

SERVICE MANUAL

MODEL NO.: RP-2000MK3/MK3S

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GENERAL SPECIFICATION

1. APPLICATION:

This specification applies to the direct drive turntable unit RP-2000MK3/RP-2000MK3s

2. STANDARD TEST CONDITION:

2-1 Ambient Temperature	20 +/- 2 degC
2-2 Relative Humidity	65% +/- 5%

NOTE: Measurements can be carried out between 5 degC to 35 degC and 45% to 85% relative humidity.

3. TURNTABLE SECTION:

3-1 Type	2-speed full manual
3-2 Motor	8pole,2phase,brushless DC motor
3-3 Driving Method	Direct drive
3-4 Turntable Platter	330mm dia. Aluminum diecast
3-5 Speeds	33 ¹ / ₃ and 45rpm
3-6 Wow and Flutter	Less than 0.15% WRMS (JIS WTD)
3-7 S/N Ratio	More than 50dB (DIN-B)
3-8 Pitch Controls	+/- 10%
3-9 Starting Torque	More than 1 kgf.cm
3-10 Braking System	Electronic brake
3-11 Starting Time	Less than 1 sec.
3-12 Braking Time	Less than 1 sec.
3-13 Time for Speed Change	Less than 1 sec. from 33 to 45 rpm. Less than 1 sec. from 45 to 33 rpm.
3-14 High of cue(first track)	8~10.5mm
3-15 Descend of cue	Less than 5 sec.
3-16 Beat output	675±1 Hz (pitch control set 0%)

4. TONEARM SECTION:

4-1 Type	Static balanced S-shaped tonearm with detachable headshell
4-2 Effective Arm Length	230.5mm
4-3 Overhang	16mm
4-4 Tracking Error Angle	Less than 3 degree
4-5 Tracking Force Adjustment Range	0-4g
4-6 Applicable Cartridge Weight	6-10g
4-7 Anti-skating Range	0-7g
4-8 Output	1.5~3.6mV at 1KHz 5cm/sec (HP-4005)
4-9 Frequency Response	20Hz~20KHz
4-10 Channel Separation	More than 15 dB
4-11 Channel Balance	Within 2.5dB at 1KHz
4-12 Needle Pressure range	1.5-2g

5. GENERAL SECTION:

5-1 Power Supply	AC 115/230V, 50/60Hz
5-2 Power Consumption	7.5 Watts
5-3 Dimensions	450 (W) x 352 (D) x 144 (H)mm
5-4 Weight	9.5Kgs

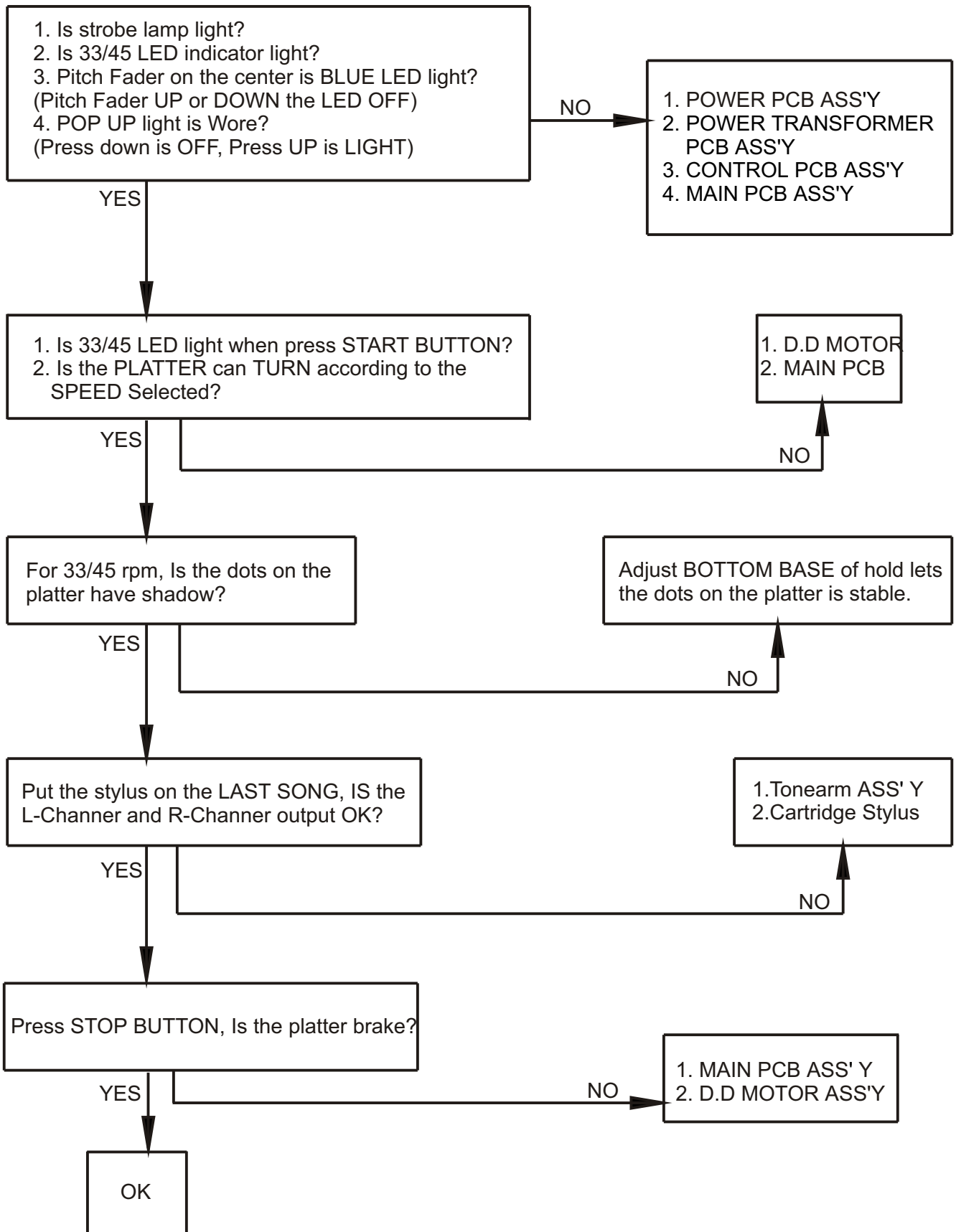
6. ACCESSORIES SUPPLIED

Instruction manual x 1, Platter x 1, Slipmat x 1, Cartridge x 1
Headshell x 1, Counterweight x 1, AC Cord x 1

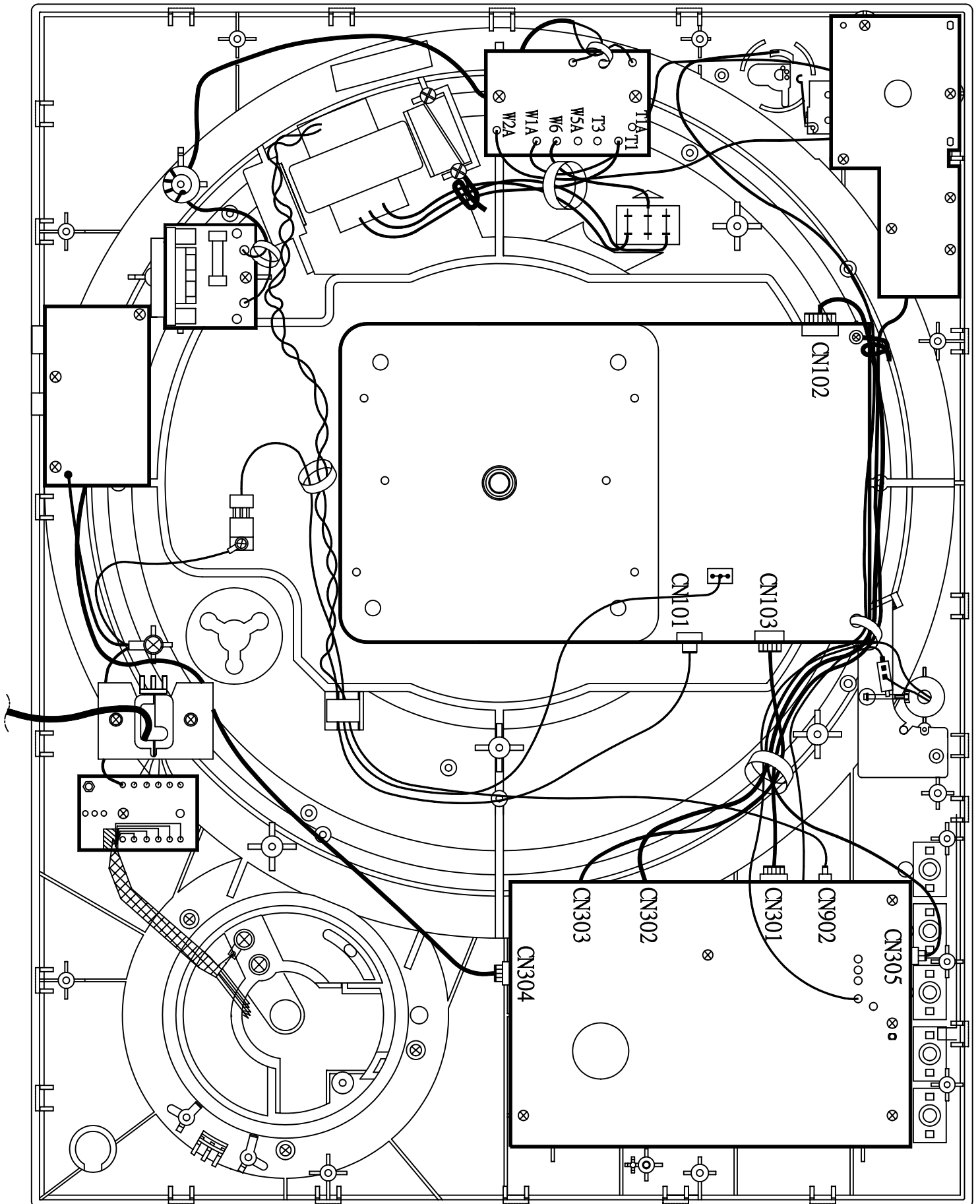
7. SPECIFICATION

DESCRIPTIONS	UNIT	NORMAL	LIMIT
(1) Output Difference	dB	2.3	2.5
(2) Output Level	mv	1.7~3.5	1.5~3.6
(3) Speed (Speed Range)	Hz	2700↓,3300↑	2700↓,3300↑
(4) Speed (Center Range)	Hz	2995~3005	2990~3010
(5) Wow and Flutter	%	0.13	0.15
(6) Channel separation	dB	16	15

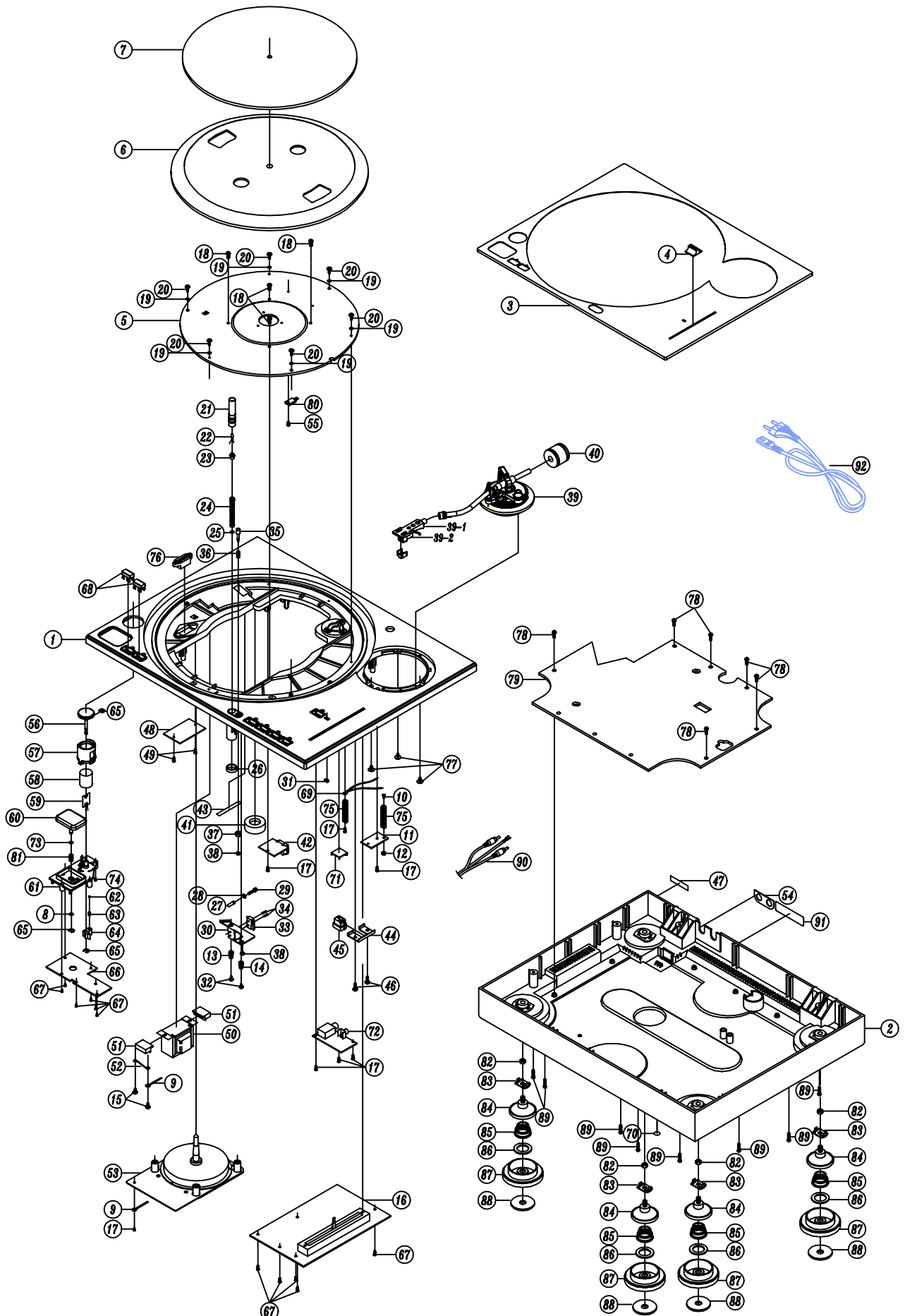
TROUBLESHOOTING



POINT TO POINT DIAGRAM



EXPLODED VIEW



RP-2000A/A1

EXPLODED VIEW PART LIST

REF NO.	DESCRIPTION	PART NO.	Q' TY	REMARK
1	CHASSIS	100-RP1000-2004	1	
2	BOTTOM BASE	100-RP5000-1457D	1	
3	METAL FOR CABINET	300-2000A2B-920	1	2000MK3
3	METAL FOR CABINET	300-2000A2S-920	1	2000MK3S
4	SPEED PUSH BUTTON(ABS)	100-DJ4500-1289	1	
5	MOTOR FIXED PLATE	300-TT100-687A	1	
6	ALUMINIUM PLATTER	200-TT100-232B	1	
7	SLIPMAT	612-RP2000-052	1	
8	SPACER FOR NOISE ELIMINATION	612-ST150-150	1	
9	PVC TUBE	504-HV3500K-033	2	
10	SCREW	602-B300-041	1	
11	OUTPUT PCB	405-DJ3000-417	1	
12	NUT	601-A100-004	1	
13	SPRING FOR LAMP	603-DJ1900-239	1	
14	SPOT LIGHT SPRING (BLACK)	603-DJ1900-137	1	
15	SCREW	602-M400-055	2	
16	MAIN PCB ASS' Y	704-RP2000A-4001	1	2000MK3
16	MAIN PCB ASS' Y	704-2000A1-4004	1	2000MK3S
17	SCREW	602-B600-057	7	
18	SCREW	602-RP5000-412	4	
19	WASHER	606-NT1000-124	6	
20	SCREW(PTC,DIAMETER3*12,BLACK)	602-DD3250-121	6	
21	SPOT LIGHT COVER	200-NT1000-227A	1	
22	SPOT LIGHT (DV12V 75mA)	410-BJ1900-046	1	
23	SPOT LIGHT RUBBER BASE	604-DJ1900-067	1	
24	SPOT LIGHT BUTTON SPRING	603-DJ1900-139	1	
25	CUSHION	612-BJ1900-062	1	
26	MUTE CUSHION(RUBBER)	604-DJ1900-066A	1	
27	FIXED AXES (COPPER)	200-DJ1900-159A	1	
28	WASHER	606-B300-039	1	
29	SCREW(3*16 P=0.5)	602-BJ1900-299	1	
30	SWITCH FIXING PLATE	300-DJ1900-206	1	
31	LED LENS	100-NT2000-1627	1	
32	SCREW (CAP)	602-B752-103	2	
33	LEAF SW(MQS-52-5LIN)	403-DJ1900-030	1	
34	SCREW (DIA 2*8mm P=0.4)	602-S100-030	2	
35	SPOT LIGHT BUTTON(NIUM)	200-DJ1900-157	1	
36	LEAF SPRING	603-DJ1900-138	1	
37	NUT	601-SL24F-010	1	
38	MUTE CUSHION(EVA BLACK)	612-DJ1900-013	2	
39	TONE ARM ASS'Y	704-RP1000A-4048	1	2000MK3
39	TONE ARM ASS'Y	704-RP1000A1-4049	1	2000MK3S
39-1	HEADSHELL ASS'Y	703-RP5000A-733	1	2000MK3
39-1	HEADSHELL ASS'Y	703-RP5000A1-732	1	2000MK3S
39-2	CARTRIDGE	402-H468-004	1	
40	COUNTER WEIGHT ADJUSTOR ASS'Y	702-BJ2350-018	1	
41	CORD (BR128*13*16)	415-PROTT1-118	1	
42	AC JACK ASS'Y	704-NT2000-2399	1	
43	FUSH LABEL (40*24mm,t=0.08mm)	501-DJ2500-1298A	1	
44	FIXED PLATE	300-DJ3000-565	1	
45	CORD BUSH	100-HC1421FR-991	1	
46	SCREW	602-B600-058	2	
47	SERIES NO LABEL	501-DV300-1067	1	
48	AC PCB ASS' Y	704-DJ3500-2914	1	
49	SCREW (TTP CAP M3*8)	602-B600-056	2	

EXPLODED VIEW PART LIST

REF. NO.	DESCRIPTION	PART NO.	Q' TY	REMARK
50	TRANSFORMER(AC115/230V,EI-48)	411-DD2220-162	1	
51	CUSHION RUBBER FOR TRANSFORMER	604-DJ1900-064	2	
52	TRANSFORMER LEAF SPRING	603-DJ1900-136	1	
53	D.D. MOTOR ASS'Y	704-DD2220-2712	1	
54	DECORATIVE PLATE (PVC 0.5t)	501-RP5000-1233	1	
55	SCREW (BTP,DIA3*8)	602-DJ3000-274	1	
56	POWER KNOB AND SHAFT ASS' Y	701-RP5000A-2754	1	2000MK3
56	POWER KNOB AND SHAFT ASS' Y	701-RP5000-2704	1	2000MK3S
57	SPOTLIGHT HOLDER	100-DJ3220-1461A	1	2000MK3
57	SPOTLIGHT HOLDER	100-RP5000-1461A	1	2000MK3S
58	TRANSPARENT SHEET (PVC, t=0.3mm)	501-DJ3000-1149	1	
59	LED PCB ASS' Y	704-RP5000-3992	1	2000MK3
59	LED PCB ASS' Y	704-ST100-3147	1	2000MK3S
60	START/STOP BUTTON & SHAFT ASS' Y	701-RP5000-2703	1	
61	BUTTON & SHAFT ASS' Y	701-RP5000-2702	1	
62	STEEL BALL	607-B600-002	1	
63	SPRING	603-DJ3110-230	1	
64	TUNING SHAFT (POWER)	100-DJ2500-1292	1	
65	E-RING WASHER	606-F200-011	3	
66	VELOCITY NODULATE PCB ASS' Y	704-RP2000A-4022	1	2000MK3
66	VELOCITY NODULATE PCB ASS' Y	704-RP2000A1-4003	1	2000MK3S
67	SCREW (2.6*8 PTP)	602-SL24F-099	11	
68	33/45 KNOB	100-RP5000-2006	2	
69	GROUND WIRE ASS'Y(L=80mm,AWM1007 AWG22)	406-DJ3000-471	1	
70	MOTOR COVER LABEL	501-DM9000-1605	1	
71	WIRE MOUNT	504-ST100-118	1	
72	BEAT OUT PCB ASS' Y	704-RP2000-4005	1	
73	HIMELON CUSHION	612-DJ3500-107	1	
74	SCREW	602-KMD510P-183	1	
75	SHEILDING SPRING	603-ST100-245	2	
76	SLIDE SW(L21-22A1,6PIN)	403-DJ3000-106	1	
77	SCREW(BTP,DIA3*8,CAP,DIA10)	602-DJ3000-273	3	
78	SCREW (3*10m/m)	602-3113-122	6	
79	BOTTOM PLATE	300-DJ3000-575A	1	
80	IC(NJM7824)	417-DJ2500-268	1	
81	SPRING FOR START/STOP BUTTON	603-DJ3500-242	1	
82	NUT	601-DJ2500-017	4	
83	FOOT FIXED PLATE	100-DJ2500-1284	4	
84	RUBBER FOOT (BLACK)	604-DJ1900-075	4	
85	SPRING FOR FOOT	603-DJ3500-243	4	
86	CUSHION FOR FOOT SPRING (EVA BLACK)	612-DJ1900-017	4	
87	PLASTIC FOOT (ABS HOT STAMP)	100-DJ3110-590	4	
88	CUSHION FOR FOOT	612-ST150-153	4	
89	SCREW	602-DJ3500-326	8	
90	SIGNAL WIRE	408-RP1000A2B-063	1	
91	RATING LABEL	501-RP1000A-719	1	
92	AC POWER CORD	409-DJ2-070	1	

ELECTRONIC PART LIST RP-2000MK3S

REF. NO.	DESCRIPTION	PART NO.	Q' TY
	MAIN PCB ASS'Y	704-2000A1-4004	1
CN303	6P CONNECTOR WIRE(L=165mm,AWM1007 AWG26)	404-DD2220-908	1
CN302	8P CONNECTOR WIRE(L=300mm,AWM1007 AWG26)	404-DD2220-909	1
IC302	IC SOCKET(20 PIN)	404-DJ2500-791	1
CN305	3P SOCKET(S3B-PH-K,JST,90°)	404-HMD5000-784	1
CN301	6P CONNECTOR BASE(JST P=2.5mm)	404-HV3500K-624	1
CN902	2P CONNECTOR(JST P=2.5mm)	404-KMD1500-607	1
CN304	5P SOCKET(S5B-PH-K,JST,90°)	404-KMD280A-318	1
J306	JUMPER (W=5mm L=10mm)	406-2002-106	1
TO 探照燈 SW	GROUND WIRE(L=140mm,BLACK,AWM1007 AWG22)	406-DJ3000-472	1
D305	LED(LTL42UB6N,BLUE)	410-HDJ9500-148	1
VR302	RESISTOR(500B)	412-CDN22A-372	1
C901	ELEC. CAPACITOR(1000uF/35V,M,BULK 13*21)	413-DJ1900-110	1
C904	ELEC. CAPACITOR(1000uF/16V,M,BULK 10*16)	413-F202-001	1
IC902	IC(7812)	417-BJ1900L-231	1
IC301	IC(TC4069UBP DIP14)	417-DJ2000-235	1
IC901	IC 7805	417-KC730-123	1
	HEAT SINK	425-DJ1900-003	2
X301	OSC (6MHz)	427-DJ2500-049	1
D305	LED HOLDER(LED3-14-B,H=14mm)	504-ST100-112	1
	NUT	601-A100-004	2
	SCREW(M3*9)	602-DJ1900-148	2
C304,305	CERAMIC CAPACITOR(20pF/50V J NPO TAPING)	413-3113-034	2
C302,303,308,903	CERAMIC CAPACITOR(0.1uF/50V Z Y5V TAPING)	413-3113-035	4
C301,902	ELEC. CAPACITOR(100uF/10V,M,TAPING 5*11)	413-3113-046	2
C306	ELEC. CAPACITOR(1uF/50V,M,TAPING 5*11,NP)	413-3113-047	1
C307	ELEC. CAPACITOR(1uF/50V,M,TAPING 5*11)	413-3113-049	1
C314	ELEC. CAPACITOR(4.7uF/50V,M,TAPING 5*11)	413-3113-050	1
C310	MYLAR CAPACITOR(0.0015uF 50V)	413-HT7016-219	1
C309	M.C.(0.0012uF TAPING)	413-HV3423K-343	1
C319	ELEC. CAPACITOR(0.22uF/50V,M,TAPING 5*11)	413-NT2000-475	1
Q306,308,310	DIGITAL TRANSISTOR(DTC124TS TAPING OR 2SC4120)	416-1330-020	3
Q304,305,307	TRANSISTOR(2SC1740R TAPING)	416-3113-007	3
Q302,303	TRANSISTOR(2SA933SR TAPING OR 2SA608G)	416-3113-008	2
Q301	TRANSISTOR(DTC124ES TAPING OR 2SC3400)	416-3113-010	1
Q312	TRANSISTORS (2SC3330U-AC)	416-DJ1900-023	1
Q309	TRANSISTOR(DTA124ES TAPING OR 2SA1346)	416-KC710-038	1
Q311	TRANSISTOR(2SA1015/2SA1015-GR,TAPING)	416-KE200X-021	1
	MAIN PCB(BARE,110*150*1.6t)	405-RP2000-919A	1
R309	CARBON FILM RESISTOR(33K OHM J 1/6W TAPING 26mm)	412-3113-045	1
R322,331	CARBON FILM RESISTOR(2.2K OHM J 1/6W TAPING 26mm)	412-3113-048	2
R316	CARBON FILM RESISTOR(27K OHM J 1/6W TAPING 26mm)	412-3113-054	1
R326,327,329	CARBON FILM RESISTOR(220 OHM J 1/6W TAPING 26mm)	412-3113-058	3
R303,313,318	CARBON FILM RESISTOR(22K OHM J 1/6W TAPING 26mm)	412-3113-059	3
R314	CARBON FILM RESISTOR(100 OHM J 1/6W TAPING 26mm)	412-3113-060	1
R305,306,310,311	CARBON FILM RESISTOR(10K OHM J 1/6W TAPING 26mm)	412-3113-068	4
R321,323,325,328	CARBON FILM RESISTOR(10K OHM J 1/6W TAPING 26mm)	412-3113-068	4
R307,308	CARBON FILM RESISTOR(2.7K OHM J 1/6W TAPING 26mm)	412-3113-073	2
R304	CARBON FILM RESISTOR(180K OHM J 1/6W TAPING 26mm)	412-3113-074	1

ELECTRONIC PART LIST RP-2000MK3S

REF. NO.	DESCRIPTION	PART NO.	Q' TY
R301	CARBON FILM RESISTOR(390 OHM J 1/6W TAPING 26mm)	412-3113-076	1
R324,334	CARBON FILM RESISTOR(1K OHM J 1/6W TAPING 26mm)	412-3113-078	2
R302,315,330	CARBON FILM RESISTOR(1M OHM J 1/6W TAPING 26mm)	412-3113-079	3
D302,303,306,307	SWITCHING DIODE(1SS132/1SS133,300mw,55V,T-77)	414-3113-005	4
D901-905	DIODE(1N4001,1A/50V,TAPING 52mm)	414-DJ2500-110	5
L302	BEAD CORE(86-019-A TAPING)	415-HV3500K-090	1
	VR & HIMILON ASS'Y	704-DJ2000-1468	1
	SLIDE RESISTOR(1KB)	418-DJ2000-045B	1
	VR CUSHION(0.5t)	612-DJ1900-015	1
IC302	IC ASS'Y(CHECK SUM:1D97)	704-DJ2500-1664	1
IC302	IC(AT89C2051-24PC,OTP)	417-DJ2500-267	1
IC302	IC ASS'Y(CHECK SUM:1D97)	704-DJ2500-1664A	
	IC(AT89C2051/AT89C2051-24PC,KOREA)	417-DJ2500-267A	1
IC302	IC ASS'Y(CHECK SUM:1D97)	704-DJ2500-1664B	
	IC(AT89C2051-24PC,CHINA)	417-DJ2500-267B	1

ELECTRONIC PART LIST RP-2000MK3

REF. NO.	DESCRIPTION	PART NO.	Q' TY
	MAIN PCB ASS'Y	704-RP2000A-4001	1
CN303	6P CONNECTOR WIRE(L=165mm,AWM1007 AWG26)	404-DD2220-908	1
CN302	8P CONNECTOR WIRE(L=300mm,AWM1007 AWG26)	404-DD2220-909	1
IC302	IC SOCKET(20 PIN)	404-DJ2500-791	1
CN305	3P SOCKET(S3B-PH-K,JST,90°)	404-HMD5000-784	1
CN301	6P CONNECTOR BASE(JST P=2.5mm)	404-HV3500K-624	1
CN902	2P CONNECTOR(JST P=2.5mm)	404-KMD1500-607	1
CN304	5P SOCKET(S5B-PH-K,JST,90°)	404-KMD280A-318	1
J306	JUMPER (W=5mm L=10mm)	406-2002-106	1
TO 探照燈 SW	GROUND WIRE(L=140mm,BLACK,AWM1007 AWG22)	406-DJ3000-472	1
D305	LED(RED)	410-HV3700K-114	1
VR302	RESISTOR(500B)	412-CDN22A-372	1
C901	ELEC. CAPACITOR(1000uF/35V,M,BULK 13*21)	413-DJ1900-110	1
C904	ELEC. CAPACITOR(1000uF/16V,M,BULK 10*16)	413-F202-001	1
IC902	IC(7812)	417-BJ1900L-231	1
IC301	IC(TC4069UBP DIP14)	417-DJ2000-235	1
IC901	IC 7805	417-KC730-123	1
	HEAT SINK	425-DJ1900-003	2
X301	OSC (6MHz)	427-DJ2500-049	1
D305	LED HOLDER(LED13-,H=13mm)	504-DJ3000-048	1
	NUT	601-A100-004	2
	SCREW(M3*9)	602-DJ1900-148	2
C304,305	CERAMIC CAPACITOR(20pF/50V J NPO TAPING)	413-3113-034	2
C302,303,308,903	CERAMIC CAPACITOR(0.1uF/50V Z Y5V TAPING)	413-3113-035	4
C301,902	ELEC. CAPACITOR(100uF/10V,M,TAPING 5*11)	413-3113-046	2
C306	ELEC. CAPACITOR(1uF/50V,M,TAPING 5*11,NP)	413-3113-047	1
C307	ELEC. CAPACITOR(1uF/50V,M,TAPING 5*11)	413-3113-049	1
C314	ELEC. CAPACITOR(4.7uF/50V,M,TAPING 5*11)	413-3113-050	1
C310	MYLAR CAPACITOR(0.0015uF 50V)	413-HT7016-219	1
C309	M.C.(0.0012uF TAPING)	413-HV3423K-343	1
C319	ELEC. CAPACITOR(0.22uF/50V,M,TAPING 5*11)	413-NT2000-475	1
Q306,308,310	DIGITAL TRANSISTOR(DTC124TS TAPING OR 2SC4120)	416-1330-020	3
Q304,305,307	TRANSISTOR(2SC1740R TAPING)	416-3113-007	3
Q302,303	TRANSISTOR(2SA933SR TAPING OR 2SA608G)	416-3113-008	2
Q301	TRANSISTOR(DTC124ES TAPING OR 2SC3400)	416-3113-010	1
Q312	TRANSISTORS (2SC3330U-AC)	416-DJ1900-023	1
Q309	TRANSISTOR(DTA124ES TAPING OR 2SA1346)	416-KC710-038	1
Q311	TRANSISTOR(2SA1015/2SA1015-GR,TAPING)	416-KE200X-021	1
	MAIN PCB(BARE,110*150*1.6t)	405-RP2000-919A	1
R309	CARBON FILM RESISTOR(33K OHM J 1/6W TAPING 26mm)	412-3113-045	1
R322,331	CARBON FILM RESISTOR(2.2K OHM J 1/6W TAPING 26mm)	412-3113-048	2
R316	CARBON FILM RESISTOR(27K OHM J 1/6W TAPING 26mm)	412-3113-054	1
R326,327,329	CARBON FILM RESISTOR(220 OHM J 1/6W TAPING 26mm)	412-3113-058	3
R303,313,318	CARBON FILM RESISTOR(22K OHM J 1/6W TAPING 26mm)	412-3113-059	3

ELECTRONIC PART LIST RP-2000MK3

REF. NO.	DESCRIPTION	PART NO.	Q' TY
R314	CARBON FILM RESISTOR(100 OHM J 1/6W TAPING 26mm)	412-3113-060	1
R305,306,310,311	CARBON FILM RESISTOR(10K OHM J 1/6W TAPING 26mm)	412-3113-068	4
R321,323,325,328	CARBON FILM RESISTOR(10K OHM J 1/6W TAPING 26mm)	412-3113-068	4
R307,308	CARBON FILM RESISTOR(2.7K OHM J 1/6W TAPING 26mm)	412-3113-073	2
R304	CARBON FILM RESISTOR(180K OHM J 1/6W TAPING 26mm)	412-3113-074	1
R301	CARBON FILM RESISTOR(390 OHM J 1/6W TAPING 26mm)	412-3113-076	1
R324,334	CARBON FILM RESISTOR(1K OHM J 1/6W TAPING 26mm)	412-3113-078	2
R302,315,330	CARBON FILM RESISTOR(1M OHM J 1/6W TAPING 26mm)	412-3113-079	3
D302,303,306,307	SWITCHING DIODE(1SS132/1SS133,300mw,55V,T-77)	414-3113-005	4
D901-905	DIODE(1N4001,1A/50V,TAPING 52mm)	414-DJ2500-110	5
L302	BEAD CORE(86-019-A TAPING)	415-HV3500K-090	1
	VR & HIMILON ASS'Y	704-DJ2000-1468	1
	SLIDE RESISTOR(1KB)	418-DJ2000-045B	1
	VR CUSHION(0.5t)	612-DJ1900-015	1
IC302	IC ASS'Y(CHECK SUM:1D97)	704-DJ2500-1664	1
IC302	IC(AT89C2051-24PC,OTP)	417-DJ2500-267	1
IC302	IC ASS'Y(CHECK SUM:1D97)	704-DJ2500-1664A	
	IC(AT89C2051/AT89C2051-24PC,KOREA)	417-DJ2500-267A	1
IC302	IC ASS'Y(CHECK SUM:1D97)	704-DJ2500-1664B	
	IC(AT89C2051-24PC,CHINA)	417-DJ2500-267B	1

ELECTRONIC PART LIST RP-2000MK3S

REF. NO.	DESCRIPTION	PART NO.	Q' TY
	AC & VELOCITY MODULATE PCB ASS'Y	704-RP2000A1-4002	1
AC 之 GND TO SOCKET	WIRE(RED L=550mm)	406-DJ1900-244	1
	LEAD WIRE(L=570mm,AWM1617 AWG22,BROWN)	406-NT2000-543	1
	CORD(BRI28*13*16)	415-PROTT1-118	1
	CABLE TIE	504-S100-004	2
	AC PCB ASS'Y	704-DJ3500-2914	1
	AC PCB(BARE,394V0,61*39*1.6t)	405-DJ100-591A	1
J01	JUMP WIRE(W=10mm L=10mm)	406-2002-105	1
W06 TO 切換開關中間	LEAD WIRE(L=80mm,UL1617#22,YELLOW)	406-CDN34A-448	1
W01A TO W01	LEAD WIRE(L=230mm,AWM1617 AWG22,RED)	406-DJ2550-527	1
W02A TO W02	LEAD WIRE(L=190mm,AWM1617 AWG22,BROWN)	406-DJ2550-528	1
R02	UL RESISTOR(1M,1/2W,J,TAPING 52mm)	412-DJ4500-627	1
C01	C.C.(BLUE 4700PF 400V 0+/-0.2 VDE)	413-1431-104	1
C02	MEX CAPACITOR(0.1uF,K,BULK)	413-PROTT1-432	1
	AC JACK ASS'Y	704-NT2000-2399	1
	AC JACK(SC13-14)	404-DJ2-021	1
	AC JACK PCB(394V0,37*34*1.6t)	405-DJ2-062A	1
	FUSE CLIPS(FC-1206/WL-210A,15A)	420-KT350A-004	2
	FUSE	422-KT350A-003	1
	FUSE COVER	504-DJ2500J-046	1
	VELOCITY MODULATE PCB ASS'Y	704-RP2000A1-4003	1
SW01	MICRO SW(SMV-05S-04C,3PIN)	403-BJ2300-089	1
SW202,203	TACT SW(SKHVBE3520-HF,TAPING)	403-DCM270X-101	2
SW201	TACT SW(DM-03L-2P,3PIN)	403-DJ3500-134	1
CN201	6P2.5 CONNECTOR WIRE(L=270mm,AWM1007 AWG26)	404-RP2000-1521	1
	PLAY/STOP SW PCB(BARE)	405-RP2000-901	1
J202,201	JUMP WIRE(W=10mm L=10mm)	406-2002-105	2
D201,202	LED(LTL42UB5N,BULE)	410-NT2000-149	2
R202	CARBON FILM RESISTOR(470 OHM J 1/6W TAPING 26mm)	412-3113-056	1
R201	CARBON FILM RESISTOR(10K OHM J 1/6W TAPING 26mm)	412-3113-068	1
R203	CARBON FILM RESISTOR(180 OHM J 1/6W TAPING 26mm)	412-KC220-139	1
D203	SWITCHING DIODE(1SS132/1SS133,300mw,55V,T-77)	414-3113-005	1
Q201	TRANSISTOR(2SC1740R TAPING)	416-3113-007	1
D201,202	LED HOLDER(LED3-14-B,H=14)	504-ST100-112	2

ELECTRONIC PART LIST RP-2000MK3

REF. NO.	DESCRIPTION	PART NO.	Q' TY
	AC & VELOCITY MODULATE PCB ASS'Y	704-RP2000A-4021	1
AC 之 GND TO SOCKET	WIRE(RED L=550mm)	406-DJ1900-244	1
	LEAD WIRE(L=570mm,AWM1617 AWG22,BROWN)	406-NT2000-543	1
	CORD(BRI28*13*16)	415-PROTT1-118	1
	CABLE TIE	504-S100-004	2
	AC PCB ASS'Y	704-DJ3500-2914	1
	AC PCB(BARE,394V0,61*39*1.6t)	405-DJ100-591A	1
J01	JUMP WIRE(W=10mm L=10mm)	406-2002-105	1
W06 TO 切換開關中間	LEAD WIRE(L=80mm,UL1617#22,YELLOW)	406-CDN34A-448	1
W01A TO W01	LEAD WIRE(L=230mm,AWM1617 AWG22,RED)	406-DJ2550-527	1
W02A TO W02	LEAD WIRE(L=190mm,AWM1617 AWG22,BROWN)	406-DJ2550-528	1
R02	UL RESISTOR(1M,1/2W,J,TAPING 52mm)	412-DJ4500-627	1
C01	C.C.(BLUE 4700PF 400V 0+/-0.2 VDE)	413-1431-104	1
C02	MEX CAPACITOR(0.1uF,K,BULK)	413-PROTT1-432	1
	AC JACK ASS'Y	704-NT2000-2399	1
	AC JACK(SC13-14)	404-DJ2-021	1
	AC JACK PCB(394V0,37*34*1.6t)	405-DJ2-062A	1
	FUSE CLIPS(FC-1206/WL-210A,15A)	420-KT350A-004	2
	FUSE	422-KT350A-003	1
	FUSE COVER	504-DJ2500J-046	1
	VELOCITY MODULATE PCB ASS'Y	704-RP2000A-4022	1
SW01	MICRO SW(SMV-05S-04C,3PIN)	403-BJ2300-089	1
SW202,203	TACT SW(SKHVBE3520-HF,TAPING)	403-DCM270X-101	2
SW201	TACT SW(DM-03L-2P,3PIN)	403-DJ3500-134	1
CN201	6P2.5 CONNECTOR WIRE(L=270mm,AWM1007 AWG26)	404-RP2000-1521	1
	PLAY/STOP SW PCB(BARE)	405-RP2000-901	1
J202,201	JUMP WIRE(W=10mm L=10mm)	406-2002-105	2
D201,202	LED(RED)	410-CD6000-122	2
R202	CARBON FILM RESISTOR(470 OHM J 1/6W TAPING 26mm)	412-3113-056	1
R201	CARBON FILM RESISTOR(10K OHM J 1/6W TAPING 26mm)	412-3113-068	1
R203	CARBON FILM RESISTOR(180 OHM J 1/6W TAPING 26mm)	412-KC220-139	1
D203	SWITCHING DIODE(1SS132/1SS133,300mw,55V,T-77)	414-3113-005	1
Q201	TRANSISTOR(2SC1740R TAPING)	416-3113-007	1
D201,202	LED HOLDER(LED-13,H=13mm)	504-DJ3000-048	2

ELECTRONIC PART LIST RP-2000MK3/MK3S

REF. NO.	DESCRIPTION	PART NO.	Q' TY
	D.D. MOTOR PCB ASS'Y	704-DJ2500-2529	1
IC105	3P CONNECTOR WIRE(L=320mm,AWM1007 AWG26,P=2.5mm)	404-DJ2500-925	1
CN102	8P SOCKET(P=2.5mm)	404-HMD510-273	1
CN103	6P CONNECTOR BASE(JST P=2.5mm)	404-HV3500K-624	1
CN101	2P CONNECTOR(JST P=2.5mm)	404-KMD1500-607	1
J107,134	JUMPER (W=5mm L=10mm)	406-2002-106	2
VR101	SEMI FIXED RESISTOR(P=5mm M B100K YELLOW)	412-3113-043	1
R117	CARBON FILM RESISTOR	412-DM1000-363	1
R127	CARBON FILM RESISTOR(3.3M OHM J 1/6W TAPING 26mm)	412-KC220-130	1
背焊	CERAMIC CAPACITOR(0.1uF/50V Z Y5V TAPING)	413-3113-035	1
C116	ELEC. CAPACITOR(1000uF/50V,M,BULK 16*25)	413-DM1000-354	1
L101,102,103,104	COIL	415-DM1000-087	4
IC106	IC(TC4069UBP DIP14)	417-DJ2000-235	1
IC101	IC(TC9242/TC9242P,DIP16)	417-DJ2500-271	1
IC107	IC(74HC393/74HC393N,DIP14)	417-DJ2500-272	1
HE101,102	IC(HW300BE 4PIN)	417-DM1000-233	2
IC102	IC(STA431A DIP10)	417-DM1000-236	1
IC103,104	IC BA10358N 8PIN	417-KE200X-042	2
X102	CRYSTAL(5.5296MHz)	427-DM1000-046	1
	BOND(SC12N)	610-DM1000-025	
R114	CARBON FILM RESISTOR(560 OHM)	412-DJ2500-443	1
C103,107,111	CERAMIC CAPACITOR(0.047uF/50V Z Y5V TAPING)	413-3113-033	3
C108,119	CERAMIC CAPACITOR(0.1uF/50V Z Y5V TAPING)	413-3113-035	2
C109,110	CERAMIC CAPACITOR(10pF/50V J SL TAPING)	413-3113-039	2
C115	ELEC. CAPACITOR(100uF/10V,M,TAPING 5*11)	413-3113-046	1
C101,104	ELEC. CAPACITOR(4.7uF/50V,M,TAPING 5*11)	413-3113-050	2
C102	ELEC. CAPACITOR(10uF/25V,M,TAPING 5*11)	413-3113-052	1
C114	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356	1
C120,121,122,123	ELEC. CAPACITOR(100uf/25V,M,TAPING 6.3*11)	413-HS100-180	4
C106	CERAMIC CAPACITOR(150pF/50V K SL TAPING)	413-HT8015-154	1
C117,118	CERAMIC CAPACITOR(30pF/50V J NPO TAPING)	413-HT8015-171	2
C113	ELEC. CAPACITOR(0.33uF/50V,M,TAPING 5*11,NP)	413-KT350-090	1
C112	ELEC. CAPACITOR(0.47uF/50V,M,TAPING 5*11)	413-KT350-093	1
C126,127	CERAMIC CAPACITOR(100pF/50V K SL TAPING)	413-PXE90-107	2
Q101,103,105,106	TRANSISTOR(2SC1740R TAPING)	416-3113-007	4
Q107,108,109	TRANSISTOR(2SA933SR TAPING OR 2SA608G)	416-3113-008	3
	D.D.MOTOR PCB(394V0,119*198*1.2t)	405-DJ2500-552A	1
R113	CARBON FILM RESISTOR(5.6K OHM J 1/6W TAPING 26mm)	412-3113-044	1
R102	CARBON FILM RESISTOR(150K OHM J 1/6W TAPING 26mm)	412-3113-046	1
R108	CARBON FILM RESISTOR(100K OHM J 1/6W TAPING 26mm)	412-3113-047	1
R104	CARBON FILM RESISTOR(2.2K OHM J 1/6W TAPING 26mm)	412-3113-048	1
R101	CARBON FILM RESISTOR(220K OHM J 1/6W TAPING 26mm)	412-3113-050	1
R115	CARBON FILM RESISTOR(470OHM J 1/6W TAPING 26mm)	412-3113-056	1

ELECTRONIC PART LIST RP-2000MK3/MK3S

REF. NO.	DESCRIPTION	PART NO.	Q' TY
R105,109,112	CARBON FILM RESISTOR(10K OHM J 1/6W TAPING 26mm)	412-3113-068	3
R113,123-126	CARBON FILM RESISTOR(10K OHM J 1/6W TAPING 26mm)	412-3113-068	5
R118,119	CARBON FILM RESISTOR(680OHM J 1/6W TAPING 26mm)	412-3113-070	2
R107	CARBON FILM RESISTOR(1.8K OHM J 1/6W TAPING 26mm)	412-3113-075	1
R120	CARBON FILM RESISTOR(1M OHM J 1/6W TAPING 26mm)	412-3113-079	1
R128	CARBON FILM RESISTOR(3.3M OHM J 1/6W TAPING 26mm)	412-KC220-130	1
R116	CARBON FILM RESISTOR(180 OHM J 1/6W TAPING 26mm)	412-KC220-139	1
R106	CARBON FILM RESISTOR(8.2K OHM J 1/6W TAPING 26mm)	412-KM500-123	1
R103	CARBON FILM RESISTOR(82KOHM J 1/6W TAPING 26mm)	412-KT300-105	1
R110	CARBON FILM RESISTOR(68KOHM J 1/6W TAPING 26mm)	412-KT350-101	1
D101-108	DIODE(1N4001,1A/50V,TAPING 52mm)	414-DJ2500-110	8

ELECTRONIC PART LIST RP-2000MK3

REF. NO.	DESCRIPTION	PART NO.	Q' TY
	LED PCB ASS'Y	704-RP5000-3992	1
	NEON LAMP PCB(BARE,94V0,97.5*88*1.6t)	405-NT2000-567	1
	LED(RED)	410-CD6000-122	4
	LED HOLDER(LED-7.5A,H=7.5mm)	504-DJ3000-052	4

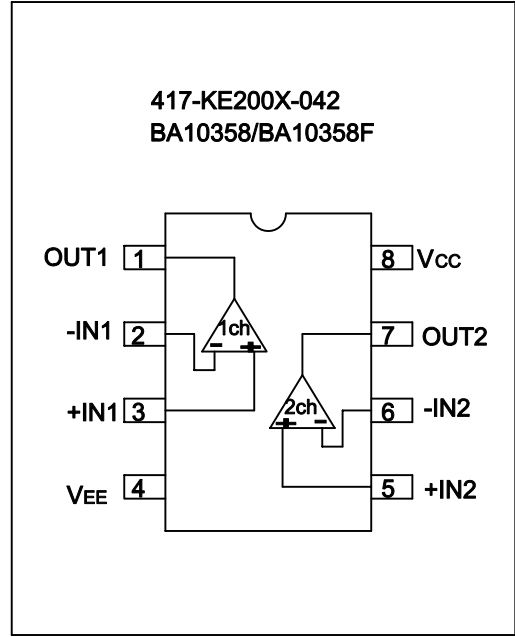
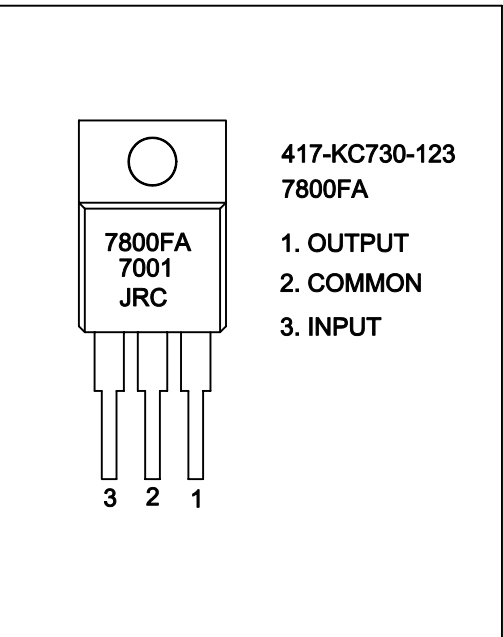
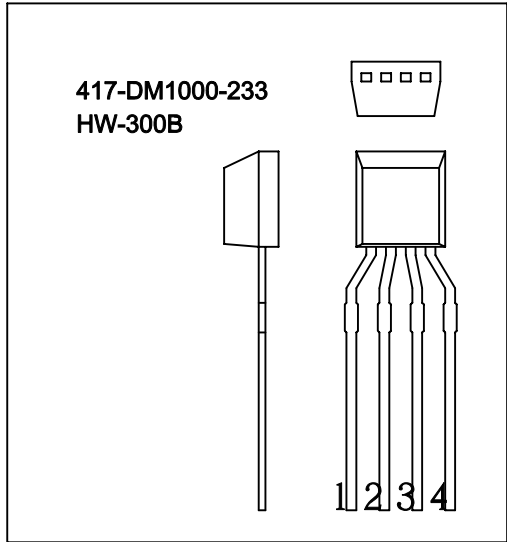
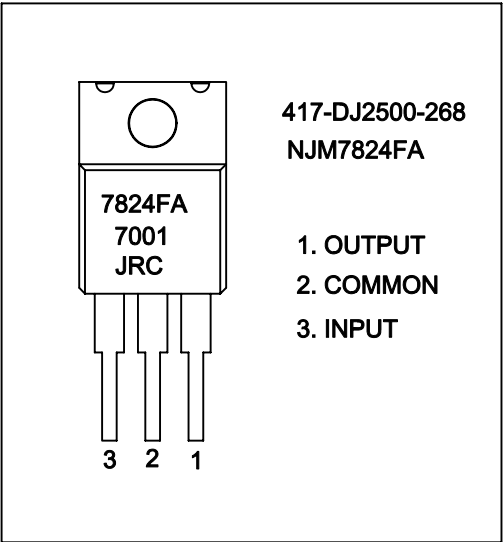
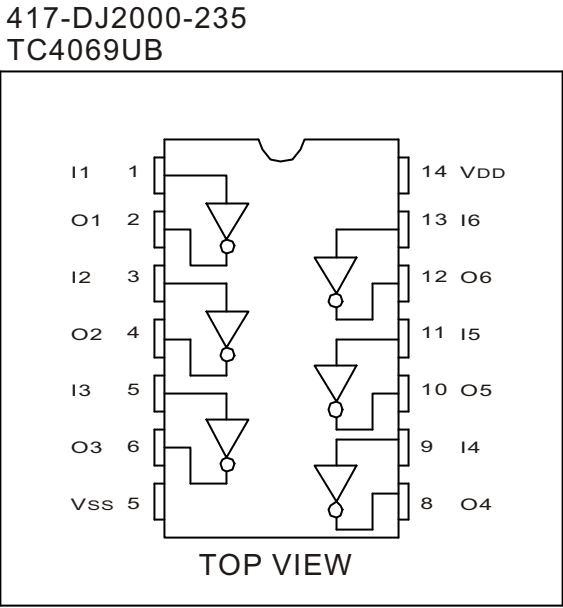
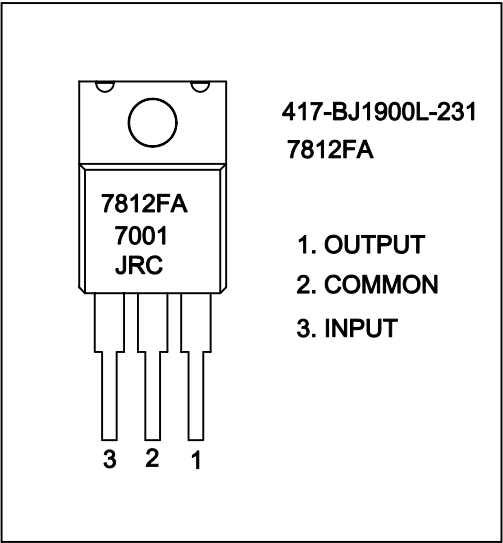
ELECTRONIC PART LIST RP-2000MK3S

REF. NO.	DESCRIPTION	PART NO.	Q' TY
	LED PCB ASS'Y	704-ST100-3147	1
	NEON LAMP PCB(BARE,94V0,97.5*88*1.6t)	405-NT2000-567	1
	LED(LTL42UB5N,BLUE)	410-NT2000-149	4
	LED HOLDER(LED-7.5A,H=7.5mm)	504-DJ3000-052	4

ELECTRONIC PART LIST RP-2000MK3S/MK3

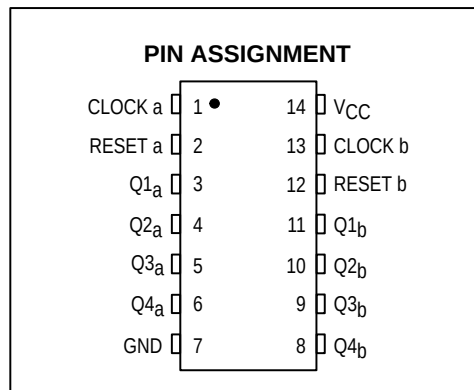
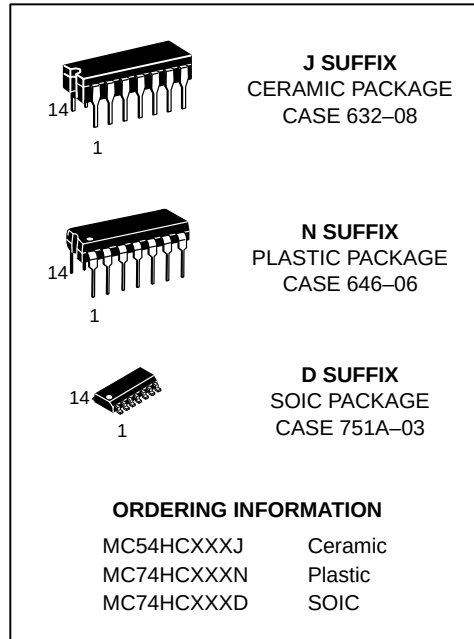
REF. NO.	DESCRIPTION	PART NO.	Q' TY
	OUTPUT PCB ASS'Y	704-4000A2B-5198	1
	CORD BUSH	100-HC1421FR-991	1
	FIXED PLATE	300-DJ3000-565	1
	OUTPUT PCB(40*25*1.6t)	405-DJ3000-417	1
R01	JUMP WIRE(W=10mm L=10mm)	406-2002-105	1
	SIGNAL WIRE	408-RP1000A2B-063	1
	CABLE TIE	504-S100-004	1
	NUT	601-A100-004	1
	SCREW(3*5 P=0.5)	602-B300-041	1
	SHEILDING SPRING	603-ST100-245	1
	BEAT OUT PCB ASS'Y	704-RP2000-4005	1
CN304A	5P2.0 CONNECTOR WIRE(L=290mm,AWM1007 AWG26)	404-RP2000-1531	1
C311	JUMPER(L=5mm,H=10mm)	406-2002-106	1
C318	CERAMIC CAPACITOR(0.1uF/50V Z Y5V TAPING)	413-3113-035	1
IC303	IC(74HC393/74HC393N,DIP14)	417-DJ2500-272	1
JK301	HEADPHONE JACK(ϕ 6.3,TY-6312-02-03)	420-2002-002	1
JK302	RCA JACK(RJ-1003-30YF)	420-HV3500K-047	1
C316	CERAMIC CAPACITOR(68pF/50V K SL TAPING)	413-3113-031	1
C312	CERAMIC CAPACITOR(0.1uF/50V Z Y5V TAPING)	413-3113-035	1
C313	ELEC. CAPACITOR(100uF/10V,M,TAPING 5*11)	413-3113-046	1
C315,317	CERAMIC CAPACITOR(47pF/50V J NPO TAPING)	413-HT8015-153	2
	BEAT OUT PCB(394V0,67.5*37.5*1.6t)	405-DD2220-472A	1
R320	CARBON FILM RESISTOR(3.3K OHM J 1/6W TAPING 26mm)	412-3113-057	1
R319	CARBON FILM RESISTOR(220 OHM J 1/6W TAPING 26mm)	412-3113-058	1
R317	CARBON FILM RESISTOR(1K OHM J 1/6W TAPING 26mm)	412-3113-078	1

IC BLOCK DIAGRAM

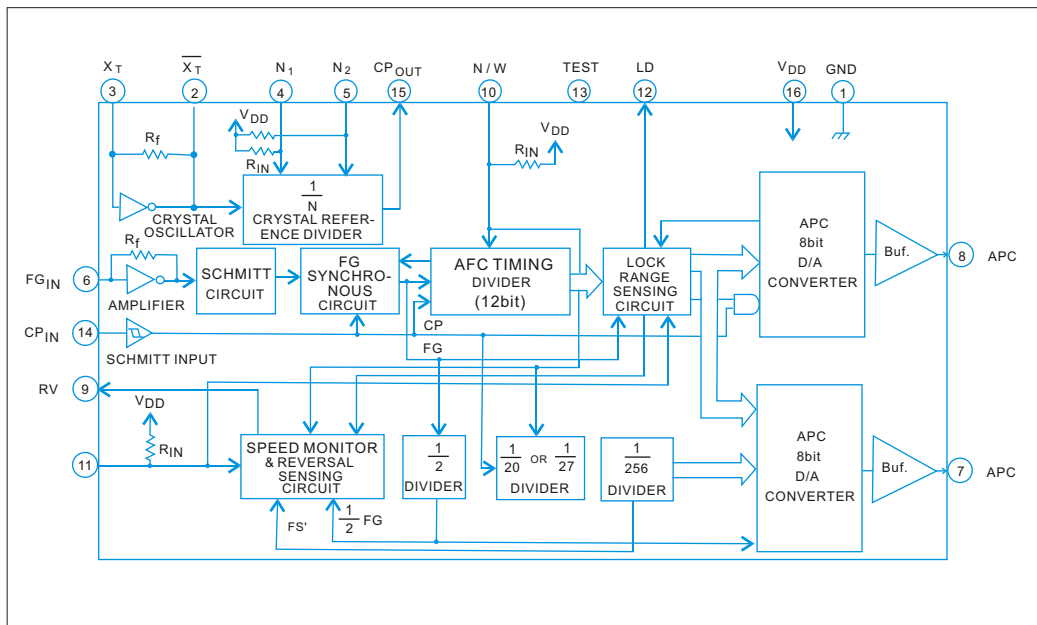


IC BLOCK DIAGRAM

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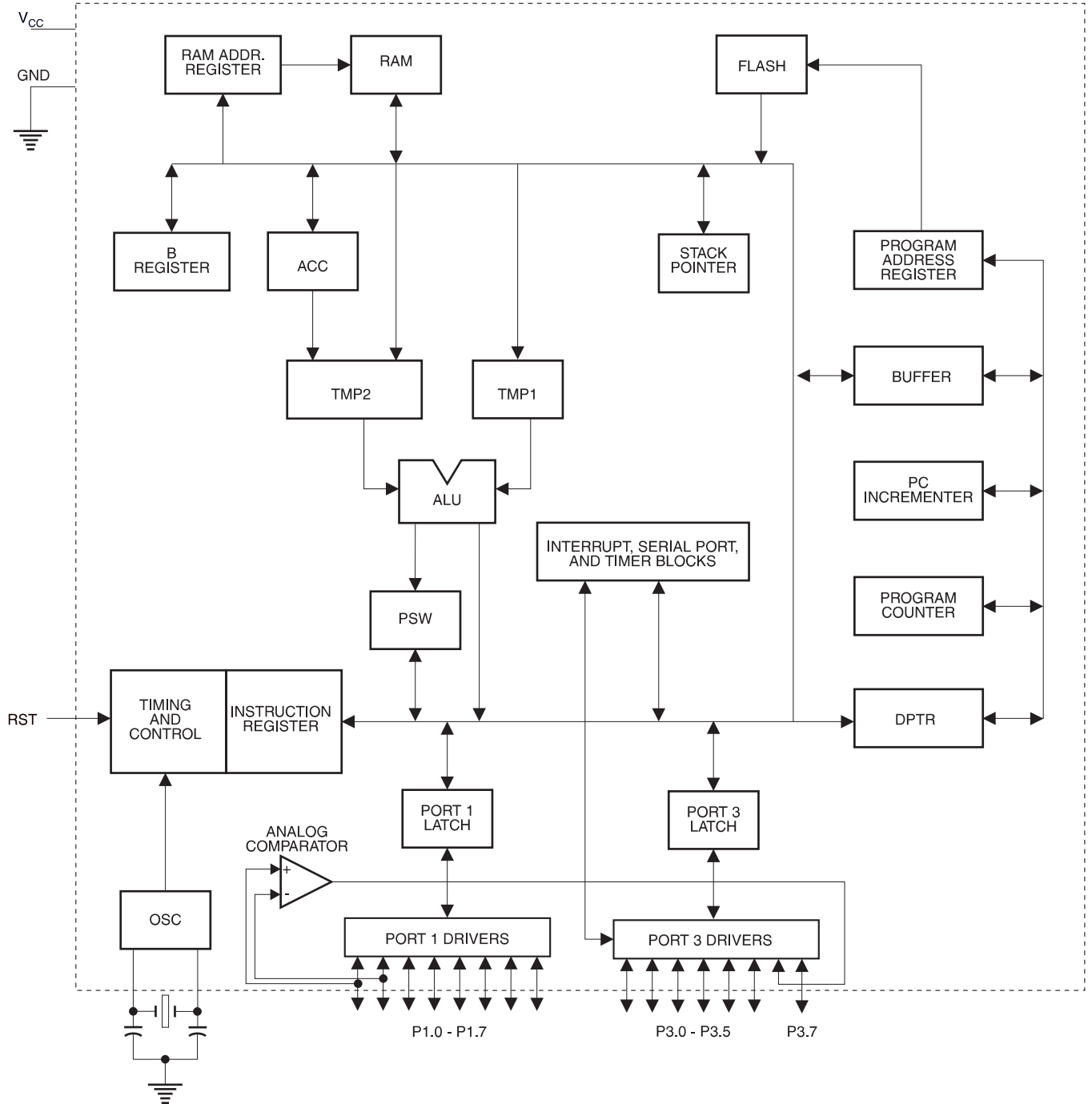


417-DJ2000-271
TC9242/TC9242P



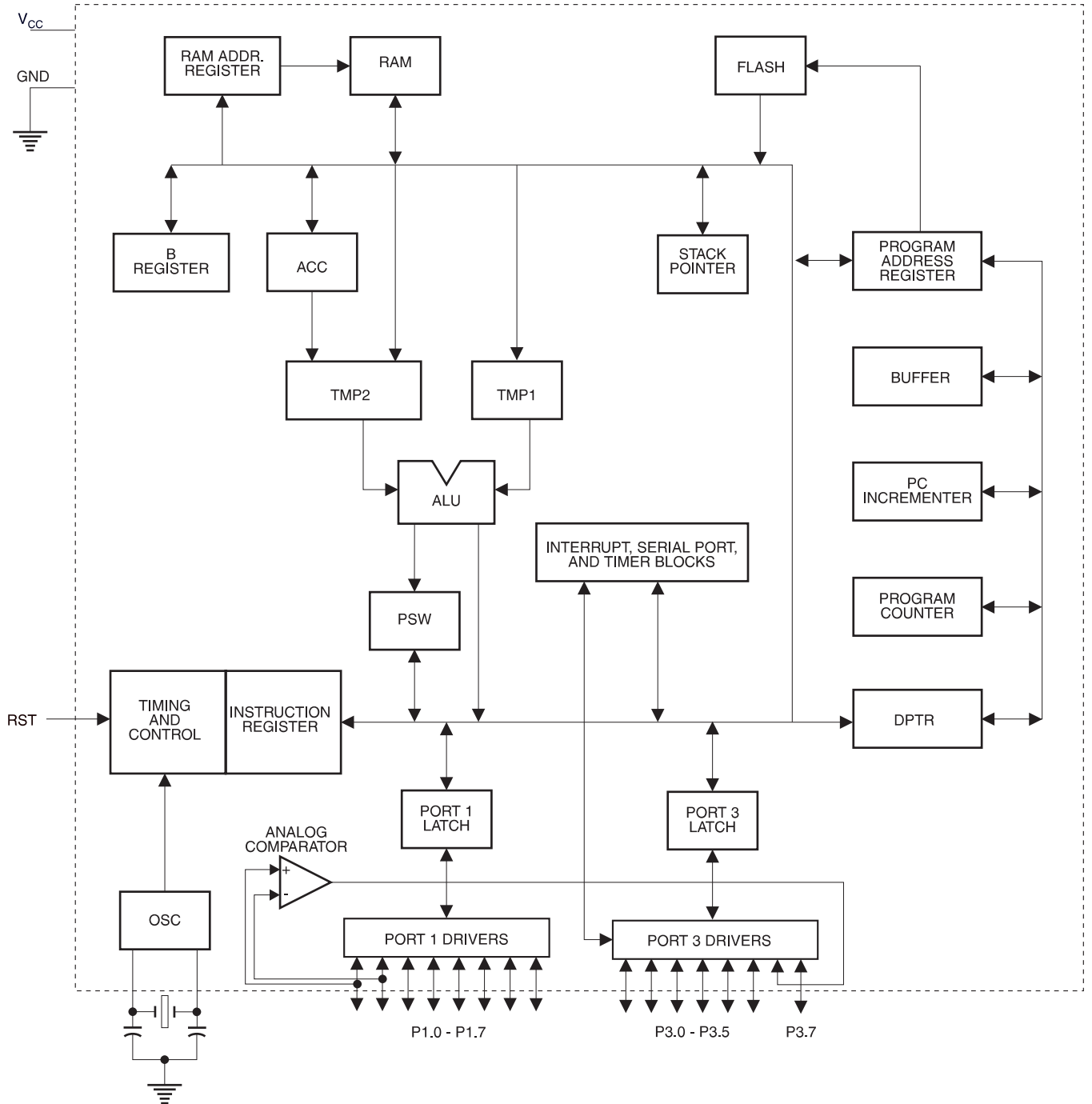
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417-DJ2500-267
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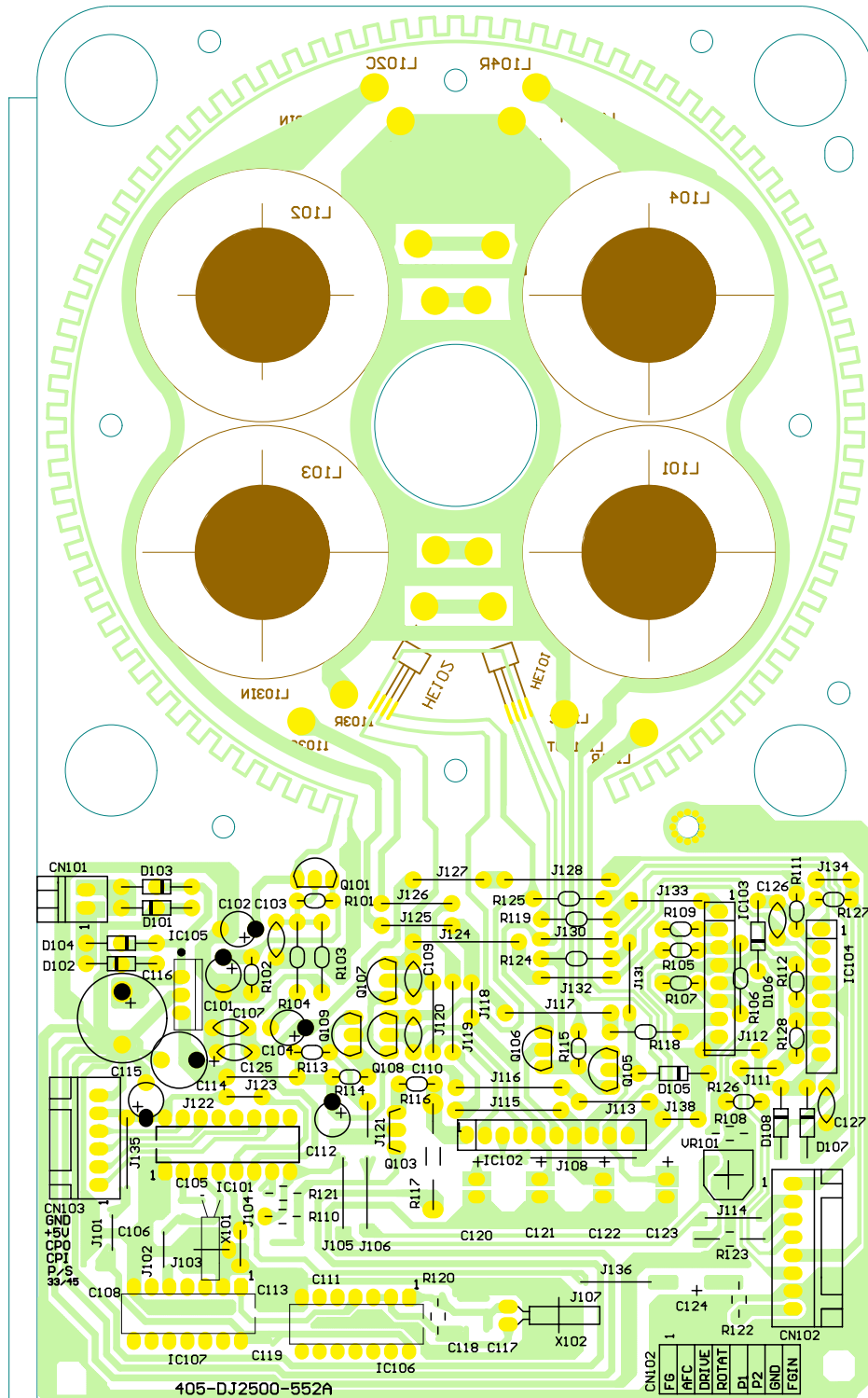


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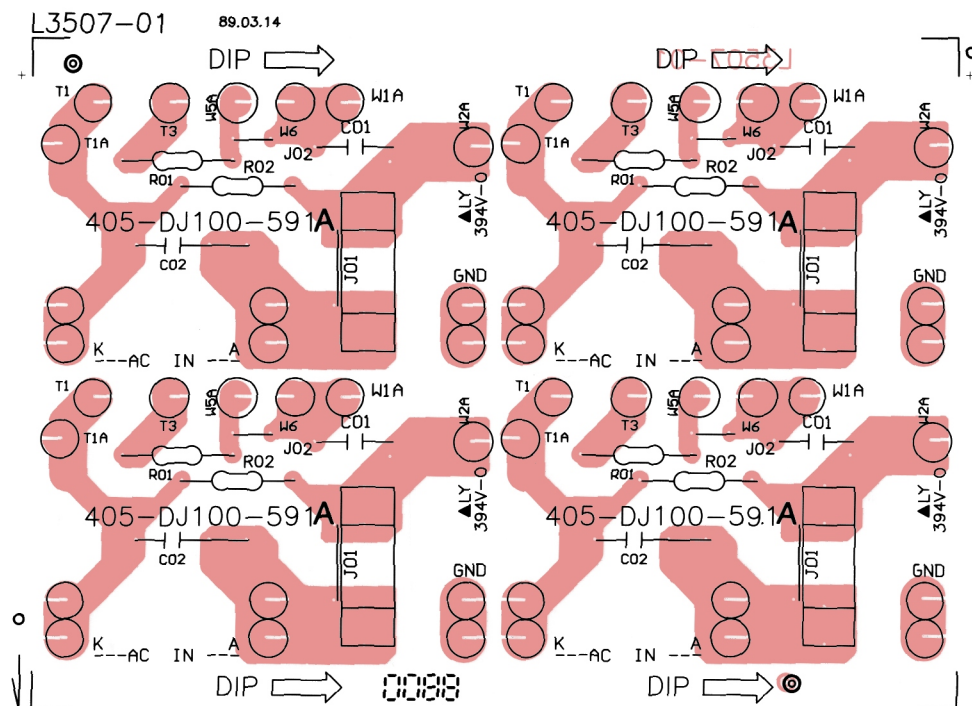
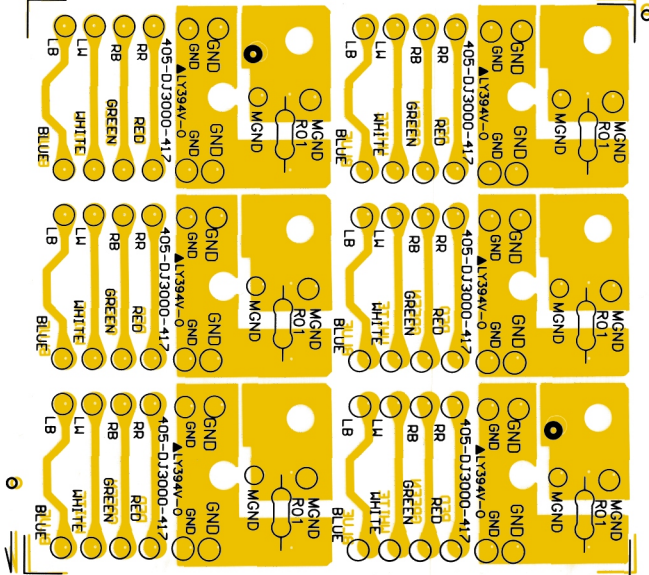
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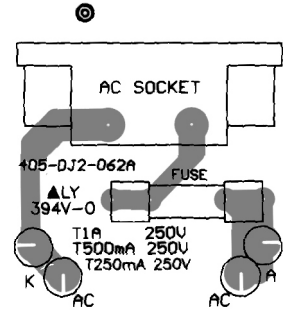
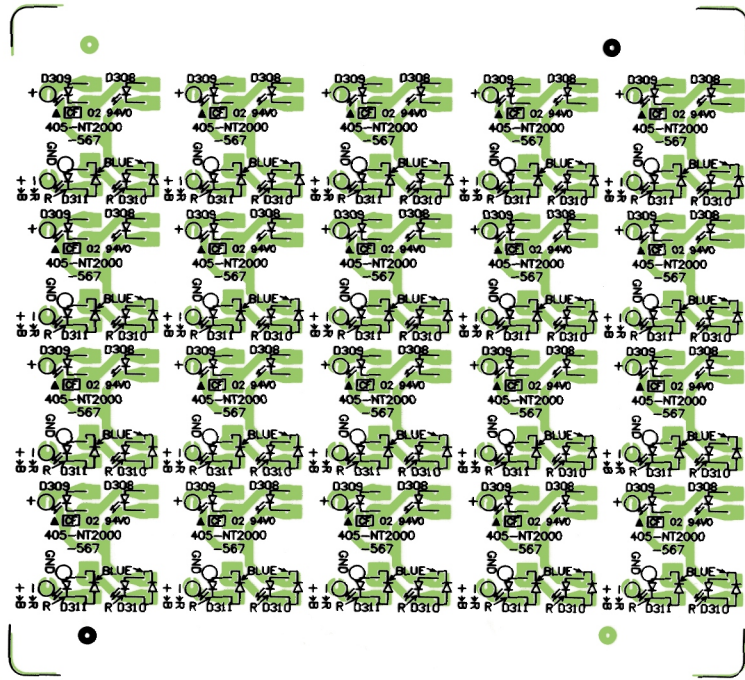
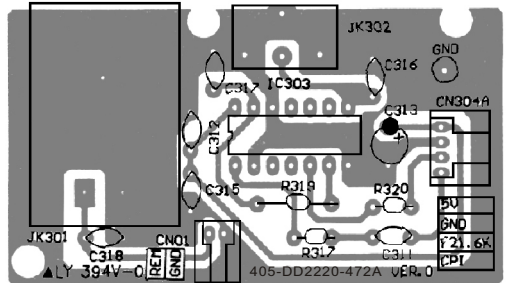
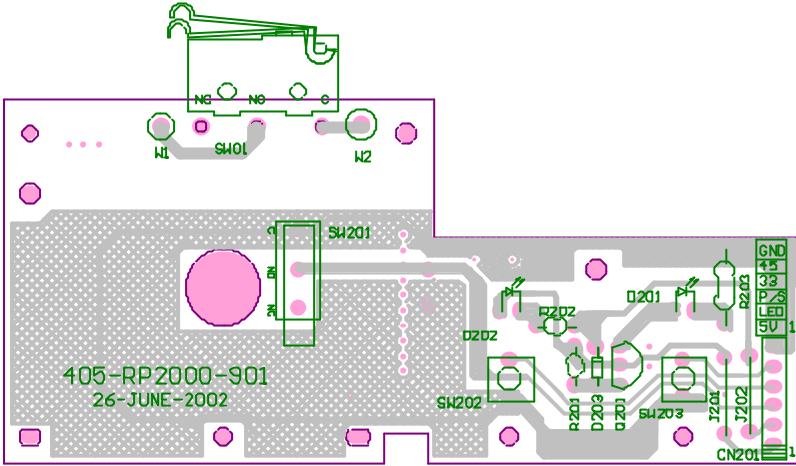
PRINTED CIRCUIT BLOCK DIAGRAM



B3218 88.3.228



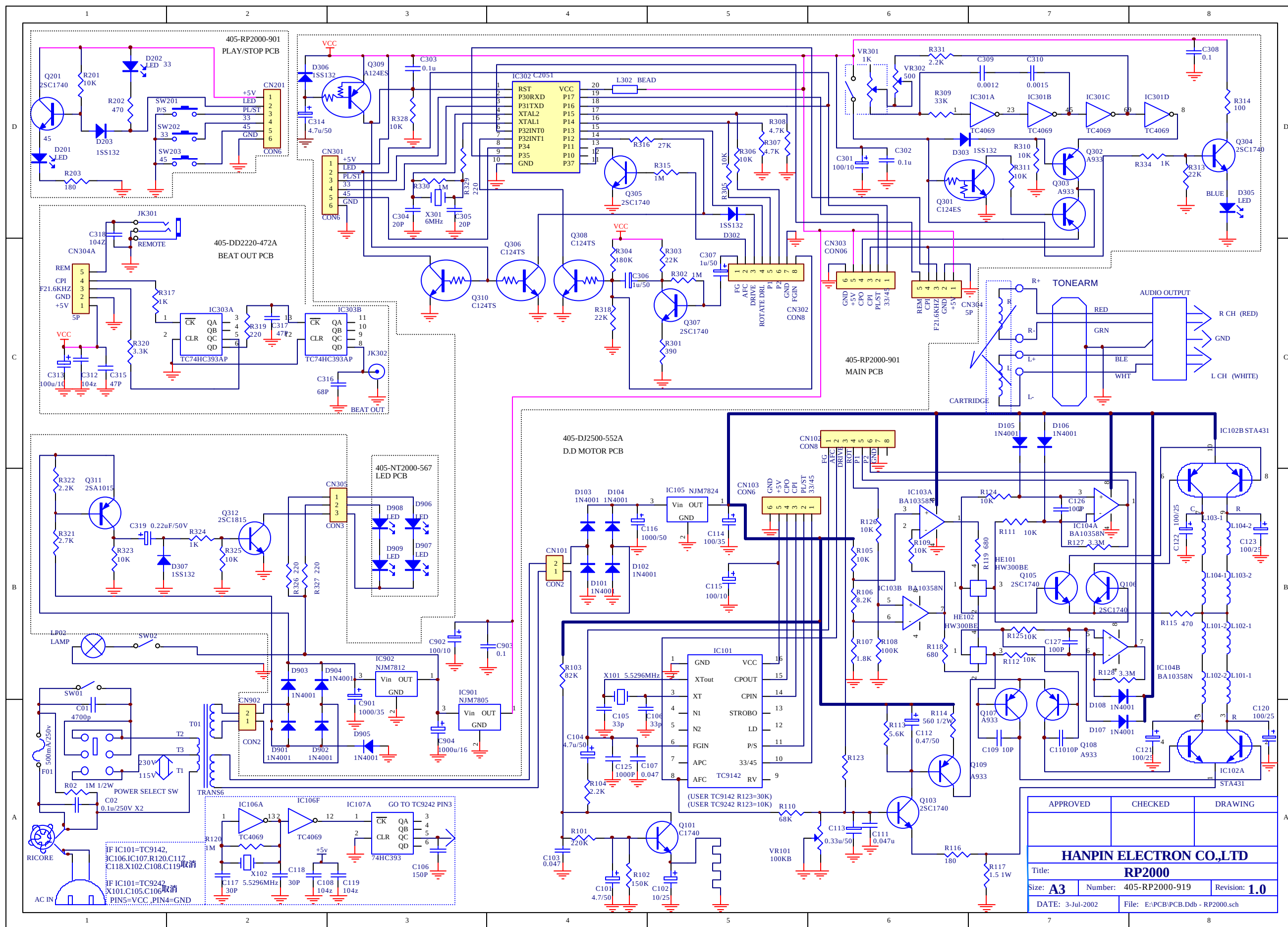
PRINTED CIRCUIT BLOCK DIAGRAM



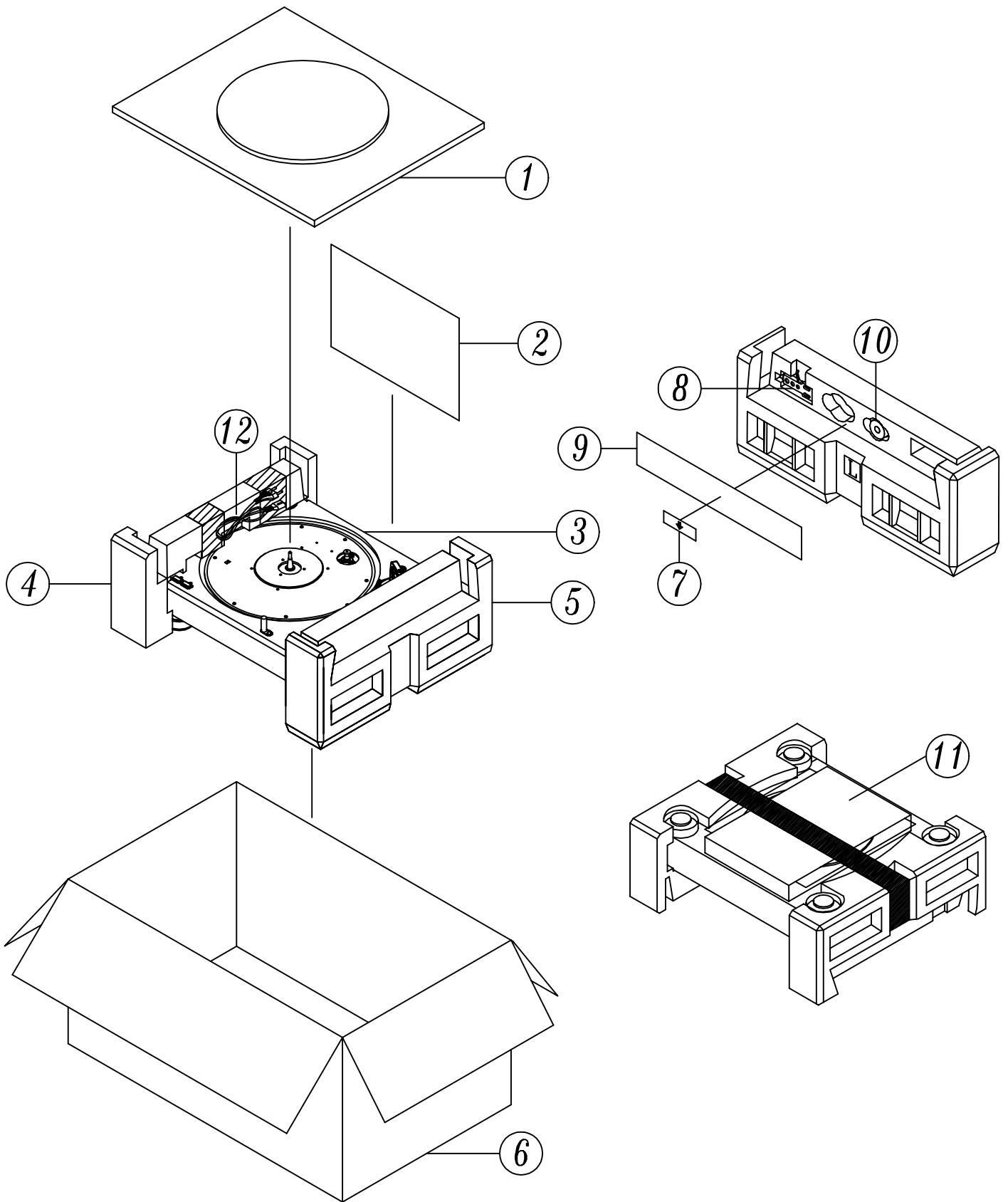
405-RP2000-919A
18-SEP-2002

Components and labels visible on the layout include:

- Connectors: CN303, CN302, CN301, CN304, CN902, CN901, CN905
- Resistors: R301, R302, R303, R304, R305, R306, R307, R308, R309, R310, R311, R312, R313, R314, R315, R316, R317, R318, R319, R320, R321, R322, R323
- Capacitors: C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320, C321
- Diodes: D301, D302, D303, D304, D305, D306, D307, D308, D309, D310, D311, D312, D313, D314, D315, D316, D317, D318, D319, D320, D321, D322, D323
- ICs: IC301, IC302, IC303, IC304, IC901, IC902
- Other: UR302, UR301, J311, J312, J313, J314, J315, J316, J317, J318, J319, J320, J321, J322, J323



PACKAGE VIEW



PACKAGE VIEW PART LIST

REF. NO	DESCRIPTION	PART NO	Q'TY	REMARK
1	SLIPMAT	612-RP2000-052	1	
	POLYBAG FOR SLIPMAT	505-DJ2500H-092	1	
	SPACER	507-DJ101S-2184	1	
2	I/B ASS'Y	701-2000A2S-3051	1	
3	UNIT	RP-2000MK3	1	
	UNIT	RP-2000MK3S	1	
	POLYBAG	505-DD3220-099	1	
4	POLYFOAM L	506-DJ3000-213	1	
5	POLYFAOM R	506-DJ3000-214	1	
6	GIFT BOX	507-2000A2B-2105	1	2000MK3
	GIFT BOX	507-2000A2S-2105	1	2000MKS
7	APPENDAGE LABEL	501-BJ2300E-1190	1	
8	HEADSHELL ASS'Y	703-RP5000A-733	1	2000MK3
	HEADSHELL ASS'Y	703-RP5000A1-732	1	2000MK3S
	CARTRIDGE	402-H468-004	1	
	POLYBAG	505-B300-007	1	
9	SPACER	507-DJ3500I-2295	1	
10	COUNTER WEIGHT ADJUSTOR ASS'Y	702-BJ2350-018	1	
	POLYBAG	505-B300-007	1	
11	ALUMINUM PLATTER	200-TT100-232B	1	
	POLYBAG FOR TURNTABLE	505-DJ2500H-001	1	
	SPACER	507-BJ1900W-2061	1	
12	AC POWER CORD(L=1900+-50mm,VDE TYPE)	409-DJ2-070	1	

BLOCK DIAGRAM

