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Service Manual

STEREO TURNTABLE

PL-15C/NB

- Model PL-15C/NB design conforms to Scandinavian specifications such as SEMCO (Sweden), NEMCO (Norway), and DEMCO (Denmark).
- As regards the paragraphs of "Troubleshooting" and "Adjustment," refer to the service manual of PL-15/PV.

1. SPECIFICATIONS

MOTOR AND TURNTABLE

Motor:	4-pole synchronous
Turntable drive:	Belt-driven
Speed:	Two speeds, 33-1/3, 45 rpm
Wow and flutter:	0.1% (WRMS) or less
S/N:	47 dB or more
Turntable platter:	12" (30cm) diameter die-cast aluminum alloy

TONEARM

Tonearm:	Static balance type, pipe arm
Effective arm length:	22.1 cm

SUBFUNCTIONS

Automatic tonearm return system.
Anti-skating device.
Hydraulic cueing device.
Light aluminum plug-in type head shell
Dust cover with free stop hinge.
Wooden base with anti-acoustic feedback suspension.
Counterweight with tracking force adjustment gauge.

MISCELLANEOUS

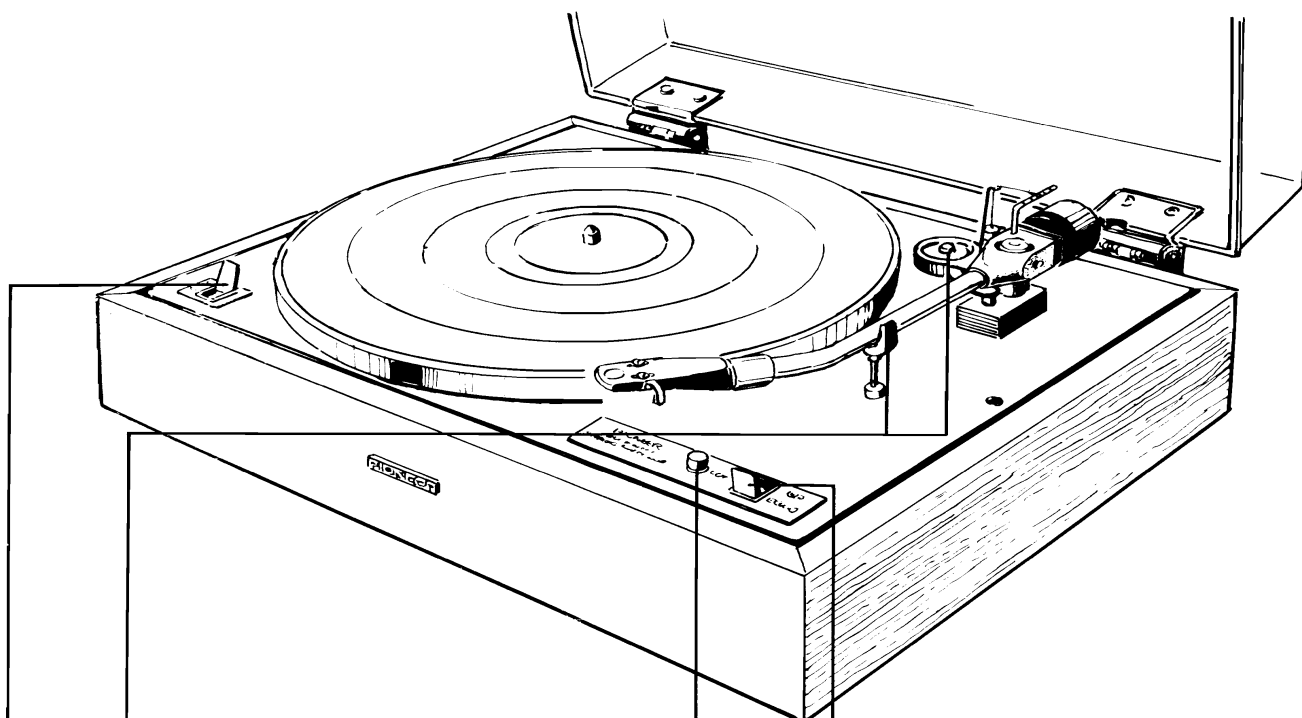
Power requirements:	AC220V 60Hz, 50Hz
Power consumption:	12W (18.5VA) MAX
Dimensions:	6-7/16"(H) x 16-15/16"(W) x 13-3/8"(D) 163(H) x 430(W) x 340(D) mm
Weight:	16lb (7.3kg)

NOTE:

- Specifications and the design subject to possible modification without notice due to improvements.



2. OPERATION



ARM REST AND EP ADAPTOR

The arm rest supports the tonearm in place when the tonearm is not in use. An EP adaptor is supplied in the accessory group, which permits 45 rpm records to be fitted on the PL-15 platter shaft. When the adaptor is not in use, keep it on the stub located in the upper right of the baseplate.

SPEED SELECTOR LEVER

The PL-15 is two-speed model: 33-1/3 rpm and 45 rpm. Setting the lever to either speed position will automatically set the turntable for operation at that speed.

FUNCTION LEVER

This is a lever for controlling the movement of the tonearm. Setting the lever to "DOWN" will quietly put the head shell down on the record, and setting it to "UP" will raise the head shell from the record. This is a convenient device for cueing in any portion of the record without fear of scratching the record surface.

CUT BUTTON

With the button pressed to stop record playing temporarily, the tonearm returns onto the arm rest automatically, and then the power is cut off.

3. EXPLODED VIEW AND PARTS LIST

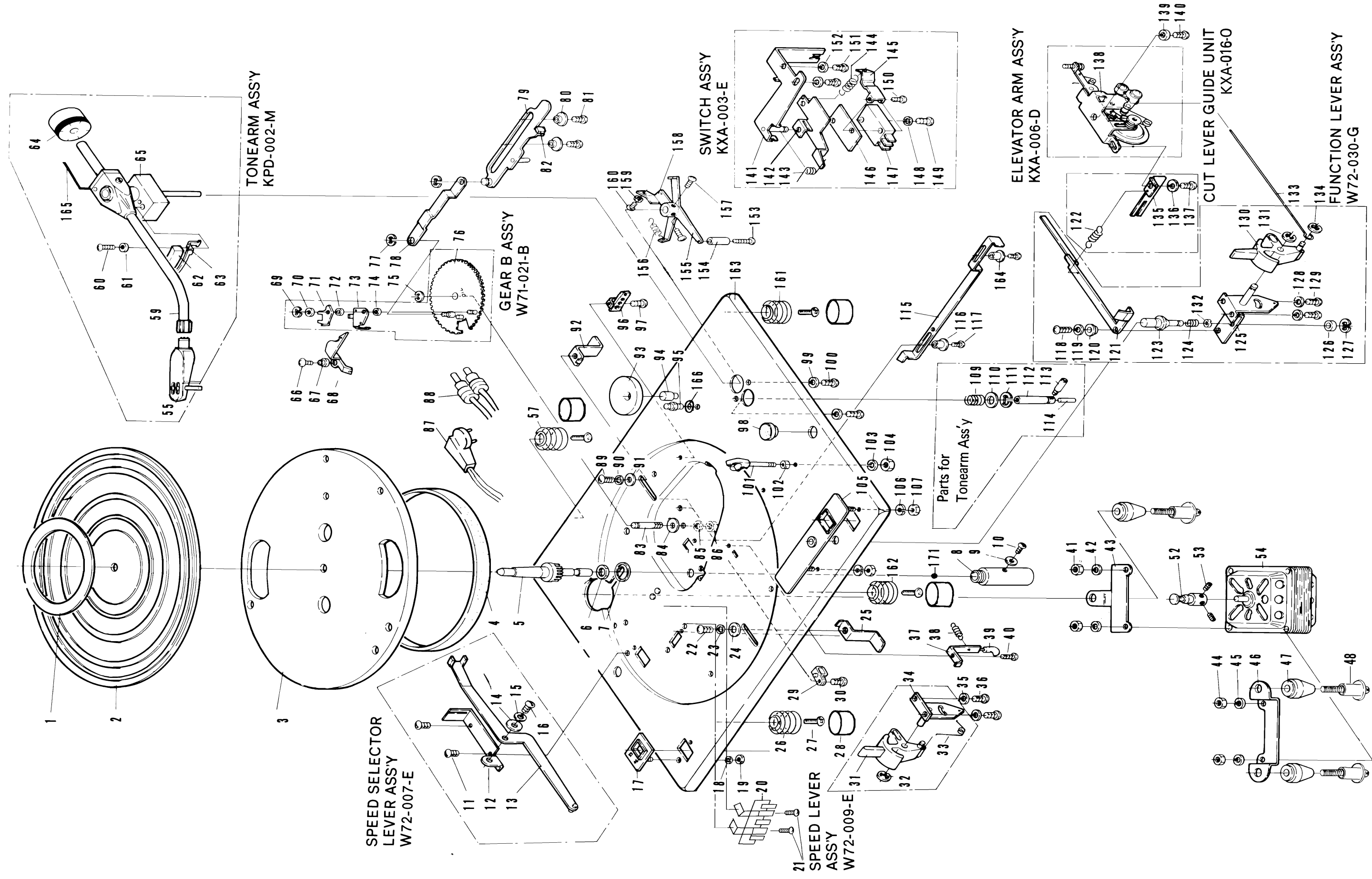
3.1 MECHANISM

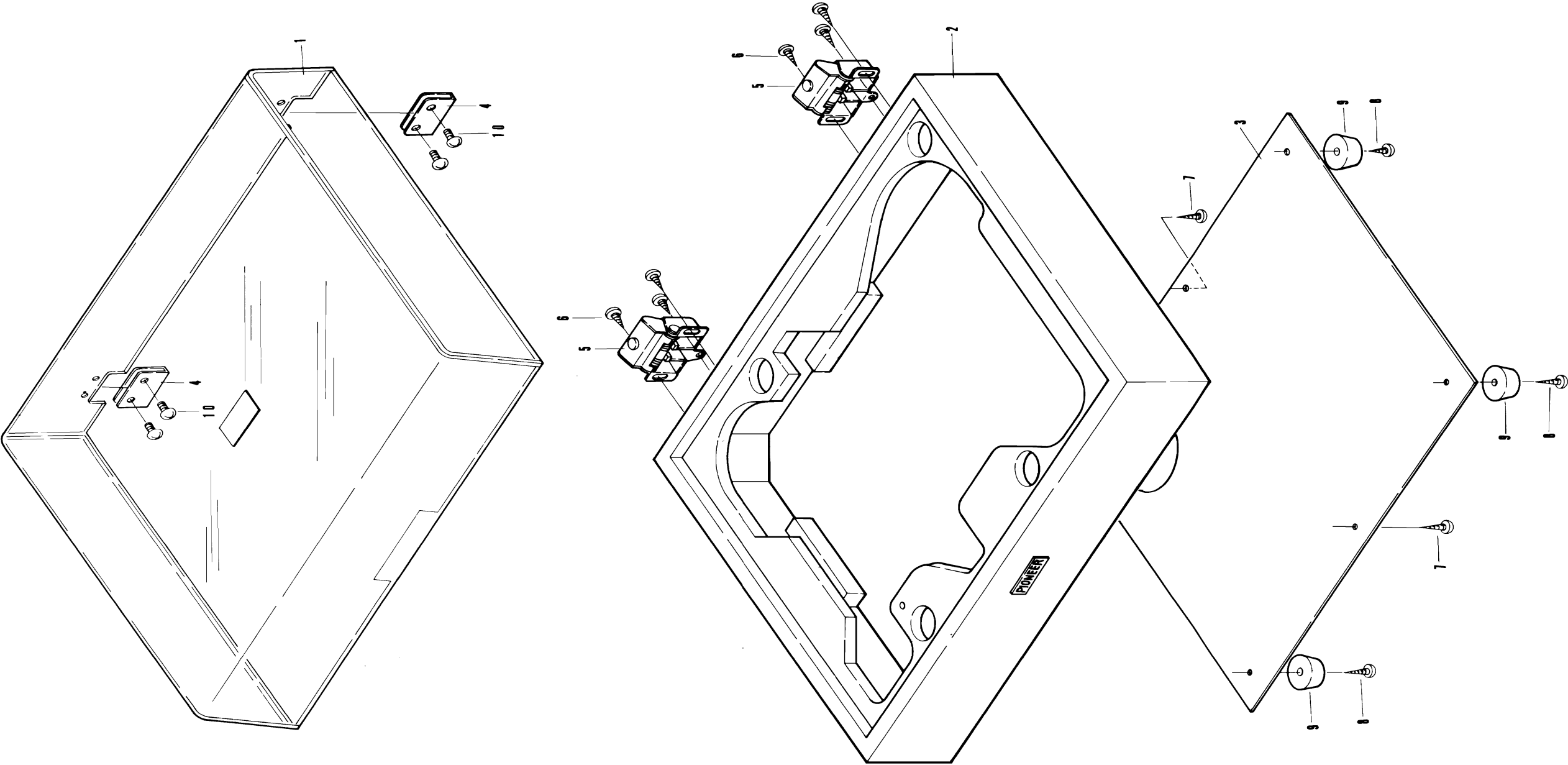
Key No.	Description	Part No.	
1	Center ring plate	A61-620-A	
2	Rubber mat	E31-606-B	
3	Turntable platter	N21-005-D	
4	Belt	KEB-006-0	
5	Center shaft	N22-001-0	
6	Hexagon nut for center shaft	B71-656-A	
7	Flat washer for center shaft	B22-650-0	
8	Center shaft bearing	N23-614-C	
9	Flat washer 3 ϕ		
10	⊕ M3 x 5 Machine screw		
11	⊕ M3 x 6 Tapping screw		
12	Speed selector angle	N61-013-0	
13	Speed selector lever unit	W72-006-C	
14	Selector lever washer	N51-794-0	
15	Spring washer 3 ϕ		
16	⊕ M3 x 6 Machine screw		
17	Speed selector nameplate	A41-024-G	
18	Spring washer 2.6 ϕ		
19	Nut M2.6		
20	Terminal strip lug-type 2L3P	KKC-001-0	
21	Tapping screw M3 x 6		
22	⊕ M4 x 10 Machine screw		
23	Spring washer 4 ϕ		
24	Flat washer 4 ϕ		
25	Angle	N61-063-A	
26	Spring (C) Ass'y	KXA-158-A	
27	Pan head screw M4 x 4.5 ϕ		
28	Rubber grommet	E33-625-0	
29	PU cord stopper	KNK-113-0	
30	⊕ M4 x 8 Tapping screw		
31	Speed selector	N93-002-B	
32	Retaining washer E-type (E-3)		
33	Spring	B31-009-B	
34	Speed selector unit	W72-008-A	
35	Spring washer 4 ϕ		
36	⊕ M4 x 6 Machine screw		
37	Sub-plate	N61-091-A	
38	Spring	B31-617-0	
39	Cover		
40	⊕ M3 x 6 Tapping screw		
41	Nut M4		
42	Spring washer 4 ϕ		
43	Motor panel (A)	KNA-039-0	
44	Nut M4		
45	Spring washer 4 ϕ		

Key No.	Description	Part No.	
46	Motor panel (B)	KNA-040-0	
47	Anti-vibration rubber grommet	E31-605-A	
48	Special screw	KBA-025-0	
49			
50			
51			
52	Capstan 50Hz	N24-003-H	
	60Hz	N24-004-H	
53	Set screw		
54	Motor	KXM-003-E	
55	Head shell		
56			
57	Spring (C) Ass'y	KXA-158-A	
58			
59	Tonearm ass'y	KPD-002-M	
60	⊕ M2.6 x 6 Machine screw		
61	Spring washer 2.6φ		
62	Elevator arm cover	N93-034-0	
63	Elevator arm	N61-066-0	
64	Counterweight	W73-013-B	
65	Tonearm holder ass'y	KXA-009-0	
66	⊕ M3 x 6 Tapping screw		
67	Shaft	N51-044-0	
68	OFF lever (set lever)	KNA-024-B	
69	Retaining washer E-type (E-2)		
70	Washer (D)	B22-615-0	
71	Plate A	N61-643-C	
72	Teflon washer	B23-606-0	
73	Plate B	N61-644-D	
74	Teflon washer	B23-606-0	
75	Retaining washer E-type (E-3.8)		
76	Gear B	W71-020-B	
77	Retaining washer E-type (E-3)		
78	Crank lever	N61-044-B	
79	Cam plate unit	W72-025-C	
80	Shaft	N51-615-0	
81	⊕ M3 x 10 Tapping screw		
82	Rubber	E33-602-B	
83	Shaft	N54-623-A	
84	Washer (G)	B22-609-0	
85	Spring washer 4φ		
86	Nut M4		
87	Power cable	KDG-003-0	
88	Output cable	KDE-015-D	
89	⊕ M4 x 10 Machine screw		
90	Spring washer 4φ		
91	Flat washer 4φ		
92	Angle	N61-063-A	
93	EP adaptor	N93-603-A	
94	Adaptor catch	N93-007-A	
95	Bar (A) fixed	B11-042-A	

Key No.	Description	Part No.	
96	Terminal strip lug-type 1L4P	KKC-008-0	
97	⊕ M3 x 6 Tapping screw		
98	Rubber grommet (B)	E31-744-0	
99	Spring washer 3φ		
100	⊕ M3 x 8 Machine screw		
101	Arm rest	KXA-012-A	
102	Arm rest base	N54-843-0	
103	Spring washer 2.6φ		
104	Nut M2.6		
105	Nameplate	A41-029-G	
106	Spring washer 2.6φ		
107	Nut M2.6		
108			
109	Spring	B31-645-A	
110	Washer (M)	B22-612-0	
111	Retaining washer E-type (E-3.8)		
112	Shaft	N51-624-A	
113	Screw	B11-646-0	
114	Pin	N92-602-0	
115	Auto lever	KNA-064-B	
116	Shaft	N51-043-0	
117	⊕ M2.6 x 10 Machine screw		
118	⊕ M3 x 6 Machine screw		
119	Spring washer 3φ		
120	Shaft	N51-615-0	
121	Cut lever unit	W72-028-B	
122	Spring	B31-020-C	
123	Cut knob unit	W73-012-B	
124	Spring	B31-021-A	
125	Function lever angle unit (B)	W72-023-C	
126	Washer (rubber)	B23-603-0	
127	Retaining washer E-type (E-3)		
128	Spring washer 4φ		
129	⊕ M4 x 6 Machine screw		
130	Function lever	N93-002-B	
131	Retaining washer E-type (E-3)		
132	Washer	KNA-175-0	
133	Pole	KNA-029-A	
134	Retaining washer E-type (E-3)		
135	Cut lever guide	N61-053-0	
136	Spring washer 4φ		
137	⊕ M4 x 6 Machine screw		
138	Elevator arm ass'y	KXA-006-D	
139	Spring washer 4φ		
140	⊕ M4 x 6 Machine screw		
141	Switch angle unit	W72-089-B	
142	Panel	N61-100-C	
143	Spring	B31-047-B	
144	Spring		
145	Plate	KNA-016-A	

Key No.	Description	Part No.	
146	Insulator	M98-613-0	
147	Microswitch	KSF-008-0	
148	Spring washer 2.6 ϕ		
149	⊕ M2.6 x 16 Machine screw		
150	⊕ M2.6 x 16 Machine screw		
151	⊕ M4 x 8 Machine screw		
152	Spring washer 4 ϕ		
153	⊕ M3 x 20 Machine screw		
154	Spacing post	N93-072-C	
155	PU plate unit	W72-026-C	
156	PU plate spring	B31-621-0	
157	⊕ M3 x 6 Machine screw	B11-037-0	
158	PU plate unit	W71-015-F	
159	Nut M3		
160	⊕ M3 x 10 Machine screw		
161	Spring (G) ass'y	KXA-208-A	
162	Spring (A) ass'y	KXA-209-A	
163	Main panel		
164	Shaft	N51-043-0	
165	Bar (B)	N51-056-A	
166	Teflon washer	KBF-001-A	
167			
168			
169			
170			
171	Steel ball 1/8"		
172	Spring washer 3 ϕ		

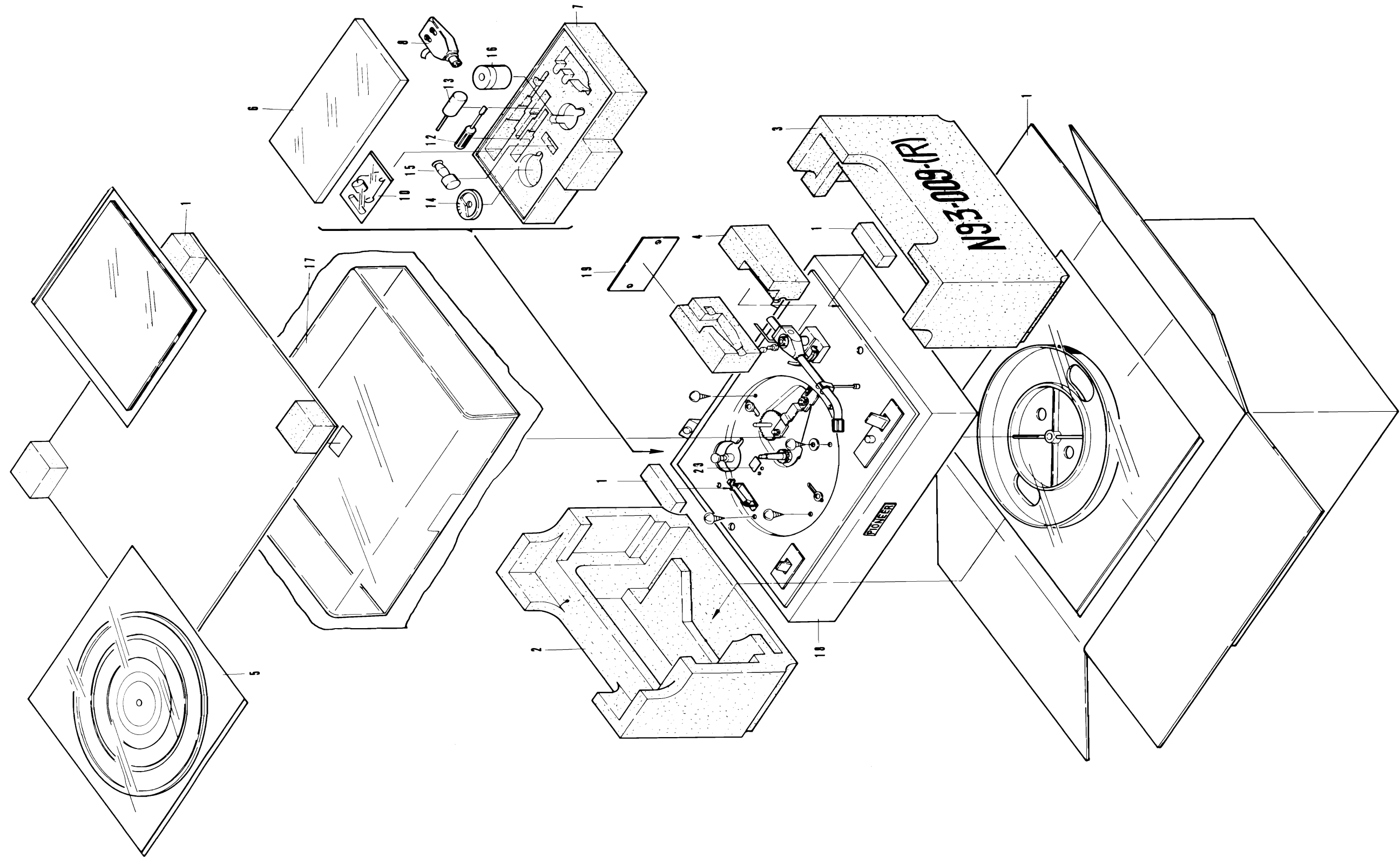




Key No.	Description	Part No.	
1	Dust cover	KEC-004-B	
2	Wooden base	KMM-002-E	
3	Bottom cover	KMS-030-0	
4	Hinge ass'y	W72-079-0	
5	Hinge ass'y	W72-079-0	
6	⊕ 3.1 x 13 Wood screw		
7	⊕ 3.1 x 13 Wood screw		
8	⊕ 3.1 x 25 Wood screw		
9	Rubber foot	E31-147-0	
10	⊕ M4 x 8 Machine screw		

3.3 PACKING

Key No.	Description	Part No.	
1	Carton	KHK-013-E	
2	Packing (L)	N93-068-C	
3	Packing (R)	N93-069-C	
4	Tonearm cover	H52-002-A	
5	Rubber-mat fixed	H52-632-0	
6	Miscellaneous box cover	KHX-004-A	
7	Miscellaneous box	KHX-025-0	
8	Head shell		
9			
10	Tonearm miscellaneous ass'y	E 14-003-F	
11			
12	⊖ Screwdriver	KEX-002-A	
13	Lubricator	N93-665-0	
14	EP adaptor	N93-603-A	
15	Capstan 50Hz	N24-003-H	
	60Hz	N24-004-H	
16	Counterweight	W73-013-B	
17	Dust cover	KEC-004-B	
18	PL-15C		
19	Nameplate	KAL-008-0	
20			



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