

The home of the turntable

# THE VINYL **ENGINE**®

For more turntable manuals and setup information  
please visit [www.vinylengine.com](http://www.vinylengine.com)





SR-2050



# TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1.	SPECIFICATIONS . . . . .	5-1
2.	CONTROLS, INDICATORS AND OTHERS . . . . .	5-2
3.	MAINTENANCE . . . . .	5-3
3-1.	Changing the capstan . . . . .	5-3
3-2.	Replacing the cartridge . . . . .	5-3
3-3.	Oiling . . . . .	5-4
3-4.	Changing the LINE voltage . . . . .	5-4
4.	ADJUSTMENT . . . . .	5-5
4-1.	Adjusting the stylus pressure . . . . .	5-5
4-2.	Adjusting the inside force canceler . . . . .	5-5
4-3.	Adjusting the lateral balancer . . . . .	5-5
4-4.	Adjusting the Auto Lift mechanism . . . . .	5-5
5.	TROUBLESHOOTING . . . . .	5-7
5-1.	Turntable not rotating . . . . .	5-7
5-2.	No sound . . . . .	5-7
5-3.	Distorted or weak sound . . . . .	5-7
5-4.	Hum . . . . .	5-8
5-5.	Rumble (Unusual) sound . . . . .	5-8
5-6.	Incorrect speed . . . . .	5-8
5-7.	Improper tracing . . . . .	5-8
5-8.	Defective Auto Lift and Auto Stop . . . . .	5-8
6.	EXPLODED VIEW & PARTS LIST . . . . .	5-11
6-1.	Exploded view (1) and parts list . . . . .	5-12
6-2.	Exploded view (2) and parts list . . . . .	5-15
6-3.	Exploded view (3) and parts list . . . . .	5-16
6-4.	Exploded view (4) and parts list . . . . .	5-19
6-5.	Packing and accessories list . . . . .	5-20
6-6.	Auto Lift circuit board . . . . .	5-21
7.	OPERATION OF AUTO LIFT AND STOP MECHANISM . . . . .	5-23
8.	WIRING DIAGRAM . . . . .	5-25



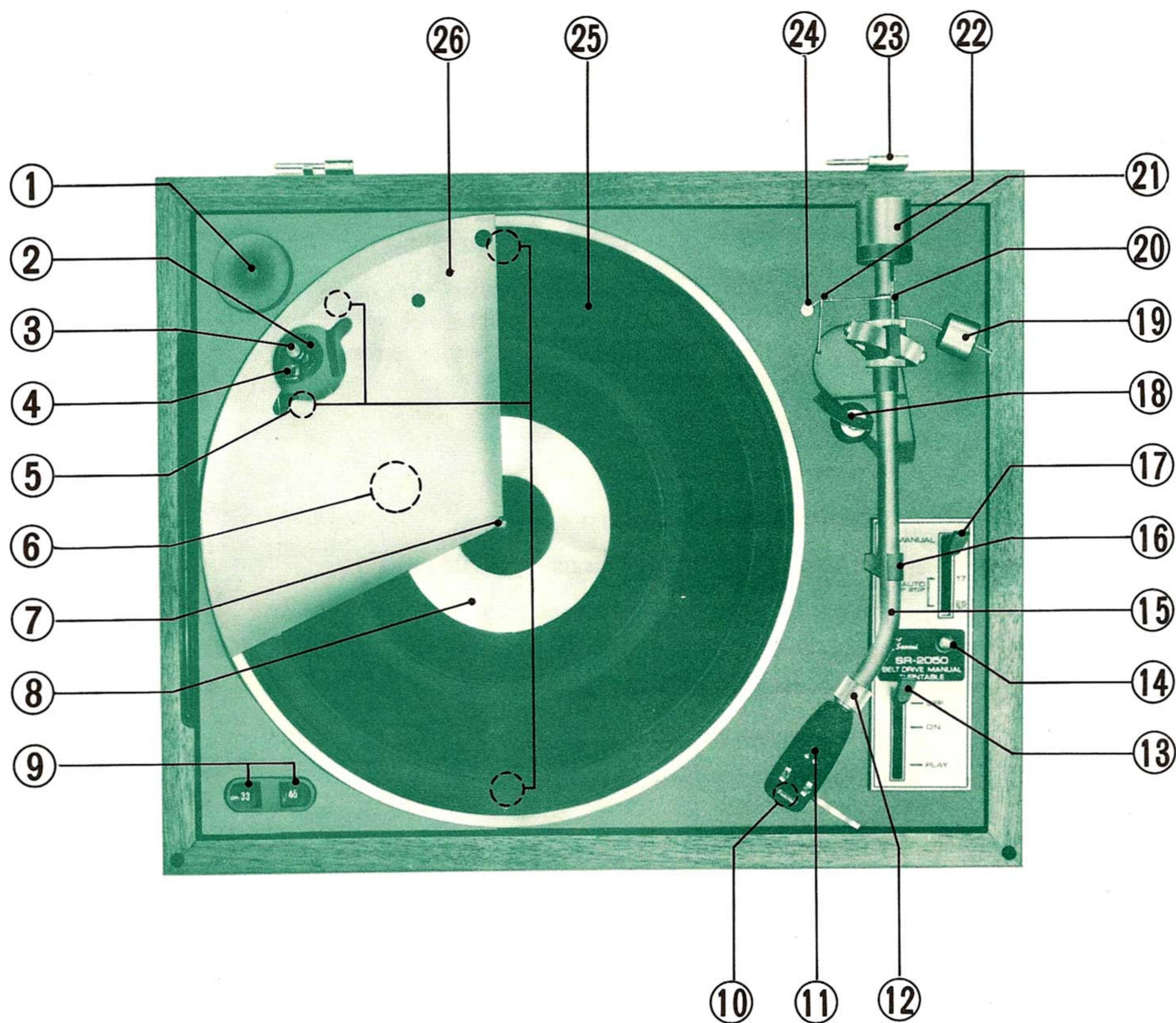
# 1. SPECIFICATIONS

Type:	2-speed, belt-driven turntable with Auto Lift, Auto Stop mechanism
Rated speeds:	33 <sup>1</sup> / <sub>3</sub> , 45 rpm
Motor:	4-pole synchronous
Turntable (Platter):	Aluminum alloy die-cast, 301 mm (11 <sup>13</sup> / <sub>16</sub> " ) $\phi$ , 1.2 kg (2.64 lbs)
Tonearm:	Static-balanced tubular with inside force canceler, lateral balance weight and direct readout stylus pressure scale
Arm length:	220 mm (8 <sup>21</sup> / <sub>32</sub> " )
Overhang:	15 mm (1 <sup>9</sup> / <sub>32</sub> " )
Tracking error:	Less than $\pm 1.5^\circ$
Cartridge:	Induced magnet type (IM type)
Stylus:	0.5 mil diamond
Stylus compliance:	17 $\times 10^{-6}$ cm/dyne
Load impedance:	50 k $\Omega$
S/N ratio:	Better than 40 dB
Wow and Flutter:	Less than 0.07 %
Frequency response:	20 $\sim$ 20,000 Hz
Output voltage:	5 mV
Crosstalk:	Better than 25 dB at 1 kHz
Stylus pressure:	1.5 $\sim$ 2 grams
Dust cover:	Smoked acrylic dust cover
Cabinet:	Walnut, open-pore finished
Power source:	100 V, 115 V, 130 V, 200 V, 230 V, and 250 V, 50/60 Hz
Dimensions:	Width 440 mm (17 <sup>21</sup> / <sub>64</sub> " ), depth 350 mm (13 <sup>25</sup> / <sub>32</sub> " ), height 190 mm (7 <sup>31</sup> / <sub>64</sub> " )
Weight:	9.4 kg (20.7 lbs)

※ Manufacturer reserves a right to change design and/or specifications without notice for purpose of improvement.



## 2. CONTROLS, INDICATORS AND OTHERS



- ① 45 rpm adaptor
- ② Belt
- ③ Capstan
- ④ Belt guide
- ⑤ Shipping bolts
- ⑥ Voltage selector
- ⑦ Turntable spindle
- ⑧ Turntable ring
- ⑨ Speed selector switch

- ⑩ Cartridge (Stylus)
- ⑪ Shell
- ⑫ Locking nut
- ⑬ Control lever
- ⑭ Pilot lamp
- ⑮ Tonearm
- ⑯ Arm rest
- ⑰ Selector lever
- ⑱ Arm lifter

- ⑲ Lateral weight
- ⑳ Bias cursor
- ㉑ Bias hook
- ㉒ Main weight
- ㉓ Hinge
- ㉔ Bias weight
- ㉕ Turntable rubber mat
- ㉖ Turntable (Platter)



## 3. MAINTENANCE

### 3-1. Changing the capstan

The SR-2050's power source frequency has been properly adjusted for the area. If the turntable is brought to the country or area where electrical cycles change from 50 to 60 Hz or vice versa, an adjustment of the turntable speed is necessary as follows.

1. Remove the turntable (platter) and belt.
2. Loosen the setscrew of the capstan and pull the capstan up.
3. Attach a proper capstan (the thicker one is for 50 Hz).
4. Adjust the height of the capstan so that the belt moves smoothly while changing the turntable speed from  $33\frac{1}{3}$  to 45 rpm or vice versa, then tighten the setscrew of the capstan securely.

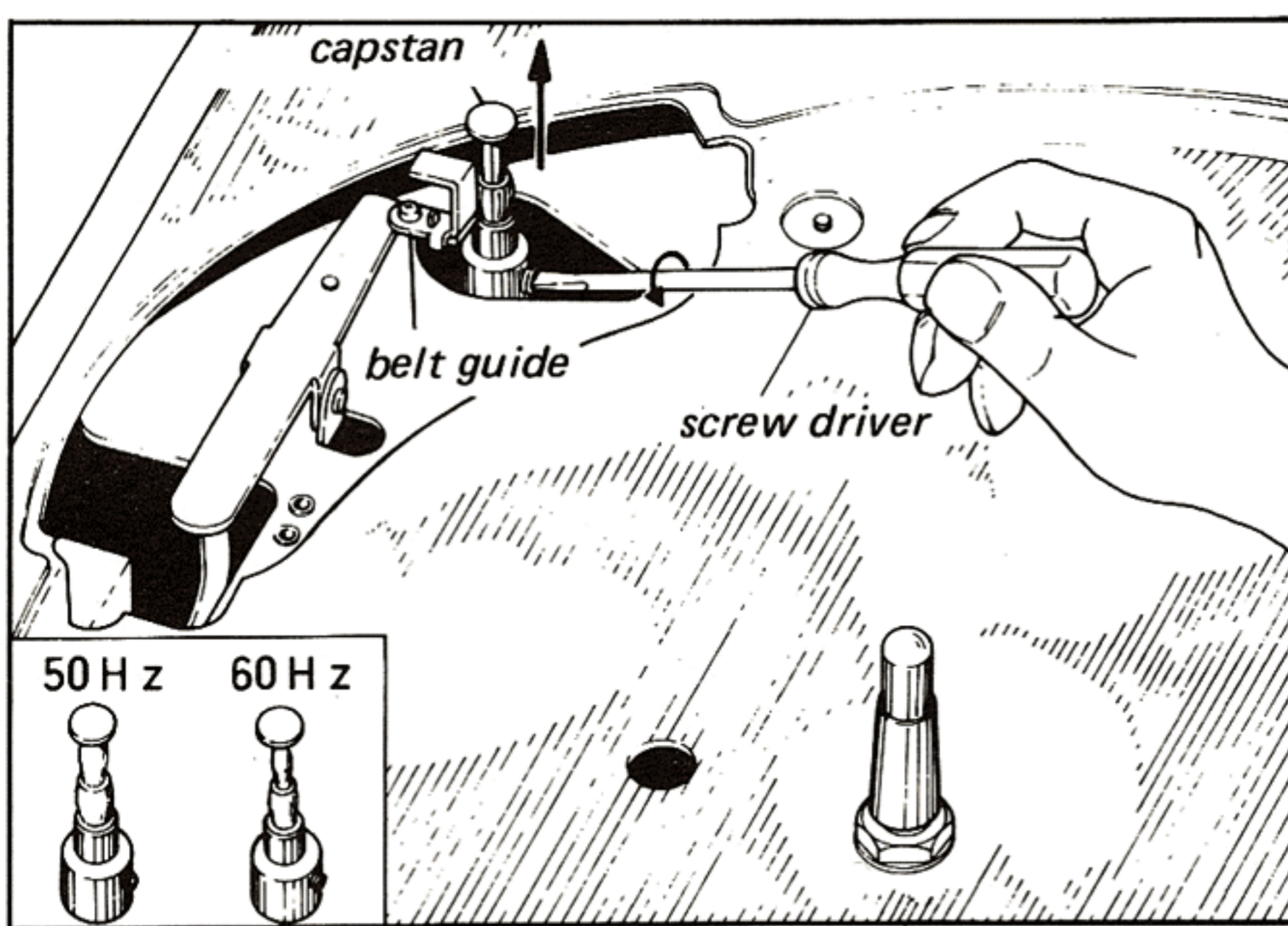


Fig. 3-1

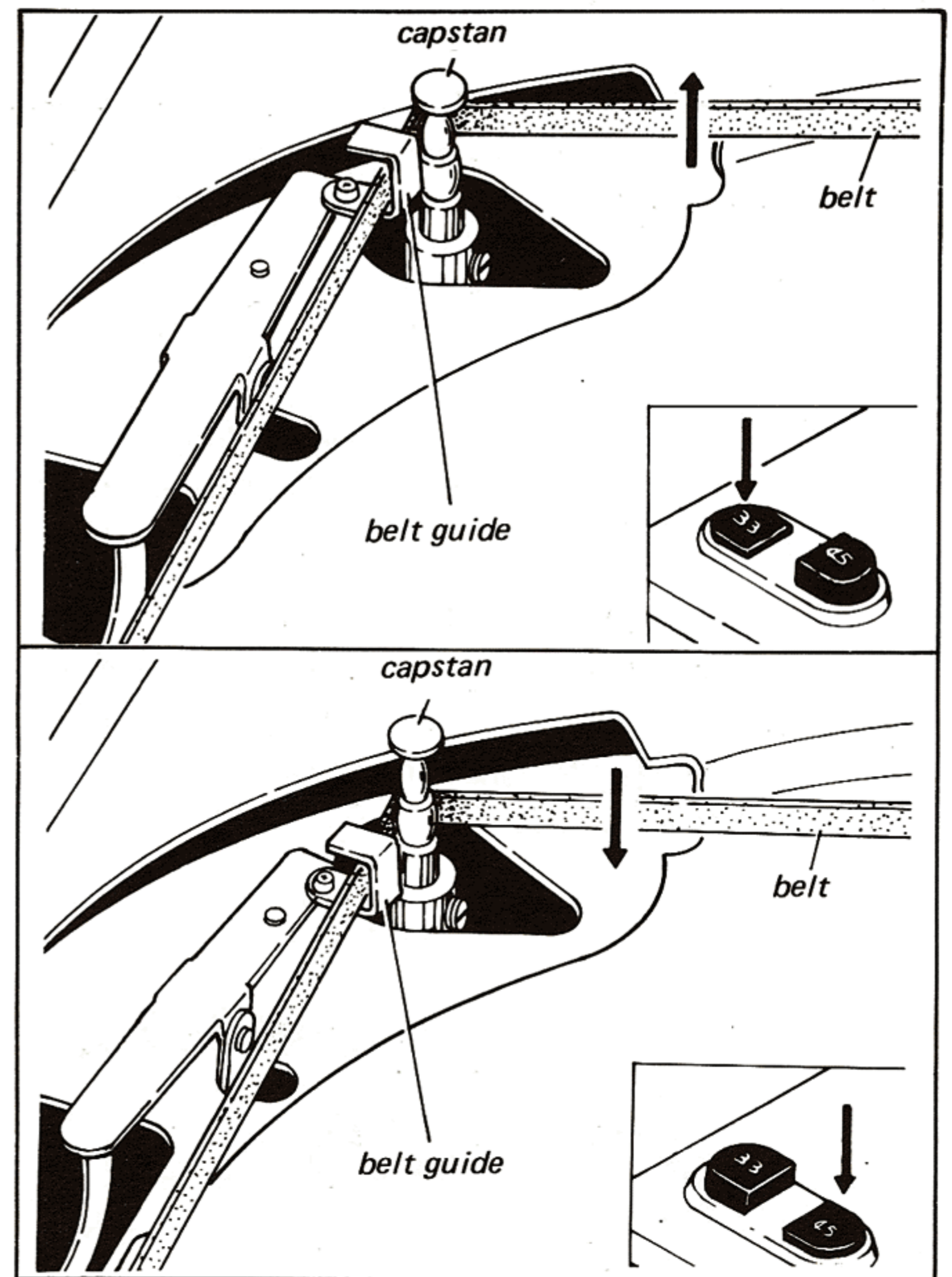


Fig. 3-2

### 3-2. Replacing the cartridge

1. Turn the locking nut counterclockwise and pull the shell out.
2. Remove the cartridge by loosening the nuts and disconnecting the leads.
3. Attach the cartridge and connect the leads in place correctly.
4. After replacement, adjust the stylus pressure again. (See page 5-5, 4-1. Adjusting the stylus pressure.)

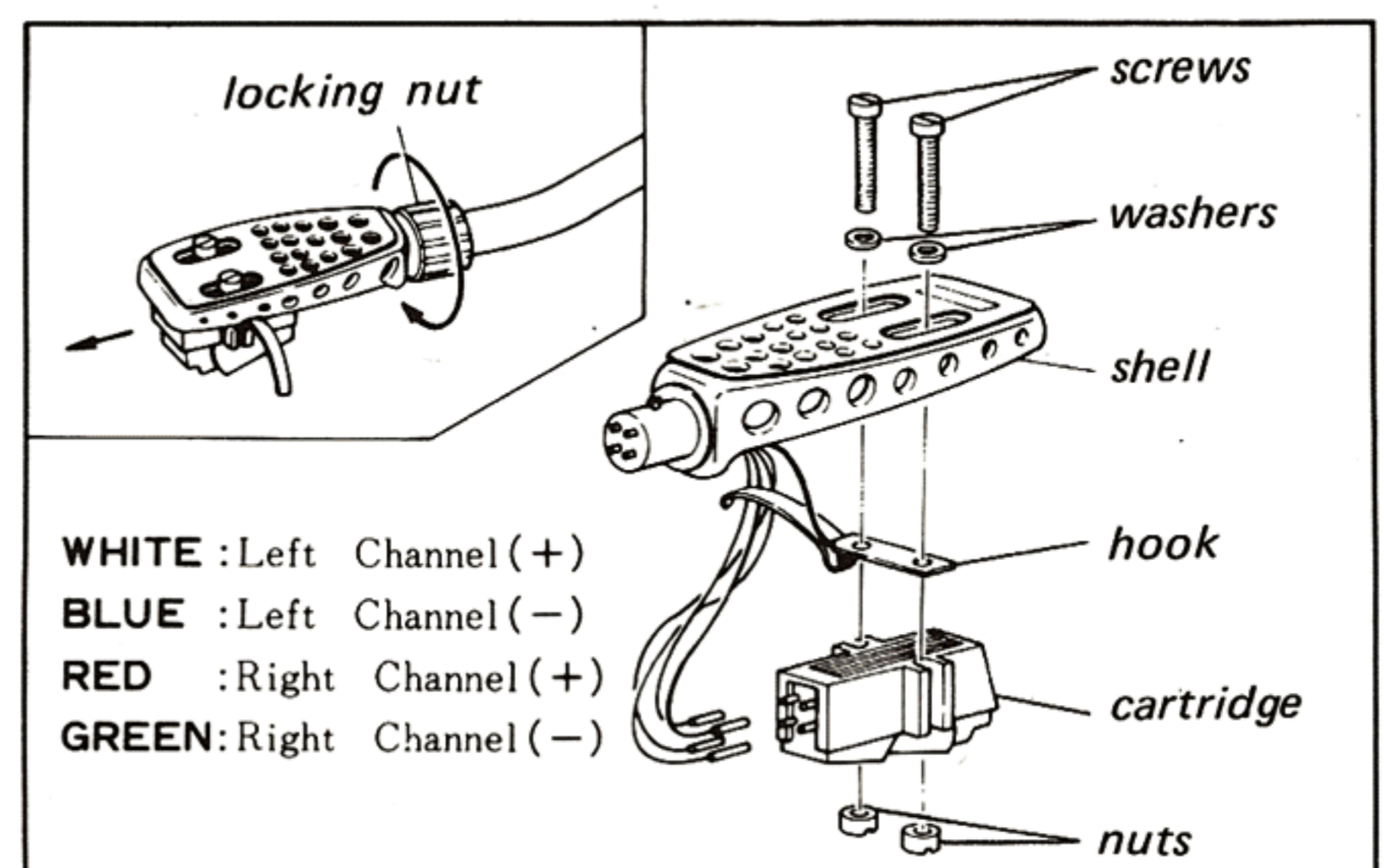


Fig. 3-3



### 3-3. Oiling

Although the need for oiling depends on usage, oiling should be performed once a year (every 1,000 hours of operation).

1. Motor (See Fig. 3-4)

Remove the turntable (platter) and apply a few drops of oil.

Use only the oil attached with the turntable. Be careful that the oil does not stain the belt or the capstan.

2. Turntable spindle (See Fig. 3-5)

Remove the bottom board from the cabinet and loosen the setscrew in the bearing section of the turntable spindle, pull the spindle up and apply a few drops of oil.

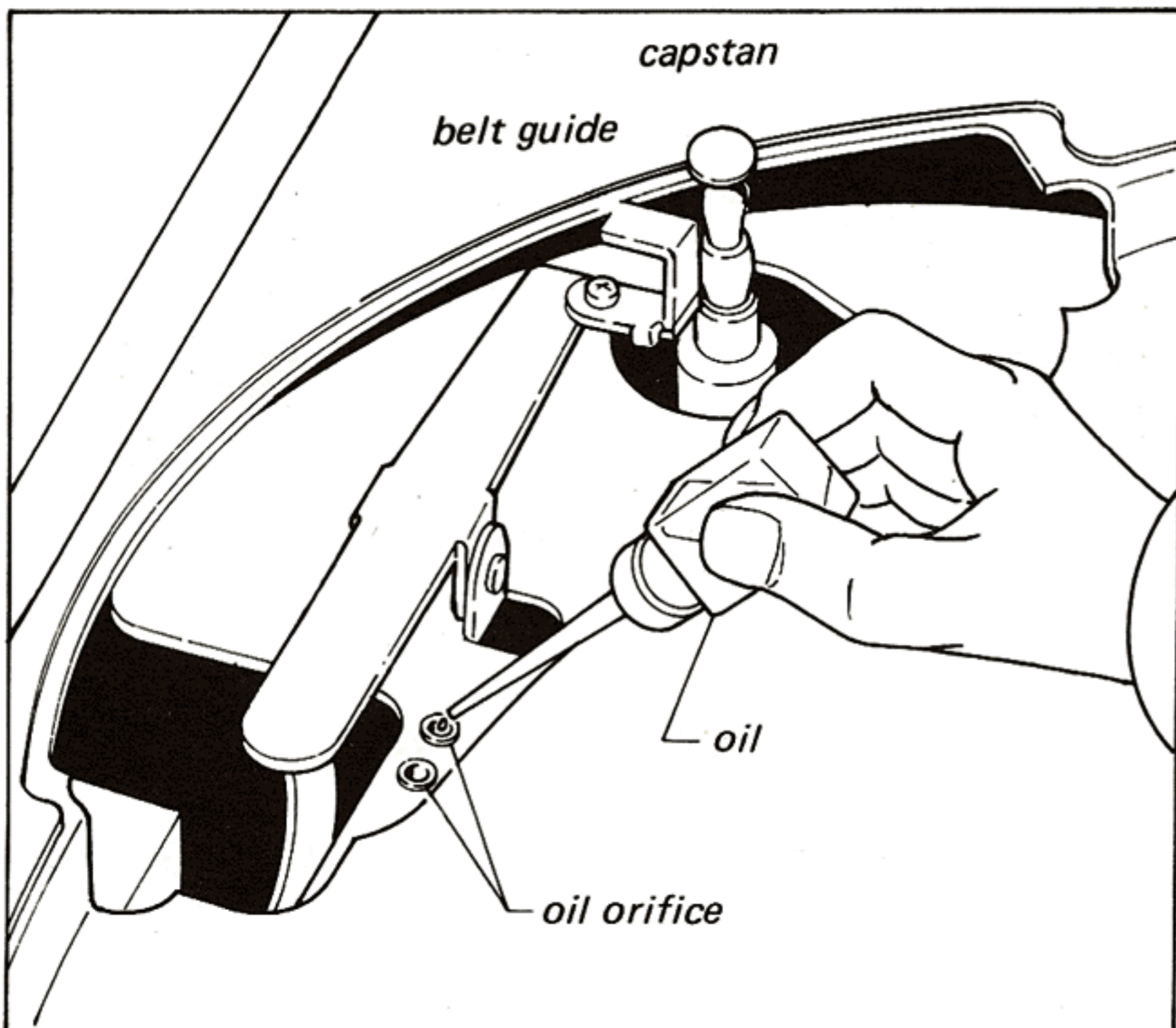


Fig. 3-4

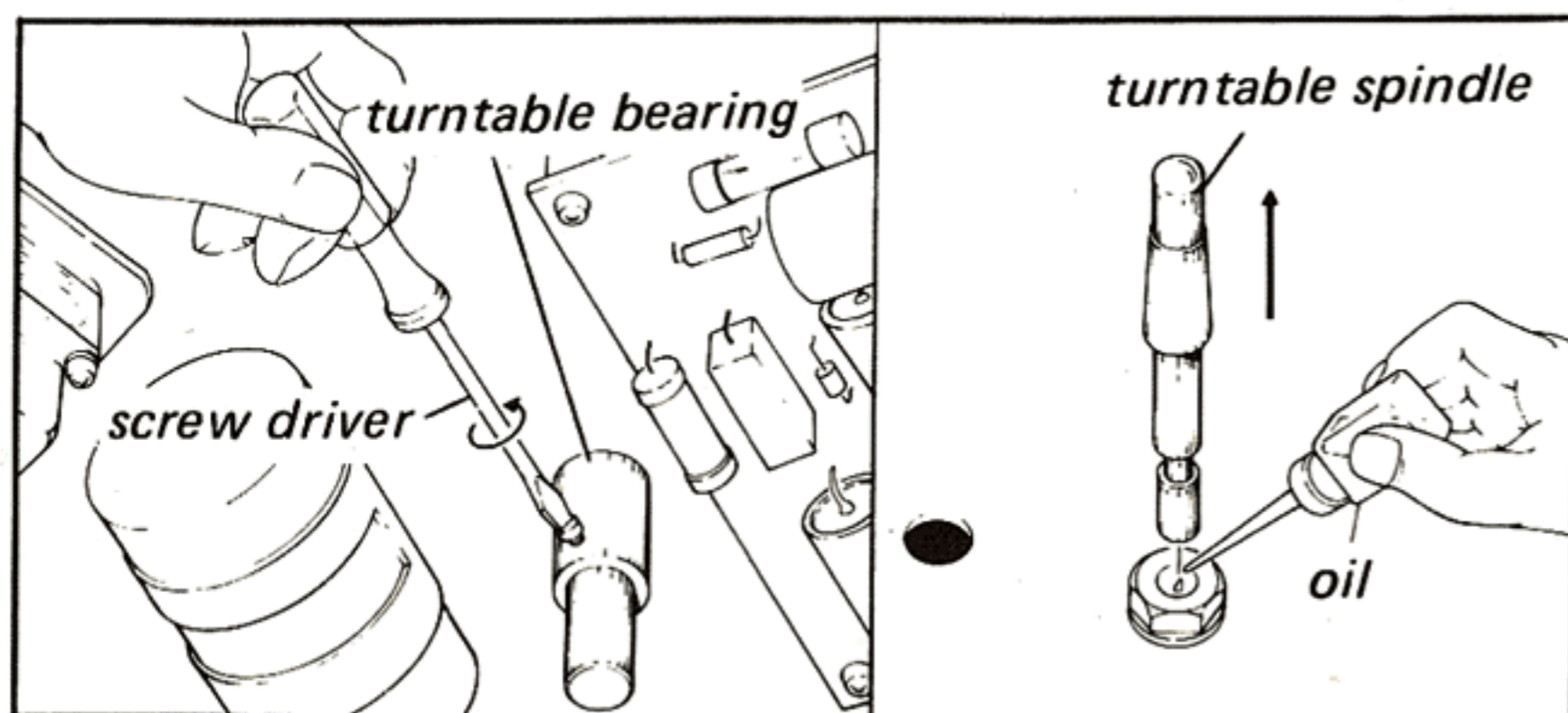


Fig. 3-5

### 3-4. Changing the LINE voltage (See Fig. 3-6)

The SR-2050 can be used at six different voltages: 100 V, 115 V, 130 V, 200 V, 230 V and 250 V. Be careful not to switch to the wrong position.

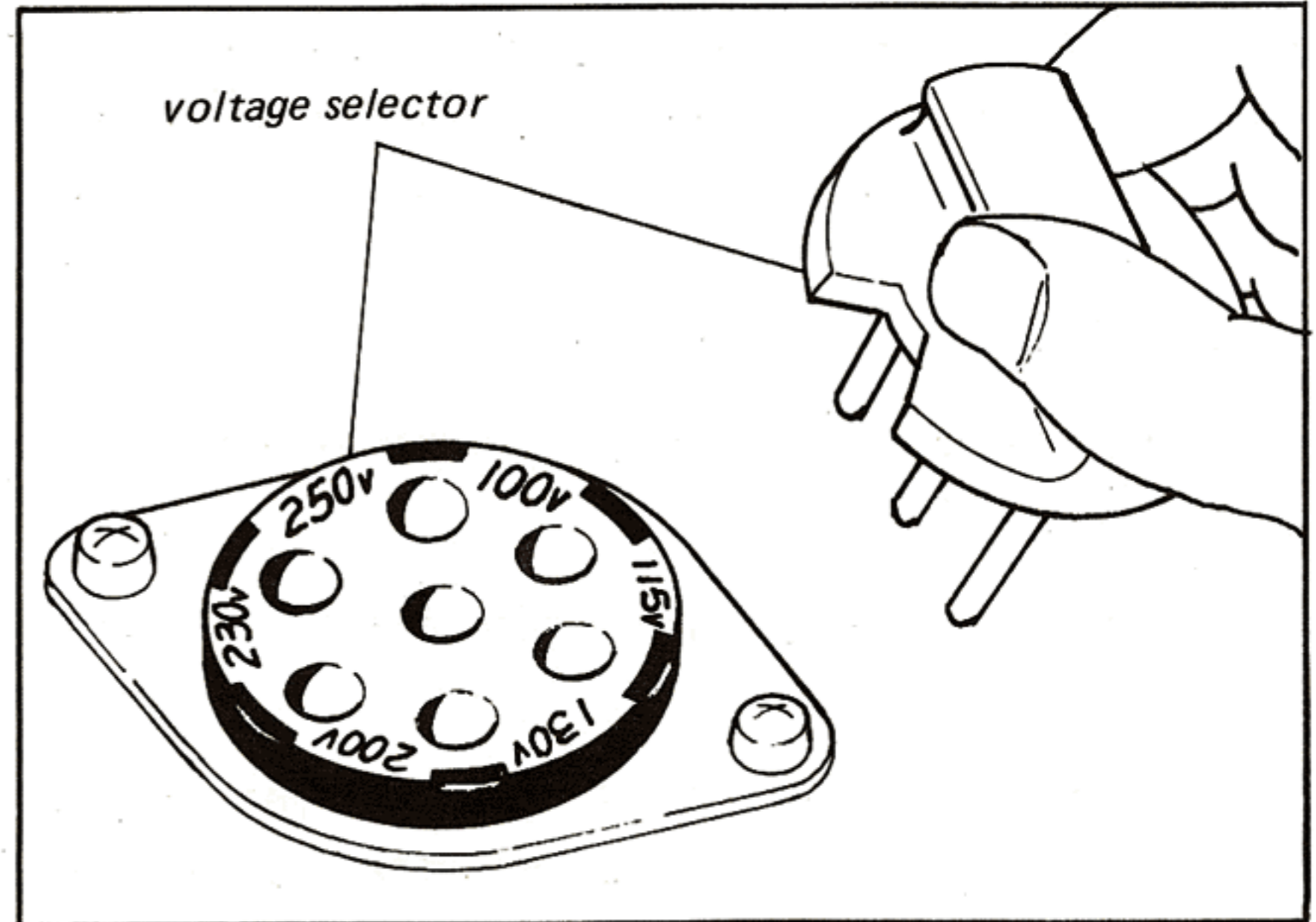


Fig. 3-6



## 4. ADJUSTMENT

### 4-1. Adjusting the stylus pressure

1. Remove the stylus cover from the cartridge and set the control lever to PLAY.
2. Remove the tonearm from its rest and move the main weight back and forth until the tonearm balances.
3. Move the stylus pressure scale only so that the "O" mark on it coincides with the marker on the weight shaft.
4. By turning the main weight counterclockwise (as viewed from the front), position it so that the number (specified stylus pressure of the cartridge used) on the stylus pressure scale coincides with the stylus pressure.

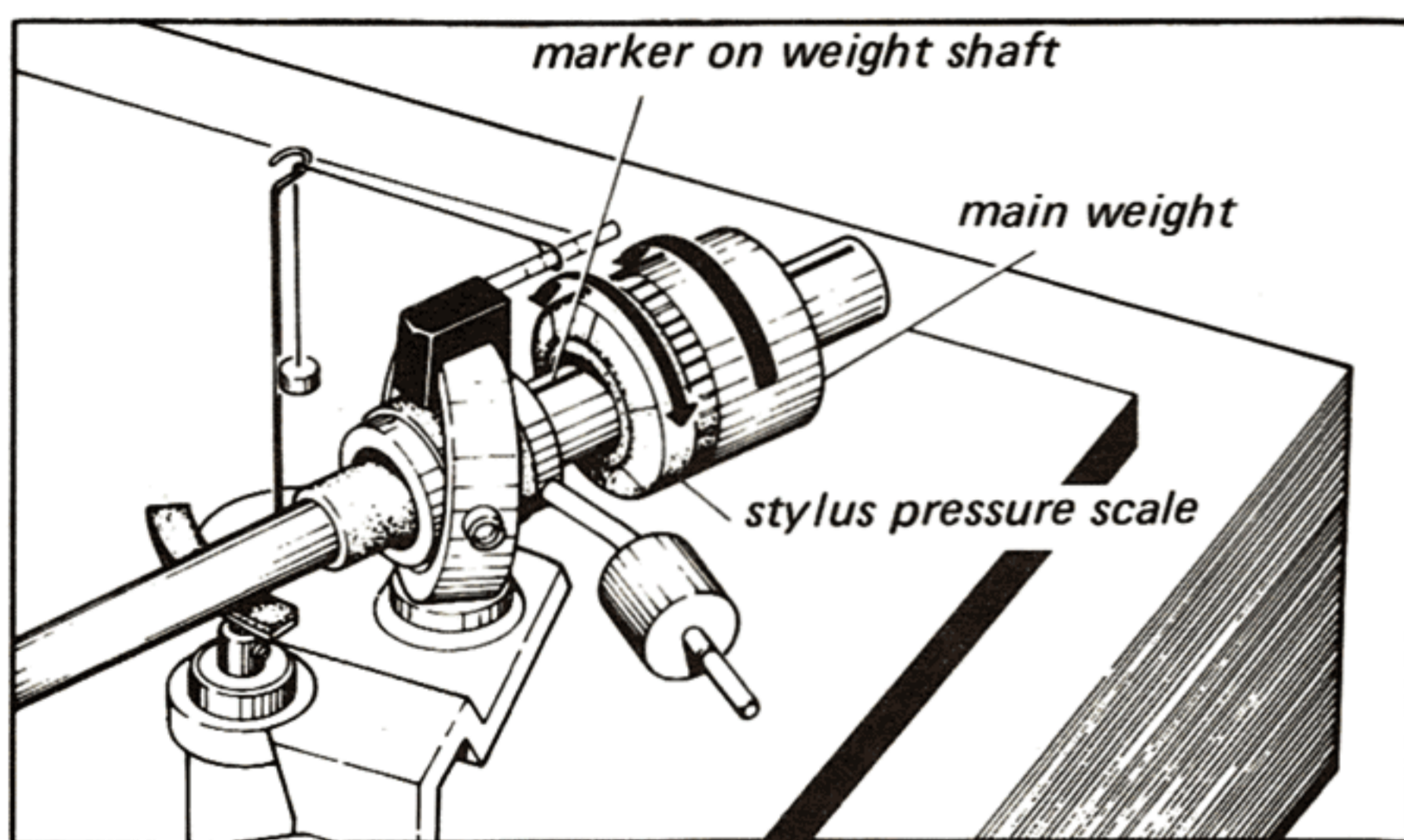


Fig. 4-1

### 4-2. Adjusting the inside force canceler

1. Thread the loop of the bias weight over the bias cursor and drop the thread into the bias hook.
2. Each notch on the bias lever represents 0.5 gram. Position the loop in the groove corresponding to the stylus pressure being used.

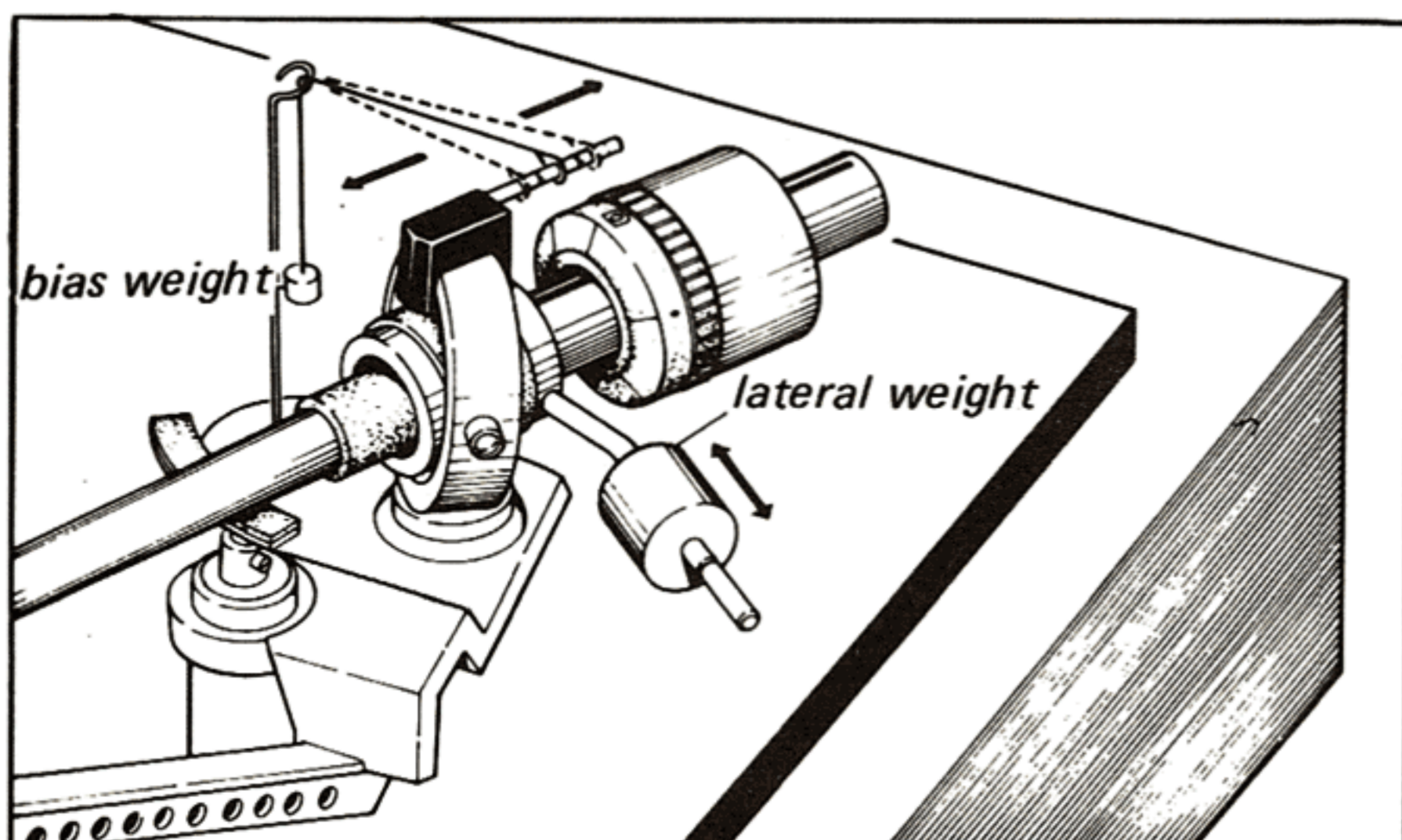
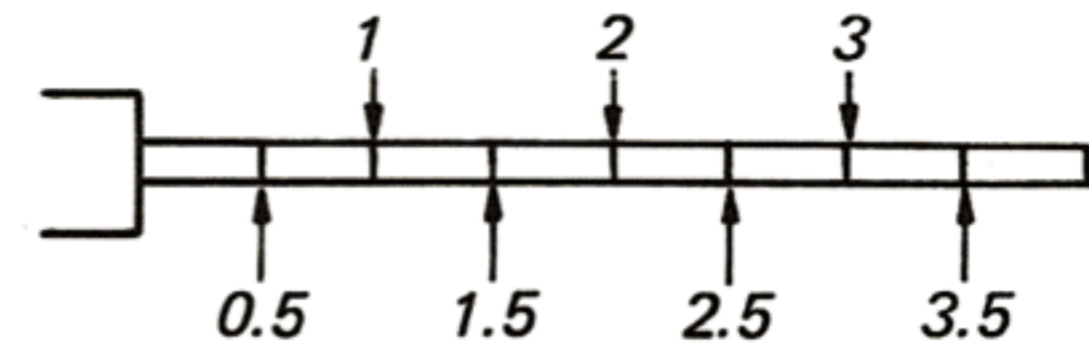


Fig. 4-2



bias cursor scale (unit : g)

### 4-3. Adjusting the arm lifter

1. Cut the AC power off.
2. Balance the tonearm. (See 4-1. Adjusting the stylus pressure.)
3. Move the lateral weight until the tonearm stops at any position as it is placed, while raising the rear bottom edge (hinged side) of the SR-2050 about four inch high.
4. Lateral balance is pre-adjusted for the attached cartridge.

### 4-4. Adjusting the Auto Lift mechanism

1. Check the timing of the Auto Lift (leading or lagging).
2. Remove the bottom board and adjust the fine adjusting nut. To turn the nut clockwise is for leading and counterclockwise is for lagging. After adjustment, check its operation a few times.
3. Apply the locking paint in place to the nut after adjustment.

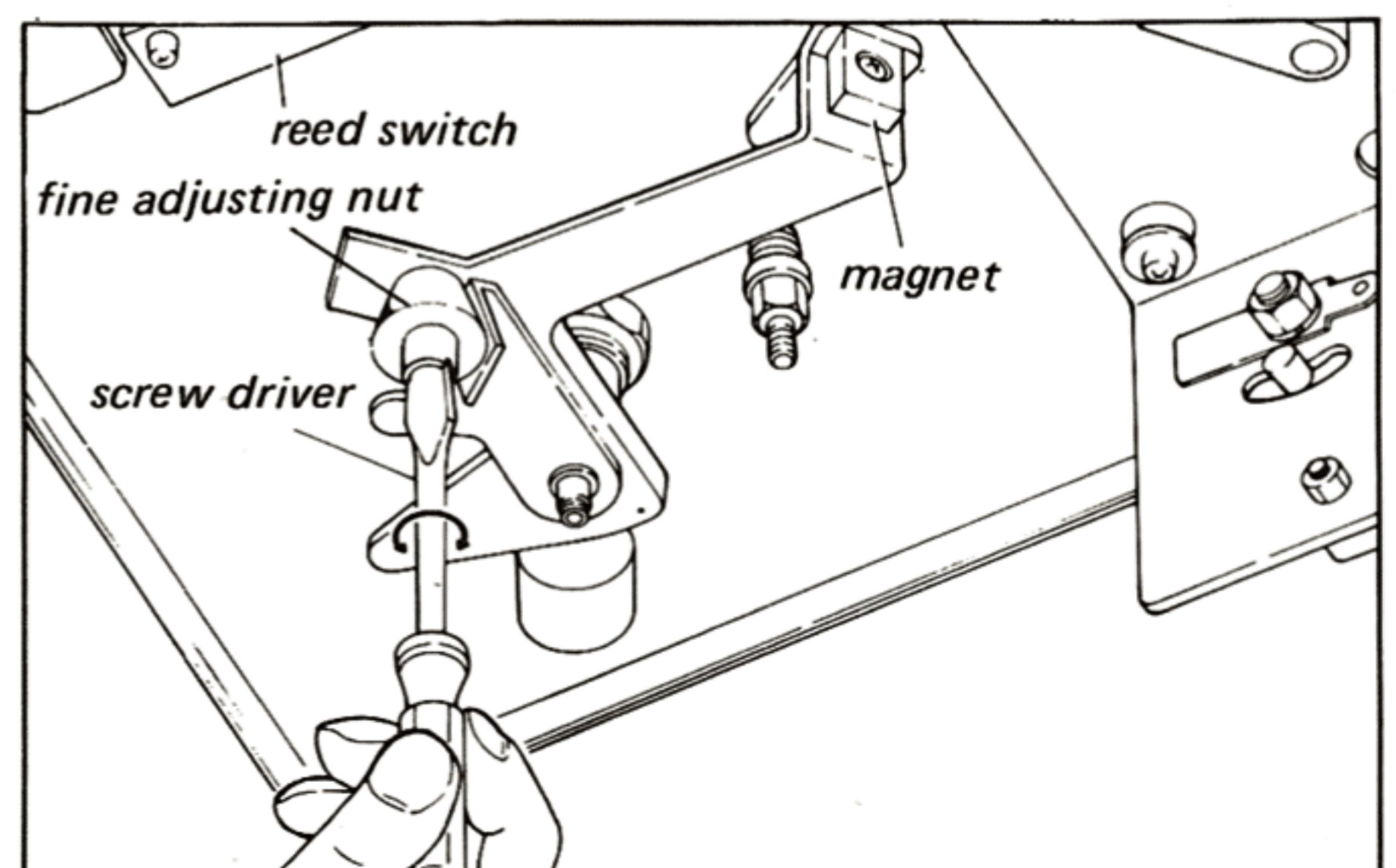
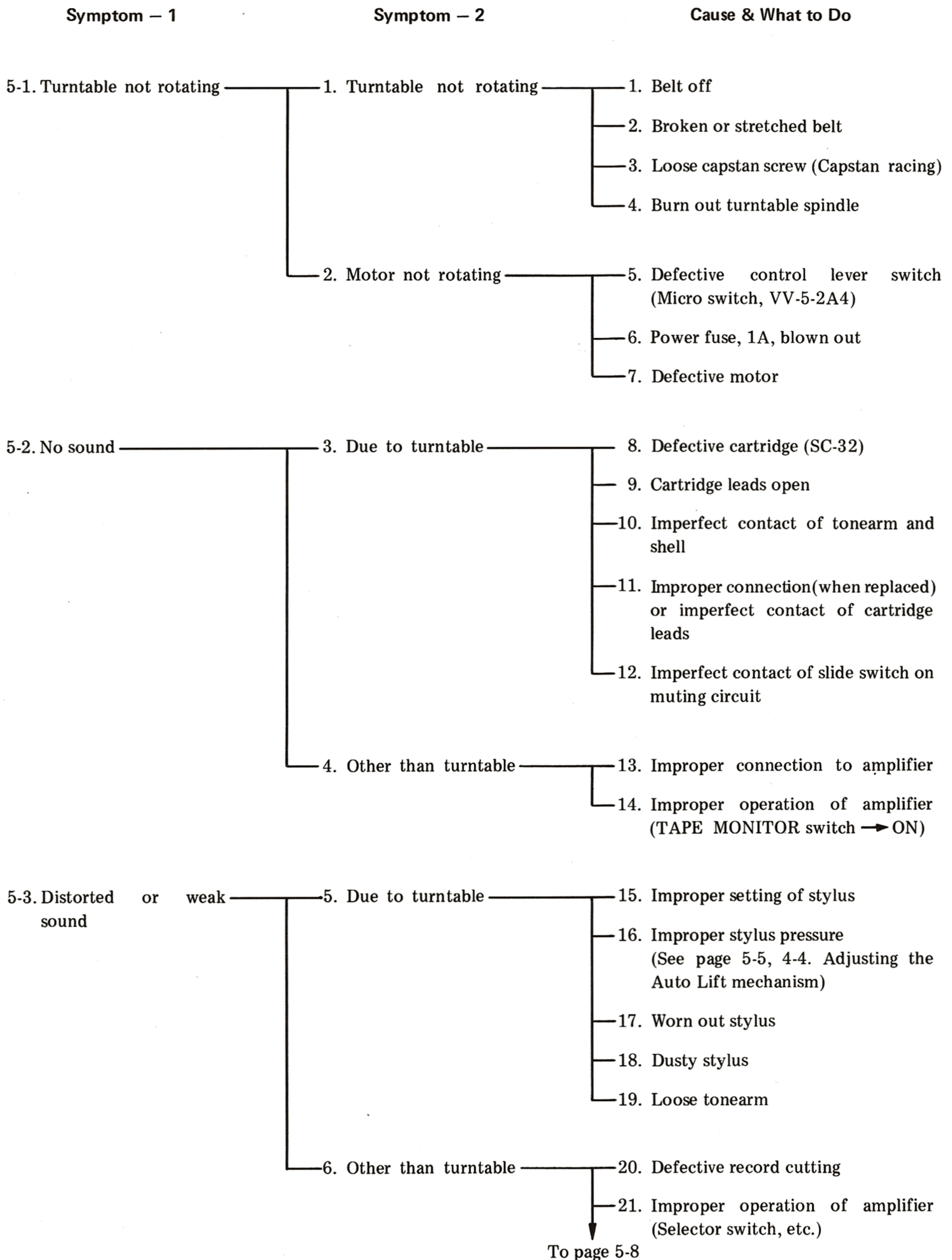


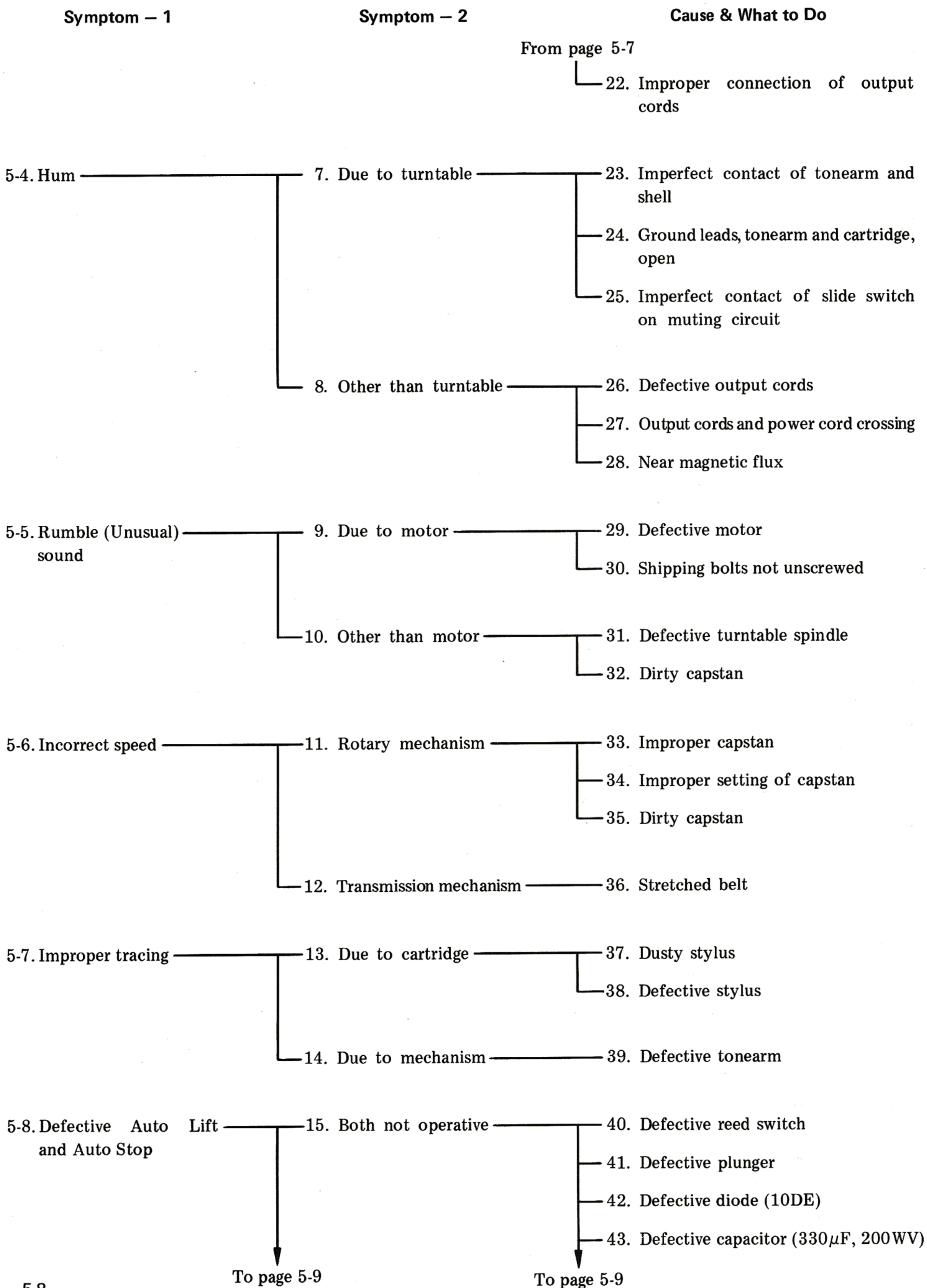
Fig. 4-3



## 5. TROUBLESHOOTING









**Symptom – 1****Symptom – 2****Cause & What to Do**

From page 5-8


















From page 5-8

- |                               |  |
|-------------------------------|--|
| — 16. Auto Lift not operative | — 44. Loose adjustment of Auto Lift mechanism (See page 5-5, 4-4. Adjusting the Auto Lift mechanism) |
| — 17. Auto Stop not operative | — 45. Defective relay  |
|                               | — 46. Defective arm lifter   |
|                               | — 47. Defective selector lever switch (Mini-switch)  |



# 6. EXPLODED VIEW & PARTS LIST

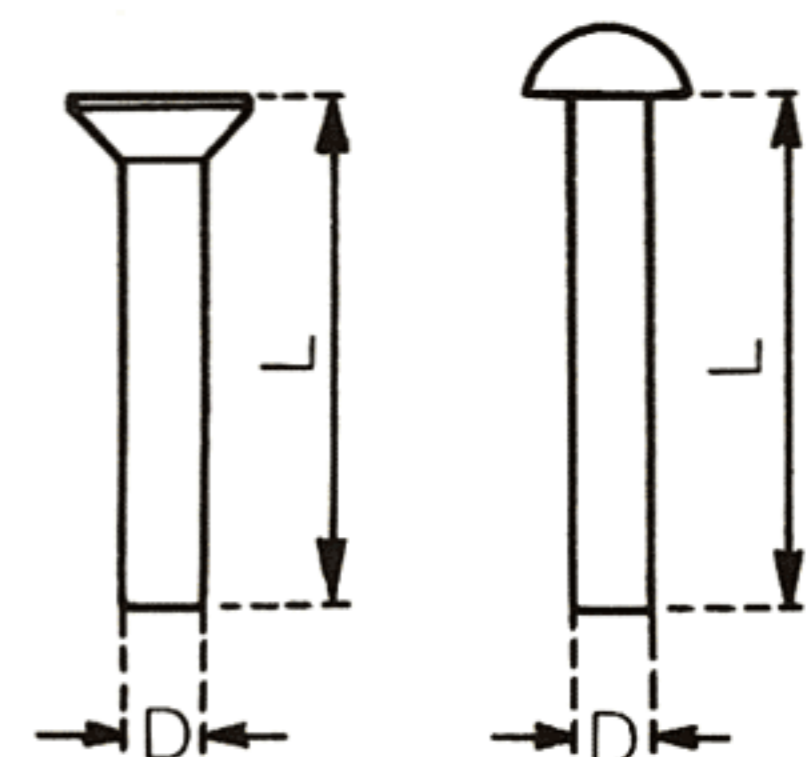
## Hardware Nomenclature

	Name	Abbreviation	Type
<b>SCREW</b>	Pan Head Screw	P	
	Binding Head Screw	B	
	Round Head Screw	R	
	Flat Countersunk Head Screw	F	
	Oval Countersunk Head Screw	O	
	Truss Head Screw	T	
	Flat Fillister Screw	FS	
	Oval Countersunk Wood Screw	OC	
	Flat Countersunk Wood Screw	FC	
	Pan Head Tapping Screw	PT	
<b>SETSCREW</b>	Hex. Socket Setscrew	S	
	Slot Type Setscrew	SS	
<b>WASHER</b>	Retaining Ring (E washer)	E	
	Plane Washer	P	
	Spring Washer	S	
	Corrugated Washer	C	
	Toothed Lock Washer	TL	

**EXAMPLE**

FS type Screw, M3 x 6 (BLK)

Color  
Length in mm (L)  
Diameter in mm (D)  
Type & Name



All screws conform to ISO standards, unless otherwise noted.



**6-1. Exploded view (1) and parts list (See Fig. 6-1)**

※ Use the stock number for parts order. If the stock number is unknown, use the model's name, fig. number, parts number and parts name correctly.

Parts No.	Stock No.	Description
1	5100063	B Type Screw, M4 x 10
2	5111060	Hex. Cap Nut, M4
3	5100063	B Type Screw, M4 x 10
4	5111060	Hex. Cap Nut, M4
5	6922020	Hinge A
6	5100063	B Type Screw, M4 x 10
7	5111060	Hex. Cap Nut, M4
8	5100063	B Type Screw, M4 x 10
9	5111060	Hex. Cap Nut, M4
10	6922010	Hinge C
	7022010	Stay Ass'y
11		Setscrew, stay
12		Washer, stay
13		Setscrew, stay
14		Arm, stay
15		Color, stay
16	5362010	Name Plate, dust cover
17	5362010	Name Plate, dust cover
18	5062010	Dust Cover
19	5392050	Ring, turntable
20	5502110	Rubber Mat, turntable
21	6112040	Turntable
22	6032040	Belt
23	5143026	FC Type Screw, M3.1 x 13
24	5143026	FC Type Screw, M3.1 x 13
25	5143026	FC Type Screw, M3.1 x 13
26	5143026	FC Type Screw, M3.1 x 13
27	5143026	FC Type Screw, M3.1 x 13
28	5143026	FC Type Screw, M3.1 x 13
29	5143026	FC Type Screw, M3.1 x 13

Parts No.	Stock No.	Description
30	5143026	FC Type Screw, M3.1 x 13
31	5143026	FC Type Screw, M3.1 x 13
32	5143026	FC Type Screw, M3.1 x 13
33	5512040	Insulator C
34	5512020	Insulator B
35	5512040	Insulator C
36	5512040	Insulator C
37	5732030	Bottom Cover
38	5101067	B Type Screw, M4 x 18
39		P Type Washer, 4 x 12 x 1.2
40	5101067	B Type Screw, M4 x 18
41		P Type Washer, 4 x 12 x 1.2
42	5101067	B Type Screw, M4 x 18
43		P Type Washer, 4 x 12 x 1.2
44	5101067	B Type Screw, M4 x 18
45		P Type Washer, 4 x 12 x 1.2
46		Output Cords
47	5143026	FC Type Screw, M3.1 x 13
48	5143026	FC Type Screw, M3.1 x 13
49	5143026	FC Type Screw, M3.1 x 13
50	6922020	Hinge B
51	5143026	FC Type Screw, M3.1 x 13
52	5143026	FC Type Screw, M3.1 x 13
53	5143026	FC Type Screw, M3.1 x 13
54	6922010	Hinge D
55	5502020	Cushion
56	5502020	Cushion
57	5332020	Badge
58	5732020	Cabinet



Fig. 6-1

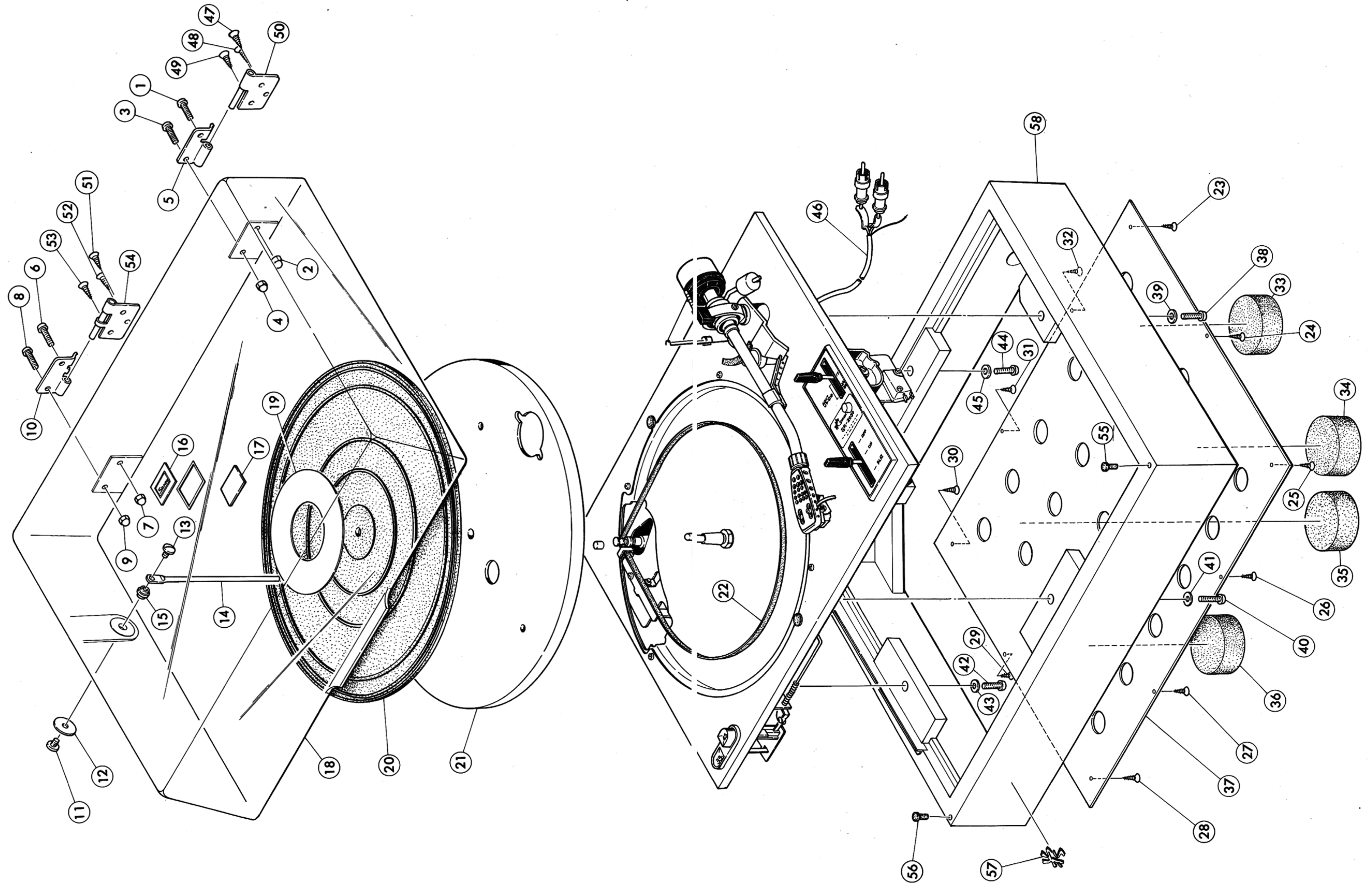
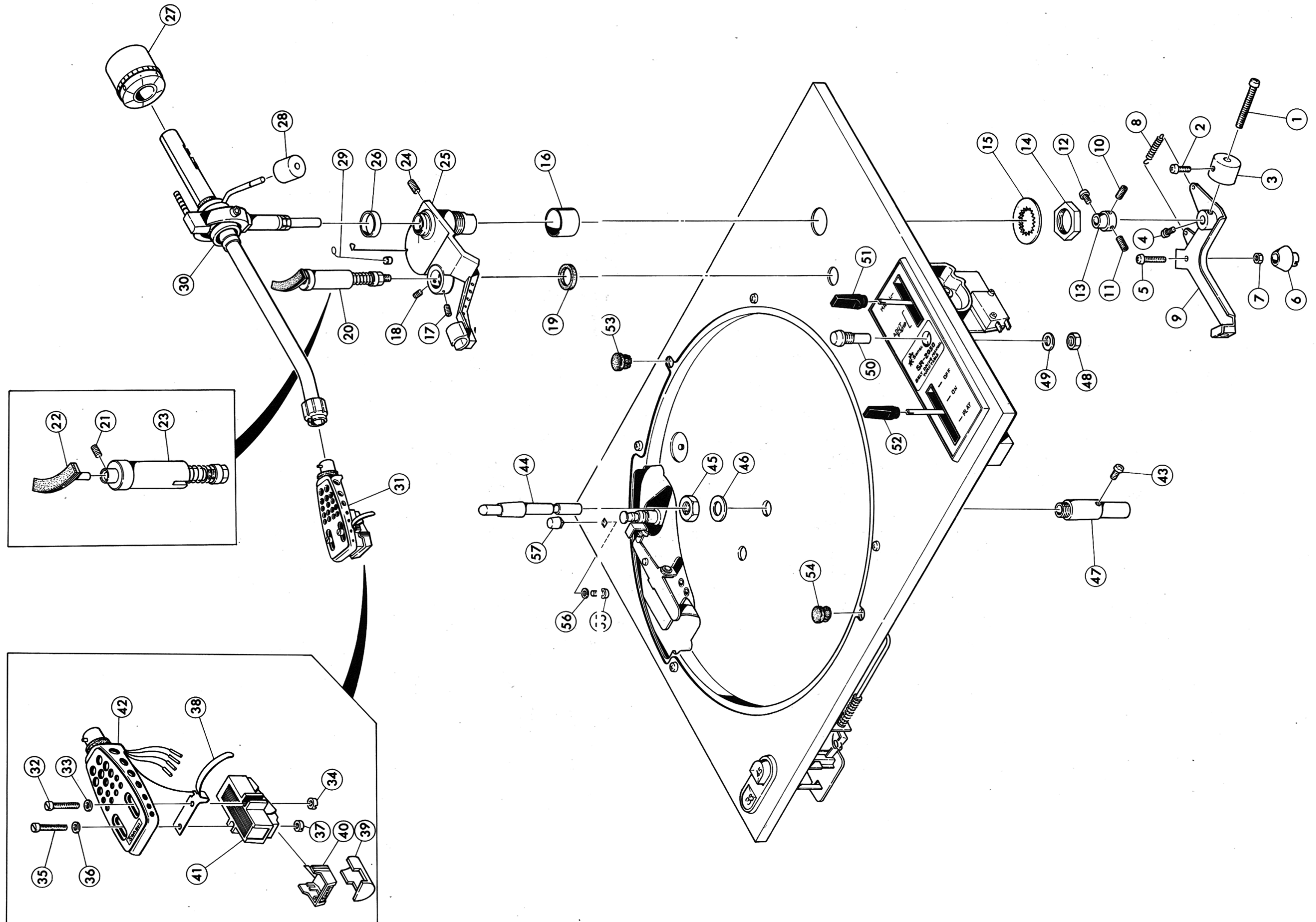




Fig. 6-2





## 6-2. Exploded view (2) and parts list (See Fig. 6-2)

※ Use the stock number for parts order. If the stock number is unknown, use the model's name, fig. number, parts number and parts name correctly.

Parts No.	Stock No.	Description
1		P Type Screw, M3 x 30
2	5103025	P Type Screw, M2.6 x 8
3	6912090	Weight
4	5103043	P Type Screw, M3 x 6
5	5103048	P Type Screw, M3 x 15
6		Fine Adjusting Nut
7	5110341	Hex. Nut, 3 x 5.5 x 2.4
8		Spring, PU plate
9	7052120	PU Plate Ass'y
10		S Type Screw, M3 x 5
11		S Type Screw, M3 x 5
12		P Type Screw, M3 x 3
13		Bearing, PU plate
14		Hex. Nut, M16
15		TL Type Washer, M16
16		Ring A, tonearm
17		SS Type Screw, M2.6 x 4
18		SS Type Screw, M2.6 x 4
19		Rubber Ring, arm lifter
20		Arm Lifter Ass'y
21		SS Type Screw, M2.6 x 3
22	5292030	Guide, arm
23	7082040	Lifter, arm
	7092050	Tonearm Ass'y
24		S Type Screw, M4 x 5
25	6632020	Arm Base Ass'y
26		Ring B, tonearm
27	6912070	Weight, main
28	6912050	Weight, lateral
29	6912060	Weight, bias

Parts No.	Stock No.	Description
30		Tonearm
31		Shell (with Cartridge)
32		FS Type Screw, M2.6 x 15 (BLK)
33		Washer, rigid polyvinyle chloride
34		Nut, M2.6
35		FS Type Screw, M2.6 x 15 (BLK)
36		Washer, rigid polyvinyl chloride
37		Nut, M2.6
38		Hook, shell
39		Cover, stylus
40	4940030	Stylus (SN - 31)
41	4310030	Cartridge (SC - 32)
42	6642030	Shell
	7032040	Turntable Spindle Ass'y
43		Setscrew, turntable spindle
44		Spindle, turntable
45		Hex. Nut, M10
46		P Type Washer, 10 x 16 x 1.0
47		Bearing, turntable
48		Hex. Nut, M7.5
49		P Type Washer, 7.5 x 10 x 0.5
50		Neon Lamp
51	5312030	Cap, selector lever
52	5312030	Cap, control lever
53	5062050	Rubber Plug
54	5062050	Rubber Plug
55		PT Type Screw, M2.6 x 8
56		P Type Washer, 2.6 x 10 x 0.5
57		Stay, adaptor



**6-3. Exploded view (3) and parts list (See Fig. 6-3)**

※ Use the stock number for parts order. If the stock number is unknown, use the model's name, fig. number, parts number and parts name correctly.

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
1	5103070	P Type Screw, M4 x 30	35	5103542	PT Type Screw, M3 x 8
2		P Type Washer, 4 x 15 x 0.8	36	5120141	P Type Washer, 3 x 8 x 0.5
3	5232060	Spacer, motor	37	5103542	PT Type Screw, M3 x 8
4	5502120	Rubber Cushion, motor	38	5120141	P Type Washer, 3 x 8 x 0.5
5	5103070	P Type Screw, M4 x 30	39	5103542	PT Type Screw, M3 x 8
6		P Type Washer, 4 x 15 x 0.8	40	5120141	P Type Washer, 3 x 8 x 0.5
7	5232060	Spacer, motor	41	5062040	Case, PC board
8	5502120	Rubber Cushion, motor	42	5103546	PT Type Screw, M3 x 20
9	5103070	P Type Screw, M4 x 30	43	5103546	PT Type Screw, M3 x 20
10		P Type Washer, 4 x 15 x 0.8	44	5103546	PT Type Screw, M3 x 20
11	5232060	Spacer, motor	45	5103546	PT Type Screw, M3 x 20
12	5502120	Rubber Cushion, motor	46		AC Cord
13	5110361	Hex. Nut, M4 x 7 x 3.2	47	7732030	Auto Lift Printed Circuit Board
14	5121260	S Type Washer, 4 x 1.4 x 1.0	48	5252040	Table, PC board
15	5110361	Hex. Nut, M4 x 7 x 3.2	49	5103542	PT Type Screw, M3 x 8
16	5121260	S Type Washer, 4 x 1.4 x 1.0	50	5103542	PT Type Screw, M3 x 8
17	5110361	Hex. Nut, M4 x 7 x 3.2	51		Electrolytic Capacitor, 330 $\mu$ F 200 V
18	5121260	S Type Washer, 4 x 1.4 x 1.0	52	5103542	PT Type Screw, M3 x 8
19	5110361	Hex. Nut, M4 x 7 x 3.2	53	5292050	Pole, protector
20	5121260	S Type Washer, 4 x 1.4 x 1.0	54	5103542	PT Type Screw, M3 x 8
21	5242100	Sheet, motor	55	5292050	Pole, protector
22		SS Type Screw, M3 x 4	56	5103063	P Type Screw, M 4 x 10
23	6142070	Capstan (50 Hz)	57	5110361	Hex. Nut, M4 x 7 x 3.2
	6142080	Capstan (60 Hz)	58	5121260	S Type Washer, 4 x 1.4 x 1.0
24	4320040	Motor	59	5103063	P Type Screw, M4 x 10
25	5103542	PT Type Screw, M3 x 8	60	5110361	Hex. Nut, M4 x 7 x 3.2
26	5103542	PT Type Screw, M3 x 8	61	5121260	S Type Washer, 4 x 1.4 x 1.0
27	5103542	PT Type Screw, M3 x 8	62		Power Transformer
28		Sub Panel	63	5103045	P Type Screw, M3 x 10
29	5151002	E Type Ring, 2 $\phi$	64	5110241	Hex. Nut, M3 x 5.5 x 2.4
30	5151002	E Type Ring, 2 $\phi$	65	5121340	S Type Washer, 3 x 1.1 x 0.7
31		Shaft, step lever	66	5103045	P Type Screw, M3 x 10
32	7052100	Step Lever Ass'y	67	5110241	Hex. Nut, M3 x 5.5 x 2.4
33	5103542	PT Type Screw, M3 x 8	68	5121340	S Type Washer, 3 x 1.1 x 0.7
34	5120141	P Type Washer, 3 x 8 x 0.5	69		Voltage Selector



Fig. 6-3

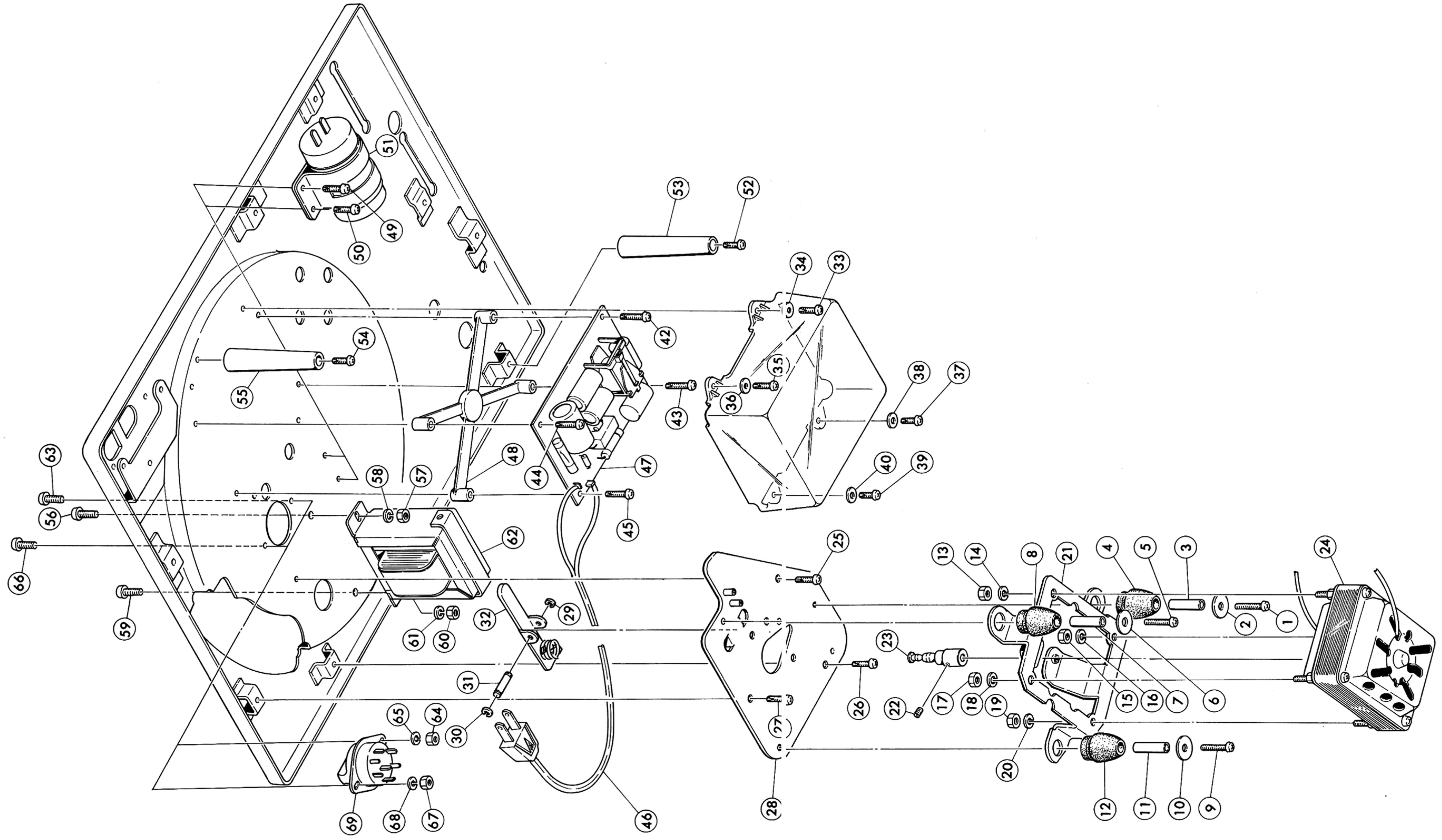
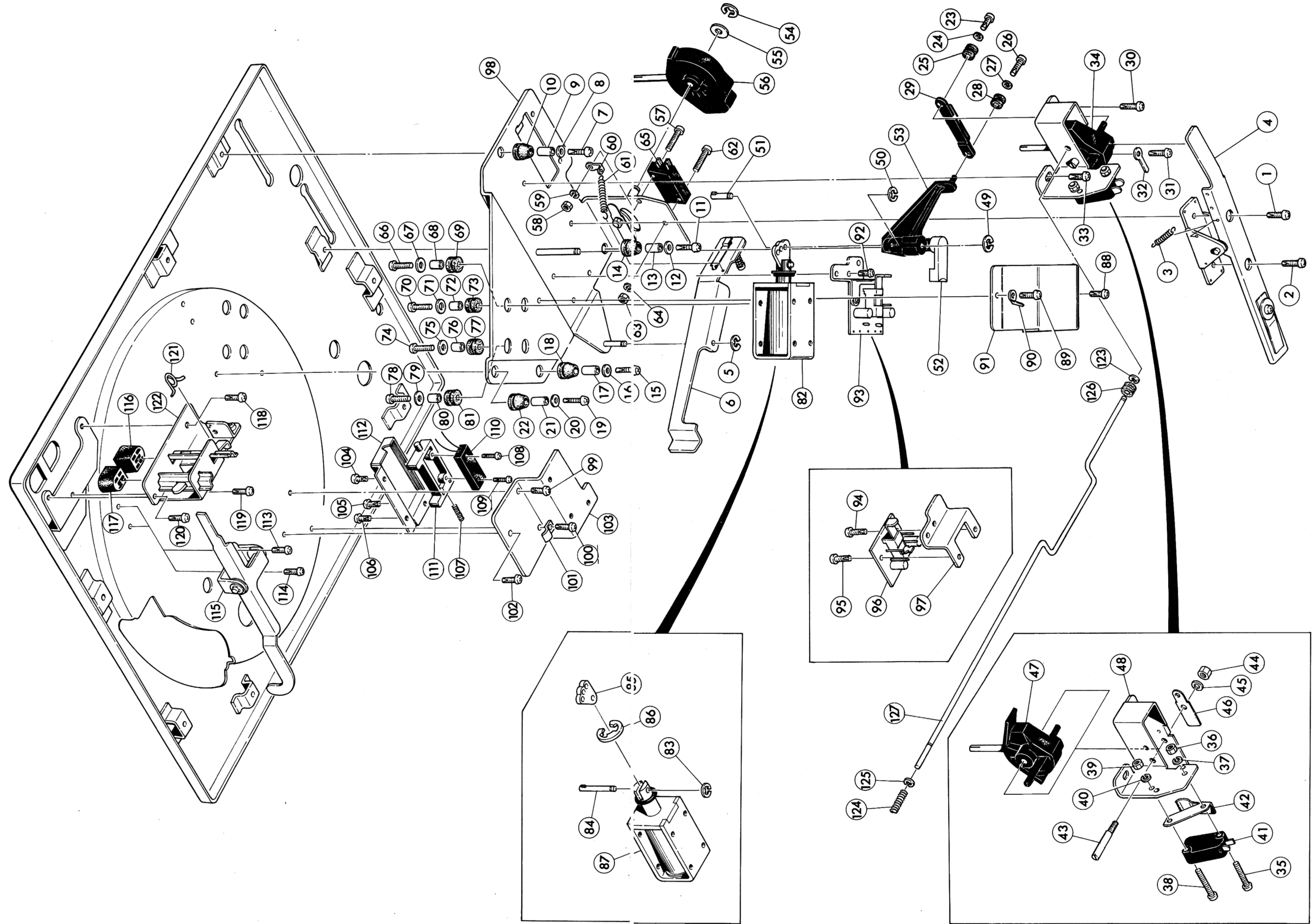




Fig. 6-4





## 6-4. Exploded view (4) and parts list (See Fig. 6-4)

※ Use the stock number for parts order. If the stock number is unknown, use the model's name, fig. number, parts number and parts name correctly.

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
1	5103542	PT Type Screw, M3 x 8	65		Mini Switch
2	5103542	PT Type Screw, M3 x 8	66	5103045	P Type Screw, M3 x 10
3		Spring, lift lever	67		P Type Washer, 3 x 10 x 0.8
4		Lift Lever Ass'y	68		Spacer, plunger
5	5151004	E Type Ring, 3 $\phi$	69	5502130	Rubber Cushion, plunger
6	7052130	RS Lever Ass'y	70	5103045	P Type Screw, M3 x 10
7	5103544	PT Type Screw, M3 x 12	71		P Type Washer, 3 x 10 x 0.8
8		P Type Washer, 3 x 10 x 0.8	72		Spacer, plunger
9	5232120	Spacer, lift panel	73	5502130	Rubber Cushion, plunger
10	5502190	Rubber Cushion, lift panel	74	5103045	P Type Screw, M3 x 10
11	5103544	PT Type Screw, M3 x 12	75		P Type Washer, 3 x 10 x 0.8
12		P Type Washer, 3 x 10 x 0.8	76		Spacer, plunger
13	5232120	Spacer, lift panel	77	5502130	Rubber Cushion, plunger
14	5502190	Rubber Cushion, lift panel	78	5103045	P Type Screw, M3 x 10
15	5103544	PT Type Screw, M3 x 12	79		P Type Washer, 3 x 10 x 0.8
16		P Type Washer, 3 x 10 x 0.8	80		Spacer, plunger
17	5232120	Spacer, lift panel	81	5502130	Rubber Cushion, plunger
18	5502190	Rubber Cushion, lift panel	82		Plunger Ass'y
19	5103544	PT Type Screw, M3 x 12	83	5151003	E Type Washer, 2.3 $\phi$
20		P Type Washer, 3 x 10 x 0.8	84		Pin, plunger
21	5232120	Spacer, lift panel	85	6042020	Joint, plunger
22	5502190	Rubber Cushion, lift panel	86		E Type Washer, 8 $\phi$
23		PT Type Screw, M2 x 5	87		Plunger
24		P Type Washer, 2 x 6 x 0.4	88	5103542	PT Type Screw, M3 x 8
25		Rubber Bushing, push lever	89	5103542	PT Type Screw, M3 x 8
26		PT Type Screw, M2 x 5	90		Lug Terminal
27		P Type Washer, 2 x 6 x 0.4	91		Shield Cover
28		Rubber Bushing, push lever	92	5103541	PT Type Screw, M3 x 6
29	6502080	Push Lever	93		Muting Circuit Board Ass'y
30	5103541	PT Type Screw, M3 x 6	94	5103541	PT Type Screw, M3 x 6
31	5103541	PT Type Screw, M3 x 6	95	5103541	PT Type Screw, M3 x 6
32		Lug Terminal	96	7732010	Muting Printed Circuit Board
33	5103541	PT Type Screw, M3 x 6	97		Holder, circuit board
34	7052110	Control Lever Ass'y	98		Sub Panel
35	5103029	P Type Screw, M2.6 x 15	99	5103542	PT Type Screw, M3 x 8
36	5110321	Hex. Nut, M2.6 x 5 x 2	100	5103542	PT Type Screw, M3 x 8
37	5121220	S Type Washer, 2.6 x 10 x 0.6	101		Cord Clamper
38	5103029	P Type Screw, M2.6 x 15	102	5103542	PT Type Screw, M3 x 8
39	5110321	Hex. Nut, 2.6 x 5 x 2	103		Stay, case
40	5121220	S Type Washer, 2.6 x 10 x 0.6	104	5103541	PT Type Screw, M3 x 6
41		Micro Switch, (VV-5-2A4)	105	5103541	PT Type Screw, M3 x 6
42		Bracket, micro switch	106	5103541	PT Type Screw, M3 x 6
43		Shaft, lift cam	107		Spring, reed switch
44	5110361	Hex. Nut, M4 x 7 x 3.2	108	5103544	PT Type Screw, M3 x 12
45	5121260	S Type Washer, 4 x 1.4 x 1.0	109	5103544	PT Type Screw, M3 x 12
46		Leaf Spring	110		Reed Switch
47	6012010	Lift Cam	111		Base, reed switch
48		Case, lift cam	112		Slide Case
49	5151004	E Type Ring, 3 $\phi$	113	5103542	PT Type Screw, M3 x 8
50	5151003	E Type Ring, 2.3 $\phi$	114	5103542	PT Type Screw, M3 x 8
51		Pin, link lever	115		Selector Lever Ass'y
52	6042010	Joint	116	5322010	Pushbutton (45)
53	6502090	Link Lever	117	5322020	Pushbutton (33)
54	5151004	E Type Ring, 3 $\phi$	118	5103542	PT Type Screw, M3 x 8
55		P Type Washer, M4	119	5103542	PT Type Screw, M3 x 8
56	6012020	RS Cam	120	5103542	PT Type Screw, M3 x 8
57	5103029	P Type Screw, M2.6 x 15	121		Spring, speed selector
58	5110321	Hex. Nut, M2.6 x 5 x 2	122	7062050	Speed Selector Ass'y
59	5121220	S Type Washer, 2.6 x 1.0 x 0.6	123	5151002	E Type Washer, 2 $\phi$
60		Terminal	124		Spring, stopper shaft
61		Spring, RS cam	125	5151002	E Type Washer, 2 $\phi$
62	5103029	P Type Screw, M2.6 x 15	126		Rubber Bushing, stopper shaft
63	5110321	Hex. Nut, M2.6 x 5 x 2	127	6512030	Stopper Shaft
64	5121220	S Type Washer, 2.6 x 1.0 x 0.6			



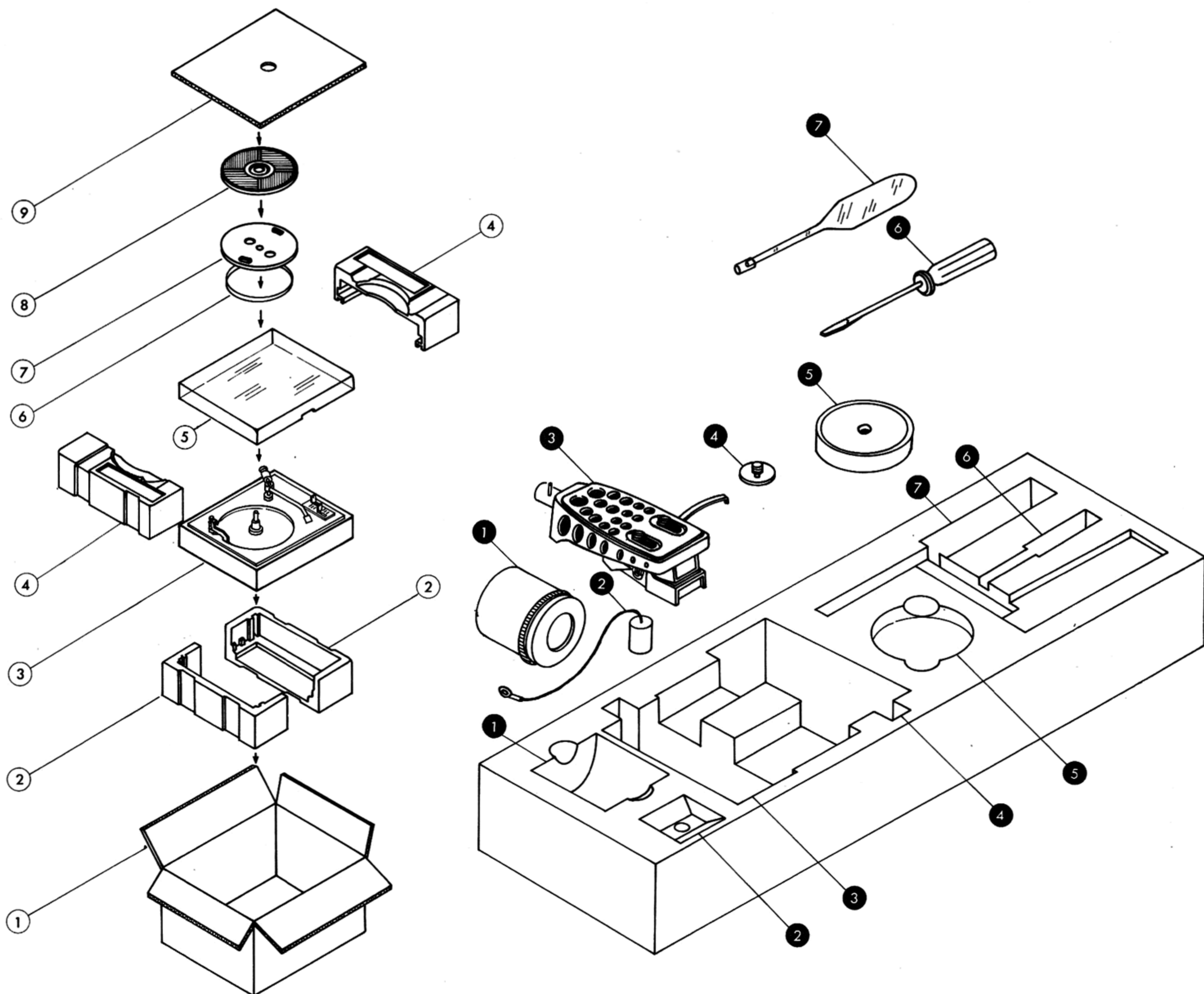
### 6-5. Packing and accessories list

#### Packing list

Parts No.	Stock No.	Description
1		Carton Case
2		Foamed Polystyrene Package (Lower)
3		Record Player
4		Foamed Polystyrene Package (Upper)
5	5062010	Dust Cover
6	6032040	Belt
7	6112040	Turntable
8	5502110	Turntable Rubber Mat
9		Inner Packing

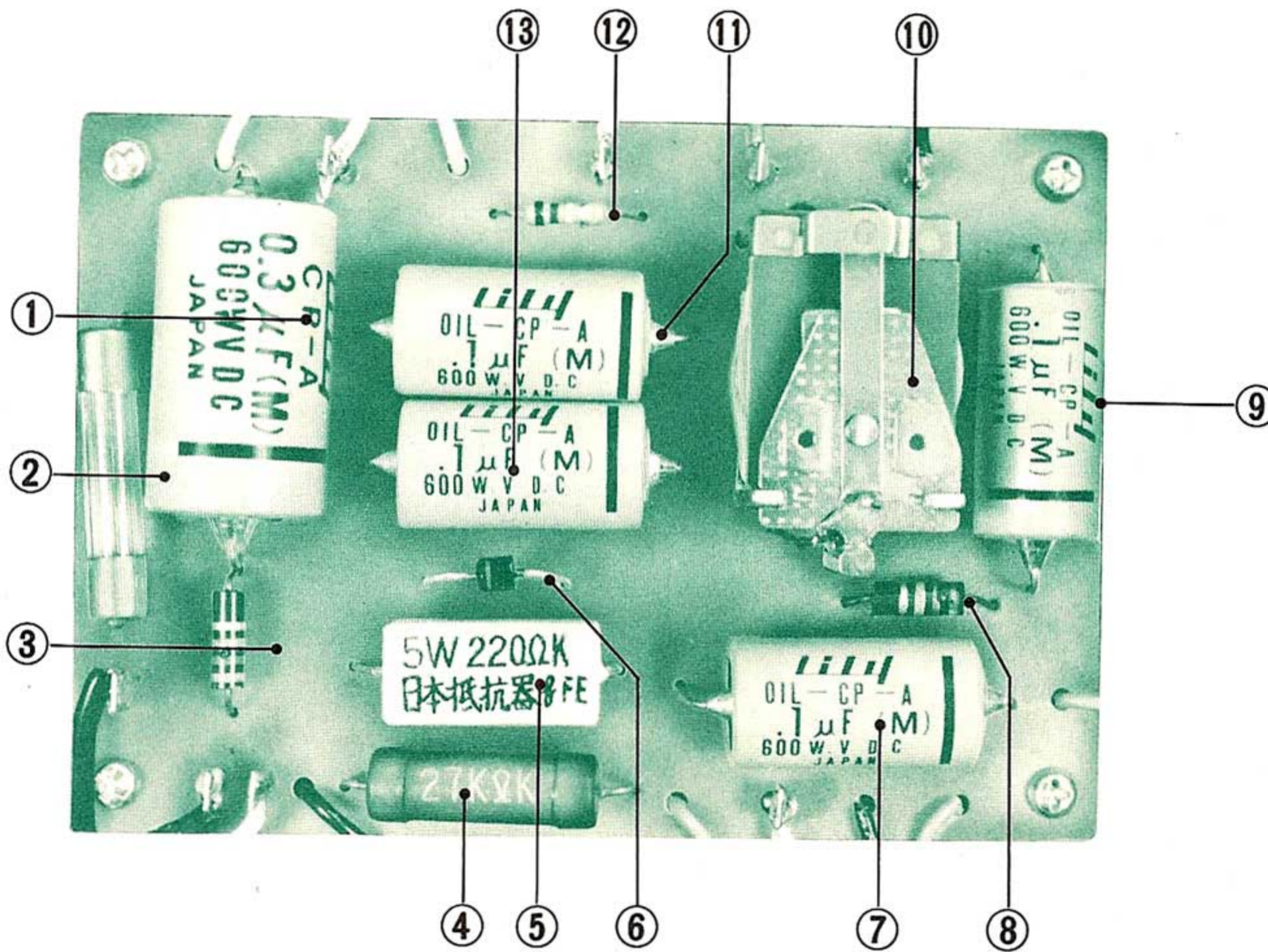
#### Accessories list

Parts No.	Stock No.	Description
1	6912070	Main Weight
2	6912060	Bias Weight
3		Shell (with cartridge)
4		Sub Weight
5		45 rpm Adaptor
6		Screwdriver
7		Oil Feeder

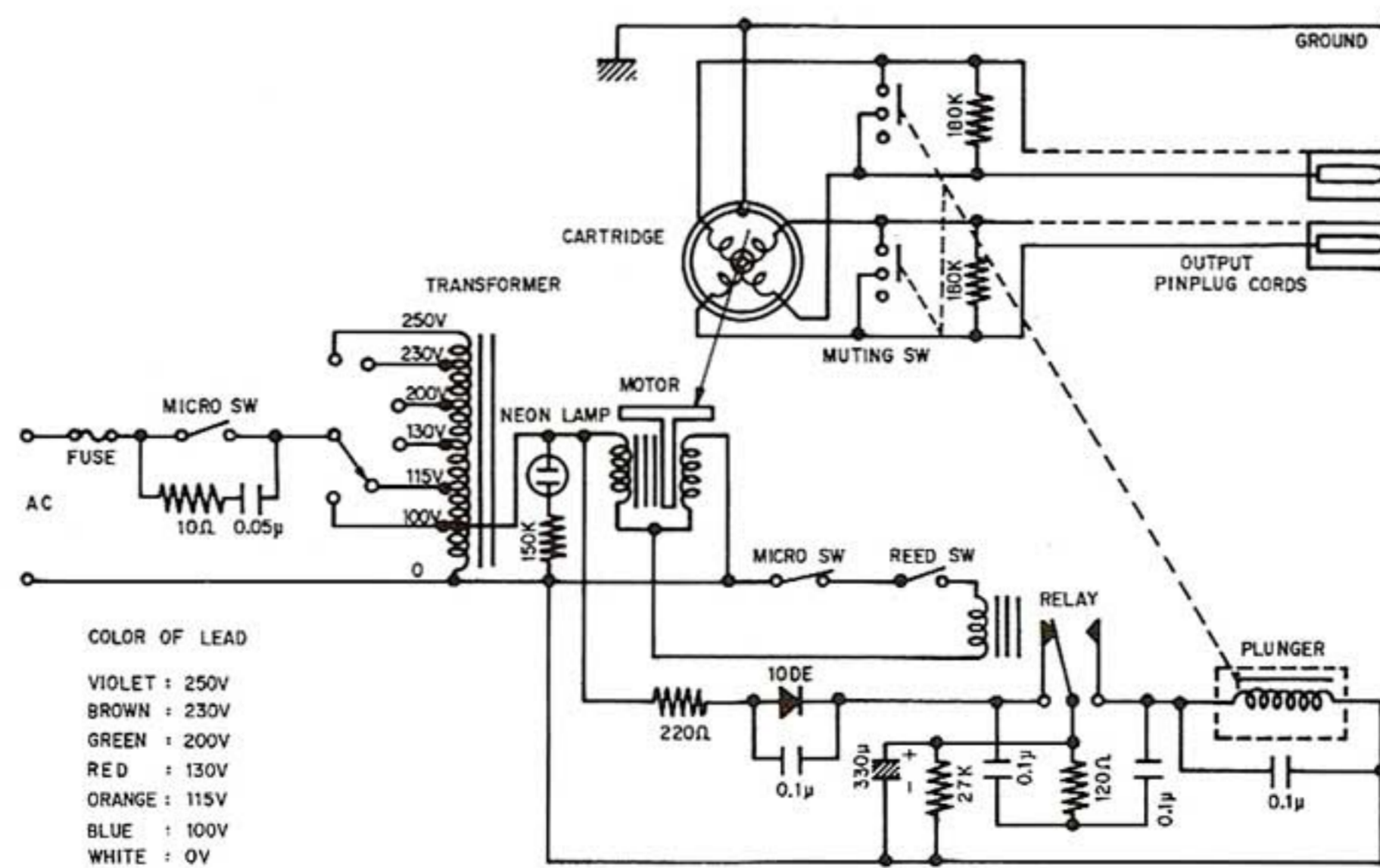




6-6. Auto Lift circuit board



Parts No.	Stock No.	Description
1	0591507	0.05 $\mu$ F 600 V Oil Capacitor
2		1A 125 V Power Fuse (With Lead Line)
3	0111100	10 $\Omega$ 1/2 W Solid Resistor
4	0173273	27 k $\Omega$ 3 W Wire Wound Resistor (Metallized)
5	0155221	220 $\Omega$ 5 W Cement Resistor
6		10 DE Diode
7	0591108	0.1 $\mu$ F 600 V Oil Capacitor
8	0111121	120 $\Omega$ 1/2 W Solid Resistor
9	0591108	0.1 $\mu$ F 600 V Oil Capacitor
10		Relay
11	0591108	0.1 $\mu$ F 600 V Oil Capacitor
12	0101154	150 k $\Omega$ 1/4 W Carbon Resistor
13	0591108	0.1 $\mu$ F 600 V Oil Capacitor





## 7. OPERATION OF AUTO LIFT AND STOP MECHANISM

- 1) The tonearm moves from "A" to "B" position while playing as Fig. 7-1.
- 2) At this time, the capacitor (330  $\mu$ F, 200 WV) is charged by the current through the diode (10DE).
- 3) As soon as the stylus reaches "B" position (the finishing groove), the magnetic reed switch will be ON.
- 4) When the magnetic reed switch is ON, the relay will be actuated.
- 5) The discharging current from the capacitor operates the plunger.
- 6) When the plunger is actuated, the lift lever elevates the arm lifter and tonearm so that the stylus is raised from the record.
- 7) The lift cam is linked with the plunger so that the control lever returns to OFF position from PLAY.
- 8) At the same time, the muting circuit linked with the plunger will keep the terminals of the cartridge shorted.

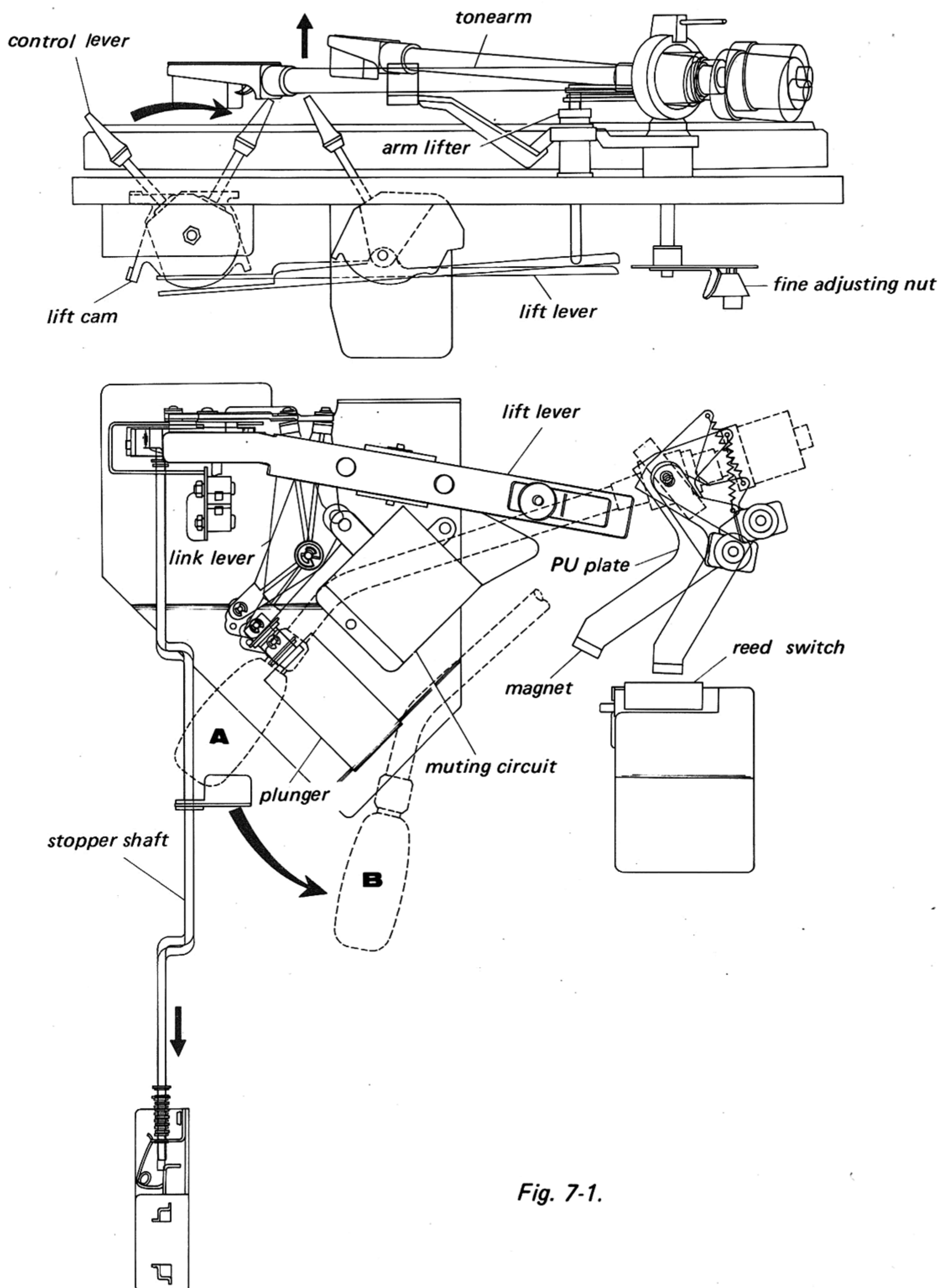
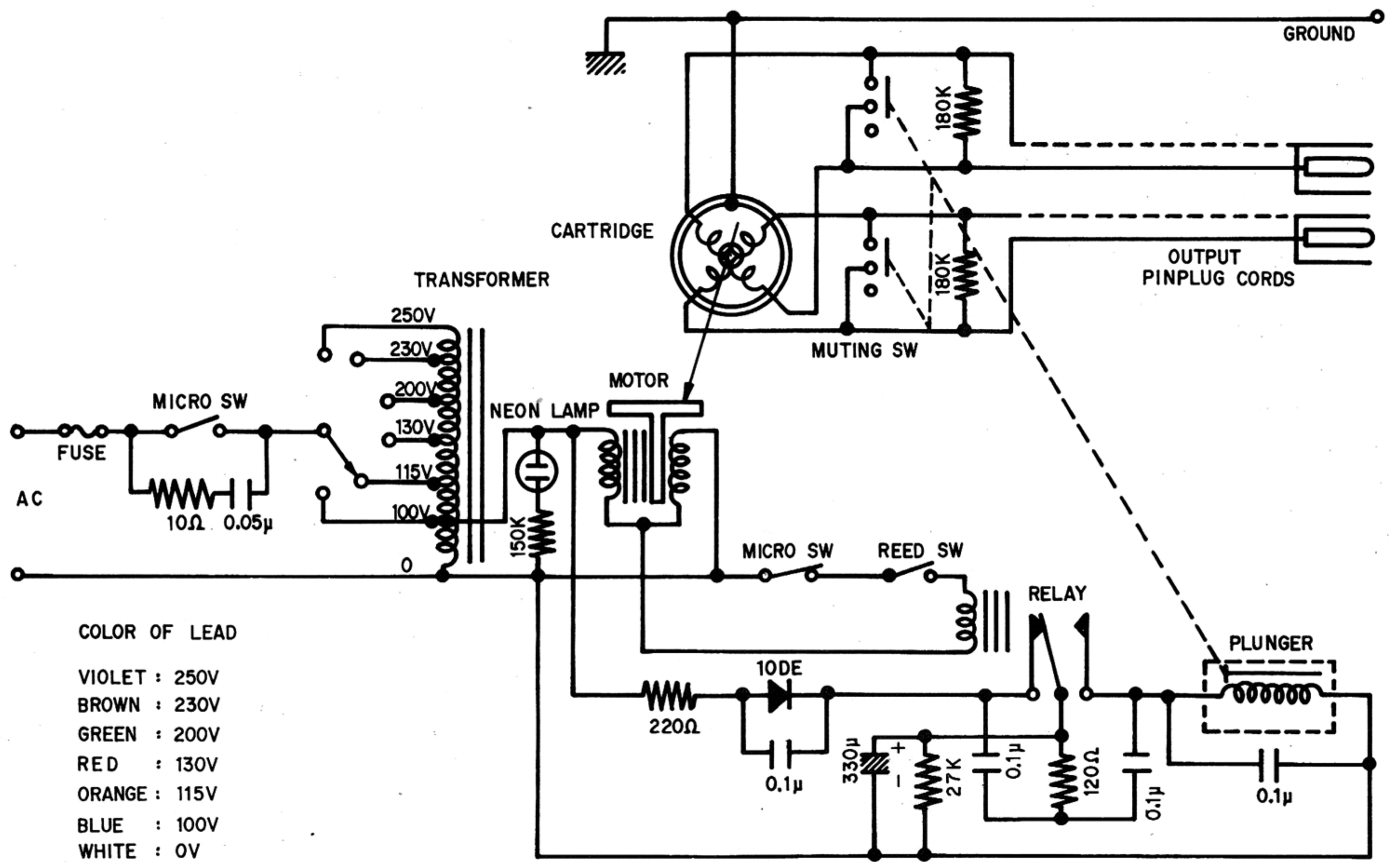


Fig. 7-1.

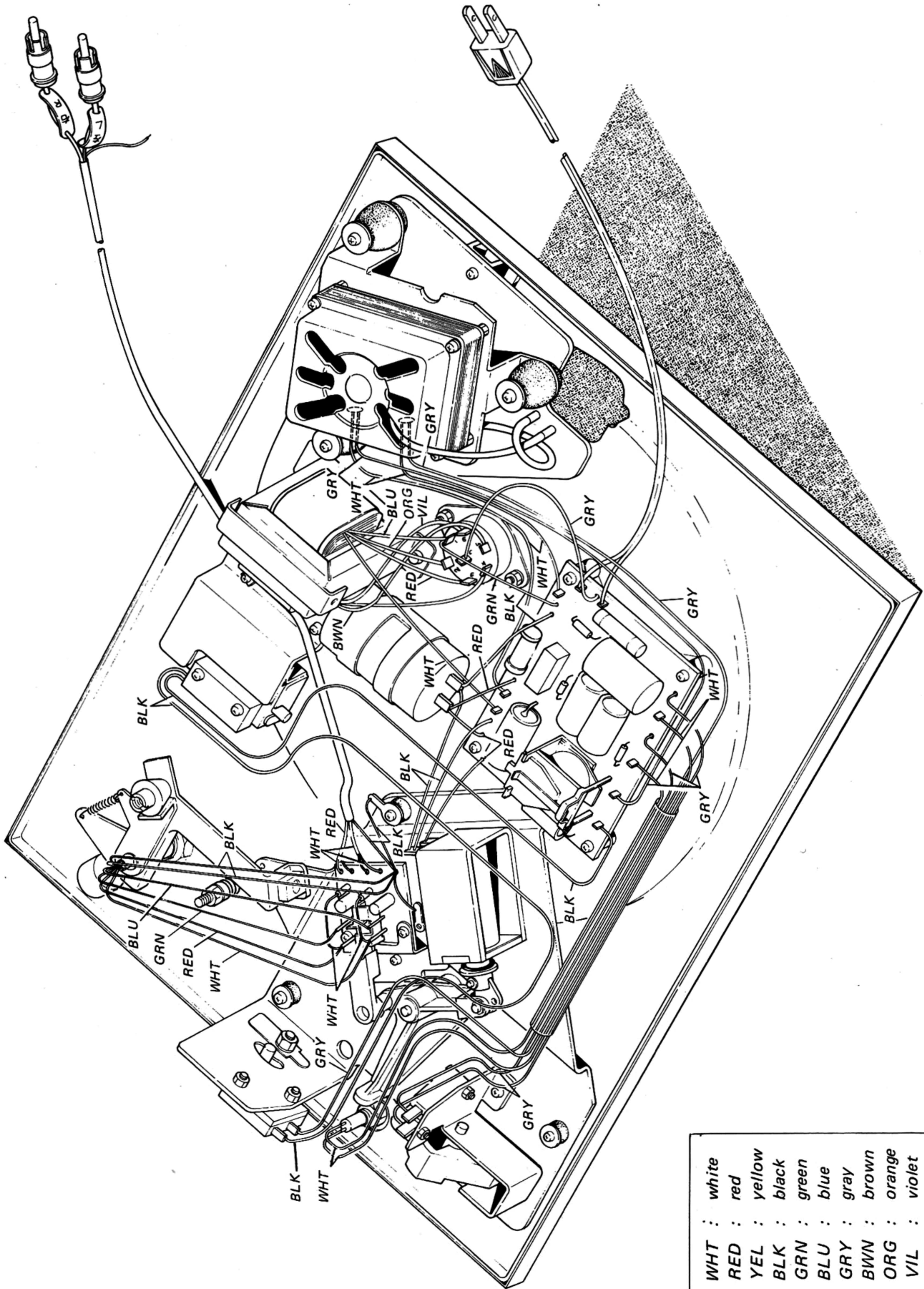


◆ Schematic diagram ◆





# 8. WIRING DIAGRAM



WHT	:	white
RED	:	red
YEL	:	yellow
BLK	:	black
GRN	:	green
BLU	:	blue
GRY	:	gray
BWN	:	brown
ORG	:	orange
VIL	:	violet