

SERVICE

MANUAL

P O W E R
AMPLIFIER

M-500/700/1000

interM

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ELECTRICAL ADJUSTMENT PROCEDURE

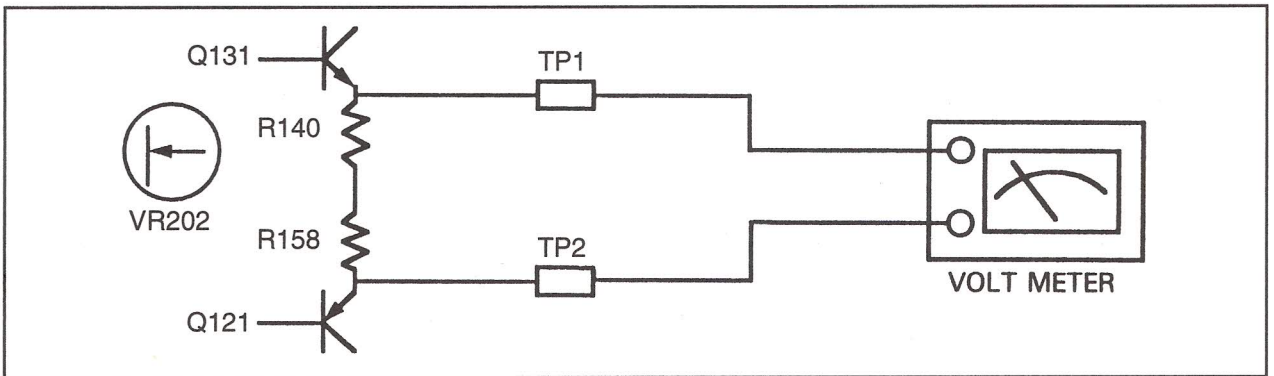
■ IDLE CURRENT

1. Setting

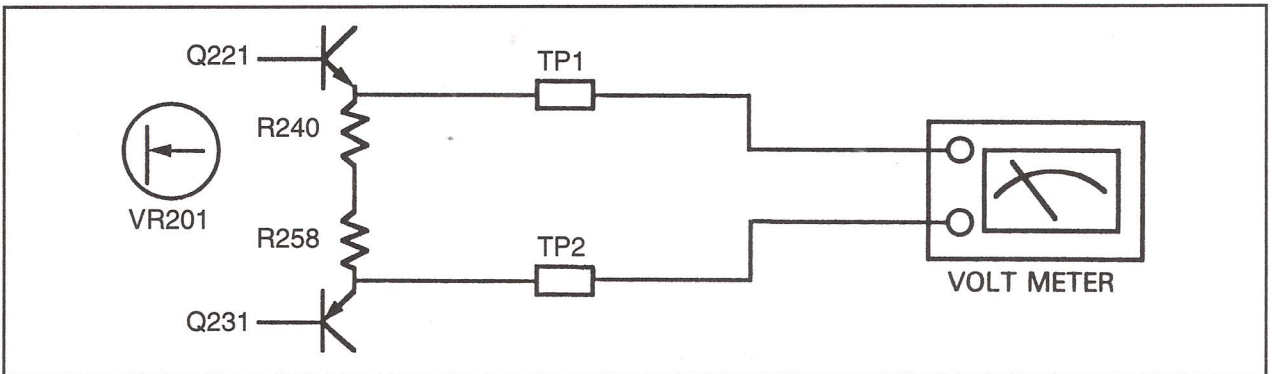
Set the master volume controls minimum.

2. Connection

M-500

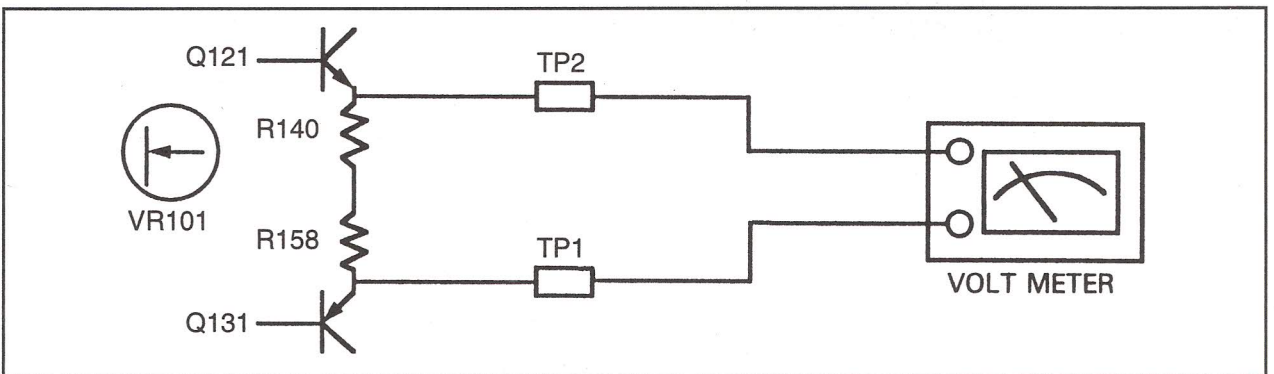


CHANNEL 1



CHANNEL 2

M-700/1000



CHANNEL 1, 2

3. Adjustment

Adjust VR101 (VR201, 202) so that the current through the R140, R158 (R240, R258) and R140, R158 become 10 milliamperes.

When that voltage across the TP1 to TP2 becomes 10 millivolt, the current becomes 10 milliamperes.

SPECIFICATIONS

	M-500	M-700	M-1000
Power Output Level f=1KHz, THD+N ≤0.05%(Typical) STEREO RL=8Ω RL=4Ω BRIDGED RL=8Ω One Channel Driven f=1KHz, THD+N ≤0.05% RL=8Ω	150W+150W 250W+250W 500W 150W	220W+220W 350W+350W 700W 250W	330W+330W 500W+500W 1000W 350W
Frequency Response RL=8Ω, P=1W	0dB+0.5, -1.5dB: f=DC~55KHz		
Power Bandwidth Half Power, THD+N ≤0.1% STEREO RL=8Ω	10Hz~70KHz		
Total Harmonic Distortion (THD+N) f=20Hz~20KHz, Half Power STEREO RL=8Ω RL=4Ω BRIDGED RL=8Ω	≤ 0.05% ≤ 0.07% ≤ 0.07%		
Channel Separation Half Power RL=8Ω f=1KHz, ATT. max. Input 600Ω shunt	≥ 80dB		
Residual Noise (DIN Audio Filter)	≤ -70dB: ATT min		
Signal-to-Noise Ratio DIN Audio, Input 600Ω Shunt	≥ 100dB		
Damping Factor RL=8Ω, f=1KHz	≥ 150		
Slew Rate 8Ω Full Swing STEREO BRIDGED	± 40V/μs		
Sensitivity(ATT max.) Rated Power into 4Ω 1KHz	0dBm		
Voltage Gain (ATT max.) 4Ω 1KHz	32dB	33.5dB	35dB
Input Impedance (ATT max.)	≥ 20KΩ(Balance/Unbalance)		
Indicators	Power Protection(Mute)X2 Clip x 2 Signal x 4	(Red) (Red) (Orange) (Green)	
Protection	Power SW ON/OFF muting Heatsink Temp ≥ 100° C(212° F)		
PC Limiter	RL < 2Ω		
Fan Circuit	-50° C(122° F)-60° C(140° F)- Low-Speed - Variable - Hi-Speed		
Controls	(Front) Power SW: Push up On/Push down OFF Attenuator: 21-position dB calibrated (Rear) Mode Sw: Bridge=BLT/STEREO/PARALLEL		
Power Source	UL & Canadian Model: 120V, 60Hz General Model: 230V, 50Hz British Model: 240V, 50Hz		
Power Consumption	420W	520W	770W
Weight	12Kg	15Kg	17Kg
Dimesions	482(W)x88(H)x369(D)mm		
Connectors	Input XLR-3-31 type + 1/4" Phone(BAL), XLR Output 5-Way binding posts x 2, Speakon Terminal x 2		

0dB=0.775Vrms, Half Power=1/2Power Output Level(Rated Power)

*Using reactive 2Ω speakers at high power levels may cause overheating, excessive power consumption, and shutdowns.

Please note that below 2Ω the PC limiter will work. Before using 2Ω speakers in a real application, test the system completely

ELECTRICAL PARTS LIST

Ref No.	Part No.	Description	Q'TY
M500 AMP B'D (4005187700)			
Q106 Q206	2008206997-T	TR/PNP/KTA949Y,KTA 949Y	2
Q103 Q137 Q203 Q237	2008207100-T	TR/PNP/2SA970BL,2SA 970BL	4
Q105 Q205	2008400960	TR/NPN/2SC1567A,2SC 1567A	2
Q107 Q207	2008606107-T	TR/NPN/KTC2229Y,KTC 2229Y	2
Q127 Q227	2008606108-T	TR/NPN/KTC2240BL,KTC 2240BL	2
Q102 Q111 Q202 Q211	2028107984	TR/PNP/2SA1553,2SA 1659	4
Q131-133 Q231-233	2028117994	TR/PNP/2SA1492,2SA 1492	6
Q101 Q104 Q108 Q201	2028407990	TR/NPN/KTC4375/C,KTC 4370	6
Q204 Q208			
Q121-123 Q221-223	2028427998	TR/NPN/2SC3856/A,2SC 3856	6
Q110 Q210	2028611998	FET/PC/2SJ78,2SJ 78	2
Q109 Q209	2028811998	FET/NC/2SK215,2SK 215	2
D125-126 D225-226	2058100110	DIODE/DRL,PS207	4
D101 D105-106 D134	2058100996	D/1N4006,1N 4006	8
D201 D205-206 D234			
D103-104 D107-114	2058304100	D/1N4148,1N 4148	26
D119-120 D123			
D203-204 D207-214			
D219-220 D223			
D121-122 D221-222	2058322100	D/ISS142,ISS 142	4
D116 D118 D216 D218	2058502100	ZD/UZ10BM,UZ 10BM	4
IC101 IC201	2118010232	NJM072D,NJM 072D	2
TH101	2438007993	TH,BE222TS	1
TH102	2438007995	TH,BH471TS	1
L101 L201	2648099940	COIL,1.2uH	2
R126 R226	3009102973	R1KJ,1K	2
R116-117 R179	3009104973	R100KJ,100K	5
R216-217			
R102 R202	3009113973	R11KJ,11K	2
R104 R124 R204 R224	3009121973	R120J,120	4
R107 R207	3009133973	R13KJ,13K	2
R106 R206	3009202973	R2KJ,2K	2
R108 R208	3009222973	R2.2KJ,2.2K	2
R109 R209	3009223973	R22KJ,22K	2
R103 R203	3009331973	R330J,330	2
R122-123 R222-223	3009393273	R39KJ1/4W,39K 1/4W	4
R101 R201	3009561973	R560J,560	2
R118-119 R125	3009562973	R5.6KJ,5.6K	6
R218-219 R225			
R111-112 R211-212	3009564973	R560KJ,560K	4
R172-173 R272-273	3009823973	R82KJ,82K	4
R127-128 R227-228	3039223475	R22KJ1WMOF,22K 1W	4
R174 R274	3039479572-F	R4.7J2WMOF,4.7 2W	2
R140-142 R158-160	3049478783	R0.47J5WCEA,0.47 5W	12
R240-242 R258-260			
R121 R221	3079121275	R120J1/4WFR,FR 120	2
R105 R110 R129-130	3079151275	R150J1/4WFR,FR 150	8
R205 R210 R229-230			
R115 R131-132 R215	3079470275	R47J1/4WFR,FR 47	6
R231-232			
R114 R214	3079680275	R68J1/4WFR,FR 68	2
R120 R146-148	3089101275	R100J1/4WFR,FR 100	14
R164-166 R220			
R246-248 R264-266			
R133 R233	3089150275	R15J1/4WFR,FR 15	2
R113 R213	3089331275	R330J1/4WFR,FR 330	2
R170-171 R270-271	3089332275	R3.3KJ1/4WFR,FR 3.3K	4
R134-136 R152-154	3089479275	R4.7J1/4WFR,FR 4.7	12
R234-236 R252-254			
VR101 VR201	3248310320	K09/103B/HBF30,10KB	2
C103 C105 C203 C205	3409210141-T	EC100/25RSG,100/25	4
C101 C201	3409247071-T	EC47/50RSG,47/50	2
C106-109 C206-209	3409247971-T	EC4.7/50RSG,4.7/50	8
CR102 CR115-116	3509101231-A	CE100P50SL,100P	6
CR201 CR215-216			
CR113 CR213	3509509030-T	CE5P50SL,5P	2
CE223 CR123	3529220311-A	CE22P50SL,22P	2
CR104 CR204	3529330311-A	CE33P50SL,33P	2
CR110 CR210	3529680311-A	CE68P50SL,68P	2

Ref No.	Part No.	Description	Q'TY
C118-119 C218-219	3609273120-T	MA0.027/100T,0.027/100(M)	4
C111-112 C117 C120	3609472120-T	MA0.0047/100T,0.0047/100(M)	8
C211-212 C217 C220			
C114 C214	3609473120-T	MA0.047/100T,0.047/100(M)	2
AN203 CN202	4428595003	WAFER2/3P,WAFMW3P2.54	2
CN101 CN201	4428595004	WAFER/4P,WAFMW4P2.54	2
CN102	4428595006	WAFER/6P,WAFMW6P2.54	1
CN105	4428596606	CON/6P,WAFHW6P3.96	1
M500 POWER B'D(4005187600)			
Q501 Q504	2008606108-T	R/NPN/KTC2240BL,KTC 2240BL	2
Q503	2028406113	TR/NPN/KTD2058Y,KT D 2058Y	1
Q502	2028407990	TR/NPN/KTC4375/C,KTC 4370	1
BD501-502	2058100987	BD/KPBP152,KPBP 152	2
D124 D501-504	2058100996	D/1N4006,1N 4006	7
D506-507			
D505	2058502240	ZD/UZ24BM,UZ 24BM	1
IC503	2118050410	TA7317P,TA 7317P	1
IC502	2128610800	IC/7815,7915	1
IC501	2128610900	IC/7815,7815	1
PO501-502	2438200515	RESTH,TH5D-15	2
R503	3009102973	R1KJ,1K	1
R507 R514	3009104973	R100KJ,100K	2
R501	3009122973	R1.2KJ,1.2K	1
R511	3009184973	R180KJ,180K	1
R509-510 R512-513	3009223973	R22KJ,22K	6
R515-516			
R505	3009473973	R47KJ,47K	1
R504	3009682973	R6.8KJ,6.8K	1
R502 R506 R508	3009822973	R8.2KJ,8.2K	3
C514	3408210261	EC1000/35RSG,1000/35	1
C526-527	3408247161	EC470/35RSA,470/35	2
C515 C528-529	3409210071-T	EC10/50RSG,10/50	3
C532	3409210171-T	EC100/50RSG,100/50	1
C524-525	3409222171-T	EC220/50RSG,220/50	2
C516 C531 C533	3409247071-T	EC47/50RSG,47/50	3
C534-535	3409810141-T	EC100/25NP,100/25 NP	2
C502 C504	3419510300	EC10000/80HM,10000/80	2
C510-513 C520-523	3509472530-T	CEO.0047/50F,0.0047/50	8
C505-506	3619474153	PLO.47/250TM,0.47/250	2
P501	4355789207	PIN(1P),ASS;Y1P	1
P502-503	4355789306	PIN(1P),ASS;Y1P	2
P504	4355789403	PIN(1P),ASS;Y1P	1
AN403	4355797219	WAFER/6P,ASS;Y6P	1
AN202	4355797219	WAFER2/3P,ASS;Y3P	1
AN102	4355801014	WAFER/6P,ASS;Y6P	1
CN501	4428595003	WAFER2/3P,WAFMW3P2.54	1
CN503	4428595009	CON/9P,WAFMW9P2.54	1
CN504	4428596604	WAF2/4P,WAFHW4P3.96	1
AN105	4428596606	CON/6P,WAFHW6P3.96	1
P51-53	4465998210	PIN(1P),250T	3
F501-503	5508412234	FUSE,T1AL/250V	3
RY501	5528009950	RLY-CR323-DC24V,CR323-DC24V	1
RY503	5528009993	RLY/G2E-5V,HR-CR6	1
RY503	5528009993	RLY/G2E-5V,HR-CR6	1
M500 INPUT B'D(4005187610)			
IC301-303	2118010432	NJM2068DD,NJM 2068DD	3
R307 R357 R370	3009101973	R100J,100	3
R308 R358	3009103973	R10KJ,10K	2
R318	3009104973	R100KJ,100K	1
R302 R352	3009105973	R1M,1M	2
R303-306 R309	3009153973	R15KJ,15K	12
R353-356 R359			
R368-369			
R366-367	3009303973	R30KJ,30K	2
R312 R362	3009333973	R33KJ,33K	2
R316-317	3009563973	R56KJ,56K	2
R301 R351	3009823973	R82KJ,82K	2
C307 C357	3409210071	TEC10/50RSG,10/50	2
C301-302 C306 C311	3409210141	TEC100/25RSG,100/25	7

Ref No.	Part No.	Description	Q'TY
C351-352 C356			
C309	3409247071-T	EC47/50RSG,47/50	1
C303 C353	3529050311-A	CE5P50SL,5P	2
C320 C370	3529103531-A	CE10000P25FA,10000P	2
C304-305 C354-355	3529220311-A	CE22P50SL,22P	5
C359			
C310	3529330311-A	CE39P50SL,33P	1
C308 C358 C360	3529470311-A	CE47P50SL,47P	3
COIL1-4	3908609980	COIL-A,EMI FILTER 2200PF	4
AN404	4355789717	WAFER/3P,ASS;Y3P	1
AN405	4355789721	WAFER/3P,ASS;Y3P	1
AN101	4355789806	WAFER/4P,ASS;Y4P	1
AN201	4355789818	WAFER/4P,ASS;Y4P	1
JK302 JK304	4408194310	JACK/XLR/F,XLR (M)	2
JK301 JK303	4438090310	JACK/XLR/F,COMBO	2
SW301	4618999910	SW/8P,SLIDE2POLE	1

M500 VR B'D(4005187620)

Q401-404 Q451-454	2008606104-T	TR/NPN/KTC3198Y,KTC 3198Y	8
D401-402 D451-452	2058304100	D/1N4148,1N 4148	4
D403 D453	2058502150	ZD/UZ15BM,UZ 15BM	2
IC401	2118010332	NJM5532DD,NJM 5532DD	1
LD401	2300050105	LD/R/SLR54UR,R5RE	1
R401 R404 R409-410	3009102973	R1KJ,1K	8
R451 R454 R459-460			
R402 R407 R452 R457	3009104973	R100KJ,100K	4
R403 R406 R453 R456	3009222973	R2.2KJ,2.2K	4
R408 R458	3009273973	R27KJ,27K	2
R405 R455	3009331973	R330J,330	2
R421-422	3009472973	R4.7KJ,4.7K	2
VR401-402	3227075410	K09/103A/1110,10KB	2
C403 C405 C453 C455	3409210071-T	EC10/50RSG,10/50	4
C401-402 C451-452 3	409247971-T	EC4.7/50RSG,4.7/50	4
C404 C454	3609104120-T	MA0.1/100T,0.1/100(M)	2
CN203 CN404-405	4428595003	WAFER2/3P,WAFMW3P2.54	3
CN401-402	4428595005	WAFER/5P,WAFMW5P2.54	2
CN403	4428595006	WAFER/6P,WAFMW6P2.54	1

M500 LED1 B'D(4005187630)

LD604	2300050105	LD/R/SLR54UR,R5RE	1
LD601-602	2300052105	LD/G/SLR54GG,R5GR	2
LD603	2300053105	LD/R/SLR54UR,R5OR	1
R601-606	3009392973	R3.9KJ,3.9K	6
R607-610	3009472973	R4.7KJ,4.7K	4
AN401	4355824503	WAFER/5P,ASS'Y5P	1

M500 LED2 B'D(4005187640)

LD704	2300050105	LD/R/SLR54UR,R5RE	1
LD701-702	2300052105	LD/G/SLR54GG,R5GR	2
LD703	2300053105	LD/R/SLR54UR,R5OR	1
R701-706	3009392973	R3.9KJ,3.9K	6
R707-710	3009472973	R4.7KJ,4.7K	4
AN402	4355824503	WAFER/5P,ASS'Y5P	1

M500 OUTPUT B'D(4005187650)

R801-804	3039100572-F	R10J2WMOF,10 2W	4
C805-806	3509103530-T	CE0.01/50F,0.01/50	2
C801 C803	3609104122-T	MA0.1/100T,0.1/100(M)	2
AN504	4428596604	WAF2/4P,WAFHW4P3.96	1
SP1-2	4438090210	SP-TERMINAL(2P),SP-TER2P	2
JK1-2	4438091710	JACK-4P,SPEAKON	2

M500 ASS'Y

BD100	2058100103	BD/KBPC2504,KBPC 2504	1
PT1	2828067200	PT/M500 (100V)	1
	2828067210	PT/M500 (120V)	1
	2828067220	PT/M500 (220V)	1
	2828067230	PT/M500 (230V)	1
	2828067240	PT/M500 (240V)	1
C1	3549472407	CAP/C1,0.0047/400	1
CON ASS'Y	4355789116	CON ASS'Y AC	1

Ref No.	Part No.	Description	Q'TY
CON ASS'Y	4355893013	CON ASS'Y 6P POWER	1
CON ASS'Y	4355892906	CON ASS'Y 4P	1
CON ASS'Y	4355915905	SCOKET TERMINAL BROWN	1
CON ASS'Y	4355789603	CON ASS'Y 3P FAN	1
INLET1	4448997410	AC,AC INPUT	1
SW101	4625996611	SW/PO/SPST1,POWER SWITCH	1
F101	5568223433	CIRCUIT BREAKER 6A(220,230V)	1
	5568224533	CIRCUIT BREAKER 10A(120V)	1
	5568224833	CIRCUIT BREAKER 15A(100V)	1
FAN1	7308998910	FAN,F8025X24B	1

M-700/1000 AMP B'D(4005187900)

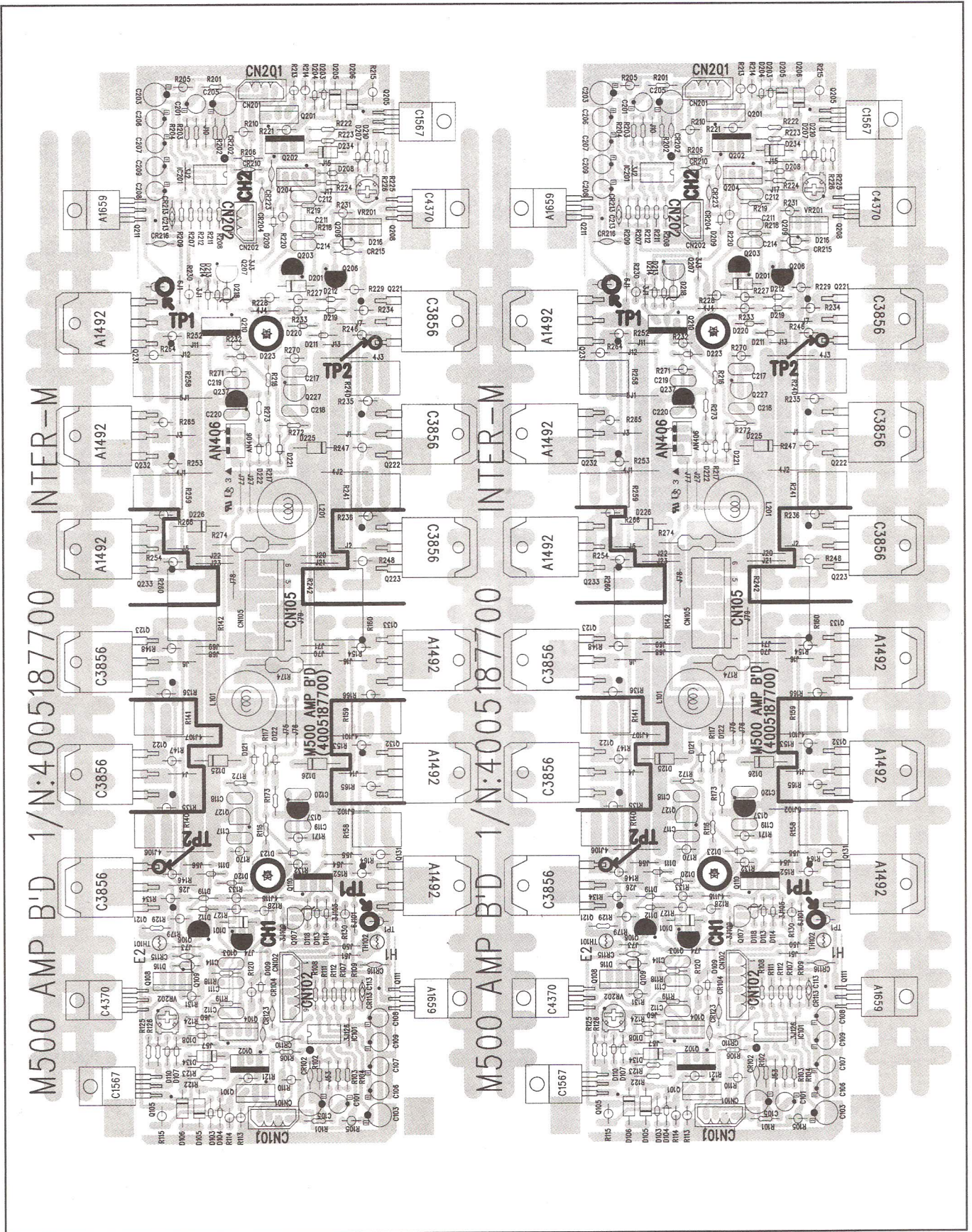
Q106	2008206997-T	TR/PNP/KTA949Y,KTA 949Y	1
Q103 Q137	2008207100-T	TR/PNP/2SA970BL,2SA 970BL	2
Q105	2008400960	TR/NPN/2SC1567A,2SC 1567A	1
Q107	2008606107-T	TR/NPN/KTC2229Y,KTC 2229Y	1
Q127 Q138	2008606108-T	TR/NPN/KTC2240BL,KTC 2240BL	2
Q102 Q111	2028107984	TR/PNP/2SA1553,2SA 1659	2
Q131 Q133 Q135	2028117994	TR/PNP/2SA1492,2SA 1492	3
(for M700)			
Q131-135(for M1000)	2028117994	TR/PNP/2SA1492,2SA 1492	5
Q101 Q104 Q108	2028407990	TR/NPN/KTC4375/C,KTC 4370	3
Q121 Q123 Q125	2028427998	TR/NPN/2SC3856/A,2SC 3856	3
(for M700)			
Q121-125(for M1000)	2028427998	TR/NPN/2SC3856/A,2SC 3856	5
Q110	2028611998	FET/PC/2SJ78,2SJ 78	1
Q109	2028811998	FET/NC/2SK215,2SK 215	1
D125-126	2058100110	DIODE/DRL,PS207	2
D101 D105-106 D124	2058100996	D/1N4006,1N 4006	5
D134			
D103-104 D107-114	2058304100	D/1N4148,1N 4148	13
D119-120 D123			
D121-122	2058322100	D/ISS142,ISS 142	2
D116 D118	2058502100	ZD/UZ10BM,UZ 10BM	2
IC101	2118010232	NJM072D,NJM 072D	1
IC102	2118050410	TA7317P,TA 7317P	1
TH101	2438007993	TH,BE222TS	1
TH102	2438007995	TH,BH471TS	1
L101	2648099940	COIL,1.2uH	1
R126	3009102973	R1KJ,1K	1
R116-117 R177 R179	3009104973	R100KJ,100K	5
R184			
R102	3009113973	R11KJ,11K	1
R104 R124	3009121973	R120J,120	2
R178	3009184973	R180KJ,180K	1
R106	3009202973	R2KJ,2K	1
R107(for M700)	3009133973	R13KJ,13K	1
R109(for M700)	3009223973	R22KJ,22K	1
R107 R109(for M1000)	3009203973	R20KJ,20K	2
R108	3009222973	R2.2KJ,2.2K	1
R175-176 R185	3009223973	R22KJ,22K	3
R103	3009331973	R330J,330	1
R122-123	3009393273	R39KJ1/4W,39K 1/4W	2
R181	3009473973	R47KJ,47K	1
R101	3009561973	R560J,560	1
R118-119 R125	3009562973	R5.6KJ,5.6K	3
R111-112	3009564973	R560KJ,560K	2
R180	3009682973	R6.8KJ,6.8K	1
R182-183	3009822973	R8.2KJ,8.2K	2
R172-173(for M700)	3009473973	R47KJ,47K	2
R172-173(for M1000)	3009823973	R82KJ,82K	2
R127-128	3039223475	R22KJ1WMOF,22K 1W	2
R174	3039479572-F	R4.7J2WMOF,4.7 2W	1
R140 R142 R144 R158	3049478783	R0.47J5WCEA,0.47 5W	6
R160 R162(for M700)			
R140-144 R158-162	3049478783	R0.47J5WCEA,0.47 5W	10
R121	3079121275	R120J1/4WFRR,FR 120	1
R105 R110 R129-130	3079151275	R150J1/4WFRR,FR 150	4
R115 R131-132	3079470275	R47J1/4WFRR,FR 47	3
R114	3079680275	R68J1/4WFRR,FR 68	1
R120 R146 R148 R150	3089101275	R100J1/4WFRR,FR 100	7

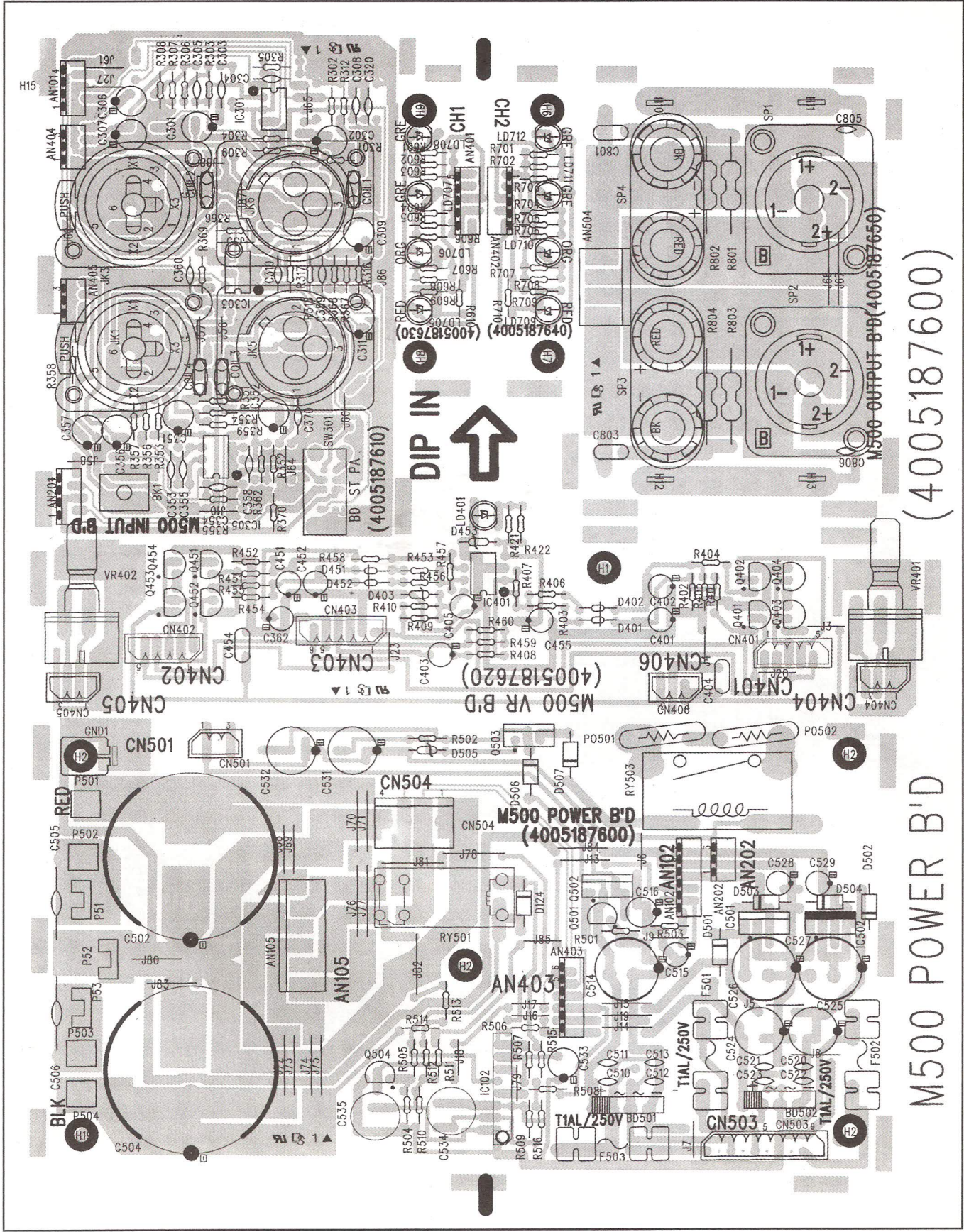
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R164 R166 R168(for M700) R120 R146-150 R164-168	3089101275	R100J1/4WFRFR,FR 100	11
R133	3089150275	R15J1/4WFRFR,FR 15	1
R113	3089331275	R330J1/4WFRFR,FR 330	1
R170-171	3089332275	R150J1/4WFRFR,FR 3.3K	2
R134 R136 R138 R152	3089479275	R4.7J1/4WFR,FR 4.7	6
R154 R156(for M700)			
R134-138 R152-156	3089479275	R4.7J1/4WFR,FR 4.7	10
VR101	3248310320	K09/103B/HBF30,10KB	1
C103 C105	3409210141-T	EC100/25RSG,100/25	2
C101 C122	3409247071-T	EC47/50RSG,47/50	2
C106-109	3409247971-T	EC4.7/50RSG,4.7/50	4
C123	3409810141-T	EC100/25NP,100/25 NP	1
CR102 CR115-116	3509101231-A	CE100P50SL,100P	3
CR113	3509509030-T	CE5P50SL,5P	1
CR123	3529220311-A	CE2P50SL,22P	1
CR104	3529330311-A	CE3P50SL,33P	1
CR110	3529680311-A	CE6P50SL,68P	1
C118-119	3609273120-T	MA0.027/100T,0.027/100(M)	2
C111-112 C117 C120	3609472120-T	MA0.0047/100T,0.0047/100(M)	4
C114	3609473120-T	MA0.047/100T,0.047/100(M)	1
CN101	4428595004	WAFER/4P,WAFMW4P2.54	1
CN102	4428595005	WAFER/5P,WAFMW5P2.54	1
CN103	4428595006	WAFER/6P,WAFMW6P2.54	1
CN105	4428596606	CON/6P,WAFHW6P3.96	1
RY501	5528009810	RLY/G2E-5V,31H42	1
M-700/1000 POWER B'D(4005187800)			
Q501	2008606108-T	TR/NPN/KTC2240BL,KTC 2240BL	1
Q503	2028406113	TR/NPN/KTD2058Y,KTD 2058Y	1
Q502	2028407990	TR/NPN/KTC4375/C,KTC 4370	1
BD501-502	2058100979	BD/KPBP152,KPBP 152	2
D501-504 D506-507	2058100996	D/1N4006,1N 4006	6
D505	2058502240	ZD/UZ24BM,UZ 24BM	1
IC502	2128610800	IC/7815,7915	1
IC501	2128610900	IC/7815,7815	1
PO501-502	2438200515	RESTH,TH5D-15	2
R503	3009102973	R1KJ,1K	1
R501	3009122973	R1.2KJ,1.2K	1
R502	3009822973	R8.2KJ,8.2K	1
C514	3408210261	EC1000/35RSG,1000/35	1
C526-527	3408247161	EC470/35RSA,470/35	2
C501-504(for M700)	3419068208	CAP/HM/6800uF80V	4
C501-504(for M1000)	3409068298	CAP/HM/6800uF100V	4
C515 C528-529	3409210071-T	EC10/50RSG,10/50	3
C532	3409210171-T	EC100/50RSG,100/50	1
C524-525	3409222171-T	EC220/50RSG,220/50	2
C516 C531	3409247071-T	EC47/50RSG,47/50	2
C510-513 C520-523	3509472530-T	CE0.0047/50F,0.0047/50	8
C505-506	3619474153	PL0.47/250TM,0.47/250	2
P501	4355789207	PIN(1P),ASS'Y	1
P502-503	4355789306	PIN(1P),ASS'Y	2
P504	4355789403	PIN(1P),ASS'Y	1
AN403	4355797214	WAFER2/3P,ASS'Y3P	1
AN202	4355824511	WAFER/5P,ASS'Y5P	1
AN102	4355824515	WAFER/5P,ASS'Y5P	1
CN501-502	4428595003	WAFER2/3P,WAFMW3P2.54	2
CN503	4428595009	CON/9P,WAFMW9P2.54	1
AN105 AN205	4428596606	CON/6P,WAFHW6P3.96	2
P51-53	4465998210	PIN(1P),250T	3
F501-503(for DOM)	5508112230	FUSE,1A/250V KS	3
F501-503	5508412234	FUSE,11A/250V	3
RY503	5528009993	RLY/G2E-5V,HR-CR6	1
M-700/1000 INPUT B'D(4005187810)			
IC301-303	2118010432	NJM2068DD,NJM 2068DD	3
R307 R357 R370	3009101973	R100J,100	3
R308 R358	3009103973	R10KJ,10K	2
R318	3009104973	R100KJ,100K	1
R302 R352	3009105973	R1MJ,1M	2

Ref No.	Part No.	Description	Q'TY
R303-306 R309	3009153973	R15KJ,15K	12
R353-356 R359			
R368-369			
R366-367	3009303973	R30KJ,30K	2
R312 R362	3009333973	R33KJ,33K	2
R316-317	3009563973	R56KJ,56K	2
R301 R351	3009823973	R82KJ,82K	2
C307 C357	3409210071-T	EC10/50RSG,10/50	2
C301-302 C306 C311	3409210141-T	EC100/25RSG,100/25	7
C351-352 C356			
C309	3409247071-T	EC47/50RSG,47/50	1
C303 C353	3529050311-A	CE5P50SL,5P	2
C320 C370	3529103531-A	CE10000P25FA,10000P	2
C304-305 C354-355	3529220311-A	CE2P50SL,22P	5
C359			
C310	3529330311-A	CE33P50SL,33P	1
C308 C358 C360	3529470311-A	CE47P50SL,47P	3
COIL1-4	3908609980	COIL-A,EMI FILTER 2200P	4
AN404	4355789717	WAFER/3P,ASS'Y3P	1
AN405	4355789721	WAFER/3P,ASS'Y3P	1
AN101	4355789806	WAFER/4P,ASS'Y4P	1
AN201	4355789811	WAFER/4P,ASS'Y4P	1
JK302 JK304	4408194310	JACK/XLR/F,XLR(M)	2
JK301 JK303	4438090310	JACK/XLR/F,COMBO	2
SW301	4618999910	SW/8P,SLIDE/2POLE	1
M-700/1000 VR B'D(4005187820)			
Q401-404 Q451-454	2008606104-T	TR/NPN/KTC3198Y,KTC 3198Y	8
D401-402 D451-452	2058304100	D/1N4148,1N 4148	4
D403 D453	2058502150	ZD/UZ5.6BM,UZ 15BM	2
IC401	2118010332	NJM5532DD,NJM 5532DD	1
LD401	2300050105	LD/R/SLR54UR,R5RE	1
R401 R404 R409-410	3009102973	R1KJ,1K	8
R451 R454 R459-460			
R402 R407 R452 R457	3009104973	R100KJ,100K	4
R403 R406 R453 R456	3009222973	R2.2KJ,2.2K	4
R408 R458	3009273973	R27KJ,27K	2
R405 R455	3009331973	R330J,330	2
R421-422	3009472973	R4.7KJ,4.7K	2
VR401-402	3238073810	K09/103B/HBF30,10KB	2
C403 C405 C453 C455	3409210071-T	EC10/50RSG,10/50	4
C401-402 C451-452	3409247971-T	EC4.7/50RSG,4.7/50	4
C404 C454	3609104120-T	MA0.1/100T,0.1/100(M)	2
AN103 AN203	4355801007	WAFER/6P,ASS'Y6P	2
CN403-405	4428595003	WAFER2/3P,WAFMW3P2.54	3
CN401-402	4428595005	WAFER/5P,WAFMW5P2.54	2
M-700/1000 CH1 LED B'D(4005187830)			
LD604	2300050105	LD/R/SLR54UR,R5RE	1
LD601-602	2300052105	LD/G/SLR54GG,R5GR	2
LD603	2300053105	LD/R/SLR54UR,R5OR	1
R601-606	3009392973	R3.9KJ,3.9K	6
R607-610	3009472973	R4.7KJ,4.7K	4
AN401	4355824503	WAFER/5P,ASS'Y5P	1
M-700/1000 CH2 LED B'D(4005187840)			
LD704	2300050105	LD/R/SLR54UR,R5RE	1
LD701-702	2300052105	LD/G/SLR54GG,R5GR	2
LD703	2300053105	LD/R/SLR54UR,R5OR	1
R701-706	3009392973	R3.9KJ,3.9K	6
R707-710	3009472973	R4.7KJ,4.7K	4
AN402	4355824503	WAFER/5P,ASS'Y5P	1
M-700/1000 OUTPUT B'D(4005187850)			
R801-804	3039100572-F	R10J2WMOF,10 2W	4
C805-806	3509103530-T	CE0.01/50F,0.01/50	2
C801-804	3609104120-T	MA0.1/100T,0.1/100(M)	4
ANN105 ANN205	4428596604	WAF2/4P,WAFHW4P3.96	2
SP1-2	4438090210	SP-TERMINAL(2P),SP-TER2P	2
JK1-2	4438091710	JACK-4P,SPEAKON	2

Ref No.	Part No.	Description	Q'TY
M-700/100 ASS'Y			
BD100(for M700)	2058100103	BD/KBPC2504,KBPC 2504	1
BD100(for M1000)	2058100998	BD/KBPC3504,KBPC 3504	1
PT1 (for M700)	2828067100	PT/M700 (100V)	1
	2828067110	PT/M700 (120V)	1
	2828067120	PT/M700 (220V)	1
	2828067130	PT/M700 (230V)	1
	2828067140	PT/M700 (240V)	1
	PT1 (for M1000)	2828067000	PT/M1000 (100V)
2828067010		PT/M1000 (120V)	1
2828067020		PT/M1000 (220V)	1
2828067030		PT/M1000 (230V)	1
2828067040		PT/M1000 (240V)	1
C1		3549472407	CAP/C1,0.0047/400
CON ASS'Y	4355789116	CON ASS'Y AC	1
CON ASS'Y	4355789510	CON ASS'Y 6P POWER	1
CON ASS'Y	4355915905	SOCKET TERMINAL BROWN	1
CON ASS'Y	4355789603	CON ASS'Y 3P FAN	1
INLET1	4448997410	AC,AC INPUT	1
SW101	4625996611	SW/PO/SPST1,POWER SWITCH	1
F101(for M700)	5568223633	CIRCUIT BREAKER 7A(220,230V)	1
	5568224633	CIRCUIT BREAKER 12A(120V)	1
	5568224833	CIRCUIT BREAKER 15A(100V)	1
F101(for M1000)	5568224533	CIRCUIT BREAKER 10A(220,230V)	1
	5568224433	CIRCUIT BREAKER 20A(100,120V)	1
FAN1(for M700)	7308998910	FAN,F8025H24B	1
FAN1(for M1000)	7308999010	FAN,F8025X24B	1

TOP AND BOTTOM VIEW OF P.C. BOARD



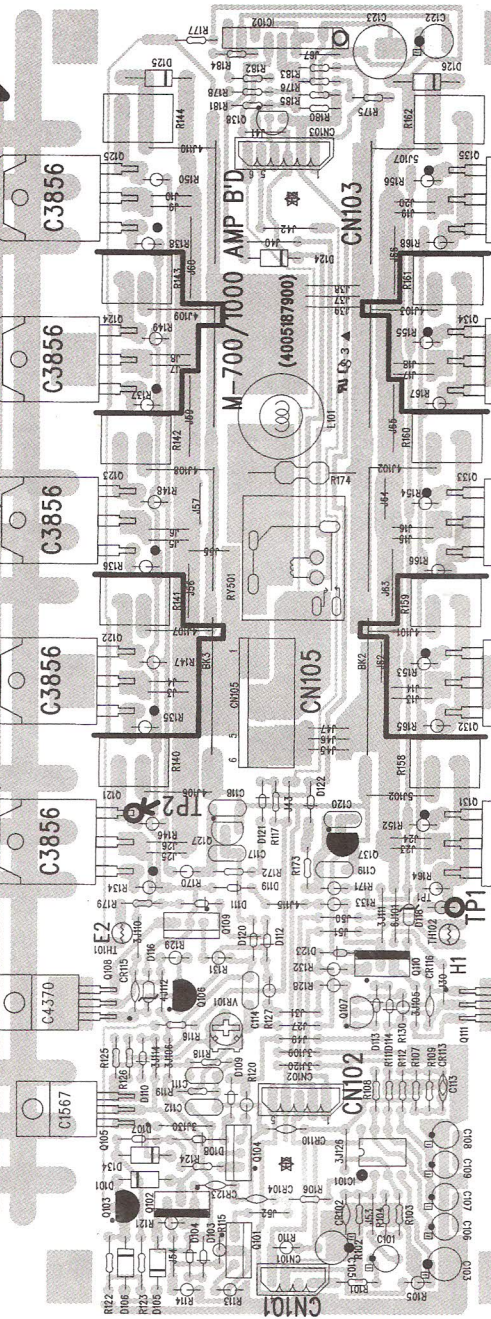


(4005187600)

M500 POWER B'D

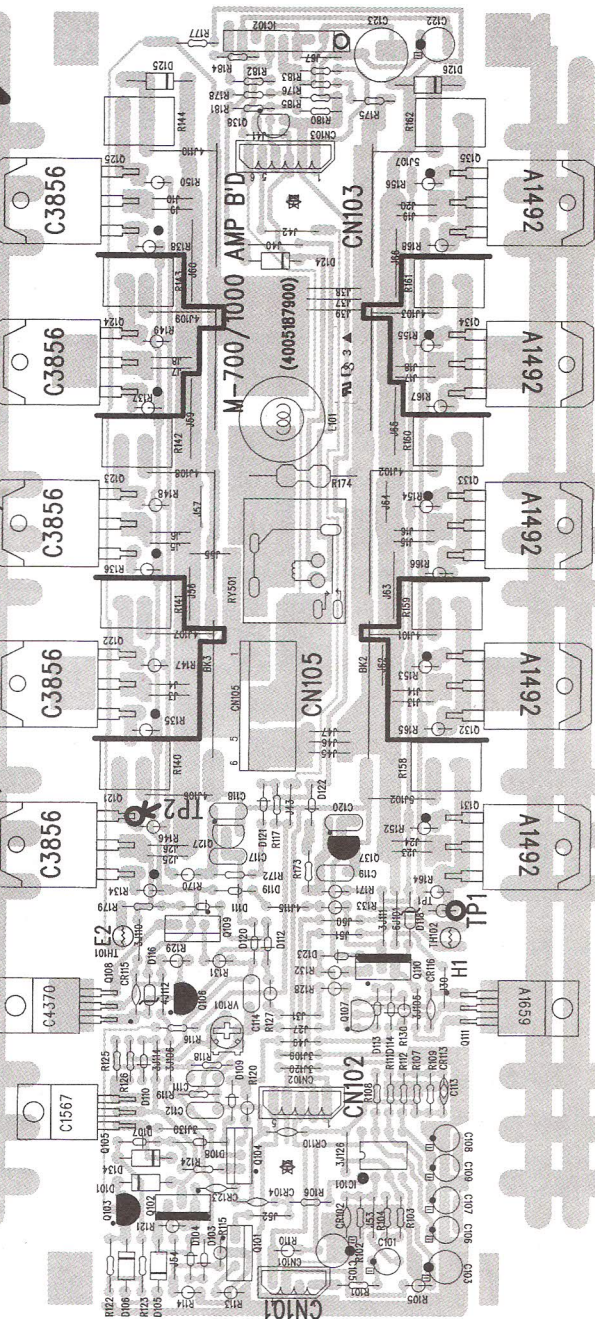
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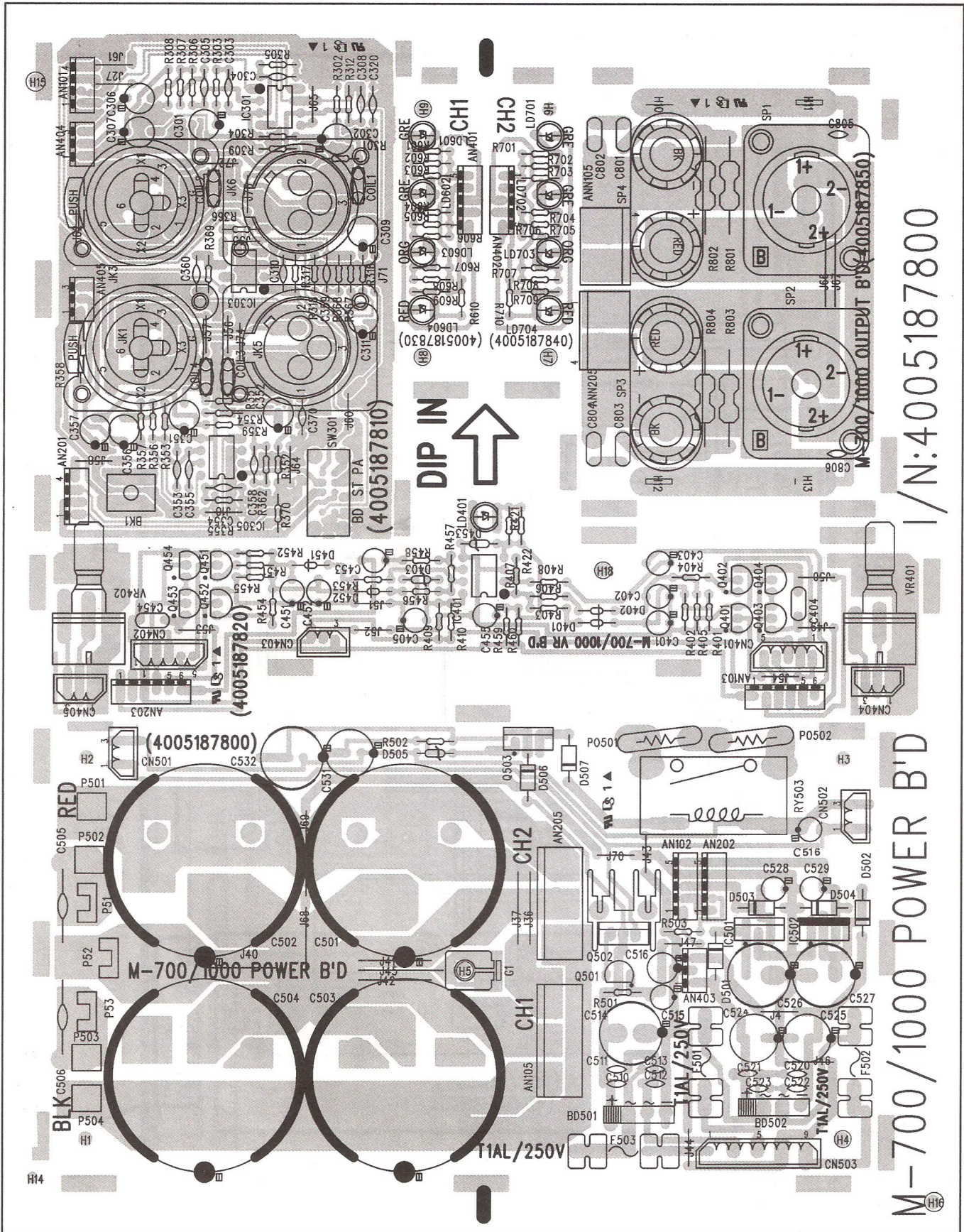
DIP IN



M-000/000 AMP B'D (4005187900)

DIP IN



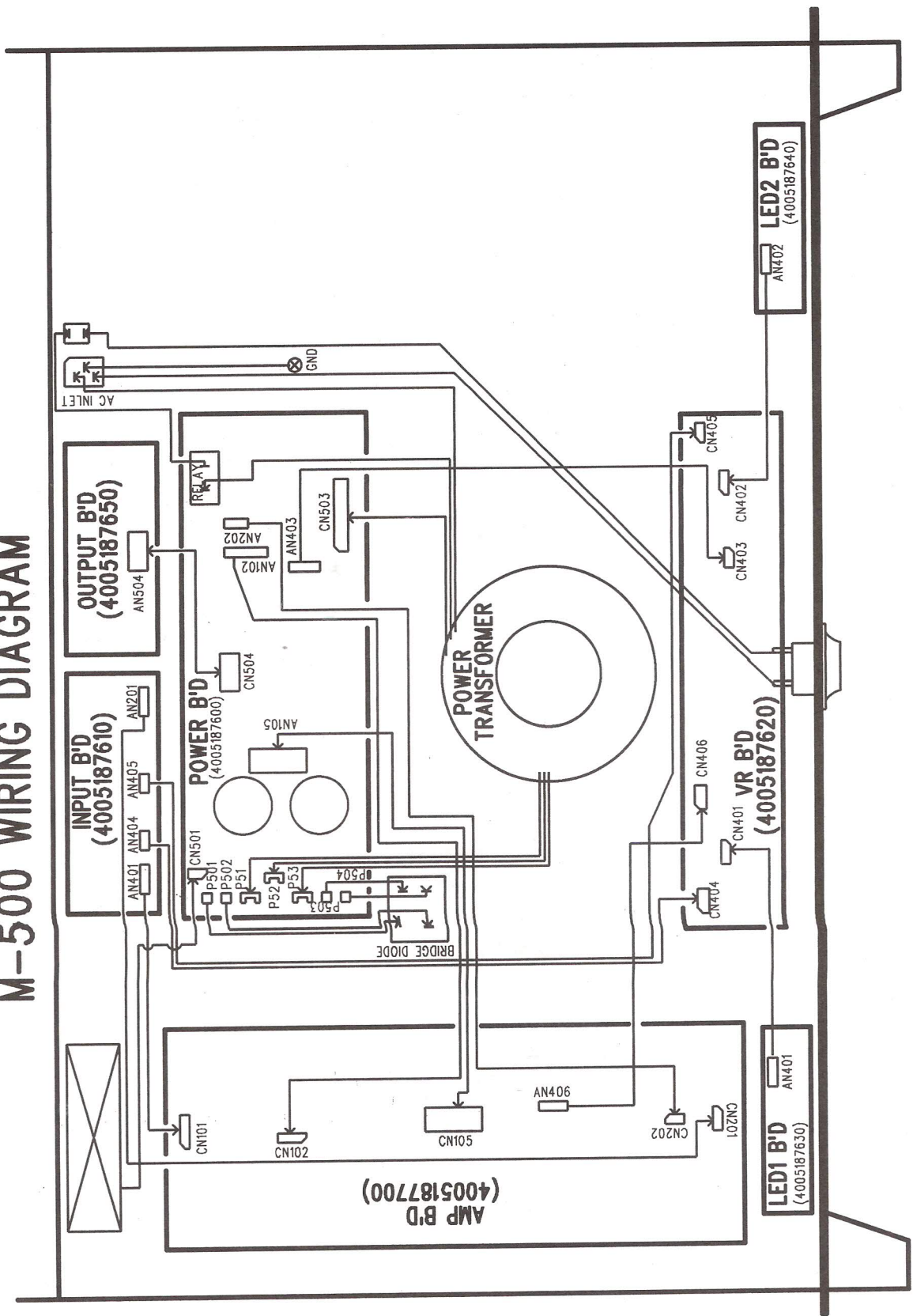


I/N:4005187800

M-700/1000 POWER B'D

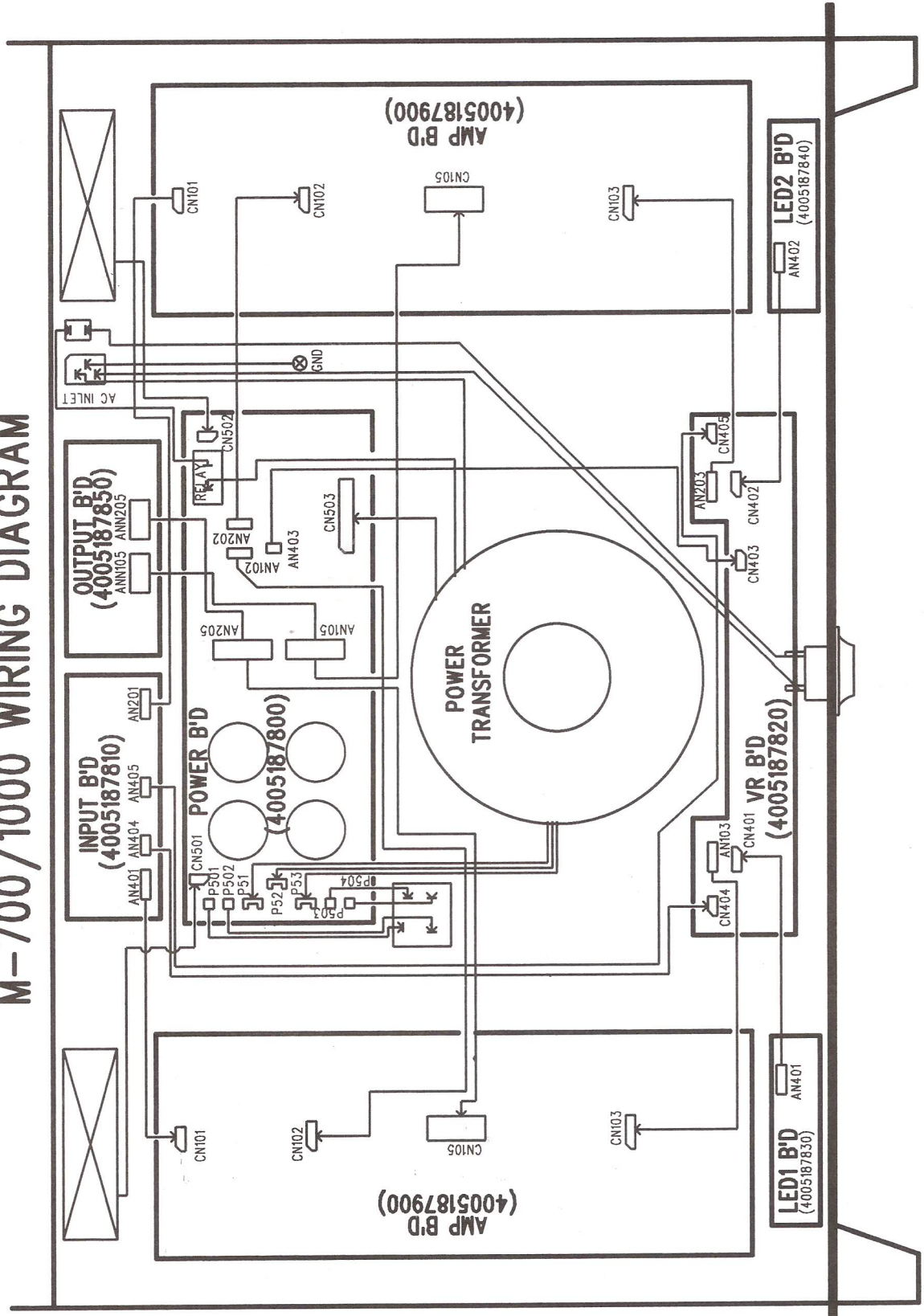
WIRING DIAGRAM

M-500 WIRING DIAGRAM

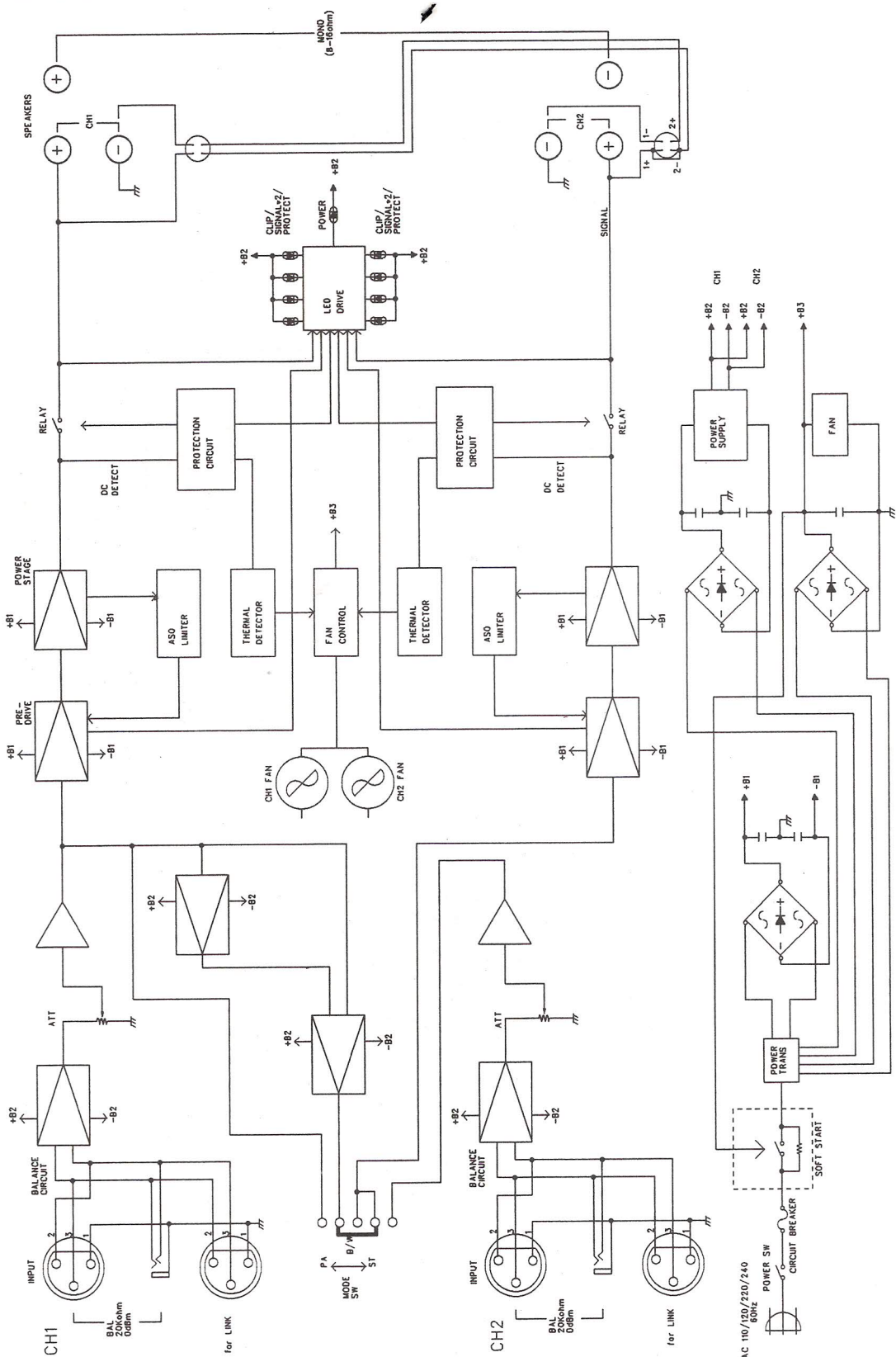


WIRING DIAGRAM

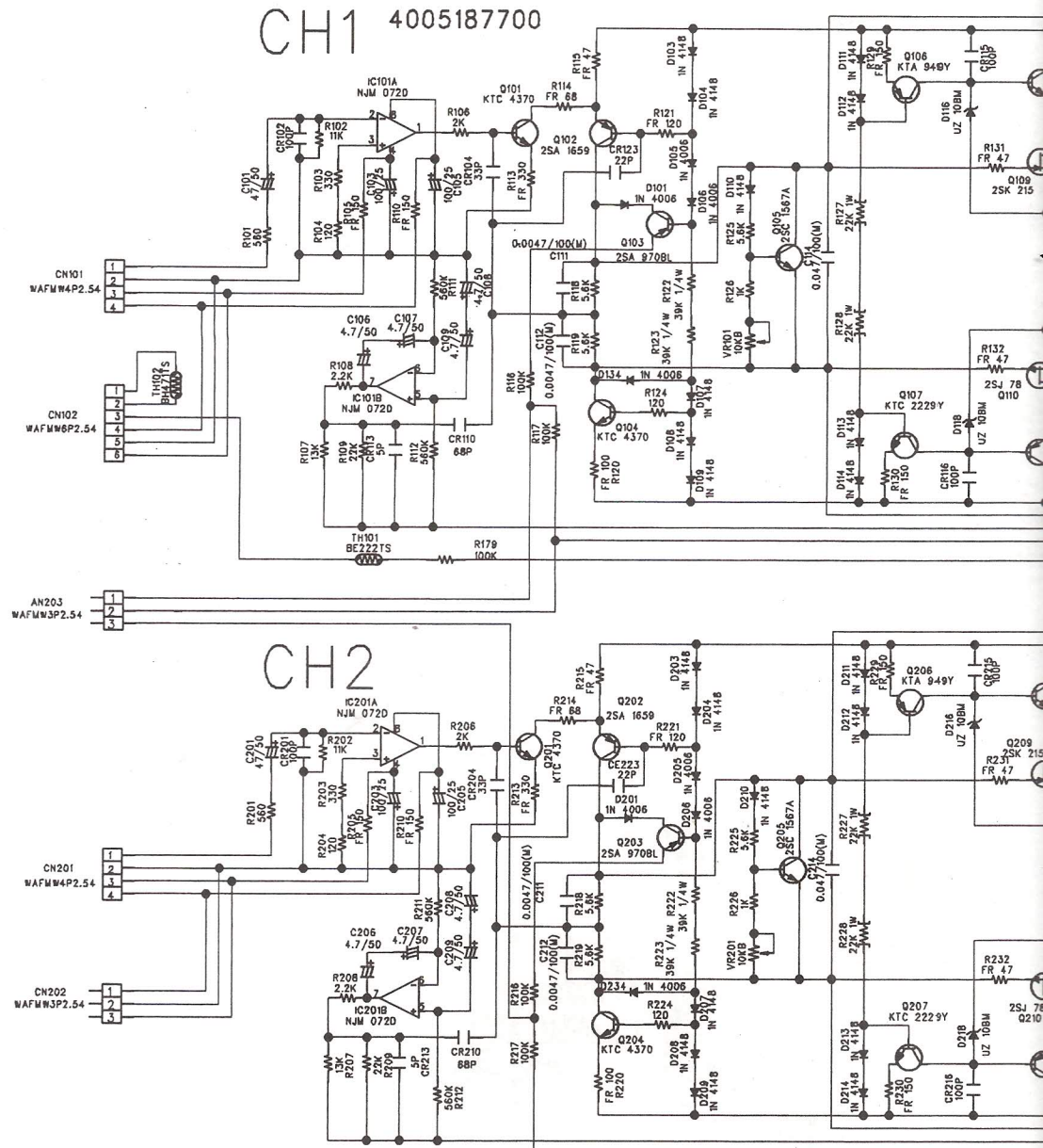
M-700/1000 WIRING DIAGRAM



BLOCK DIAGRAM



SCHEMATIC DIAGRAM



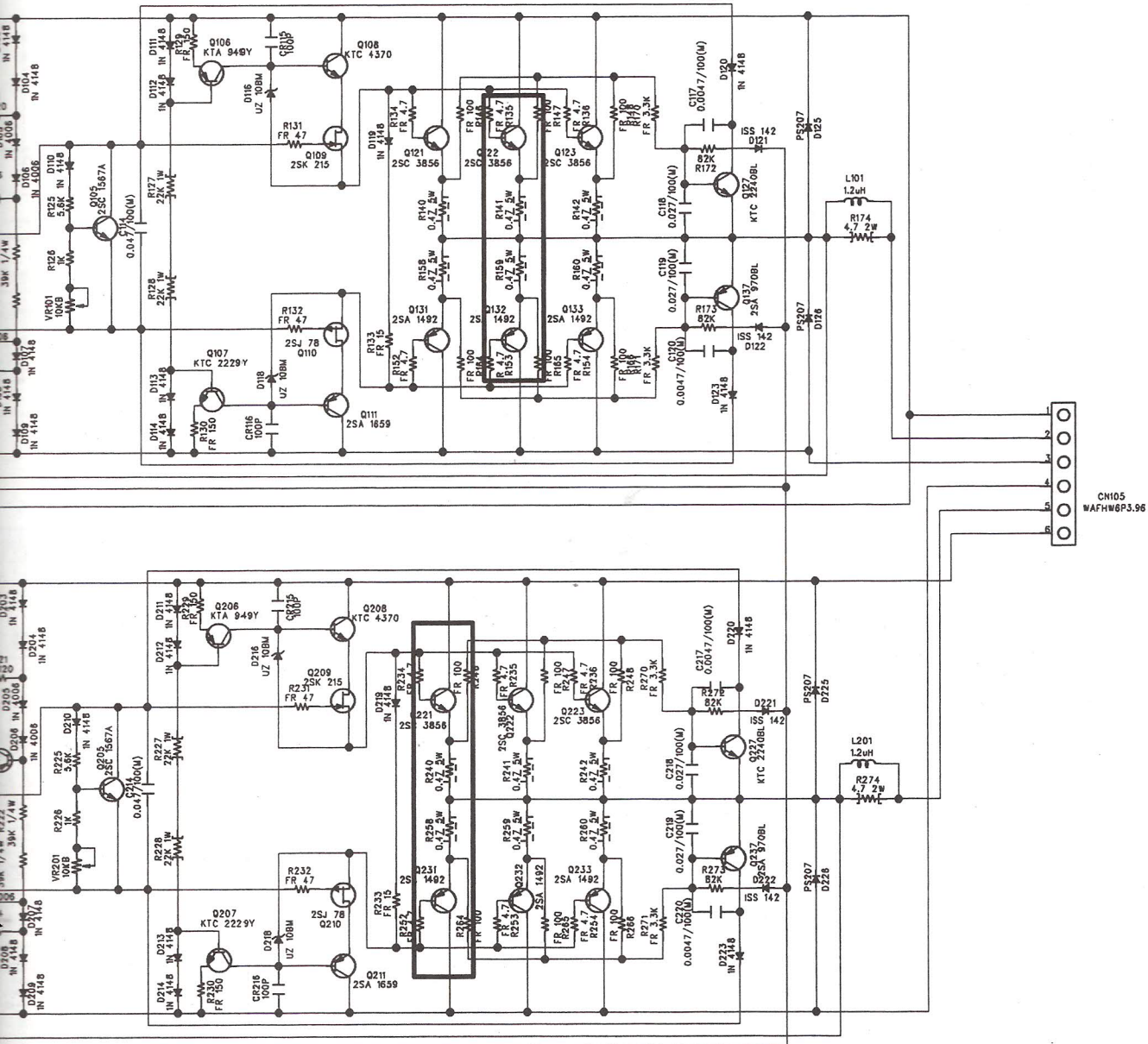
***SERVICE INFORMATION**

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2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICROFARADS)
3. ALL VOLTAGES ARE REFERRED TO GROUND UNDER THE FOLLOWING CONDITIONS. DC-NO SIGNAL EXCEPT WHERE INDICATED. AC-RMS

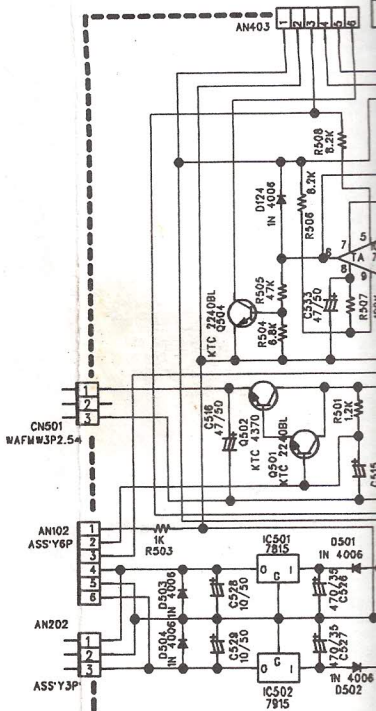
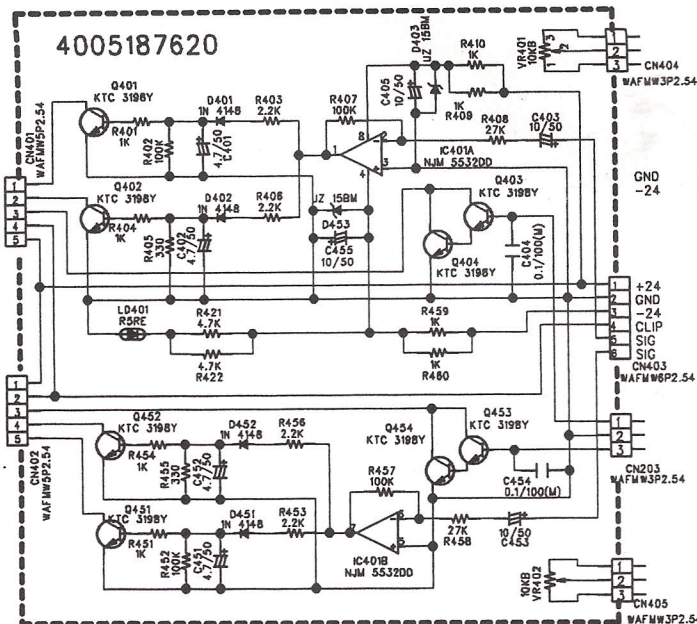
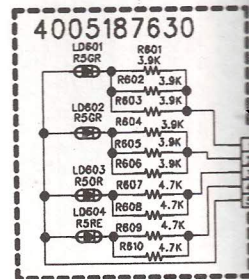
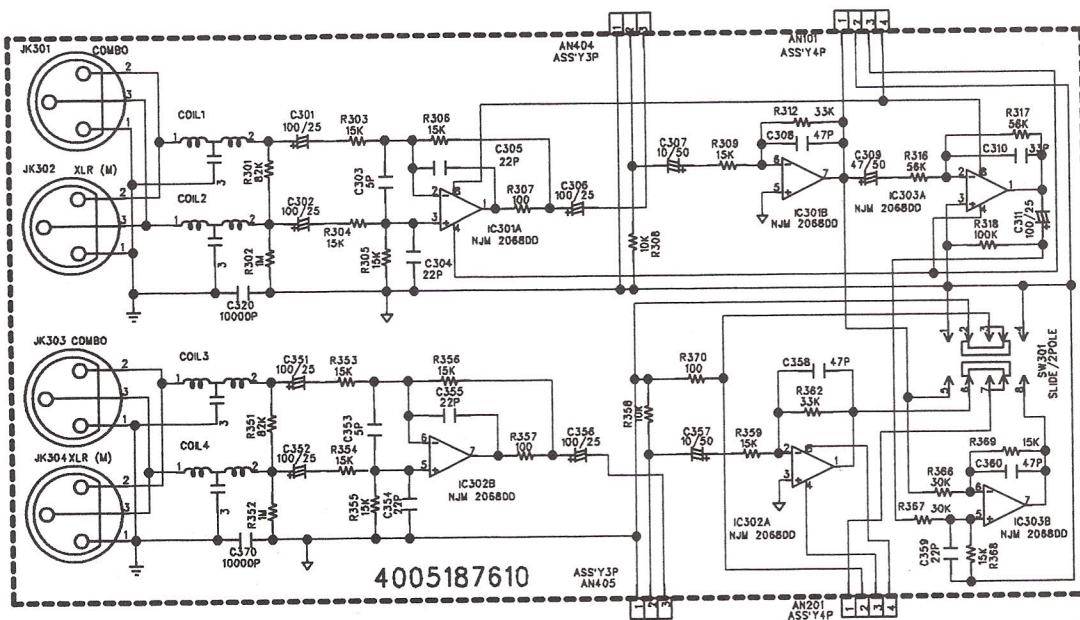
4. PRECAUTION-

- A) ALL COMPONENTS MARKED MUST BE REPLACED ONLY WITH ORIGINAL TYPE SPECIFIED BY THE MANUFACTURER, INTER M CORPORATION AND INSTALLED AS THE ORIGINAL SPACERS 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 TO CUSTOMER. DIELECTRIC TEST CONSISTING OF 120V AC 60HZ IS TO BE APPLIED BETWEEN BOTH BALDES OF THE POWER SUPPLY CORD ATTACHMENT PLUG THE EXPOSED CONDUCTIVE SURFACE OF THE APPLIANCE FOR A PERIOD OF NOT LESS THAN ONE SECOND BEFORE RETURNING APPLIANCE TO CUSTOMER.
- F) THE MARKED RESISTORS ARE MOUNTED THE P.C.B ON SLEEVES.



AND INSULATING SPACERS MUST BE REPLACED BEFORE RETURNING TO CUSTOMER.
 SUPPLY CORD MUST BE REPLACED BEFORE RETURNING TO CUSTOMER.
 CONSISTING OF 120V AC 60HZ IS TO BE APPLIED BETWEEN THE POWER SUPPLY CORD ATTACHMENT PLUG THE EXPOSED PARTS OF THE APPLIANCE FOR A PERIOD OF NOT LESS THAN 15 MINUTES BEFORE RETURNING APPLIANCE TO CUSTOMER.
 MARKED RESISTORS ARE MOUNTED ON SLEEVES.

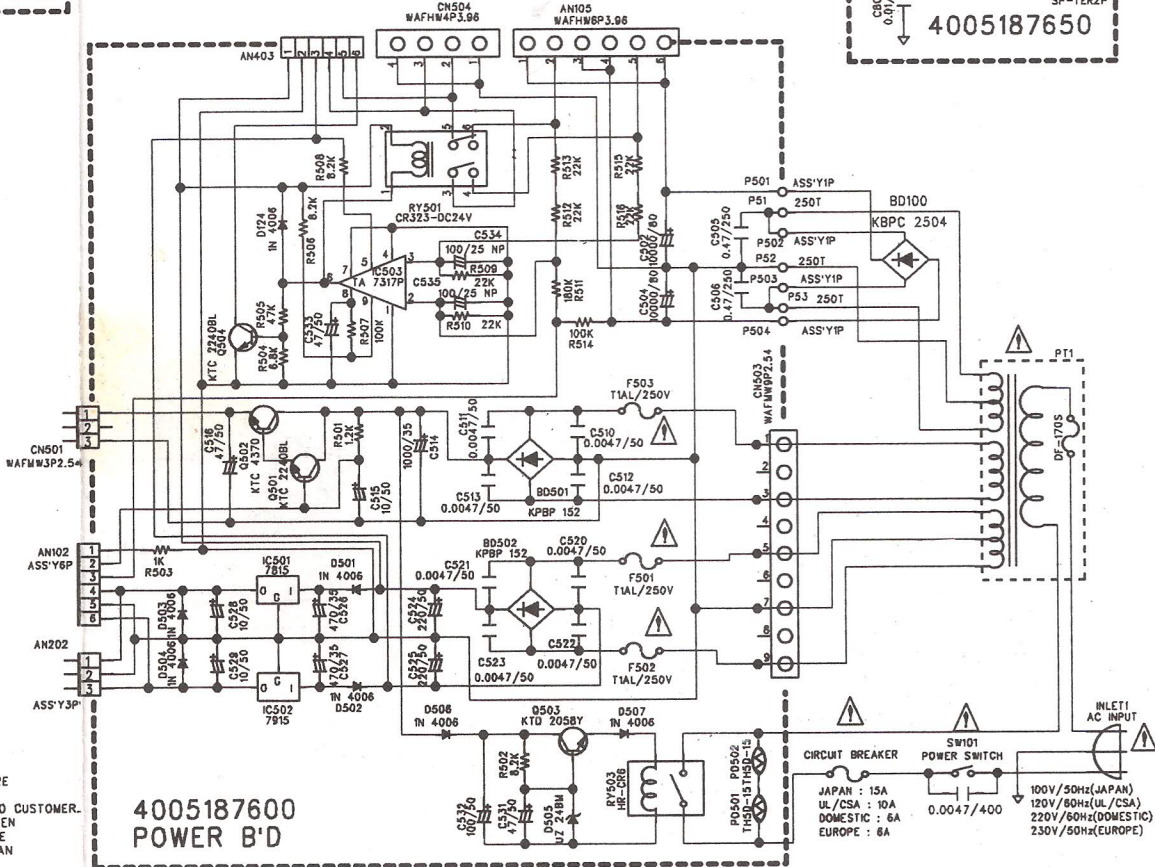
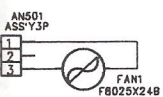
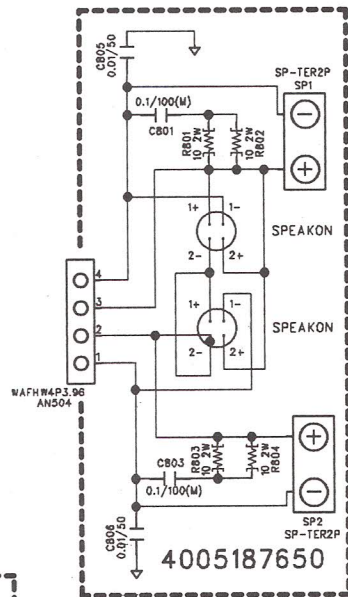
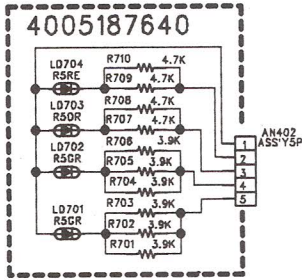
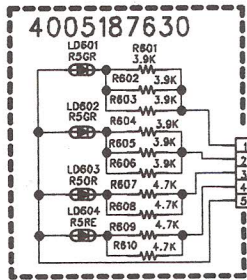
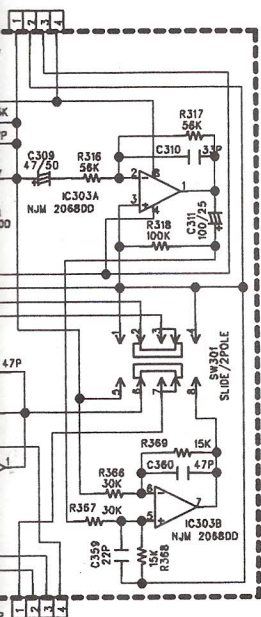


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 - B) ALL SOLDERING MUST BE DONE IN A PROFESSIONAL MANNER USING SOLDER WHITE RESINE CORE ONLY.

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- F) THE MARKED RESISTORS ARE MOUNTED THE P.C.B ON SLEEVES.

**4005187600
POWER B'D**

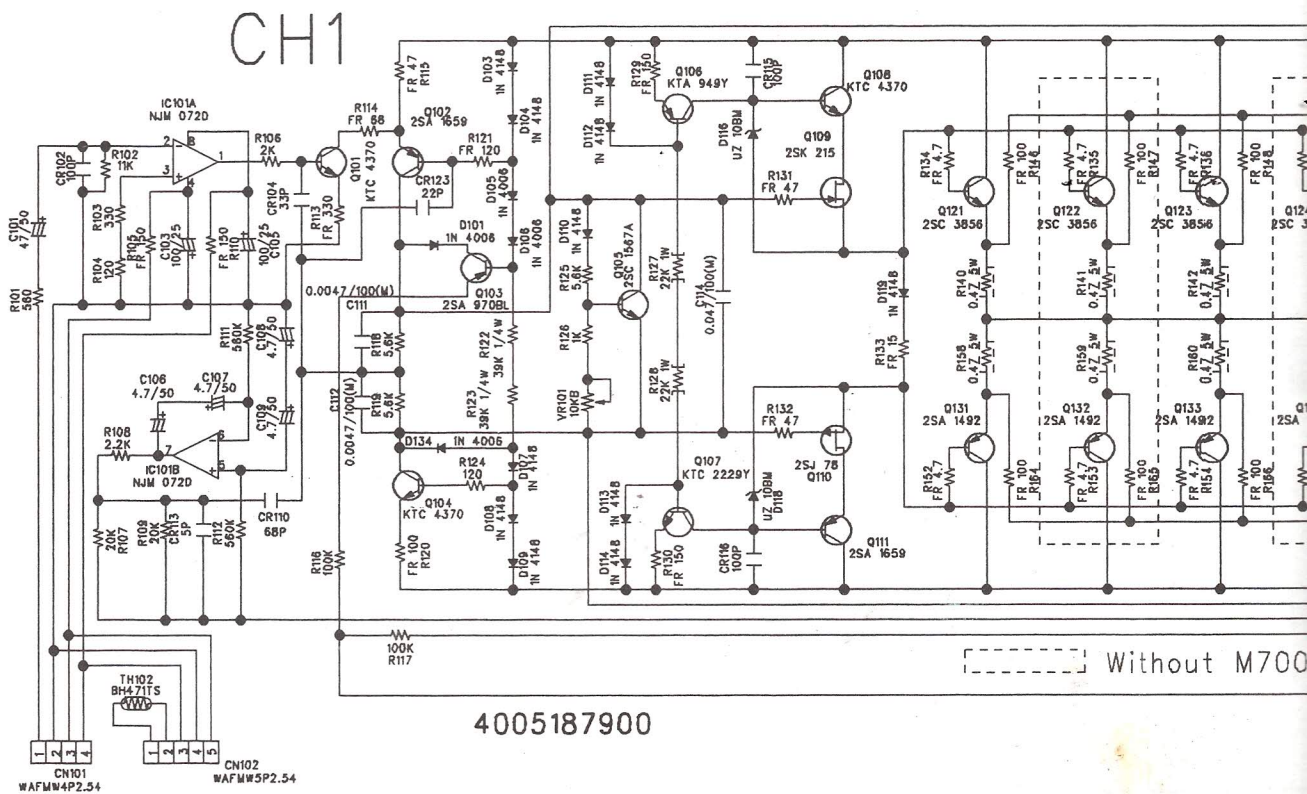


CAPACITORS MUST BE REPLACED BEFORE
 REPLACED BEFORE RETURNING TO CUSTOMER.
 100HZ IS TO BE APPLIED BETWEEN
 ATTACHMENT PLUG THE EXPOSE
 FOR A PERIOD OF NOT LESS THAN
 O CUSTOMER.
 MOUNTED THE P.C.B ON SLEEVES.

JAPAN : 15A
 UL/CSA : 6A
 DOMESTIC : 6A
 EUROPE : 6A

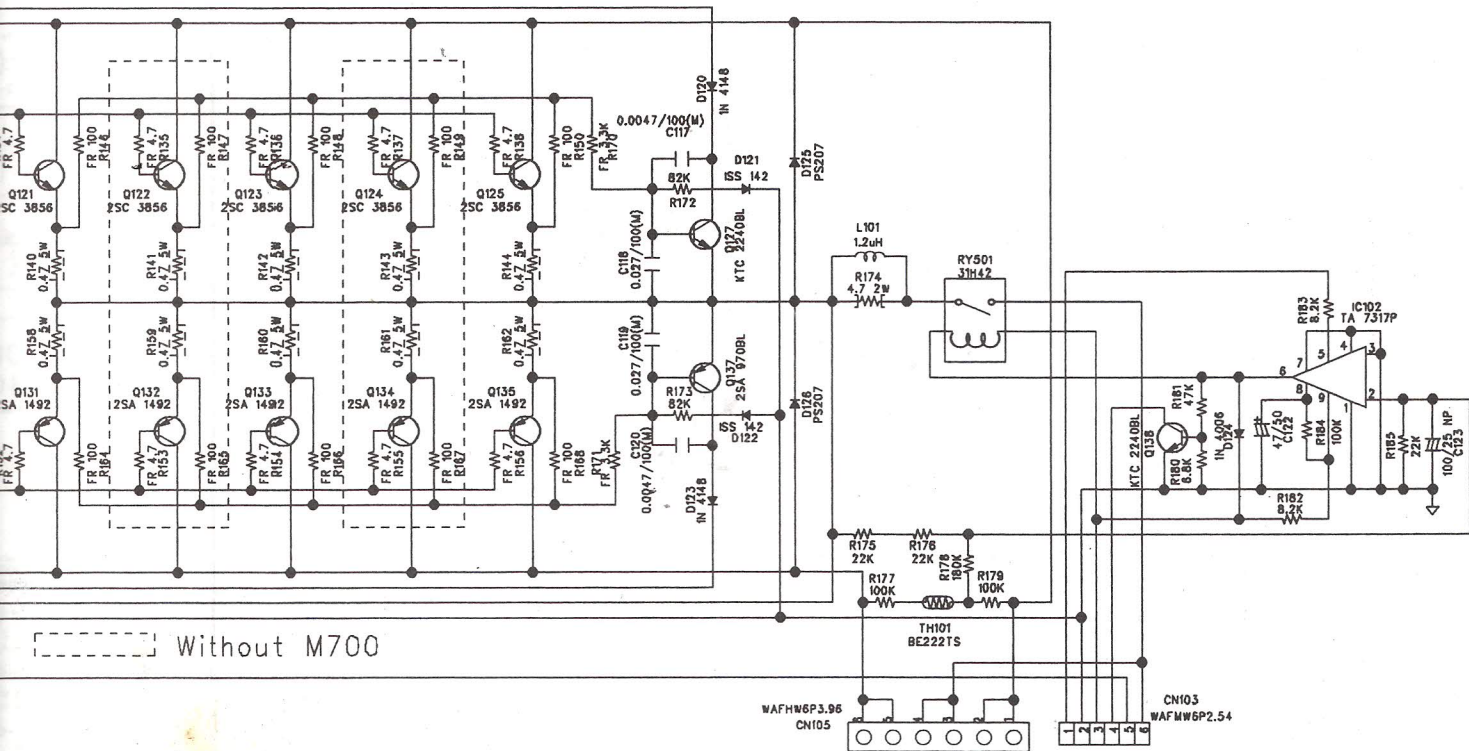
100V/50Hz(JAPAN)
 120V/60Hz(UL/CSA)
 220V/60Hz(DOMESTIC)
 230V/50Hz(EUROPE)

SCHEMATIC DIAGRAM



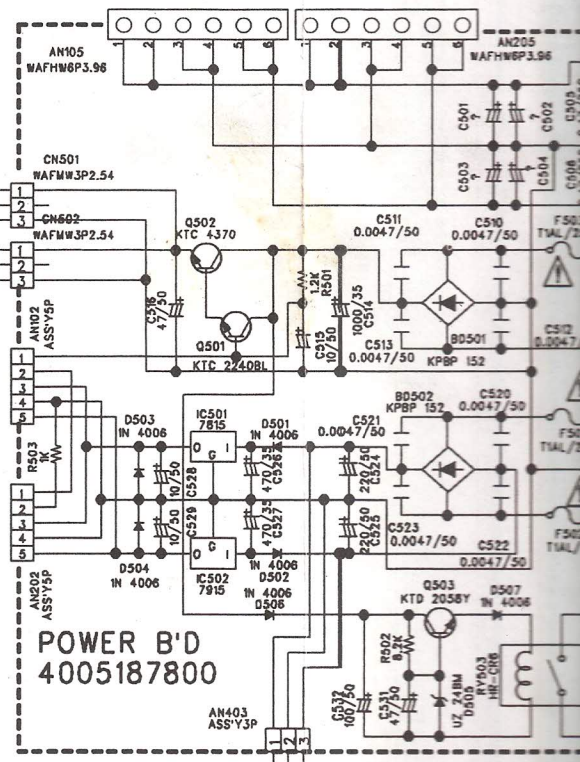
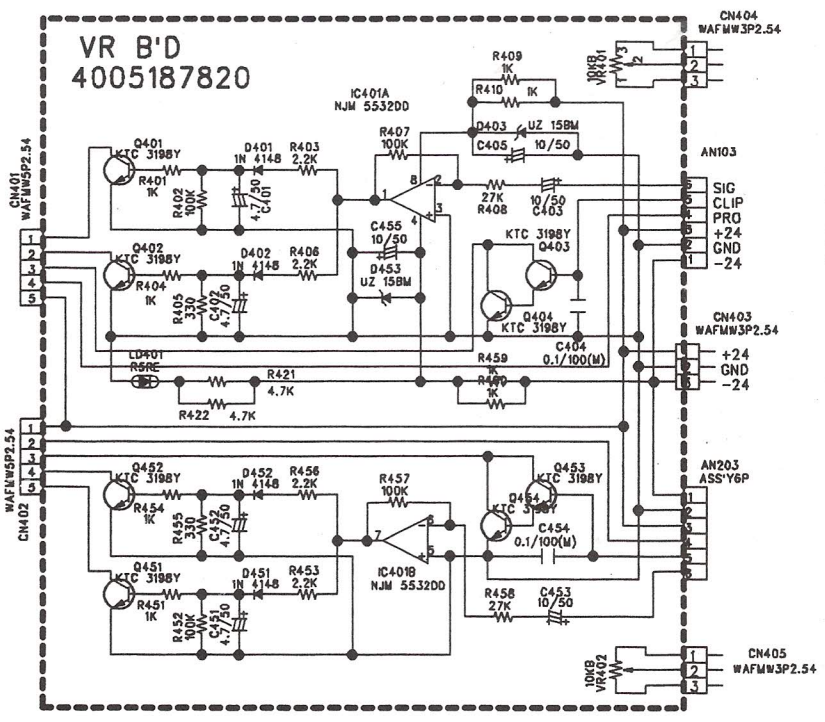
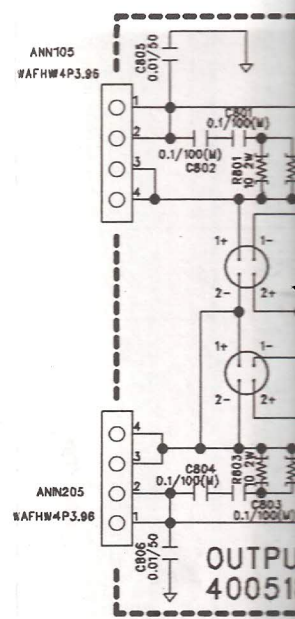
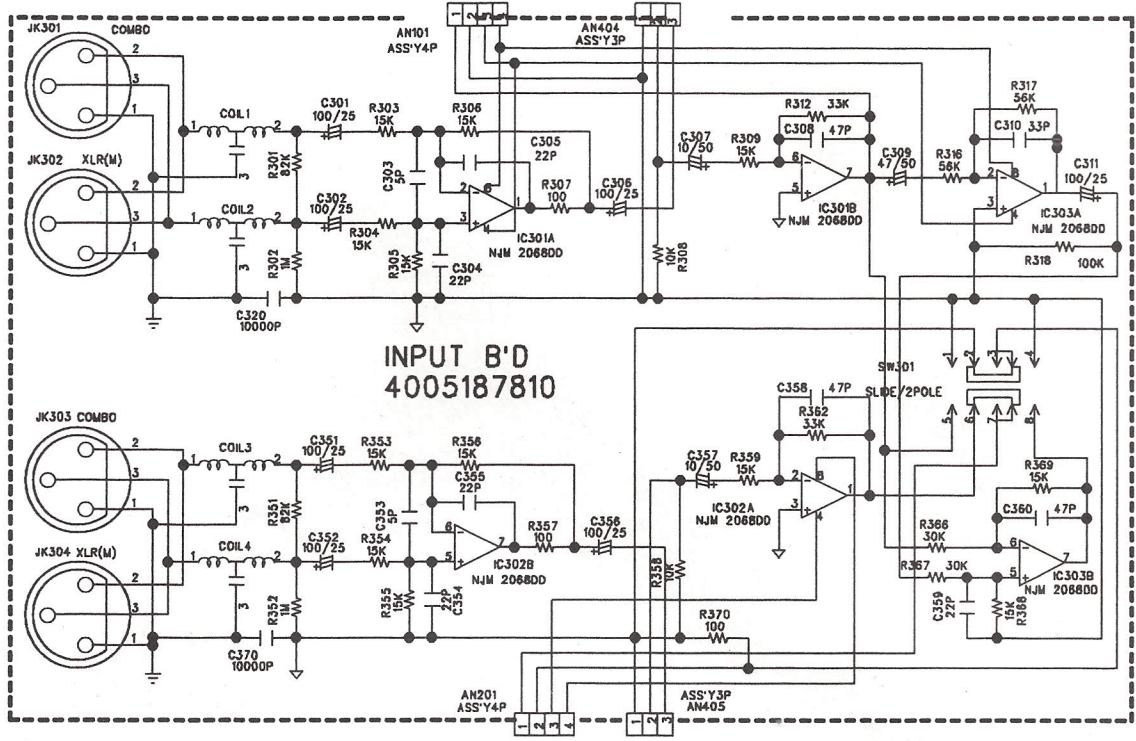
***SERVICE INFORMATION**

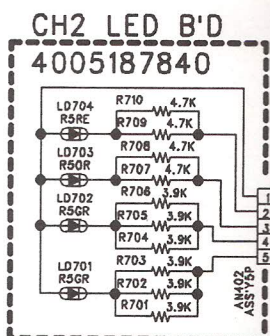
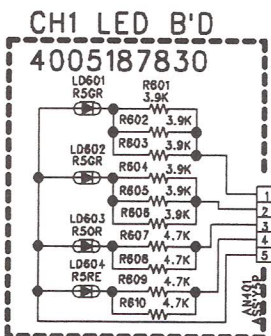
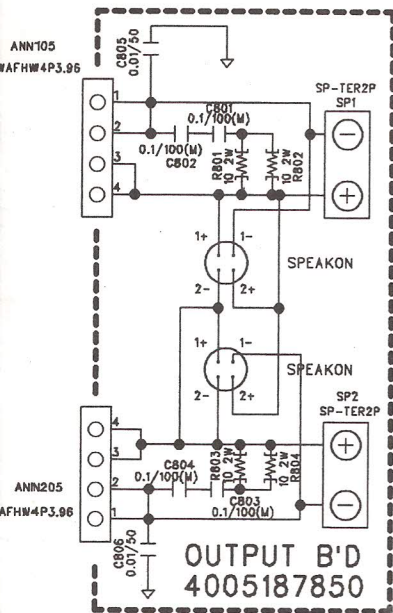
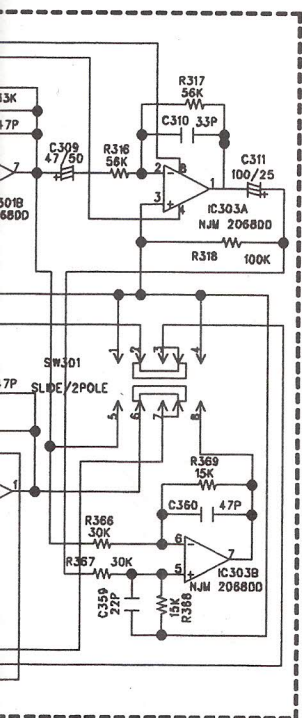
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 - F) THE MARKED RESISTORS ARE MOUNTED THE P.C.B ON SLEEVES.



	M700	M1000
R107	13K	20K
R109	22K	20K
R172, R173	47K	82K

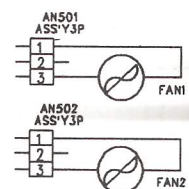
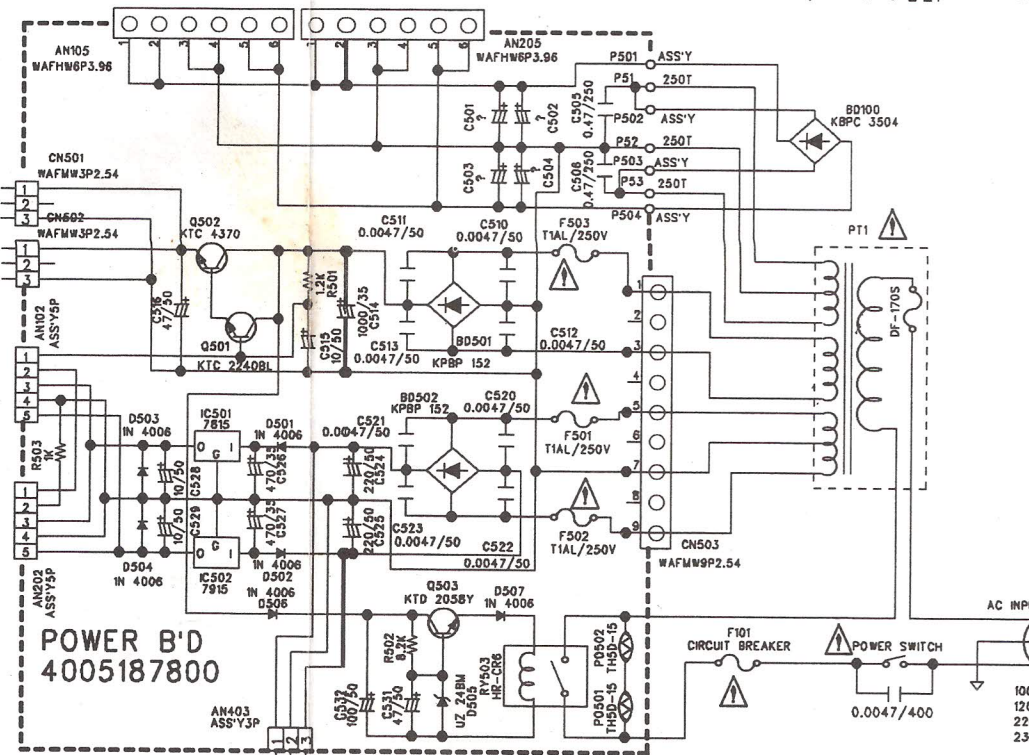
EMATIC DIAGRAM





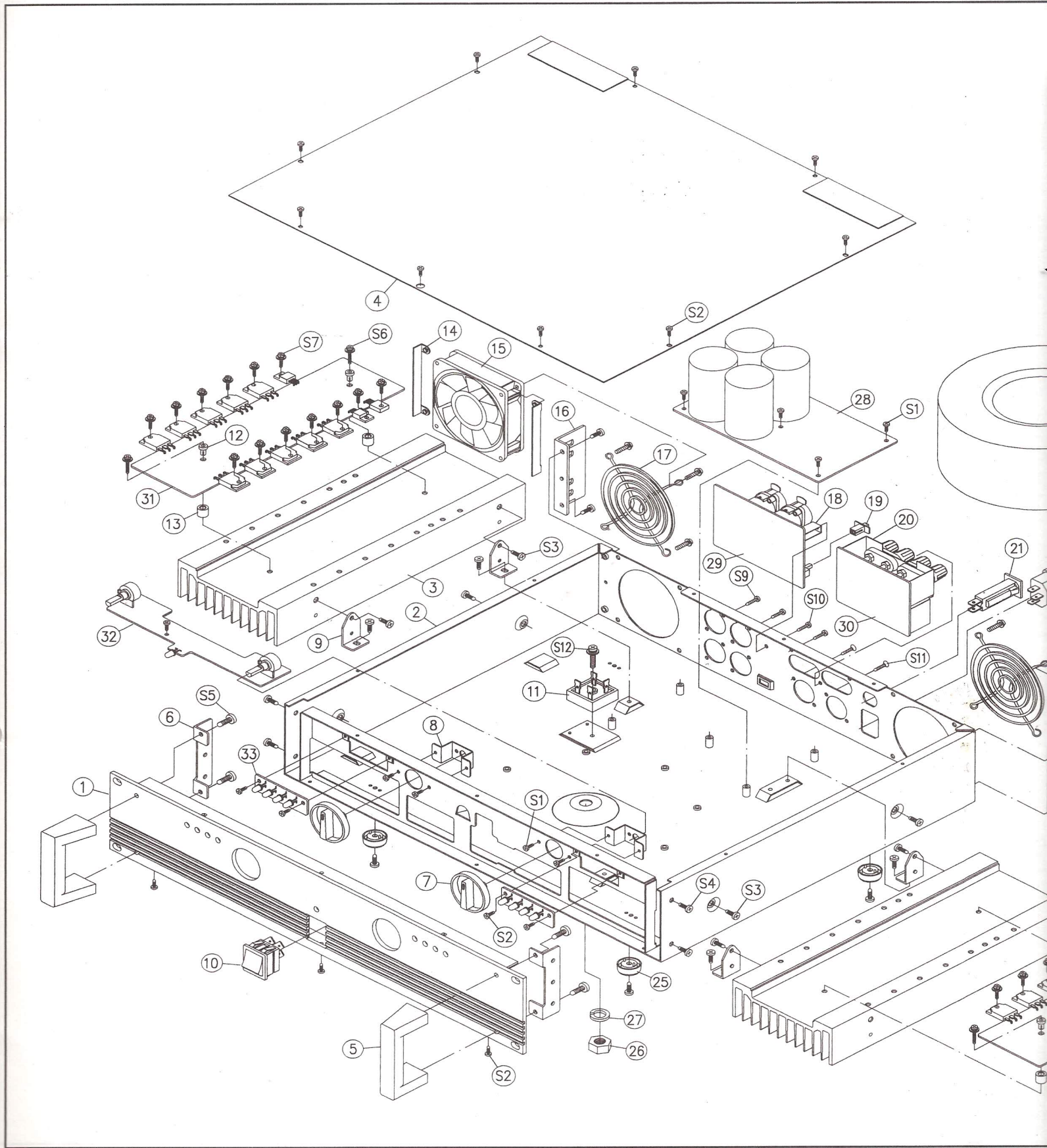
***SERVICE INFORMATION**

1. RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED. (K=1,000, M=1,000,000)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICROFARADS)
3. ALL VOLTAGES ARE REFERRED TO GROUND UNDER THE FOLLOWING CONDITIONS. DC:NO SIGNAL EXCEPT WHERE INDICATED. AC:RMS
4. PRECAUTION - ALL COMPONENTS MARKED MUST BE REPLACED ONLY WITH ORIGINAL TYPE SPECIFIED BY THE MANUFACTURER. INTER M CORPORATION AND INSTALLED AS THE ORIGINAL SPACERS 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 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 MARKED RESISTORS ARE MOUNTED THE P.C.B ON SLEEVES.

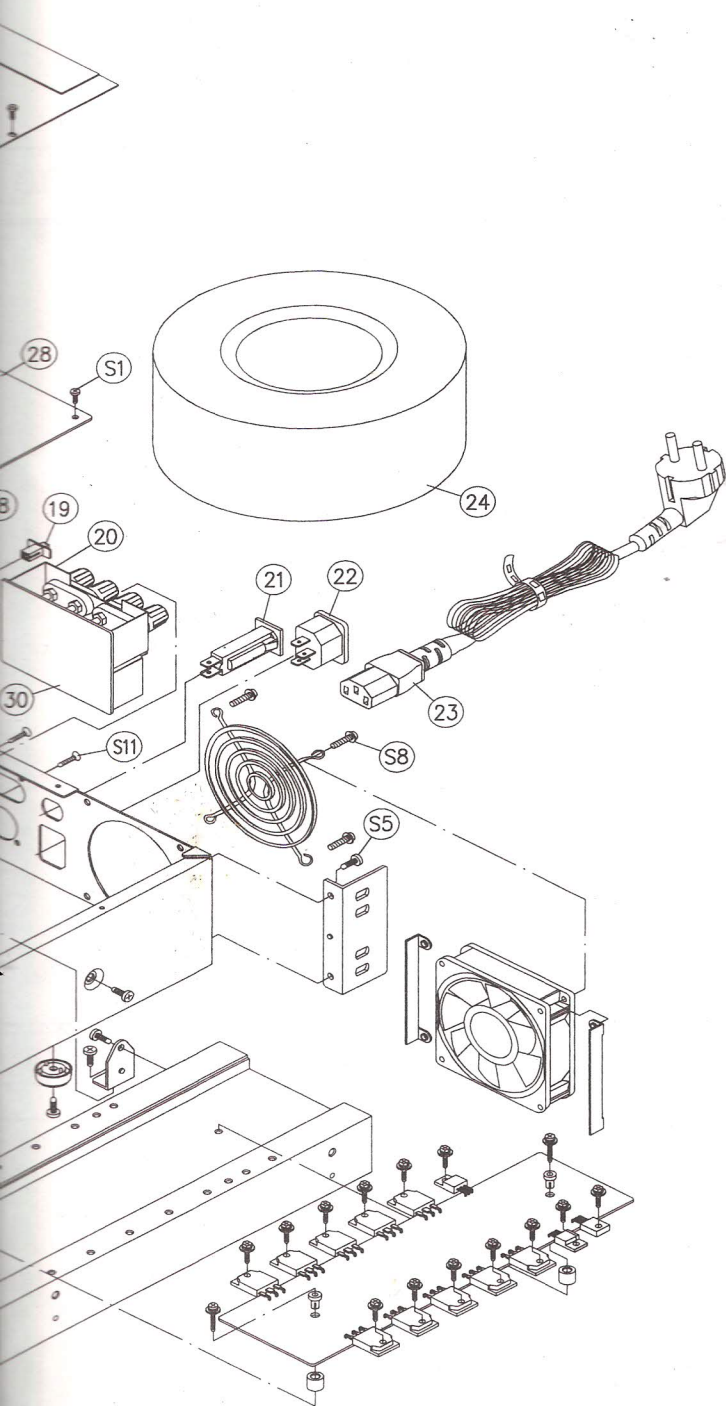


		M700	M1000
C501,502,503,504	JAPAN UL/CSA	6800/80	6800/100
	DOM/EUROPE	8200/80	6800/100
F101	JAPAN	15A	20A
	UL/CSA	12A	20A
	DOMESTIC	7A	10A
	EUROPE	7A	10A
FAN1,2		A8025H24B	F8025X24B
BD100		KBPC2504	KBPC3504

EXPLODED VIEW OF CABINET & CHASSIS/MECHANICAL PARTS LIST

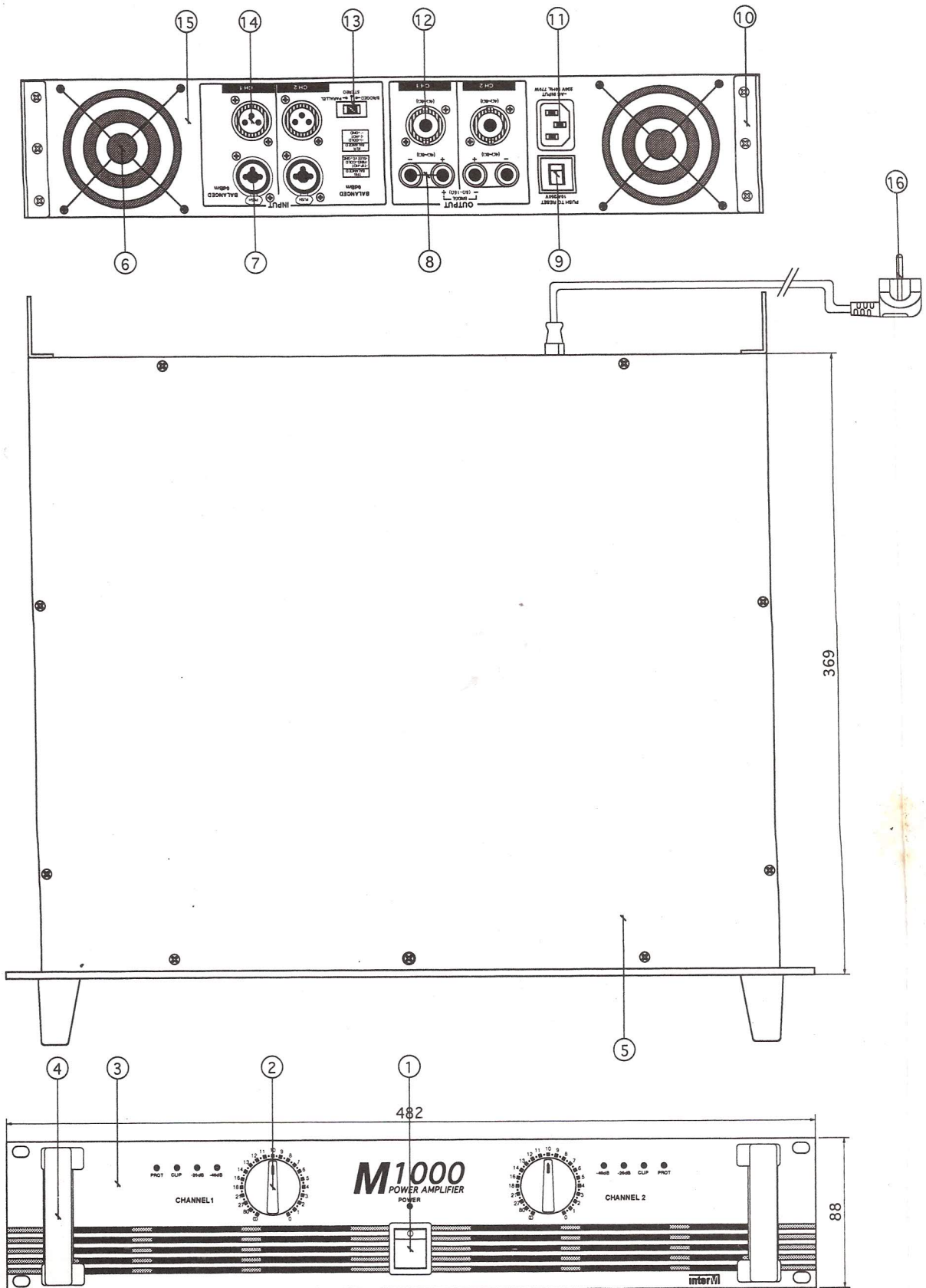


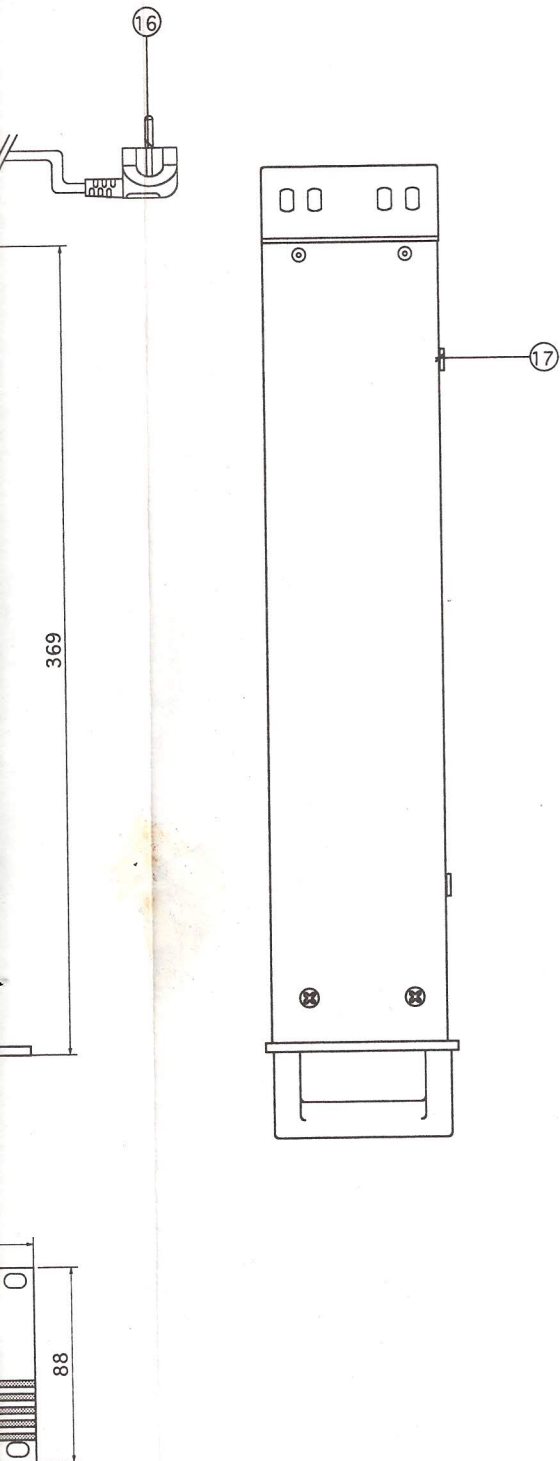
PARTS LIST



NO.	품 명	규 격	수 량		
			M-500	M-700	M-1000
S12	ASS'Y PM 4X18B	8095996930	1	1	1
S11	SCREW 2FTC 3X10B	8129230123	4	4	4
S10	DOT SCREW BM 3X8B	8095996720	1	1	1
S9	DOT SCREW 2BTC 3X8B	8095996510	11	11	11
S8	ASS'Y PM 4X16N	8095997010	5	9	9
S7	HEX MSPM 3X12Y	8099130121	22	22	30
S6	ASS'Y PM 3X22B	8095997110	2	4	4
S5	SCREW 3BTC 4X18Y	8109340181	4	4	4
S4	SCREW 3BTC 4X8B	8109340083	12	12	12
S3	SCREW BM 4X8B	8009140083	6	12	12
S2	SCREW 3BTC 3X6B	8109330063	18	18	18
S1	SCREW BM 3X6N	8009130064	9	9	9

33	B'D LED	4005187830-40	2	M-500 : 4005187630-40
32	B'D VOLUME	4005187820	1	M-500 : 4005187620
31	B'D AMP	4005187700	1	M-500
		4005187900	2	M-700/1000
30	B'D OUTPUT	4005187850	1	M-500 : 4005187650
29	B'D INPUT	4005187810	1	M-500 : 4005187610
28	B'D MAIN	4005187800	1	M-500 : 4005187600
27	WASHER SPRING #10B	8309100013	1	
26	NUT M10B	8209110013	1	
25	FOOT&FOOT FELT	056335999510	4	
24	POWER TRANS	28280672 지형	1	M-500 (10: E군, 20: DOM, 30: B/C군, 40: D군)
		28280671 지형	1	M-700 (10: E군, 20: DOM, 30: B/C군, 40: D군)
		28280670 지형	1	M-1000 (10: E군, 20: DOM, 30: B/C군, 40: D군)
23	AC CORD	4308999310	1	E군
		4308998000	1	D군
		4308996710	1	C군
		4308999410	1	B군
22	AC INLET	4448997410	1	M-1000
21	CIRCUIT BREAKER	5568223333	1	M-500
		5568223633	1	M-700
		5568224533	1	M-1000
20	BKT (PCB)	6503973410	1	
19	KNOB SLIDE	8545084520	1	
18	BKT GND	6505955520	1	
17	FAN COVER	6538999110	2	M-500 : 1EA (오른쪽 사제)
16	BKT (REAR)	6505939910	2	
15	FAN	7308999010	2	M-500 : 1EA (오른쪽 사제)
14	FAN BKT	046505968210	4	M-500 : 1EA (오른쪽 사제)
13	SPACER	6705998310	4	M-500 : 2EA
12	SPACER HOLDER	6705998410	4	M-500 : 2EA
11	DIODE	2058100998	1	
10	POWER SW	4625996611	1	
9	BKT (HEAT SINK)	6505939810	4	M-500 : 2EA
8	BKT (VOLUME)	6505940110	2	
7	KNOB (CONTROL)	048543985918	2	
6	BKT (HANDLE)	6505940010	2	
5	HANDLE	048603995220	2	
4	TOP COVER	046122095910	1	M-500 : 046122095920
3	HEAT SINK	7502090910	1	M-500 (오른쪽 사제)
		7502091210	2	M-700/1000
2	CHASSIS MAIN	046121679410	1	M-500 : 046121679420
1	PANEL FRONT	048602972510	1	





No	Part No.	Description	Q'ty	Remark
1	4625996611	POWER SW.	1	
2	048543985918	CONTROL KNOB	2	BLACK-GOLD
3	048602972511	PANEL FRONT	1	M-1000
	048602972512	PANEL FRONT	1	M-700
	048602972513	PANEL FRONT	1	M-500
4	048603995220	HANDLE 2SIZE	2	
5	046122095920	TOP COVER	1	
6	6538999110	FAN COVER	2	
7	4438090310	COMBINATION JACK	2	
8	4438090210	BINDING POST TERMINAL	2	
9	5568223433	CIRCUIT BREAKER	1	
10	046505939911	B.K.T	2	
11	4448997410	AC INLET	1	
12	4438091710	SPEAKON JACK	2	
13	8545084520	SLIDE KNOB	1	
14	4408194310	XLR JACK(M)	2	
15	046121679411	MAIN CHASSIS (M-1000)	1	KOREA
	046121679412		1	B,C(230V)
	046121679413		1	E(120V)
	046121679414		1	D(240V)
	046121679415	MAIN CHASSIS (M-700)	1	KOREA
	046121679416		1	B,C(230V)
	046121679417		1	E(120V)
	046121679418		1	D(240V)
	046121679421	MAIN CHASSIS (M-500)	1	KOREA
	046121679422		1	B,C(230V)
	046121679423		1	E(120V)
	046121679424		1	D(240V)
16	4308997310	AC CORD	1	
17	056335999510	FOOT	4	

interM

MADE IN KOREA
NO: 9007977300