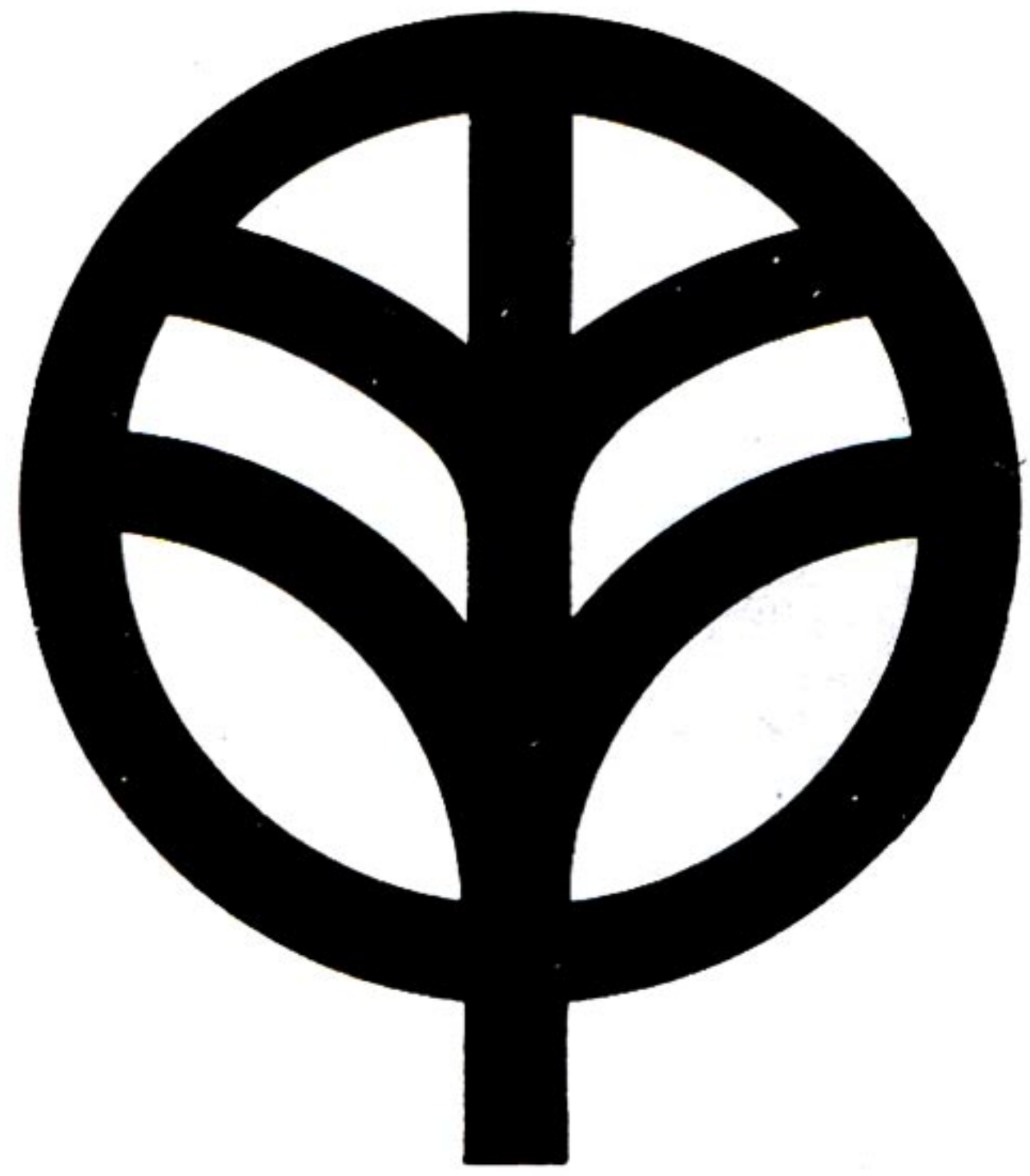




KENWOOD
HI/FI STEREO COMPONENTS

SERVICE MANUAL

KD-1033



BELT DRIVE TURNTABLE

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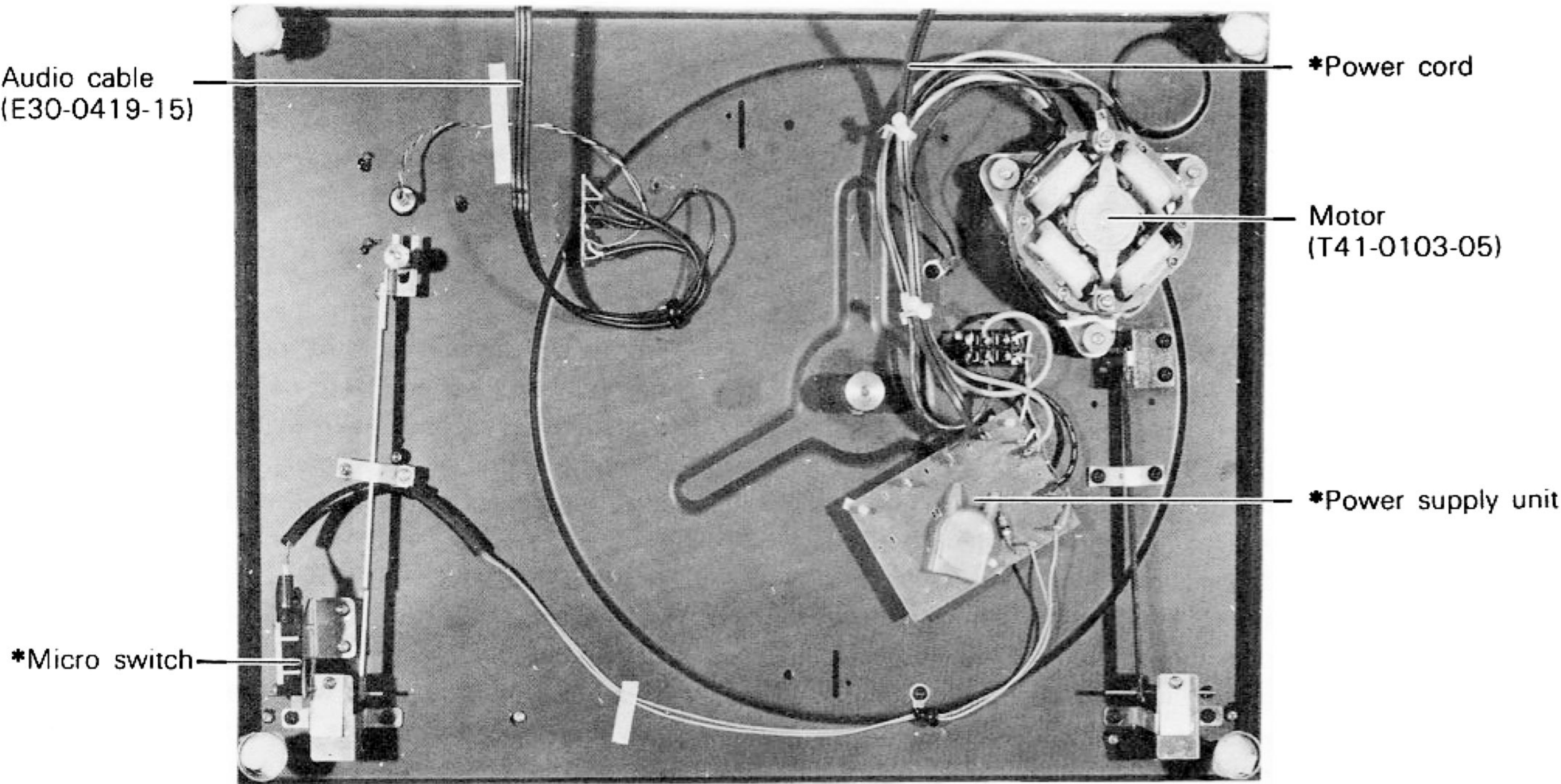
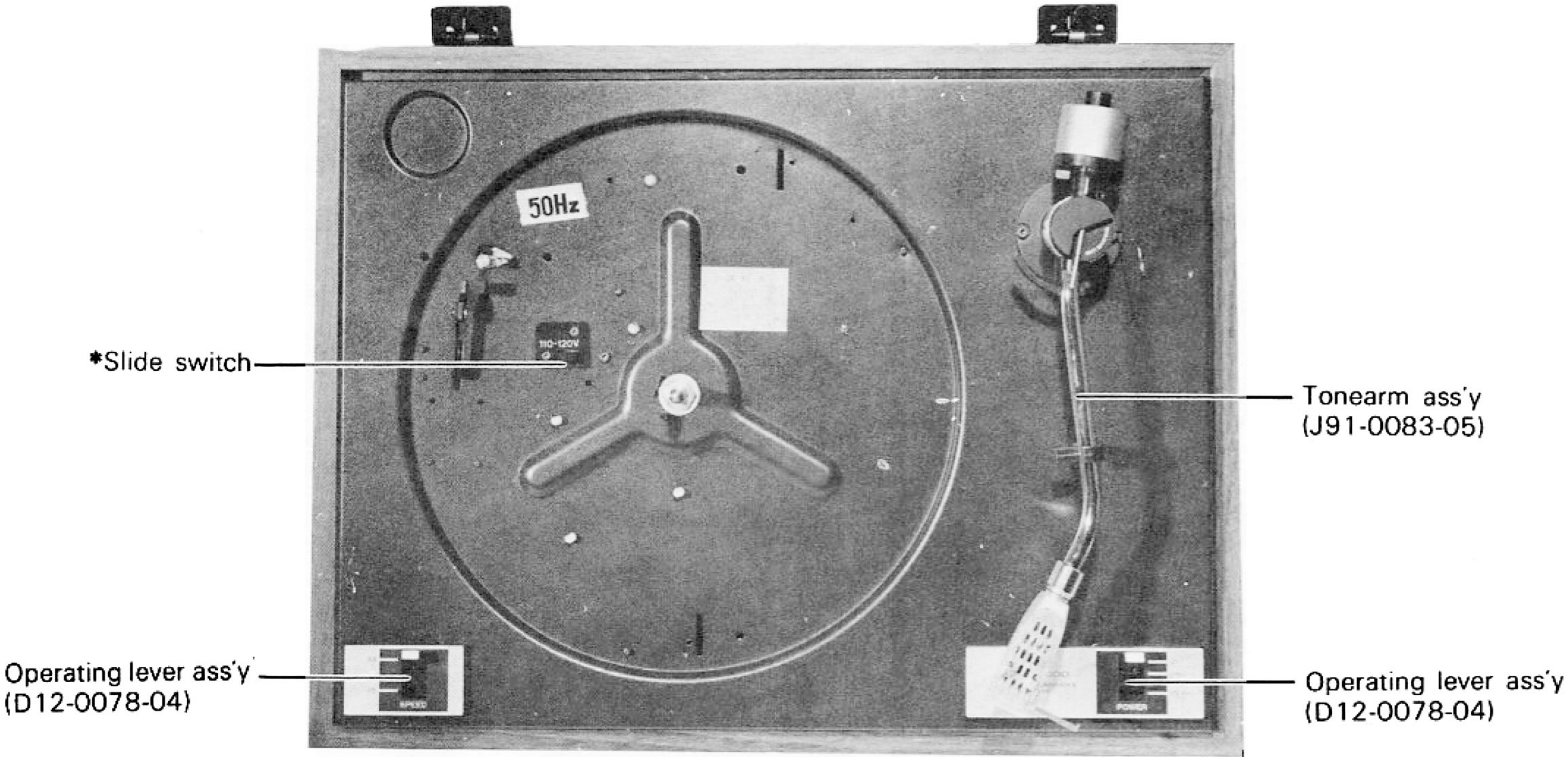
Note:

The products are subject to modification in components and circuits in different countries and regions. This manual provides information of modification based on the standard in the U.S., for the convenience of ordering associated components and parts.

We employ the following abbreviations of respective countries.

U.S.A.....	K
Canada.....	P
PX.....	U
Australia.....	X
Europe.....	W
England.....	T
Scandinavia.....	L
South Africa.....	S
Other areas.....	M

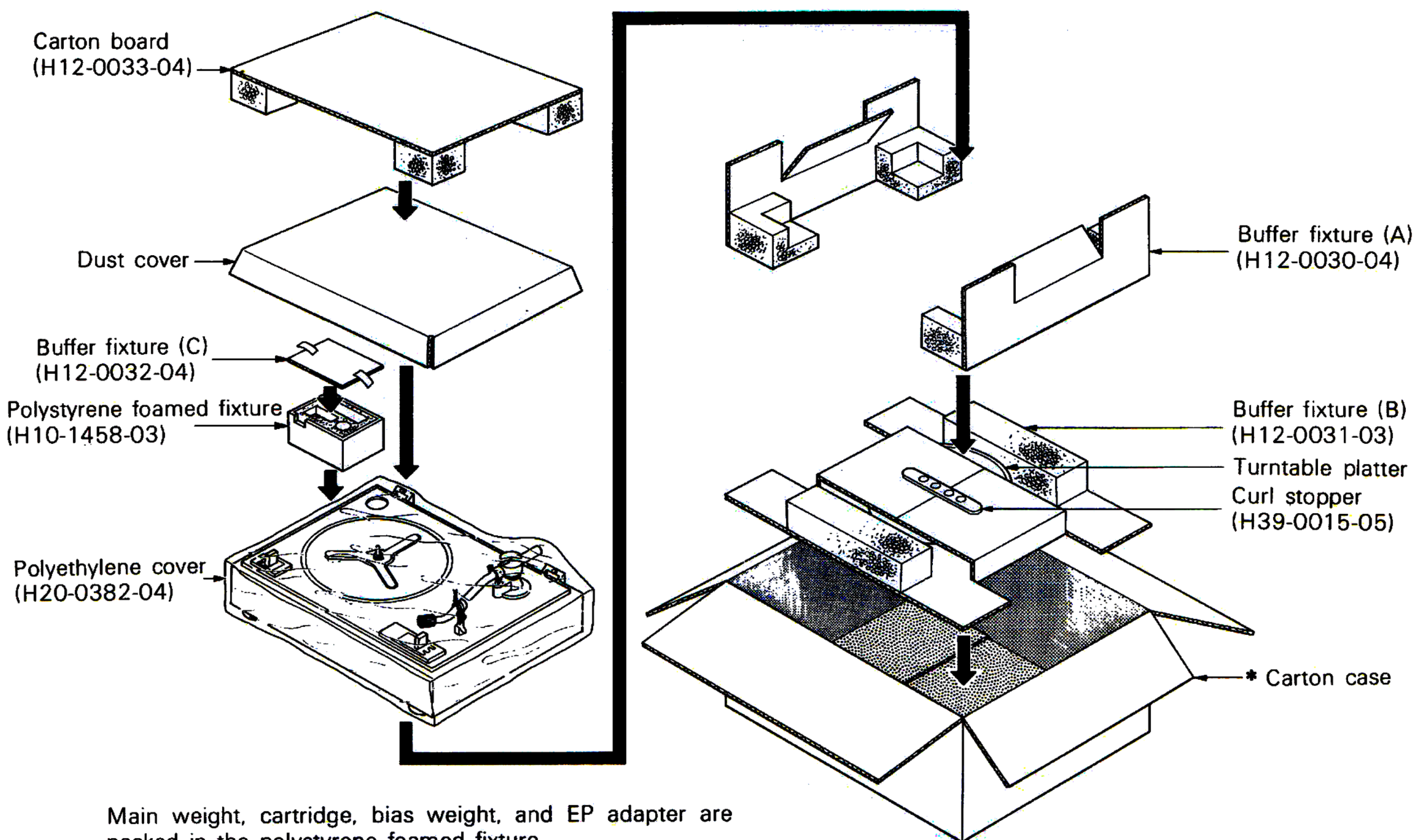
EXTERNAL & BOTTOM VIEW (KD-1033)



*Refer to destinations' parts list

PACKING/MECHANISM DESCRIPTIONS/ADJUSTMENTS (KD-1033)

PACKING



* Refer to Destinations' Parts List.

FUNCTIONS OF ELEVATION MECHANISM (Fig. 1)

Operating Lever

- 1) When the power is in its OFF position, the operating lever cam is locked in the "b1" position and the elevation guider is set in the "b1" position. While the spring A is compressed and the spring B is set in free state; the elevation shaft is raised by the pressure of the spring A.
- 2) When the operating lever is in its ON/CUE position, the operating cam is locked in the "b2" position and the elevation guider is set in the "b2" position where the spring A remains compressed, though it is slightly loosened. The spring B is also compressed but the tension of this spring is smaller than that of the spring A. The elevation shaft remains raised.
- 3) When the operating lever is in its PLAY position, the operating cam is locked in the "b3" position and the elevation guider is set in the "b3" position, while the spring A is set in free state and the spring B remains compressed where the elevation shaft is lowered.

From CUE position to PLAY position, the tension of the spring A and spring B are cancelled. Accordingly, the shaft moves up and down at optimum speed with the damping action of the silicone oil (#100,000) contained in it, regardless of the speed of the operating lever

ADJUSTMENTS

Up Speed

This adjustment is made with the elevation guider. The elevation speed becomes faster as the guider setting position is raised.

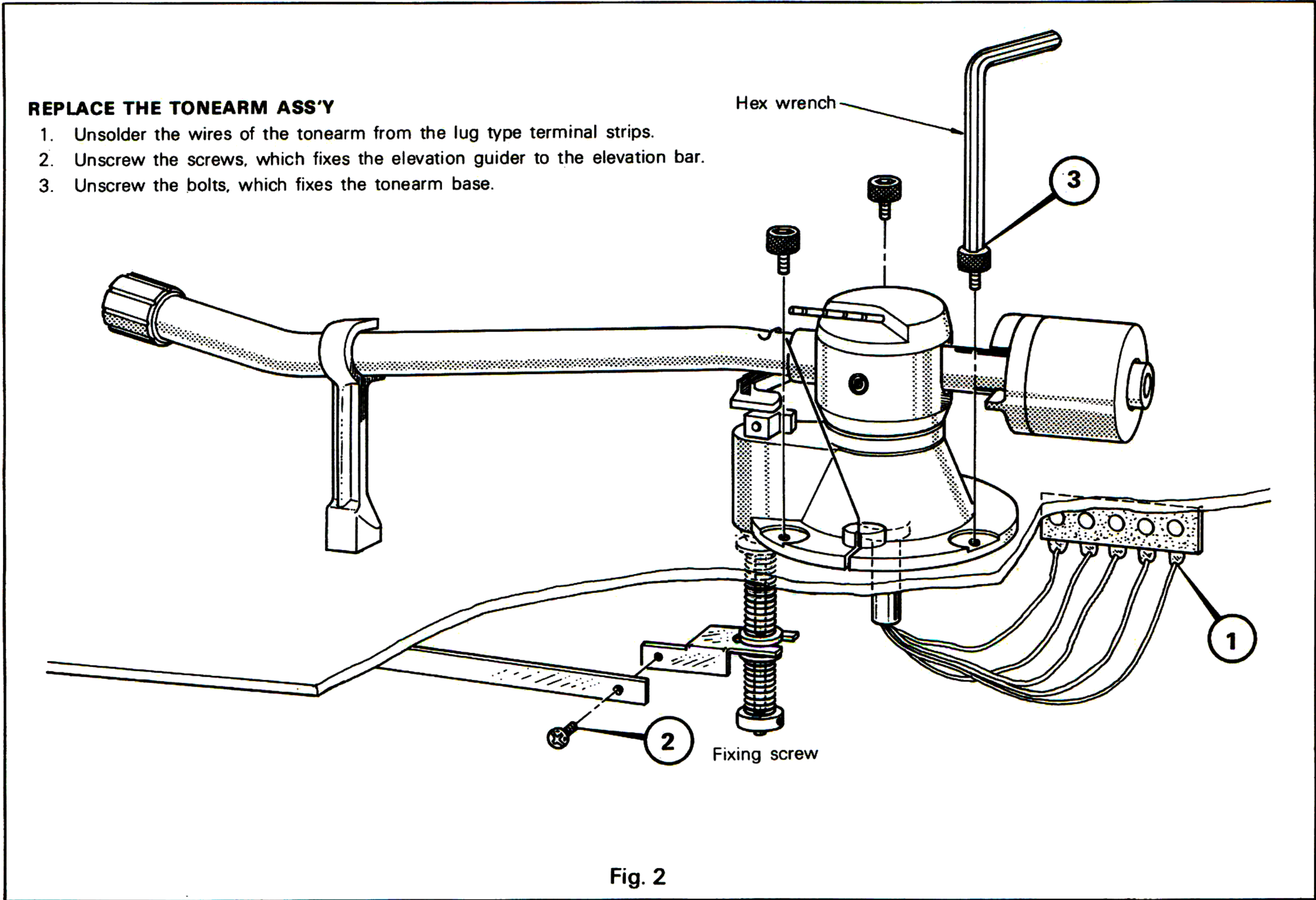
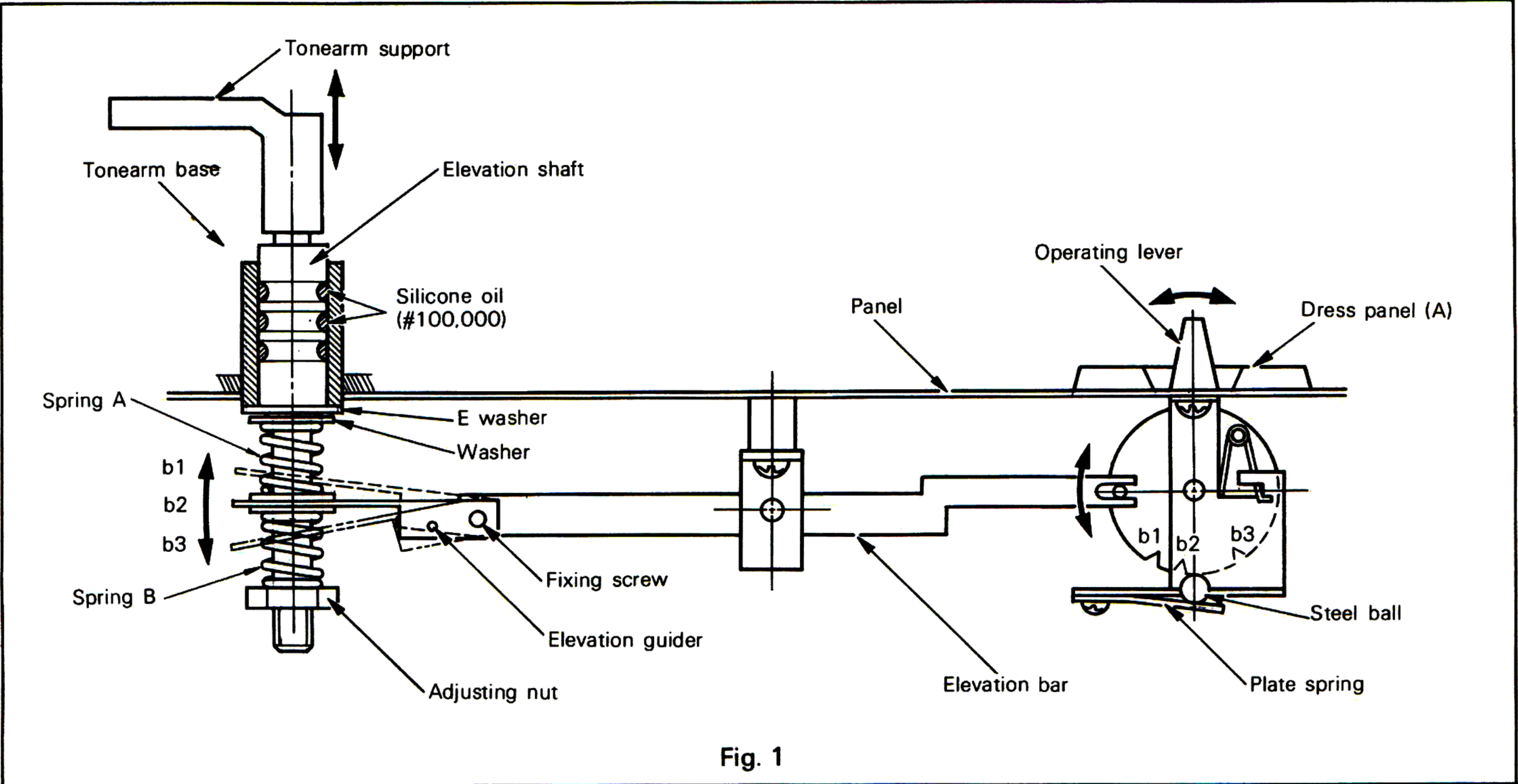
Note: After completing the adjustment, be sure to check the DOWN speed. The fixing screw should be secured with locking cement.

Down Speed

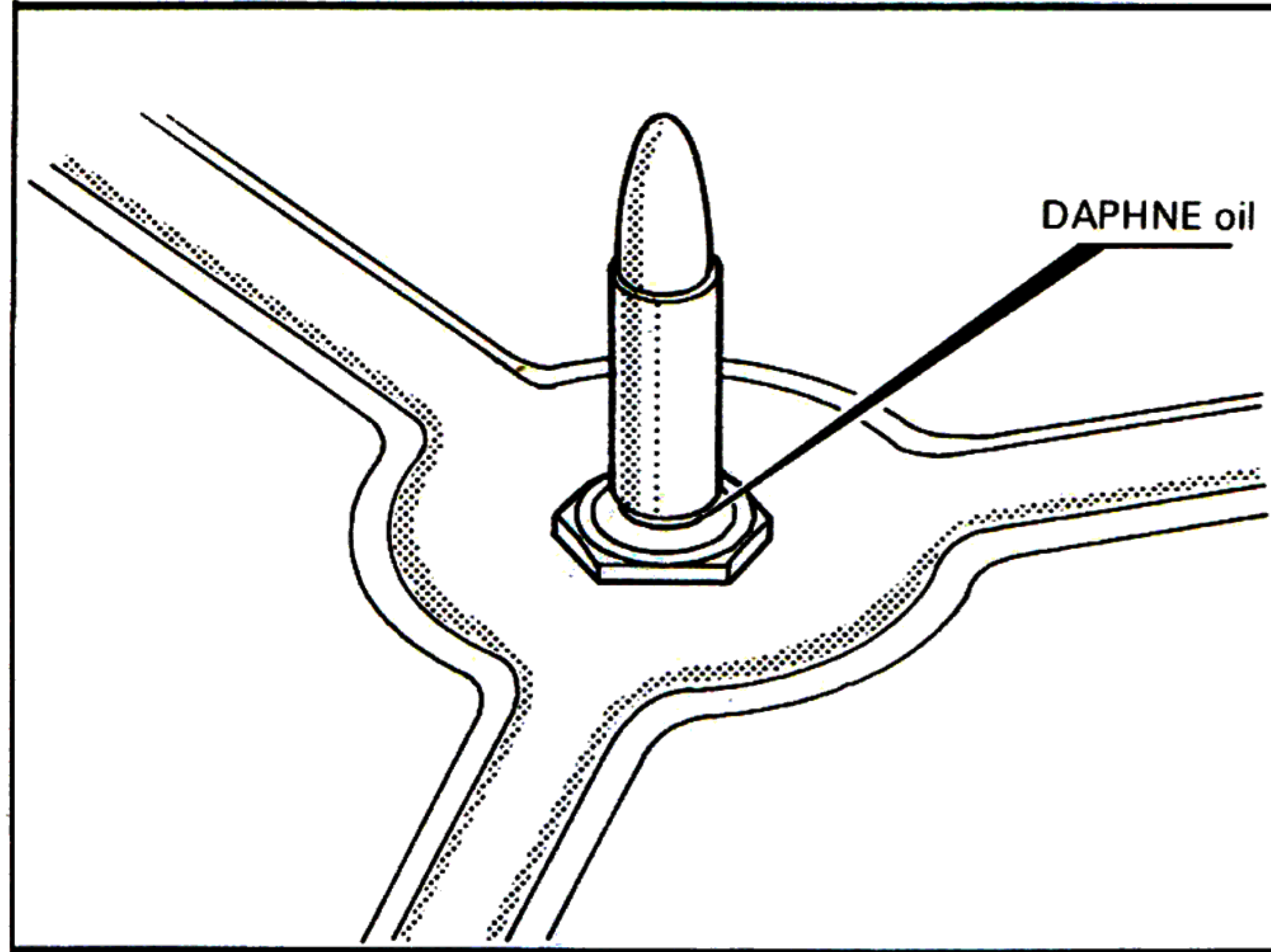
This adjustment is made with the elevation shaft setting nut. The DOWN speed of the shaft becomes faster as the setting position of the adjusting nut is raised.

Note: After the adjustment, be sure to check the UP speed. The adjusting nut should be secured with locking cement.

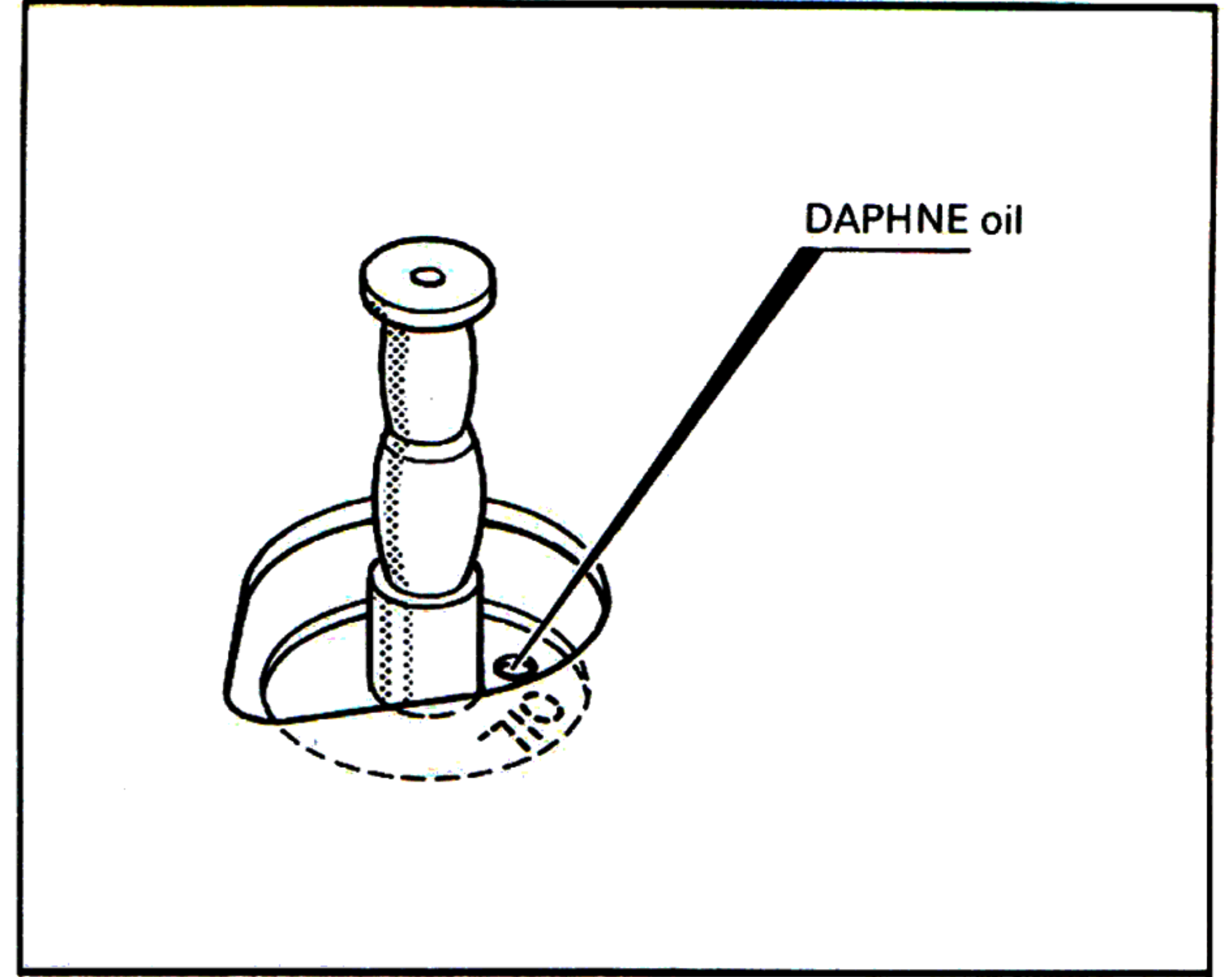
MECHANISM DESCRIPTIONS/ADJUSTMENTS (KD-1033)



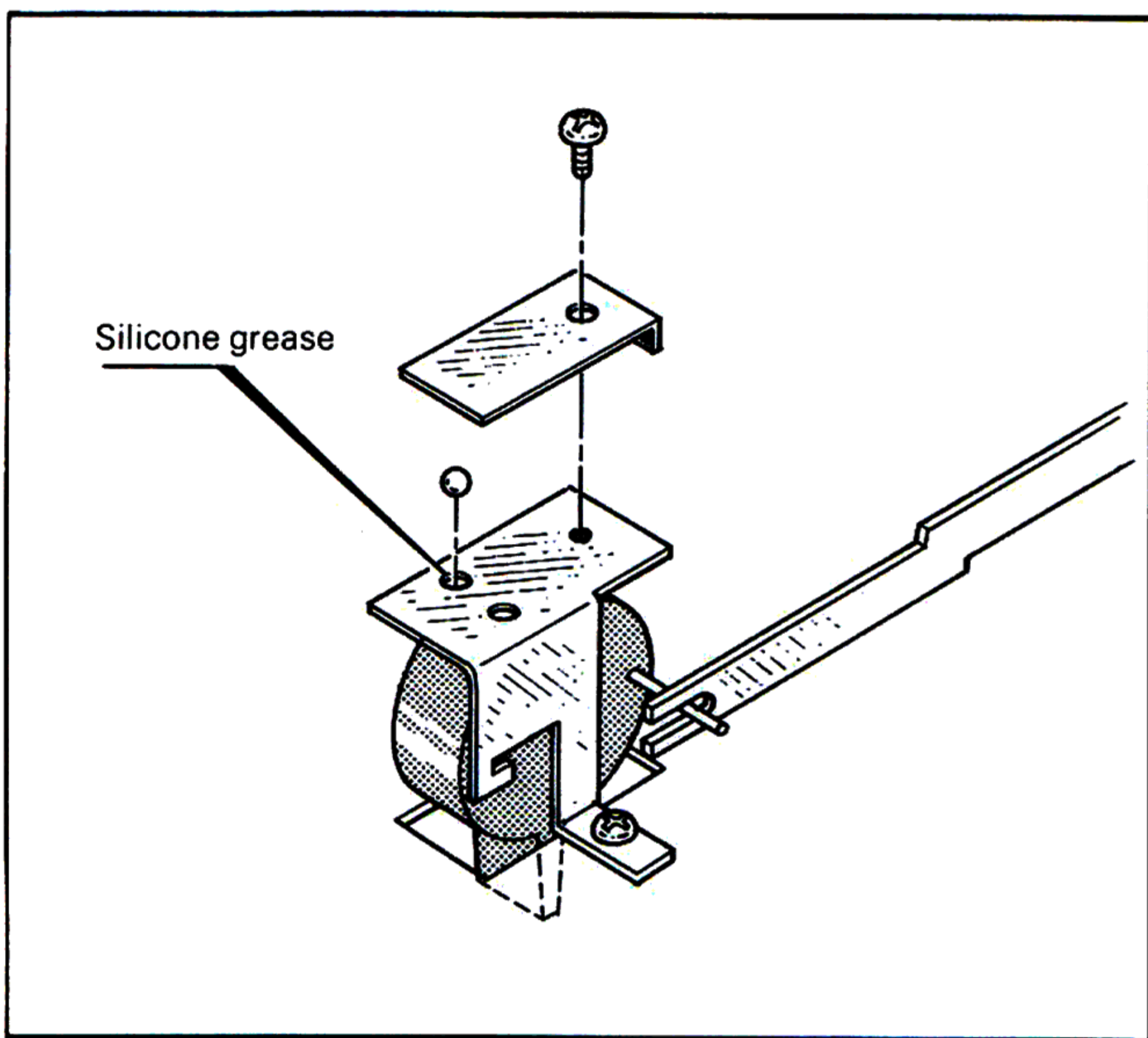
LUBRICATIONS (KD-1033)



Drop oil to the gap around the center shaft.



Drop oil to the indicated point near the motor pulley.



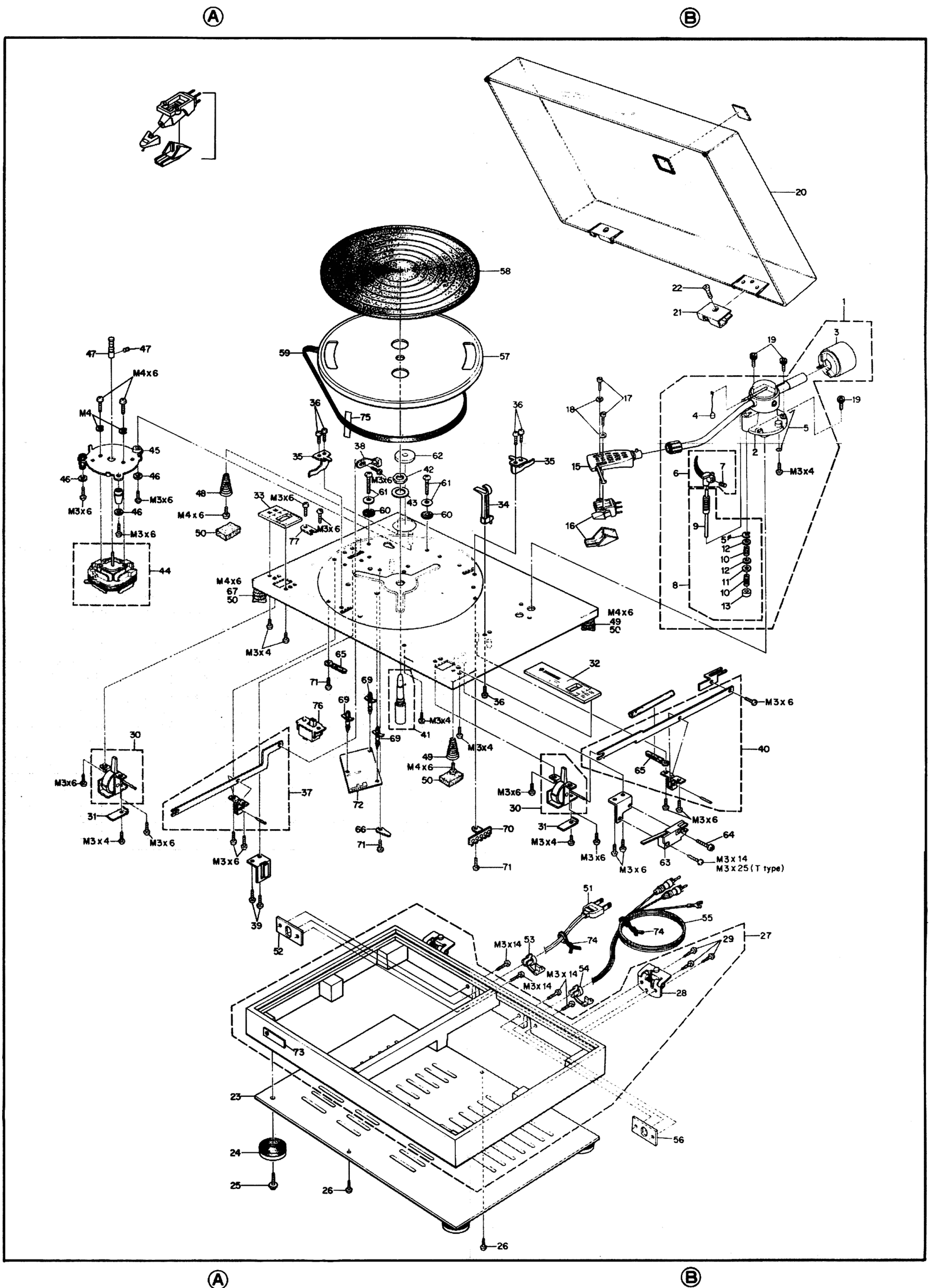
Operating lever ass'y for the speed selector and the function lever should get onto the friction surface with silicone grease.

Note: DAPHNE oil: W01-9995-09
Silicone grease: W01-9990-00

DESTINATIONS' PARTS LIST(KD-1033)

Ref. No.	U.S.A. (K)	Canada (P)	PX (U)	Australia (X)	Europe (W)	Scandinavia (L)	England (T)	South Africa (S)	Other area (M)	Description
—	A20-1029-01	A20-1029-01	A20-1067-01	A20-1029-01	A20-1067-01	A20-1029-01	A20-1029-01	A20-1029-01	A20-1067-01	Panel
—	B23-0004-04	B23-0004-04	B23-0004-04	B23-0004-04	B23-0004-04	B23-0004-04	B23-0004-04	B23-0004-04	B23-0004-04	Overhang gauge
—	B40-1337-03	B40-1337-03	B40-1382-03	B40-1384-03	B40-1383-03	B40-1381-03	B40-1380-03	B40-1384-03	B40-1382-03	Model name plate
32	B03-0113-04	B03-0113-04	B03-0113-04	B03-0113-04	B03-0113-04	B03-0113-04	B03-0119-04	B03-0113-04	B03-0113-04	Dress panel (A)
73	B43-0161-04	B43-0161-04	B43-0161-04	B43-0161-04	B43-0161-04	B43-0161-04	B43-0160-04	B43-0161-04	B43-0161-04	Turntable case badge
—	B42-0560-04	B42-0560-04	—	—	—	—	—	—	—	Caution sticker
—	B42-0612-04	—	—	—	—	—	—	—	—	Quality indication sticker
—	B50-1476-00	B50-1476-00	B50-1476-00	B50-1476-00	B50-1476-00	B50-1476-00	B50-1530-00	B50-1476-00	B50-1476-00	Instruction Manual
—	B46-0056-00	B46-1055-10	B46-0050-00	—	—	—	—	—	—	Warranty card
—	—	—	B46-0051-00	—	—	—	—	—	—	Warranty card
—	—	—	B58-0144-00	—	—	—	—	—	—	Power voltage selector caution card
—	—	—	B58-0139-00	—	—	—	—	—	—	Power supply caution card
—	—	—	B59-0018-00	—	—	—	—	—	—	KENWOOD service stations' list
—	—	—	—	—	—	—	B58-0214-04	—	—	Power cord caution card
—	B58-0043-00	B58-0043-00	—	—	—	—	—	—	—	Carton case caution card
77	—	—	D32-0080-04	—	D32-0080-04	—	—	—	D32-0080-04	Switch stopper (power voltage)
47	—	—	D15-0162-04	D15-0162-04	D15-0162-04	D15-0162-04	D15-0162-04	D15-0162-04	D15-0162-04	Motor pulley (50Hz)
47	D15-0163-04	D15-0163-04	D15-0163-04	—	D15-0163-04	—	—	—	D15-0163-04	Motor pulley (60Hz)
51	E30-0181-05	E30-0181-05	E30-0545-05	E30-0185-05	E30-0459-05	E30-0292-05	O40-0304-05	O40-0304-05	E30-0545-05	Power cord
—	H01-1580-04	H01-1580-04	H01-1580-04	H01-1580-04	H01-1580-04	H01-1580-04	H01-1581-04	H01-1580-04	H01-1580-04	Carton case
—	H10-1458-03	H10-1458-03	H10-1458-03	H10-1458-03	H10-1458-03	H10-1458-03	H10-1458-03	H10-1458-03	H10-1458-03	Polystyrene foamed fixture
—	H12-0030-04	H12-0030-04	H12-0030-04	H12-0030-04	H12-0030-04	H12-0030-04	H12-0030-04	H12-0030-04	H12-0030-04	Buffer fixture (A)
—	H12-0031-03	H12-0031-03	H12-0031-03	H12-0031-03	H12-0031-03	H12-0031-03	H12-0031-03	H12-0031-03	H12-0031-03	Buffer fixture (B)
—	H12-0032-04	H12-0032-04	H12-0032-04	H12-0032-04	H12-0032-04	H12-0032-04	H12-0032-04	H12-0032-04	H12-0032-04	Buffer fixture (C)
—	H12-0033-04	H12-0033-04	H12-0033-04	H12-0033-04	H12-0033-04	H12-0033-04	H12-0033-04	H12-0033-04	H12-0033-04	Carton board
—	H20-0382-04	H20-0382-04	H20-0382-04	H20-0382-04	H20-0382-04	H20-0382-04	H20-0382-04	H20-0382-04	H20-0382-04	Polyethylene cover
—	H25-0016-00	H25-0016-00	H25-0016-00	H25-0016-00	H25-0016-00	H25-0016-00	H25-0016-00	H25-0016-00	H25-0016-00	Polyethylene bag
—	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	Polyethylene bag × 2 (shell, weight)
—	H25-0078-00	H25-0078-00	H25-0078-00	H25-0078-00	H25-0078-00	H25-0078-00	H25-0078-00	H25-0078-00	H25-0078-00	Polyethylene bag (oiler and adapter)
—	H39-0015-05	H39-0015-05	H39-0015-05	H39-0015-05	H39-0015-05	H39-0015-05	H39-0015-05	H39-0015-05	H39-0015-05	Curl stopper
52	J19-0484-04	J19-0484-04	J19-0492-04	J19-0492-04	J19-0492-04	J19-0492-04	J19-0492-04	J19-0492-04	J19-0484-04	Cord stopper
53	J41-0034-05	J41-0034-05	J41-0024-05	J41-0024-05	J41-0017-05	J41-0017-05	J41-0024-05	J41-0024-05	J41-0034-05	Cord bushing
—	—	—	—	—	J61-0014-05	J61-0014-05	J61-0014-05	J61-0014-05	—	Free-up belt
17	N09-0250-05	—	—	—	—	—	—	—	—	Cartridge mounting screw × 2
17	N09-0251-05	—	—	N09-0265-05	N09-0265-05	N09-0265-05	N09-0265-05	N09-0265-05	N09-0265-05	Cartridge mounting screw × 2
64	N09-0195-04	N09-0195-04	N09-0195-04	N09-0195-04	N09-0195-05	N09-0195-05	N09-0275-04	N09-0195-04	N09-0195-04	Insulating screw
63	S50-1017-05	S50-1017-05	S50-1017-05	S50-1017-05	S50-1017-05	S50-1017-05	S50-1017-05	S50-1017-05	S50-1017-05	Micro switch
76	—	—	S31-2001-05	—	S31-2001-05	—	× 2	—	S31-2001-05	Slide switch (power voltage selector)
16	—	T21-0053-05	T21-0051-05	T21-0051-05	T21-0051-05	T21-0051-05	T21-0051-05	T21-0051-05	T21-0051-05	Cartridge
—	—	—	W01-0035-05	—	W01-0035-05	—	—	—	W01-0035-00	Small screw driver
—	X27-1070-01	X27-1070-02	X27-1070-02	X27-1070-02	X27-1070-02	X27-1070-02	X27-1070-04	X27-1070-02	X27-1070-02	Power supply unit

EXPLODED VIEW (KD-1033)



EXPLODED VIEW PARTS LIST (KD-1033)

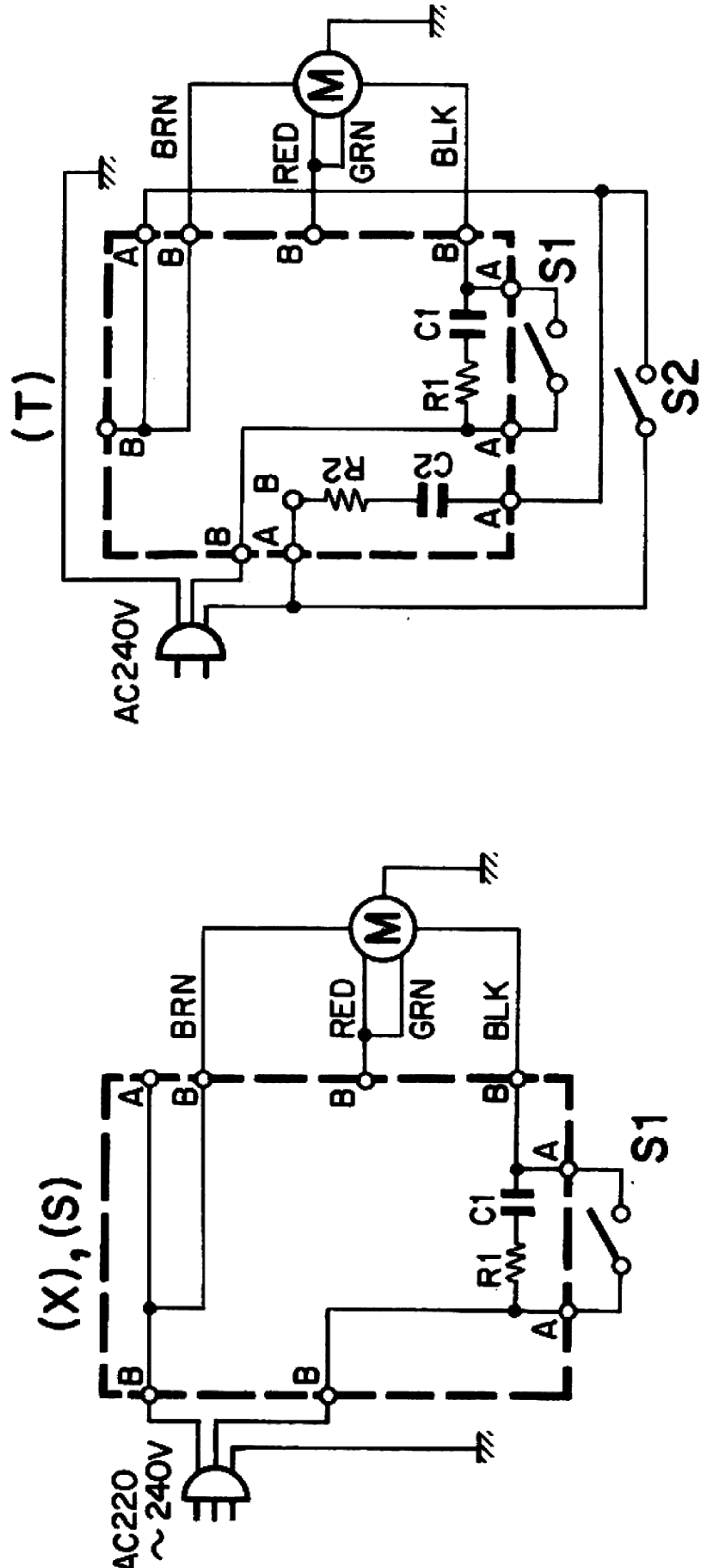
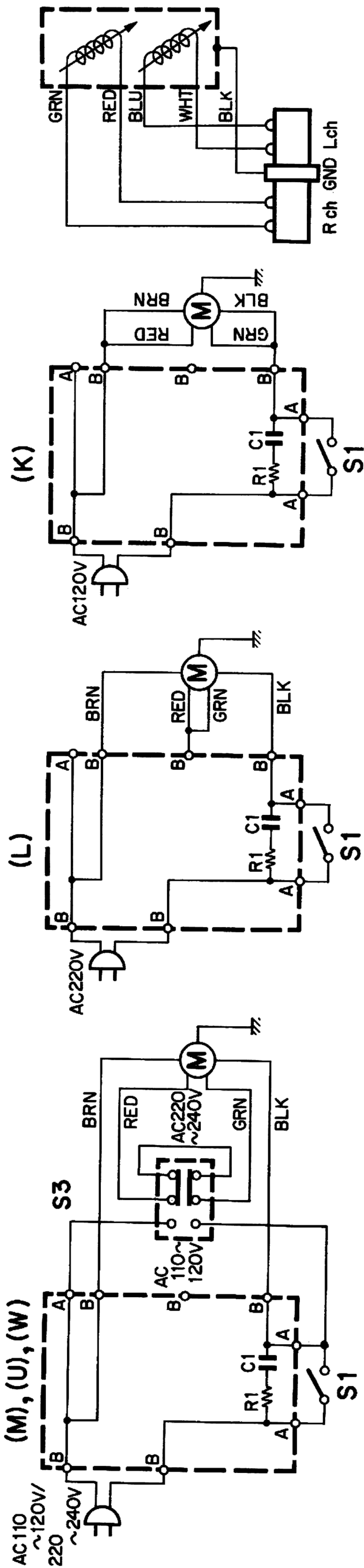
Fig. No.	Parts No.	Description	Remarks
1	J91-0083-05	Tonearm ass'y	1B
2	J91-0084-05	Tonearm	2B
3	D91-0044-05	Weight ass'y	1B
4	D91-0045-05	Bias weight	1B
5	J91-0483-05	Bias rod	1B
6	D39-0047-05	Tonearm support ass'y	2B
7	N73-2604-41	Screw	2B
8	D21-0407-05	Elevation shaft ass'y	2B
9	D21-0408-05	Elevation shaft	2B
10	G01-0333-05	Compression spring	2B
11	N19-0273-05	Flat head washer	2B
12	N19-0269-05	Flat head washer	2B
13	N14-0112-05	Adjusting nut	2B
14	—	—	—
15	J92-0021-05	Shell ass'y	2B
16	Destinations' list	Cartridge	2B
17	Destinations' list	Cartridge mounting screw	2B
18	N19-0267-05	Nylon washer	1B
19	N09-0271-04	Bolt	1B
20	A53-0021-02	Turntable cover	1B
21	J50-0087-05	Hinge (A)	1B
22	N33-4008-45	Round head flat screw	1B
23	A40-0150-02	Bottom board	3A
24	J02-0079-04	Leg	3A
25	N09-0264-04	Special screw	3A
26	N09-0171-04	Tap tight screw	3A,3B
27	A03-0202-01	Turntable case ass'y	3B
28	J50-0080-05	Hinge (B)	3B
29	N61-3113-45	Round head wood screw	3B
30	D12-0078-04	Operating lever ass'y	2A,2B
31	G02-0070-04	Plate spring	2A,2B
32	Destination's list	Dress panel (A)	2B
33	B03-0114-04	Dress panel (B)	2A
34	D39-0049-04	Tonearm rest	2B
35	J21-1486-04	L shaped hardware	2A,2B
36	N87-3006-45	Tap tight screw	1A,1B
37	D10-0223-04	Speed selector lever ass'y	2A
38	D10-0225-04	Speed selector guide	2A
39	N87-3006-45	Tap tight screw	3A
40	D10-0226-04	Elevation bar ass'y	2B
41	D23-0140-04	Turntable bearing ass'y	2A
42	N14-0048-14	Nut	2A
43	N19-0142-04	Flat head washer	2A
44	T41-0103-05	Motor	2A
45	G13-0105-04	Rubber cushion	2A
46	N19-0186-14	Flat head washer	2A
47	Destinations' list	Motor pulley	1A
48	G01-0351-04	Conical spring (A)	2A
49	G01-0336-04	Conical spring (B)	2A,2B
50	G11-0050-04	Cushion	2A,2B
51	Destinations' list	Power cord	3B
52	Destinations' list	Cord stopper	3A
53	Destinations' list	Cord bushing	3B
54	J41-0017-05	Cord bushing	3B
55	E30-0419-15	Audio cable	3B
56	J19-0492-04	Cable stopper	3B
57	D02-0017-05	Turntable platter	1B
58	G16-0054-13	Turntable sheet	1B
59	D16-0057-03	Drive belt	1A
60	N15-1040-46	Flat head washer	2A
61	B59-0020-04	Transporting screw caution card	2A
62	W01-0057-04	EP adapter	2A

Fig. No.	Parts No.	Description	Remarks
63	Destinations' list	Micro switch	3B
64	Destinations' list	Insulating screw	2B
65	J19-0306-05	Lead crimper	2A,2B
66	E23-0083-05	Terminal lug	2A
67	G01-0336-04	Nylon crimper	2A
68	—	—	—
69	D39-0041-05	PC board stud	2A
70	E22-0416-05	Lug type terminal strips	2B
71	N87-3006-45	Tap tight screw	3B
72	Destinations' list	Power supply unit	2A
73	Destinations' list	Turntable case badge	3A
74	J61-0054-05	Vinyl tie	3B
75	J69-0019-04	Tape	1A
76	Destinations' list	Slide switch	2A
77	Destinations' list	Switch stopper	2A

POWER SUPPLY (X27-1070-01, 02-, -04)

Ref. No.	Parts No.	Description	Remarks
CAPACITOR			
C1	C90-0305-15	Metal film 0.1μF 125WV (X27-1070-01)	
C1	CK45E3D103-PMU	Ceramic 0.01μF 2000WV (X27-1070-02)	
C1,2	CK45E3D103-PMU	Ceramic 0.01μF 2000WV (X27-1070-04)	
RESISTOR			
R1	RC05GF2H120K	Carbon 12Ω ±10% 1/2W (X27-1070-01, -02)	
R1,2	RC05GF2H120K	Carbon 12Ω ±10% 1/2W (X27-1070-04)	
MISCELLANEOUS			
—	F09-0033-05	Capacitor cap (X27-1070-02)	

SCHEMATIC DIAGRAM (KD-1033)



	R1,2	C1,2	POWER SUPPLY UNIT
USA	(K) 12Ω 1/2W	0.1μF 125WV	X27-1070-01
OTHER AREAS	"	0.01μF 2000WV	X27-1070-02
PX	"	"	"
EUROPE	"	"	"
ENGLAND	"	"	X27-1070-04
SOUTH AFRICA	"	"	X27-1070-02
SCANDINAVIA	"	"	"

M : MOTOR
S1,2: MICRO SW.
S3 :SLIDE SW.

SPECIFICATIONS (KD-1033)

MOTOR and TURNTABLE

Drive System	Belt-drive system
Motor	4-pole synchronous motor
Turntable Platter	12 inch (30 cm) diameter Zinc ally die-casting
Speeds	2 speeds, 33-1/3 and 45 rpm
Wow and Flutter	Less than 0.06% (WRMS) Less than ±0.08% (DIN)
Signal to Noise	More than 48 dB More than 40 dB (DIN unweighted) More than 64 dB (DIN weighted)

TO NEARM

Type	Static-balance type, S-shaped pipe arm EIA plug-inconnector
Effective Arm Length	8-7/16 inch (215 mm)
Over-Hang	3/8 inch (9.5 mm)
Tracking Error	± 1.5 degree
Stylus Pressure	
Variable Range	0 to 3 grams
Usabel Cartridge	
Weight	4 to 10 grams (Supplied headshell 7 grams)

CARTRIDGE (Only for U,X,M type)

Type	Moving magnet type (V-47)
Frequency Response	20 ~ 20,000 Hz
Channel Separation	More than 26 dB (at 1,000 Hz)
Output Voltage	2.3 mV (5 cm/sec at 1,000 Hz)
Output Balance	1.5 dB (5 cm/sec at 1,000 Hz)
Load Impedance	50k ohms
Stylus	0.5 mil diamond
Stylus Pressure	2 ±0.5 grams
Compliance	7.5 × 10 ⁻⁶ cm/dyne

CARTRIDGE (P type)

Type	V-shaped dual type (V-41A)
Frequency Response	20 ~ 20,000 Hz
Channel Separation	More than 25 dB (at 1,000 Hz)
Output Voltage	2 mV (5 cm/sec at 1,000 Hz)
Output Balance	1.5 dB (5 cm/sec at 1,000 Hz)
Load Impedance	50 k ohms
Stylus	0.6 mil diamond
Stylus Pressure	2 ±0.5 grams
Compliance	7 × 10 ⁻⁶ cm/dyne

SPECIAL MECHANISM

(Additional Feature)	Tone arm elevation Anti-skating device Stylus pressure direct-readout counter Panel-floating suspension
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ACCESSORIES

(Supplied)	EP adapter Motor lubricating oil Over-hang gauge Motor pulley and screw driver (only for M.U.W type)
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POWER CONSUMPTION

7 watts

DIMENSIONS

W 17-15/16" (456 mm)
D 13-11/16" (347 mm)
H 5-11/16" (145 mm)

WEIGHT

13.2 lbs (6 kg)

POWER REQUIREMENT

AC 120V, 60 Hz (K.P type)
AC 220V, 50 Hz (L type)
AC 220V ~ 240V, 50 Hz
(T.X.S type)
AC 110 ~ 120/220 ~ 240V,
50/60 Hz (M.U.W type)

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