CAP AF RSG 10UF 50V 5 P	10/50	3
C302	3409210971-T	CAP AF RSG 1UF 50V 5 P	1/50	1
C312	3409222141-T	CAP AF RSG 220UF 25V J 8 P	220/25	1
C303-304	3409247071-T	CAP AF RSG 47UF 50V 6 P	47/50	2
C313	3409247971-T	CAP AF RSG 4.7UF 50V 5 P	4.7/50	1
C307 C310	3509100130-T	CAP CE SL 10PF 50V D	10P	2
C316	3509101130-T	CAP CE SL 100PF 50V J	100P	1
C314	3609223120-T	CAP MA 0.022UF 100V J	0.022/100(M)	1
AN103	4355772303	CON ASS'Y 4P 100MM,AN103	ASS'Y 4P	1
CN111-113	4428594902	LA5268/LAB0640/2.5MM-02P	LA5268-02	3
CN114	4428594903	LA5268/LAB0640/2.5MM-03P	LA5268-03	1
CN115	4435741406	PIN HEADER 6PIN PH04-265-06A	HEADER 6P	1
CN116	4435741408	PIN HEADER 8PIN PH04-265-08A	HEADER 8P	1

INPUT B'D (4002419140)

TER100	4408193906	TERMINAL BLOCK(M) 6P	BLOCK(M) 6P	1
TER100A	4408194006	TERMINAL BLOCK(F) 6P	BLOCK(F) 6P	1
CN110	4428595003	LW5267/LWB0640/2.5MM-03P	LW5267-03	1

OUTPUT B'D (4002419150)

J1-4	1508400501	JUMP WIRE(0.5/52M/M)	JUMPER	4
L500	2648699400	COIL INDUCTOR 5MH,BI	5.3mH	1
R500	3059101776	RES WWCE 100 5W J T	100 5W	1
C503	3409222141-T	CAP AF RSG 220UF 25V J 8 P	220/25	1
C500	3509103450-T	CAP CE 0.01UF 500V Z	0.01/500	1
C501-502	3609473160	CAP MA 0.047UF 400V J	0.047/400(M)	2
AN114	4355741216	CON ASS'Y 2P 350MM	ASS'Y 2P	1
CN107	4355923805	WAFER LW(3.96) 5P JIS	LW1143-05	1
TER500	4408193904	TERMINAL BLOCK(M) 4P	BLOCK(M) 4P	1
TER500A	4408194004	TERMINAL BLOCK(F) 4P	BLOCK(F) 4P	1
P10 P10A	4465998210	TERMINAL(250)PCB TAB	250T	2

VR B'D (4002419160)

R400	3009103973	RES CF 10K 1/5W J N	10K	1
VR400	3228070100	VR RK16311E0Z0113B (21DETENT)	10KB	1
CN106	4428595003	LW5267/LWB0640/2.5MM-03P	LW5267-03	1

POWER LED B'D (4002419170)

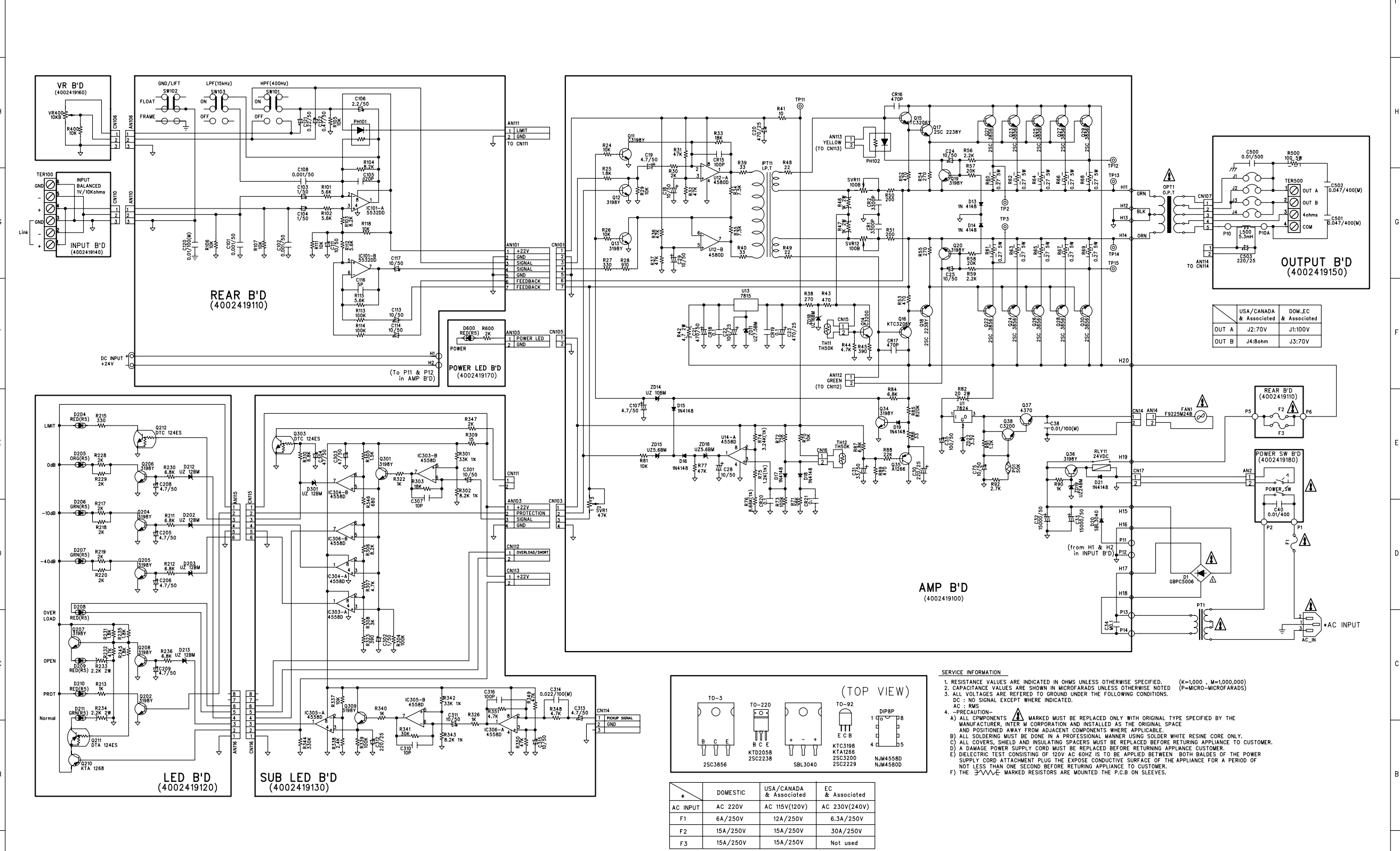
D600	2300050101	LED LTL-307E-012A	RED(R5)	1
R600	3009202973	RES CF 2K 1/5W J N	2K	1
AN105	4353986914	CON ASS'Y 2P	ASS'Y 2P	1

POWER SW B'D (4002419180)

C40	3549103107	CAP DE2F3KH103MA4B	0.01/400	1
AN2	4355818817	CON ASS'Y 2P	ASS'Y 2P	1
P1-2	4465998210	TERMINAL(250)PCB TAB	250T	2
SW3	4648098210	SW POWER JPP 2197BCS32	POWER SW	1

ASS'Y

D1	2058199900	DIODE BR 50A 600V GBPC5006 TSC	GBPC5006	1
AN14	4355799801	CON ASS'Y 2P FAN	ASS'Y 2P FAN	1
CONNECTOR	4355795614	CON ASS'Y 1P BRN #18 250-250		
	4355795508	CON ASS'Y 1P Y-G #18 250-RING		
	4355833109	CON ASS'Y 1P RED #14 250-TER		
	4355874905	CONNECTOR ASS'Y 1P PA-9324		
	4355833207	CON ASS'Y 1P (BLACK)		
	4678699411	CNT PLUG 1P		
	4355875112	CON ASS'Y 1P ORG #14 250-TER		
	4355833107	CON ASS'Y 1P (RED)		
	4355875101	CONNECTOR ASS'Y 1P		
	4355741101	CON ASS'Y 1P 50MM		
	4355740705	CON ASS'Y 2P BLK		
HEAT SINK	7502091920	HEAT SINK (CPA-9337)		
F1	5508113430	FUSE 21GT T20MM 6A/250V UCK	6A/250V	1
FAN1	7308998310	FAN F9225M24B/3610KL05WB40P00	F9225M24B	1
OPT1	2818088900	TRANS OUTPUT PA-9336	O.P.T	1
PT1	2828068720	TRANS POWER PA-9336 (220V)	TRANS POWER	1
AC INLET	4448996710	AC INLET (6200,2300) SYS-6004	6200.2300	1
AC CORD	4308997310	AC CORD DOME 3-CORES	AC CORD	



	USA/CANADA & Associated	DOM.EC & Associated
OUT A	J2:70V	J1:100V
OUT B	J4:8ohm	J3:70V

SERVICE INFORMATION

- RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED. (K=1,000, M=1,000,000)
- CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED (P=MICRO-MICROFARADS)
- ALL VOLTAGES ARE REFERRED TO GROUND UNDER THE FOLLOWING CONDITIONS.
DC : NO SIGNAL EXCEPT WHERE INDICATED.
AC : RMS
- PRECAUTION-
A) ALL COMPONENTS MARKED WITH A TRIANGLE MUST BE REPLACED ONLY WITH ORIGINAL TYPE SPECIFIED BY THE MANUFACTURER, INTER M CORPORATION AND INSTALLED AS THE ORIGINAL SPACE AND POSITIONED AWAY FROM ADJACENT COMPONENTS WHERE APPLICABLE.
B) ALL SOLDERING MUST BE DONE IN A PROFESSIONAL MANNER USING SOLDER WHITE RESINE CORE ONLY.
C) ALL COVERS, SHIELD AND INSULATING SPACERS MUST BE REPLACED BEFORE RETURNING APPLIANCE TO CUSTOMER.
D) A DAMAGE POWER SUPPLY CORD MUST BE REPLACED BEFORE RETURNING APPLIANCE TO CUSTOMER.
E) DIELECTRIC TEST CONSISTING OF 120V AC 60HZ IS TO BE APPLIED BETWEEN BOTH BALDES OF THE POWER SUPPLY CORD ATTACHMENT PLUG THE EXPOSE CONDUCTIVE SURFACE OF THE APPLIANCE FOR A PERIOD OF NOT LESS THAN ONE SECOND BEFORE RETURNING APPLIANCE TO CUSTOMER.
F) THE TRIANGLE MARKED RESISTORS ARE MOUNTED THE P.C.B ON SLEEVES.

*	DOMESTIC	USA/CANADA & Associated	EC & Associated
AC INPUT	AC 220V	AC 115V(120V)	AC 230V(240V)
F1	6A/250V	12A/250V	6.3A/250V
F2	15A/250V	15A/250V	30A/250V
F3	15A/250V	15A/250V	Not used

△ CHG D1 KBPC3504 --> GBPC5006

CPA-9337 MAIN B'D (4002419100)

