

KENWOOD
HI/FI STEREO COMPONENTS

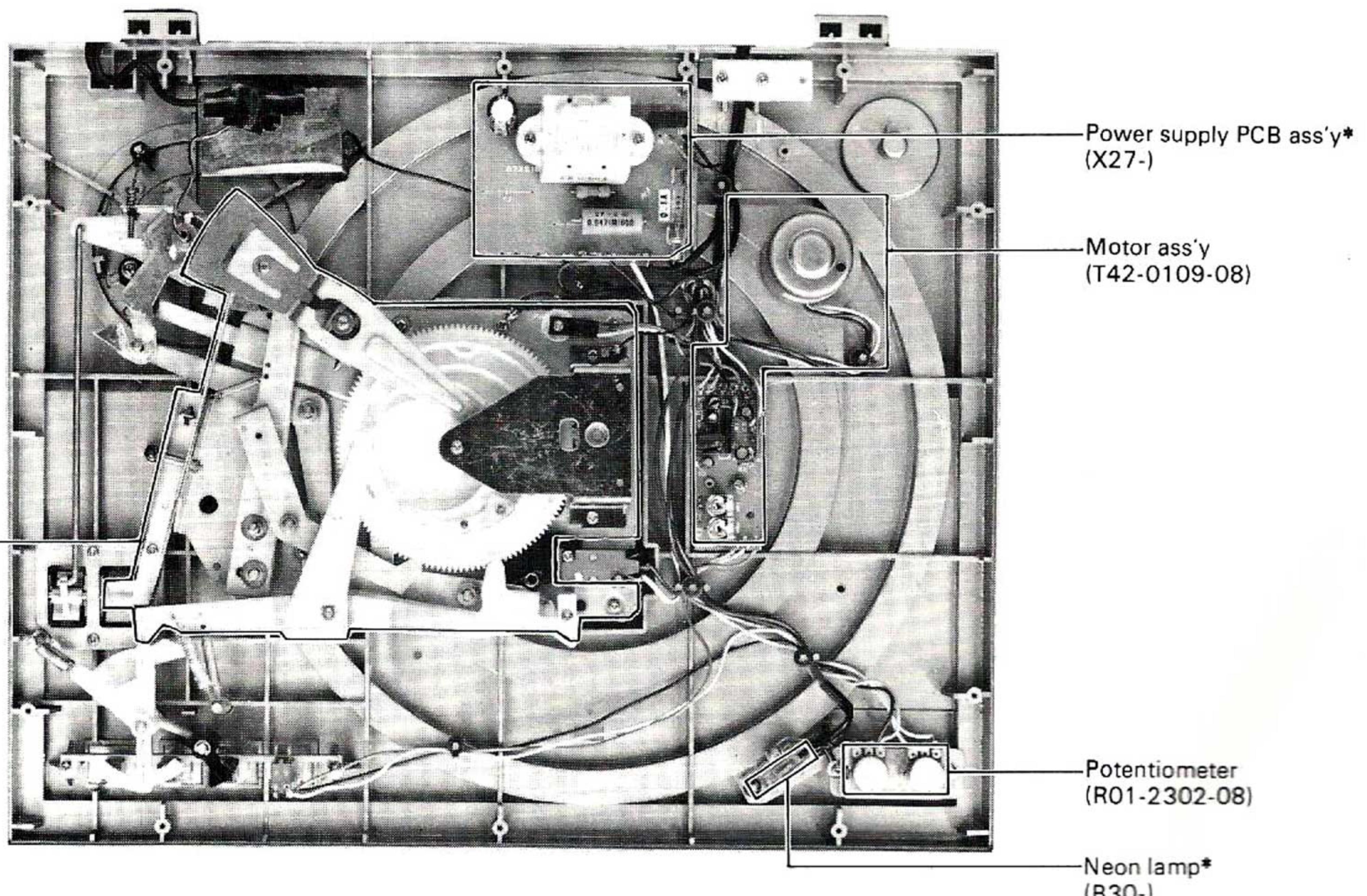
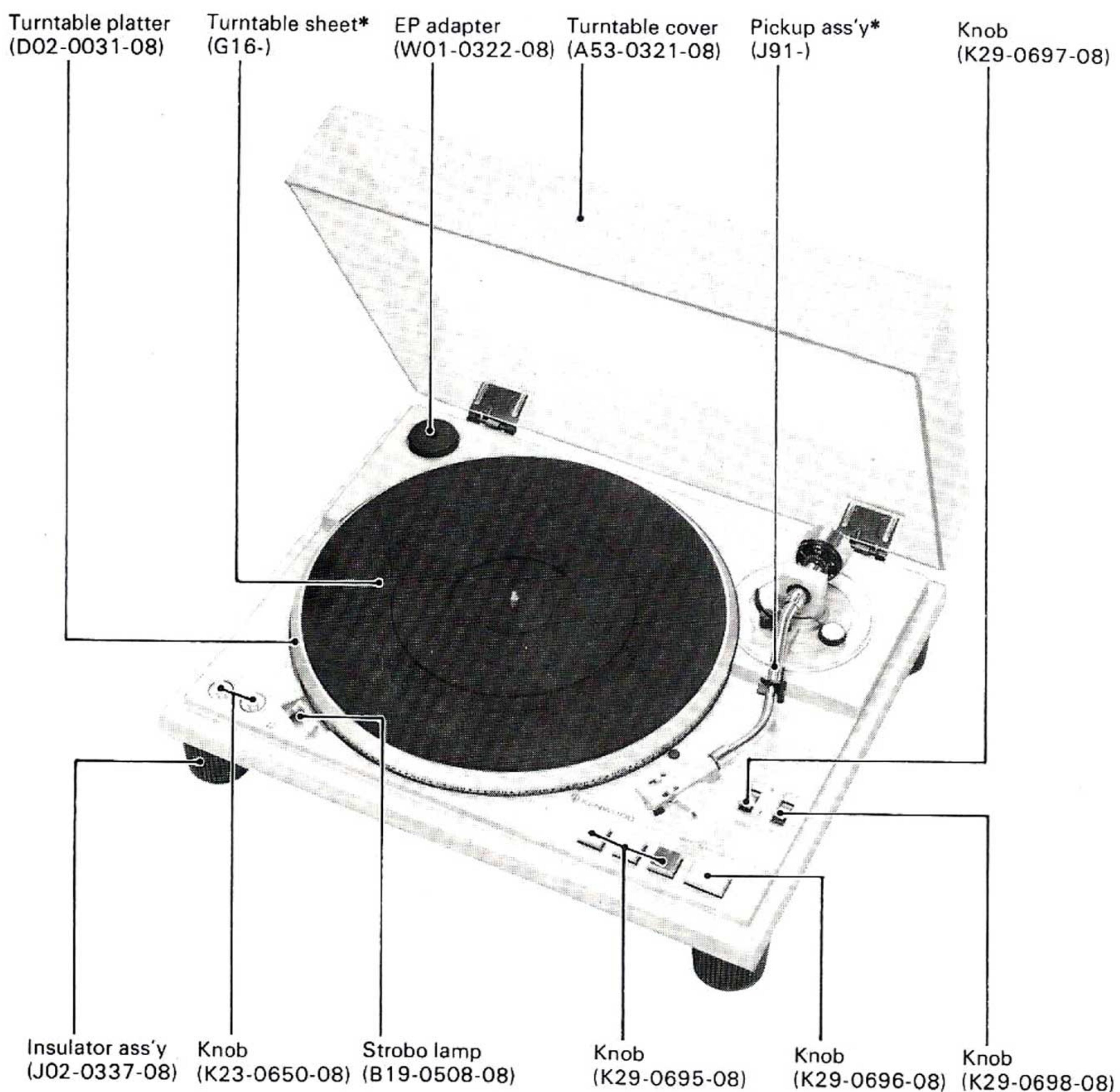
SERVICE MANUAL

KD-2100



FULL-AUTOMATIC TURNTABLE

EXTERNAL AND INTERNAL VIEWS



* Refer to Parts List.

OPERATION OF MECHANISM

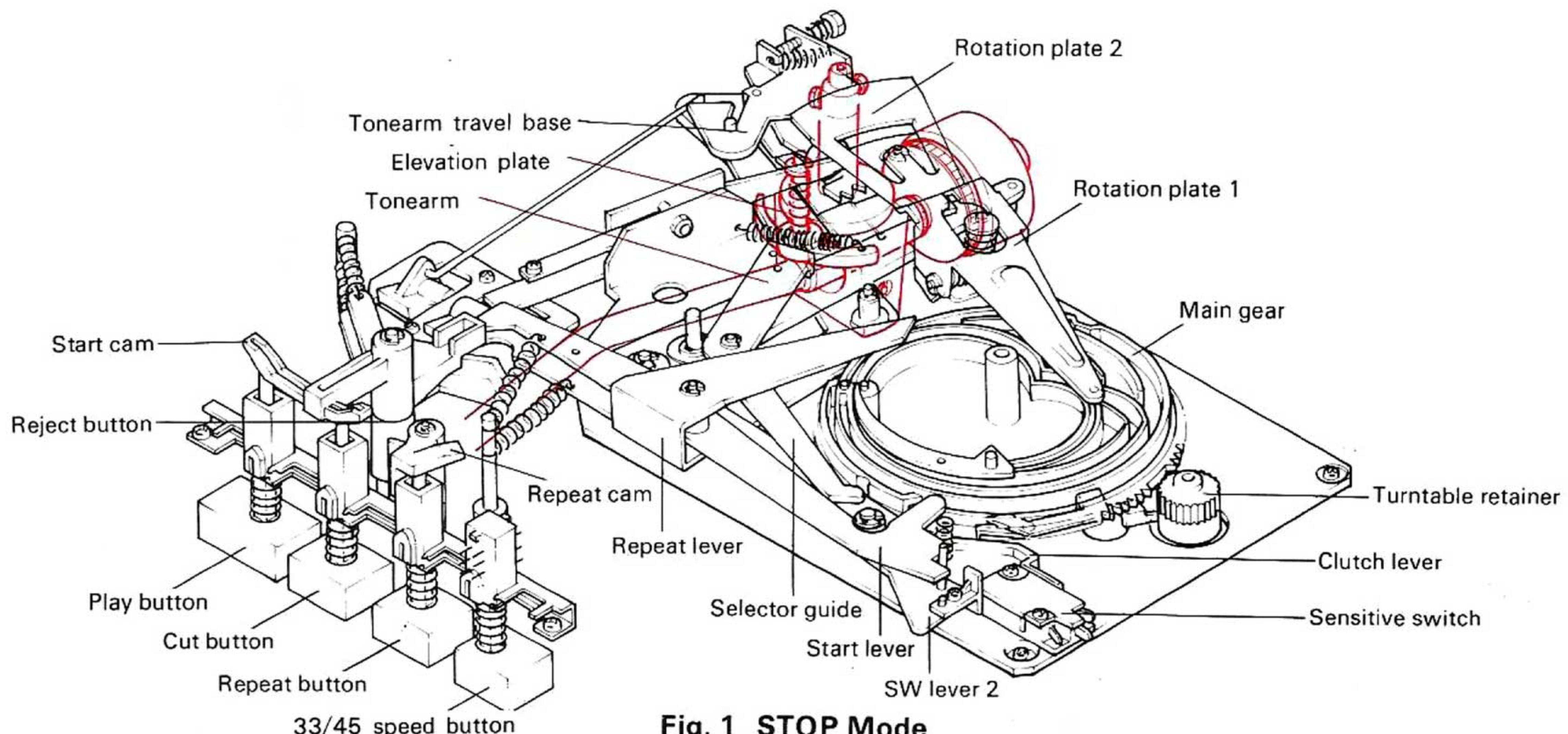


Fig. 1 STOP Mode

The KD-2100 employs an innovative full-automatic mechanism which is completely new. With this mechanism, the energy of turntable rotation is used to operate the PLAY, CUT and REPEAT and raise or lower the tonearm smoothly. Du-

ring record playback, the full-automatic mechanism is completely disengaged from the platter, ensuring the stable rotation.

1. PLAY Mode

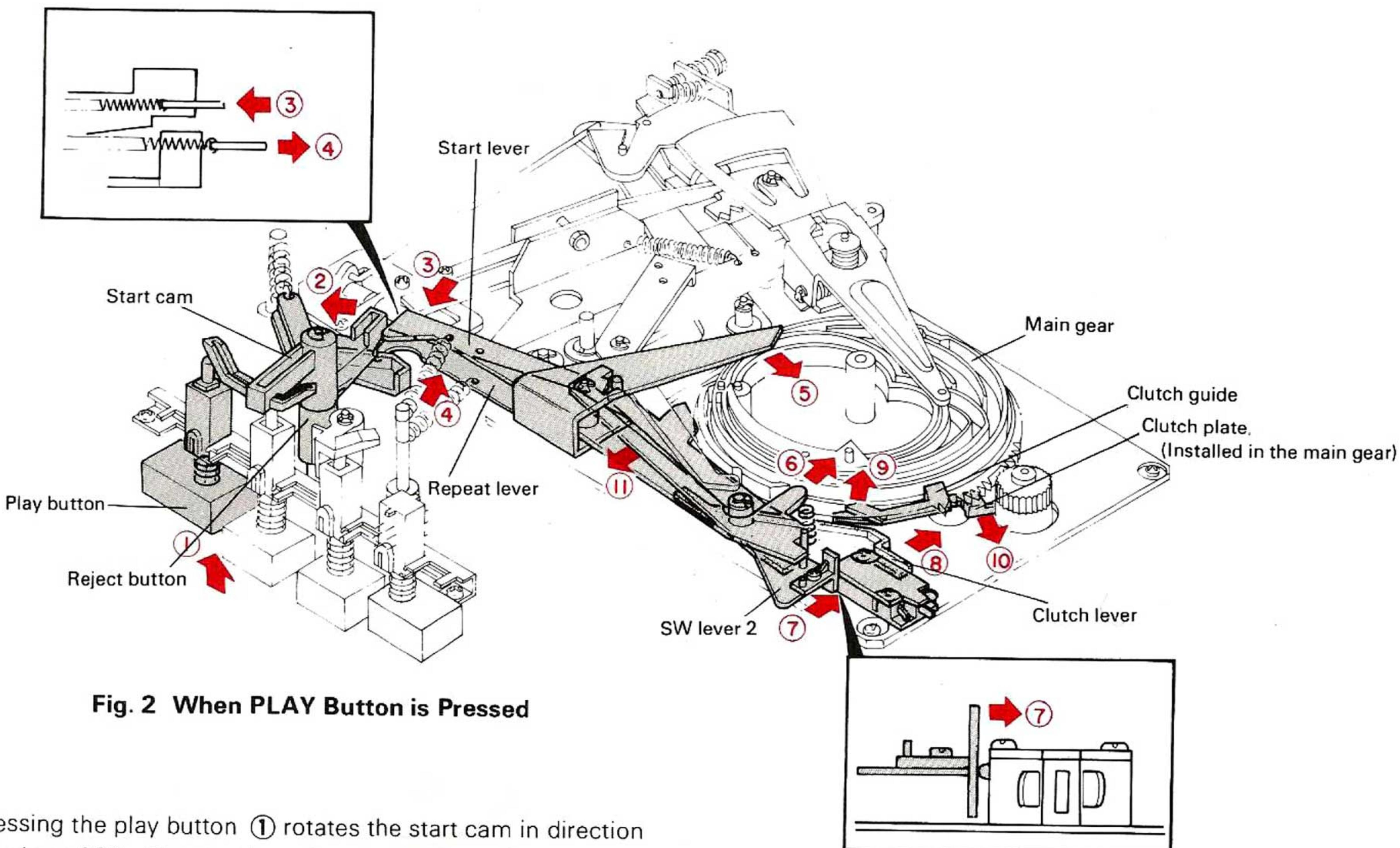


Fig. 2 When PLAY Button is Pressed

Pressing the play button ① rotates the start cam in direction ② about 20°. The start lever is unlocked from the start cam and is drawn by the spring in direction ③. The other end of the start lever shifts in direction ⑥, thus the SW lever 2 is shifted in direction ⑦ to turn ON the microswitch to start the motor. The start lever shifts the clutch lever in direction ⑧ and the clutch guide and clutch plate move in directions ⑨

and ⑩ respectively. The clutch plate is engaged with the turntable retainer gear and the main gear starts rotating (Fig. 2). The reject lever coupled with the start cam starts rotating in direction ② and the repeat lever moves in direction ④ and ⑤ (Fig. 2).

OPERATION OF MECHANISM

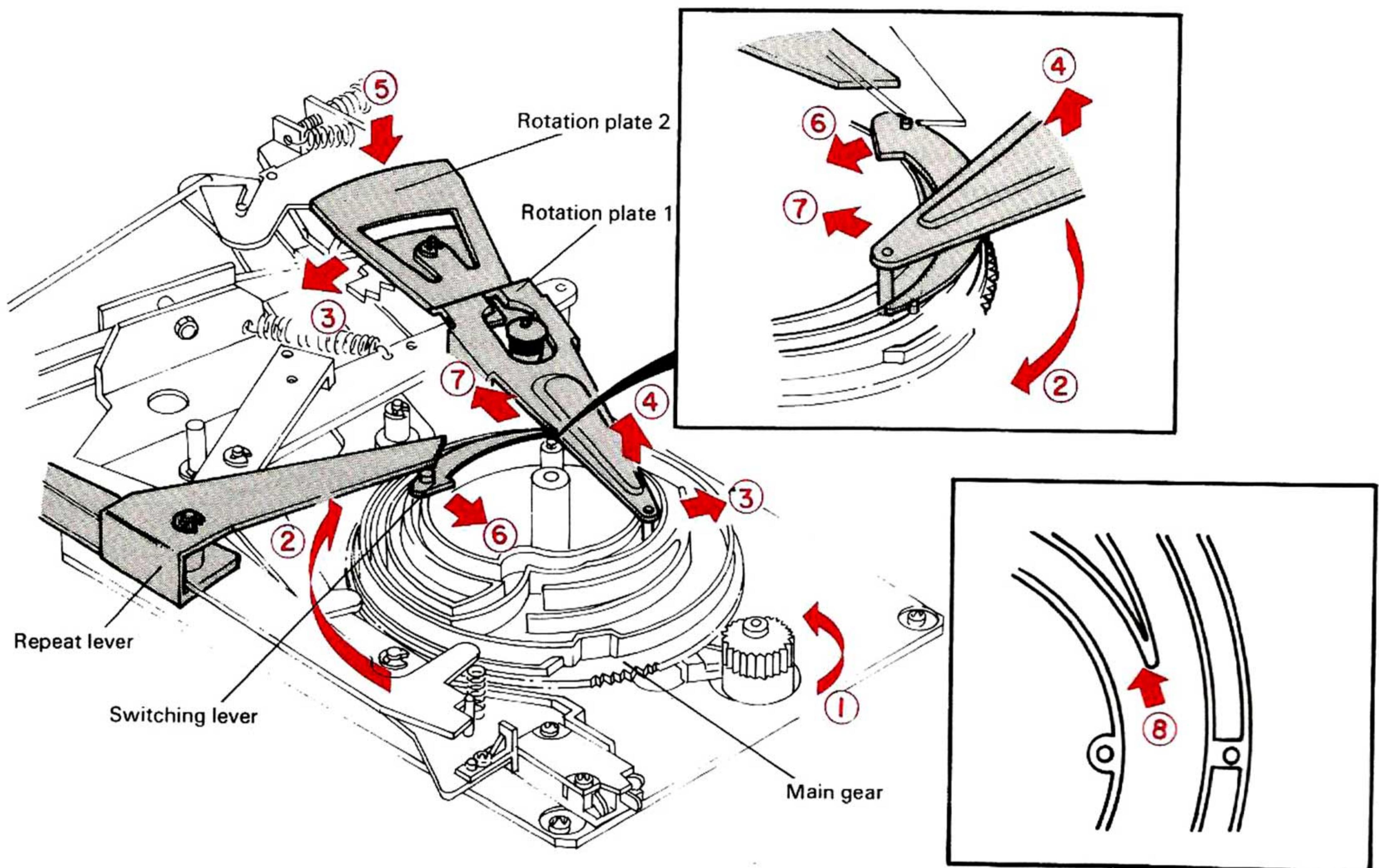


Fig. 3 Rotation of Main Gear

When the turntable is rotating in direction ①, the main gear rotates in direction ②, resulting in the rotation plate 1 moving in direction ③. As the depth of the main gear groove becomes shallower, the rotation plate 2 rises in direction ④ and the rotation plate 1 is lowered in direction ⑤. As a result of this motion, the tonearm rises (Fig. 3).

When the main gear rotates further, the switching lever is shifted in direction ⑥ by the repeat lever and the rotation plate 1 enters the inner groove of the main gear (in directions ⑦ and ⑧) (Fig. 3).

When rotation plate 1 enters the inner groove of the main gear, the end of the selector guide comes to the part where the radius of the main gear becomes smaller, letting the end move inward (in direction ②). The other end of the selector guide shifts in direction ③ and the selector arm is drawn by the spring in direction ④. The record size selector which is set by the selector knob on the cabinet comes into contact with the end of the selector arm to determine the position where the tonearm is to be lowered. (Fig. 4-1.)

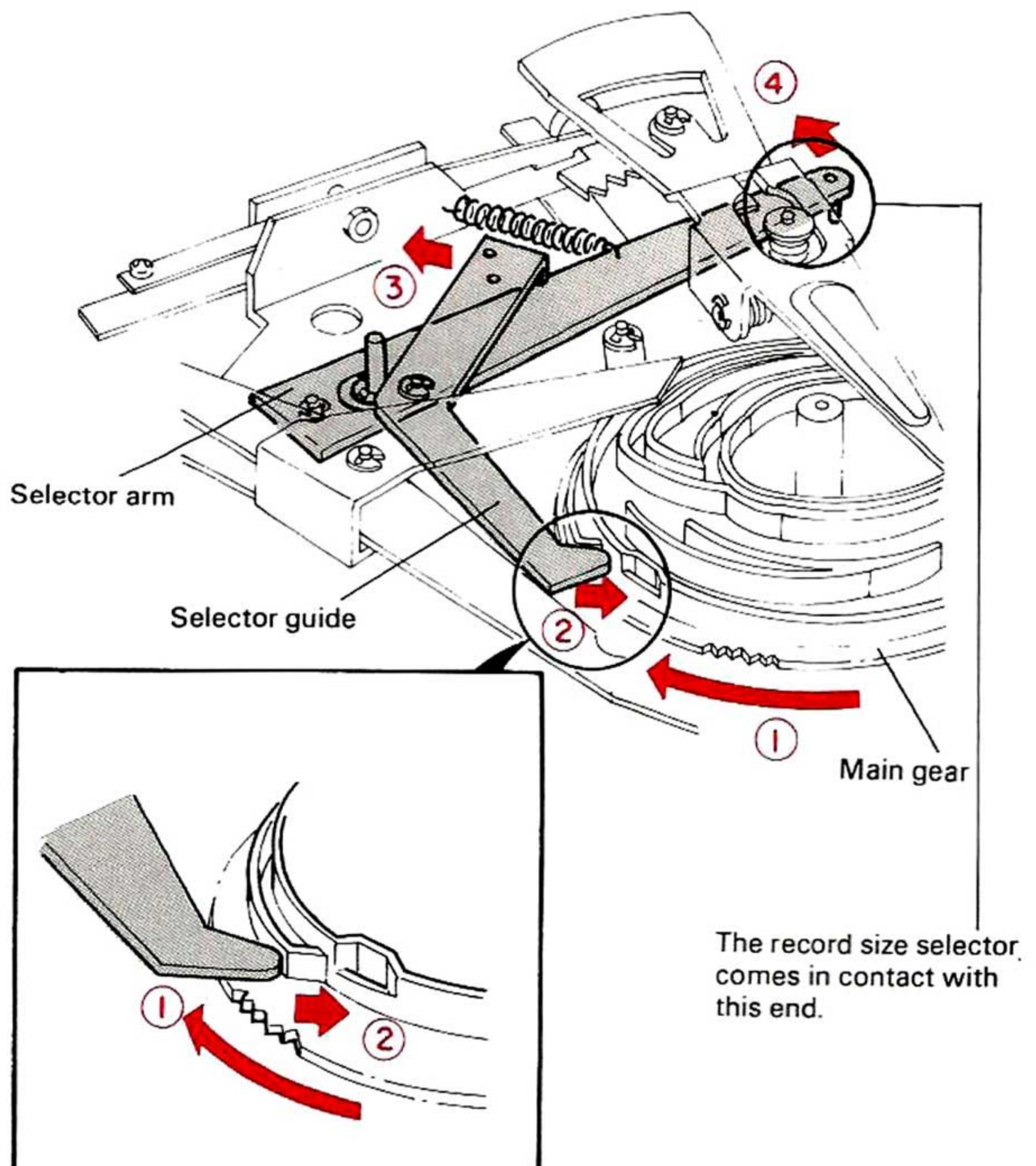


Fig. 4-1 Selector Arm and Selector Guide

OPERATION OF MECHANISM

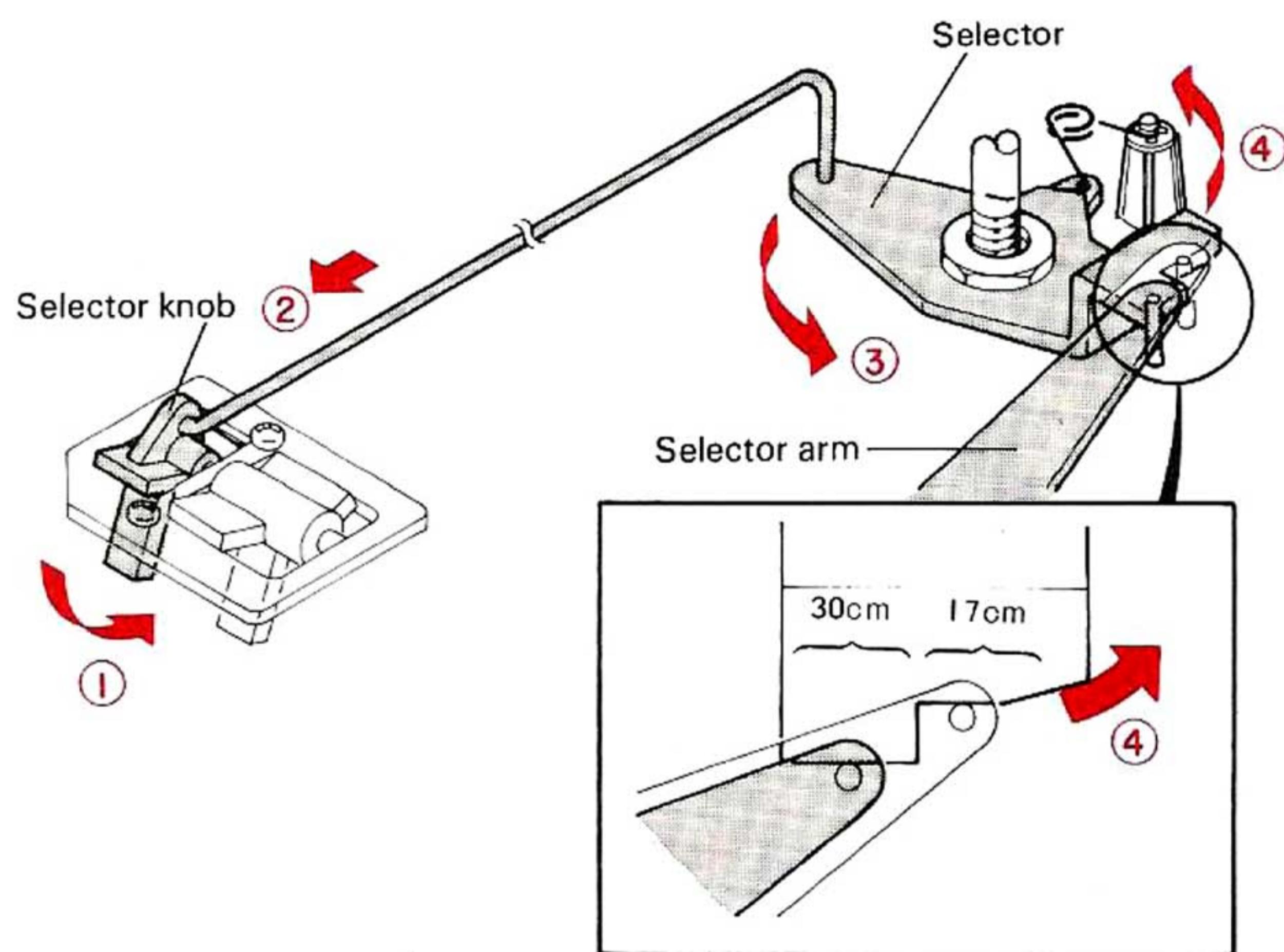


Fig. 4-2 Record Size Selector

When the record size selector knob is tilted for 30 cm record side (direction ①), the selector is turned in direction ③ and ④. The selector arm comes in contact with the "30 cm" position of the selector (Fig. 4-2).

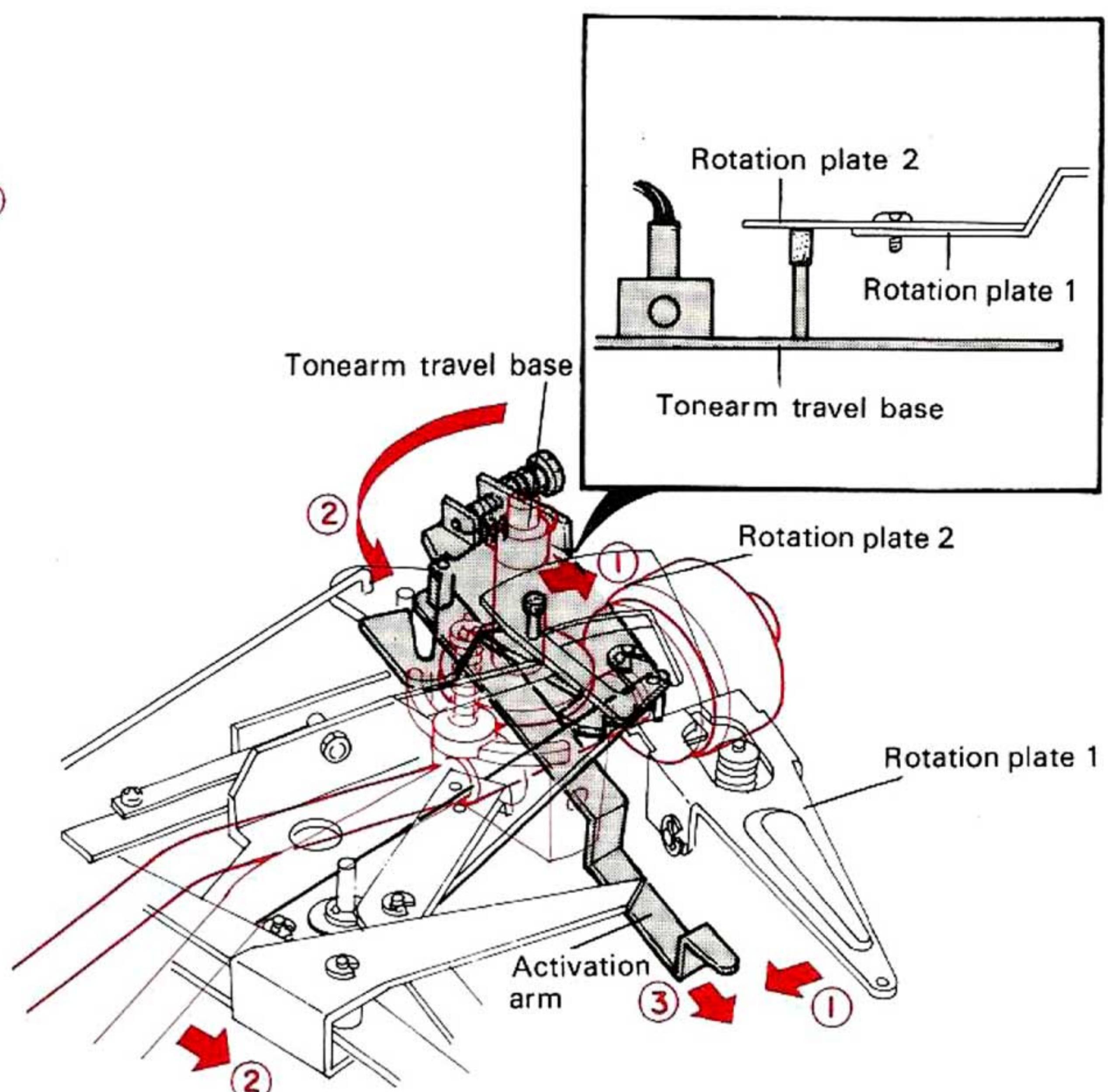


Fig. 6 Shifting of Tonearm

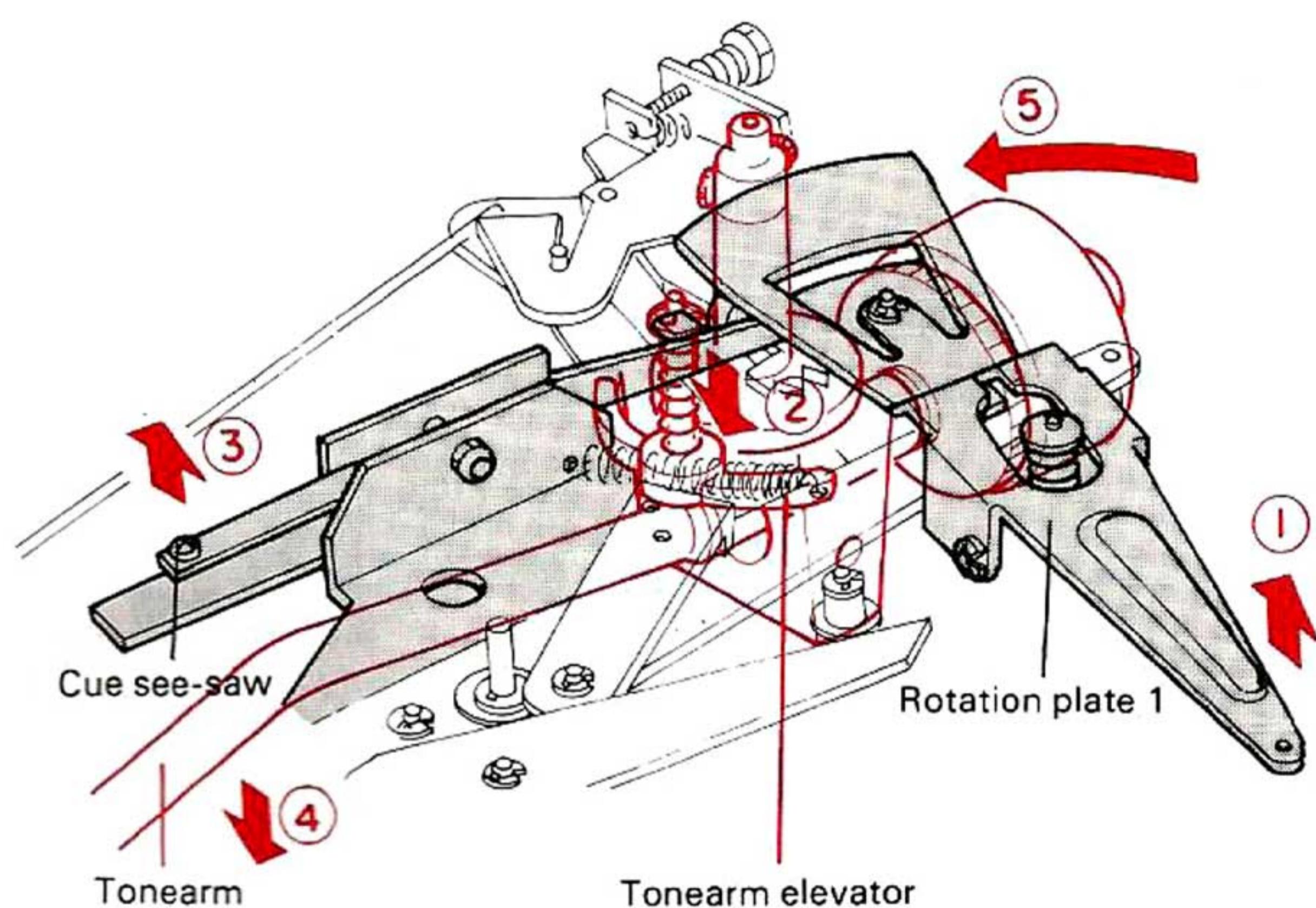


Fig. 5 Elevation of Tonearm

As the main gear rotates, the depth of the groove in which rotation plate 1 is engaged becomes shallower and rotation plate 1 rises in direction ①. The cue see-saw also moves in direction ② to lift the tonearm elevator, resulting in the elevation of the tonearm (Fig. 5).

Rotation plate 1 moves in direction ① as the main gear rotates. The tonearm travel base also moves in direction ① due to the friction between rotation plate 2 and the boss on the travel base. As a result of this motion, the travel base itself moves in direction ② to shift the tonearm. The travel base stops when it comes in contact with the "30 cm" or "17 cm" position of the selector which is determined by the selector knob (Fig. 6). The activation arm which is coupled with the travel base moves in direction ③ (Fig. 6) to make the AUTO-CUT operation, explained later in section 3, possible.

OPERATION OF MECHANISM

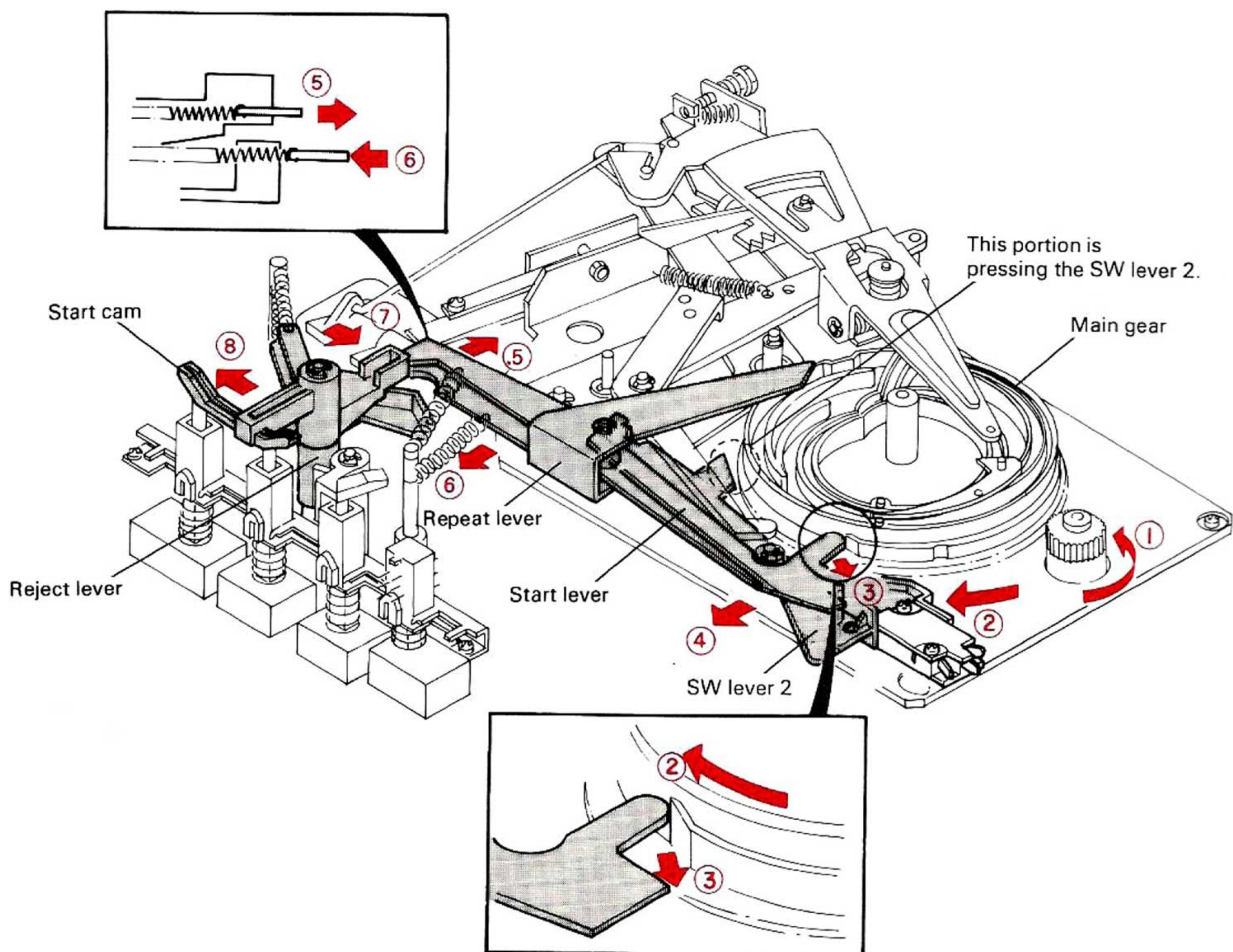


Fig. 7 Return of Start lever, Start cam and Reject cam

When the main gear rotates further in direction ②, the outermost end of the main gear presses the start lever in direction ③ and the start lever turns in directions ④ and ⑤. As a result, the start cam is released and turned in directions ⑦ and ⑧ by the spring and the repeat lever moves in direction ⑥ to return the reject lever, start lever and repeat lever in their original positions (Fig. 7).

While the main gear is rotating, the SW lever is pushed outward by the part under the teeth of the main gear, so that the sensitive switch is kept turned ON even if the start lever moves in direction ④ (Fig. 7). When the outermost end of the main gear comes into contact with the selector guide, the selector guide is turned in directions ② and ③. Therefore, the selector arm is drawn in direction ④ to release the end of the selector arm from the travel base. As a result of this operation, the tonearm can move free from the mechanism (Fig. 8). As the groove of the main gear with which rotation plate is engaged becomes deep, rotation plate moves in direction ⑤. The cue see-saw moves in directions ⑥ and ⑦ under its own weight and the elevation plate which contacts the cue see-saw is lowered in direction ⑧, thus the tonearm descends in direction ⑨ (Fig. 8).

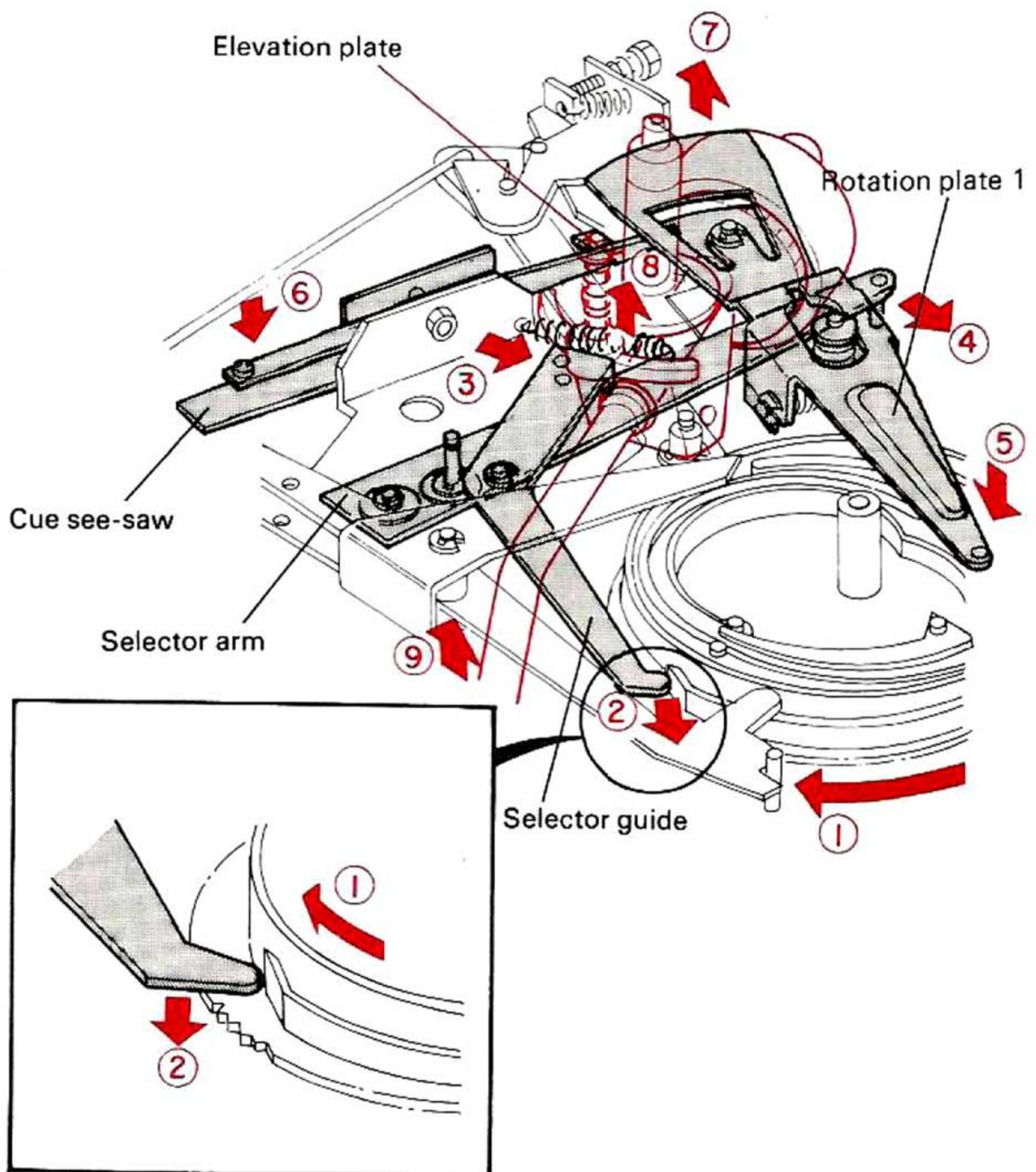


Fig. 8 Lowering of Tonearm and Return of Selector guide and Selector arm

OPERATION OF MECHANISM

When the main gear rotates one revolution, the toothless part of the main gear comes to the position of the turntable retainer gear. The clutch plate and the clutch guide are pushed back by the clutch lever in position so that it doesn't project from the toothless part, which means that the main gear is completely separated from the turntable retainer gear and it stops (Fig. 9).

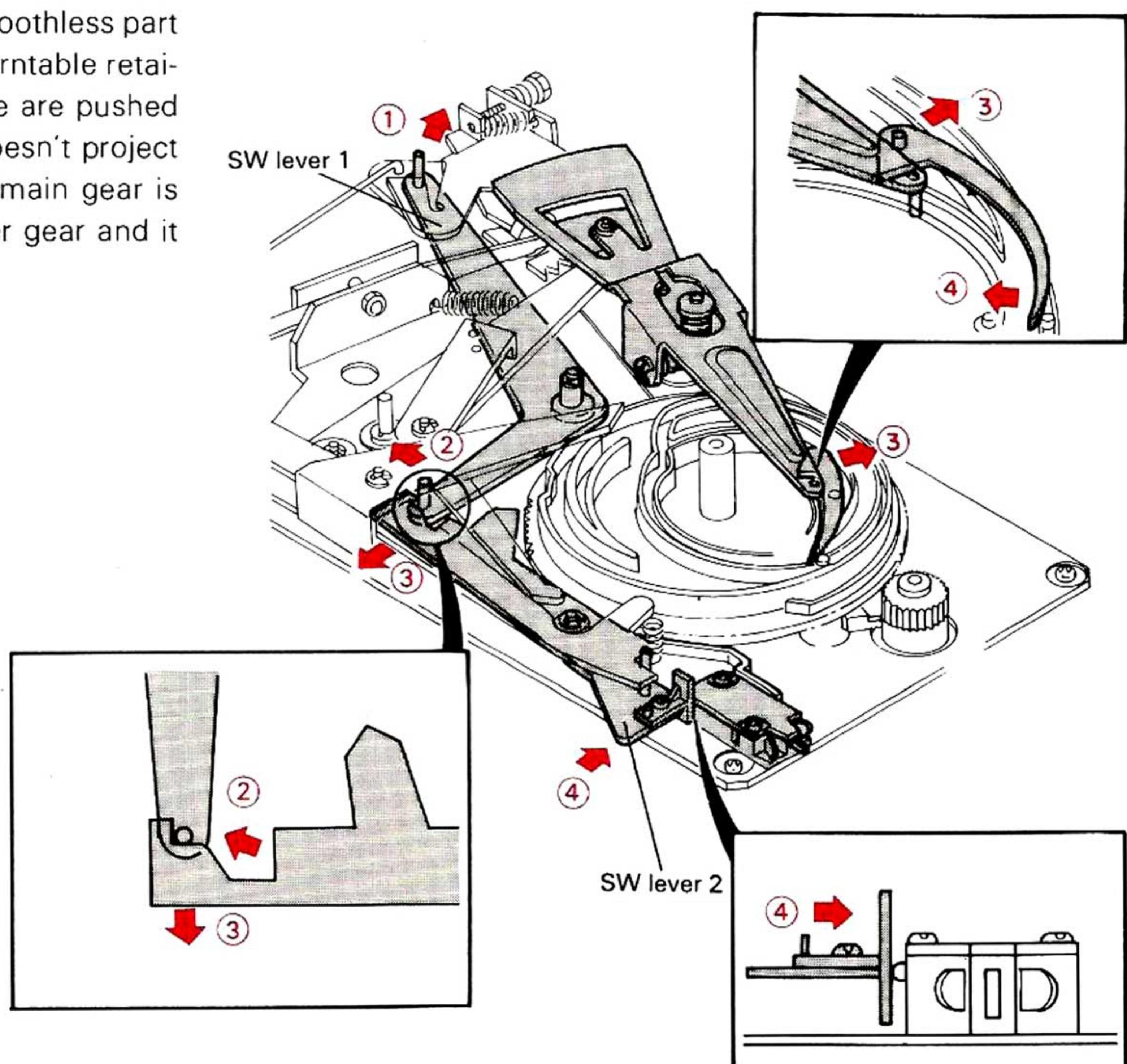


Fig. 9 SW lever 1 and SW lever 2

2. CUT Mode

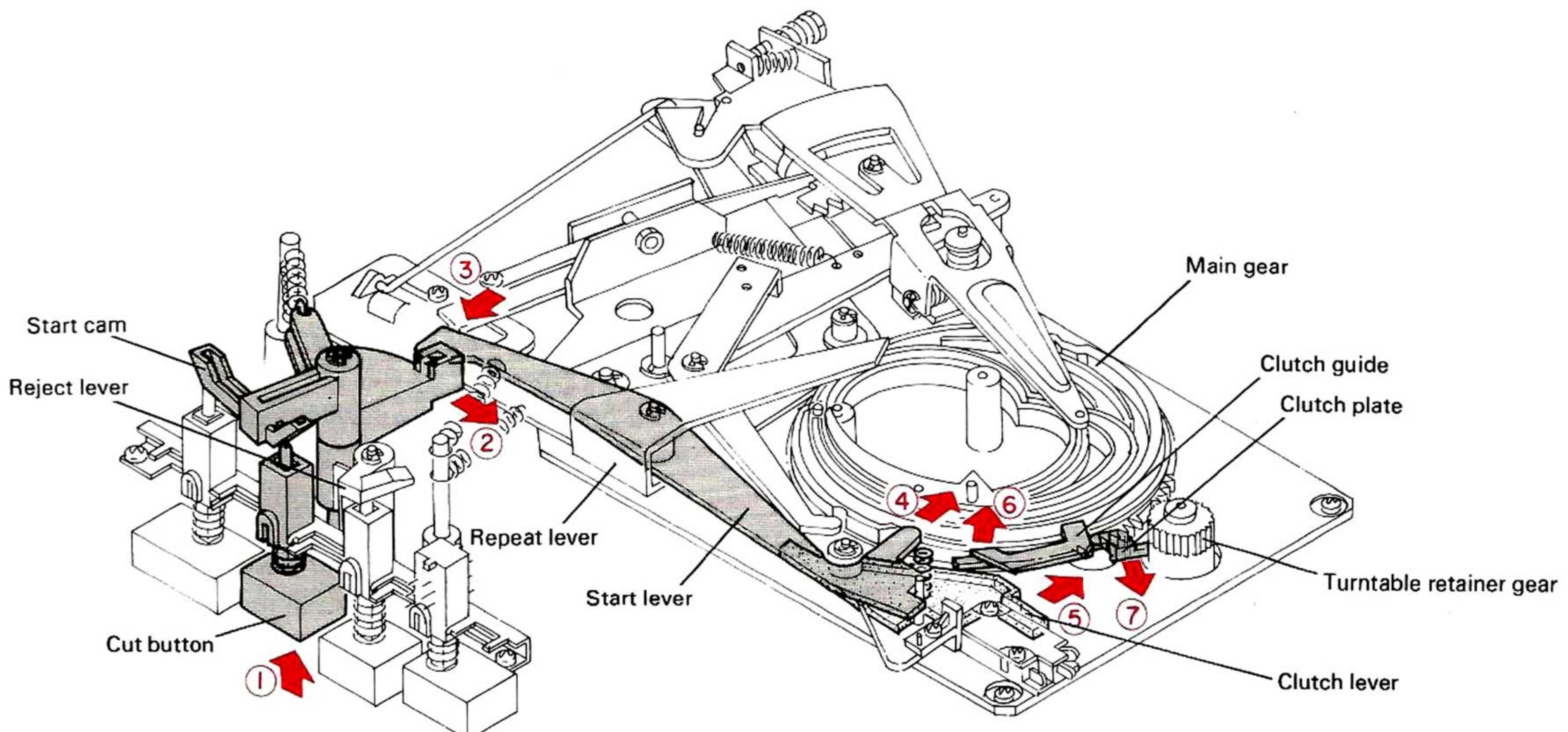


Fig. 10 When the CUT Button is Pressed

When the cut button is pressed, the start cam rotates in direction ② for about 20°. The start lever turns in directions ③ and ④ as in the PLAY mode to push the clutch lever in direction ⑤. The clutch guide and the clutch plate move in di-

rections ⑥ and ⑦ respectively and engage with the turntable retainer gear to rotate the main gear. But in this case, as the reject lever is not coupled with the start cam, the repeat lever does not move (Fig. 10).

OPERATION OF MECHANISM

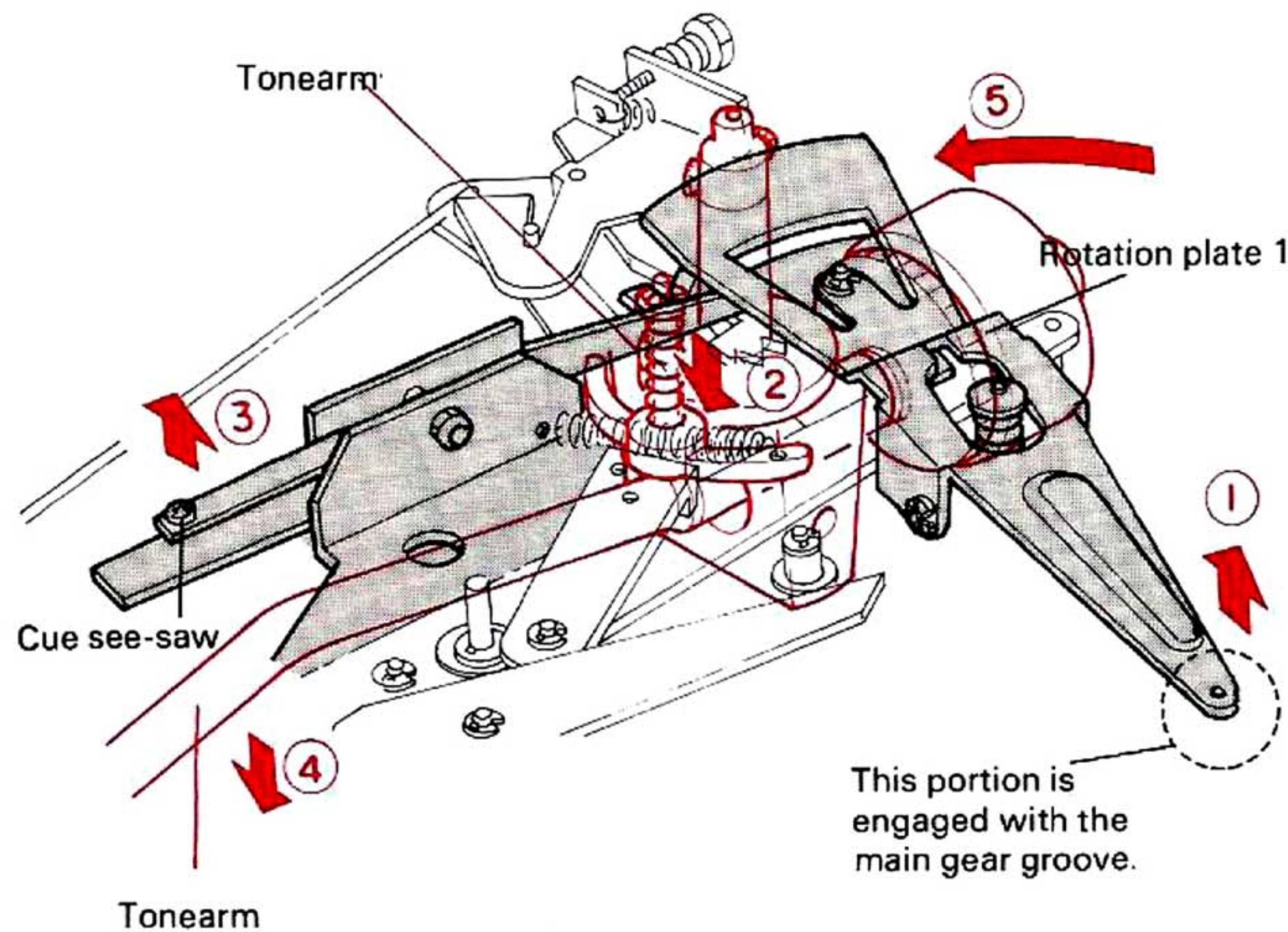


Fig. 11 Elevation of Tonearm

As the main gear begins to rotate, the depth of the main gear groove where the rotation plate 1 follows becomes shallower and the rotation plate 1 moves in direction ①. Rotation plate 1 raises the tonearm elevator and the cue see-saw in directions ② and ③ respectively to raise the tonearm up (direction ④). Right after this motion, rotation plate 1 starts to rotate in direction ⑤ due to the action of the main gear (Fig. 11).

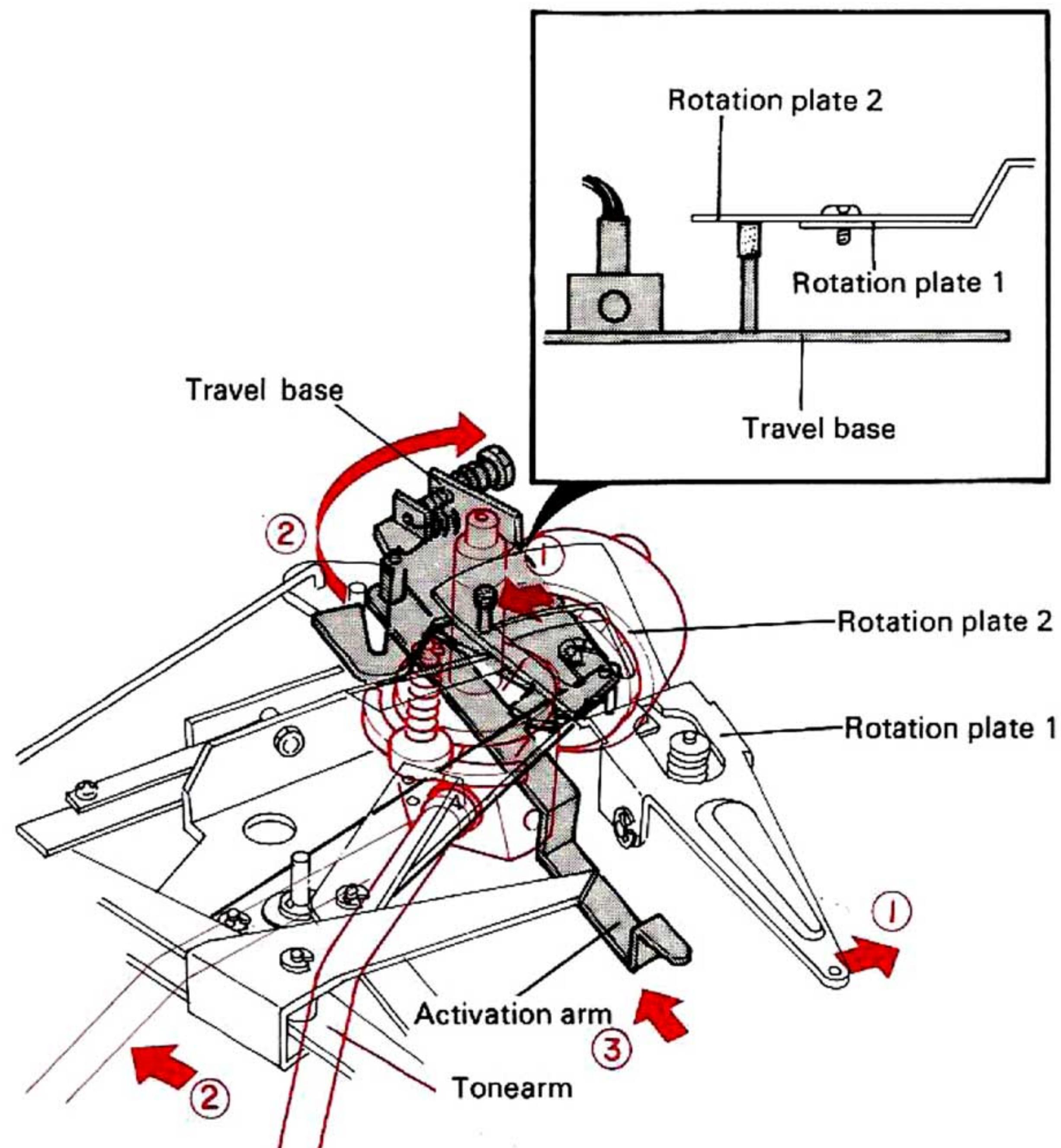


Fig. 12 Return of Tonearm

Rotation plate 1 rotates in direction ① due to the main gear's rotation and rotation plate 2 rotates in the same direction. The tonearm travel base itself moves in direction ② due to the friction between the boss of the travel base and rotation plate 2. The tonearm coupled with the travel base moves in direction ② until the tonearm comes above the arm rest. This operation is opposite of that in the PLAY mode (Fig. 12).

The activation arm coupled with the travel base returns in direction ③ (Fig. 12).

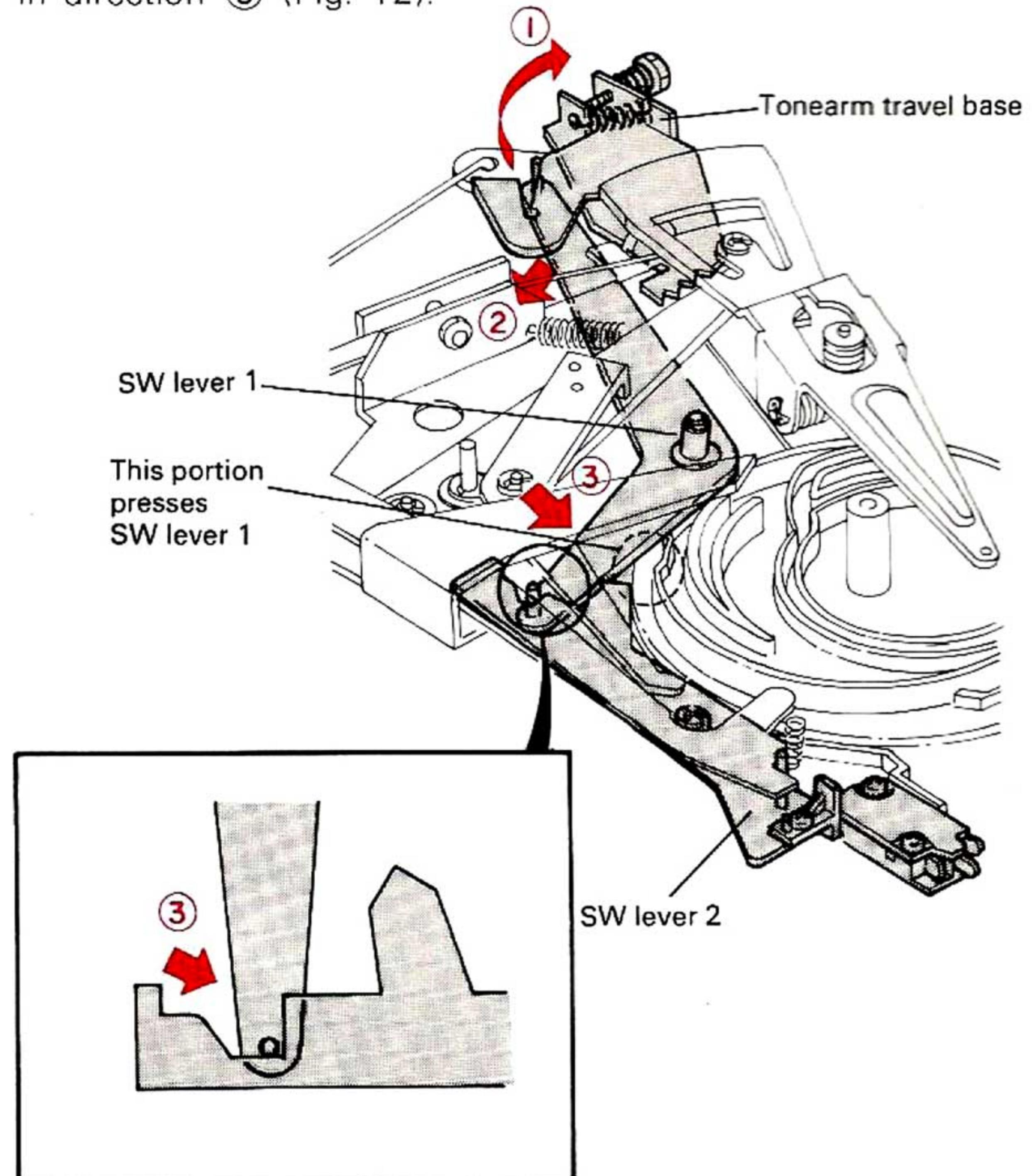


Fig. 13 Return of SW lever 1

When the travel base moves in direction ①, SW lever 1 moves in directions ② and ③ to unlock SW lever 2 from SW lever 1. However, as SW lever 2 is pushed outward by the main gear, the sensitive switch is kept turned ON (Fig. 13). Rotation plate 1 goes along the outer groove of the main gear as it rotates. This operation differs from that in the PLAY mode. In the PLAY mode, as the repeat lever is coupled with the start lever, the switching lever enters the inner groove of the main gear. In the CUT mode, as the repeat lever does not move, the switching lever does not enter the inner groove (Fig. 14).

When the outermost end of the main gear comes to the position of the selector guide (in direction ①), the selector guide moves in directions ② and ③, so that the selector arm is drawn in direction ④ by the spring and the selector arm returns to its original position (Fig. 15).

OPERATION OF MECHANISM

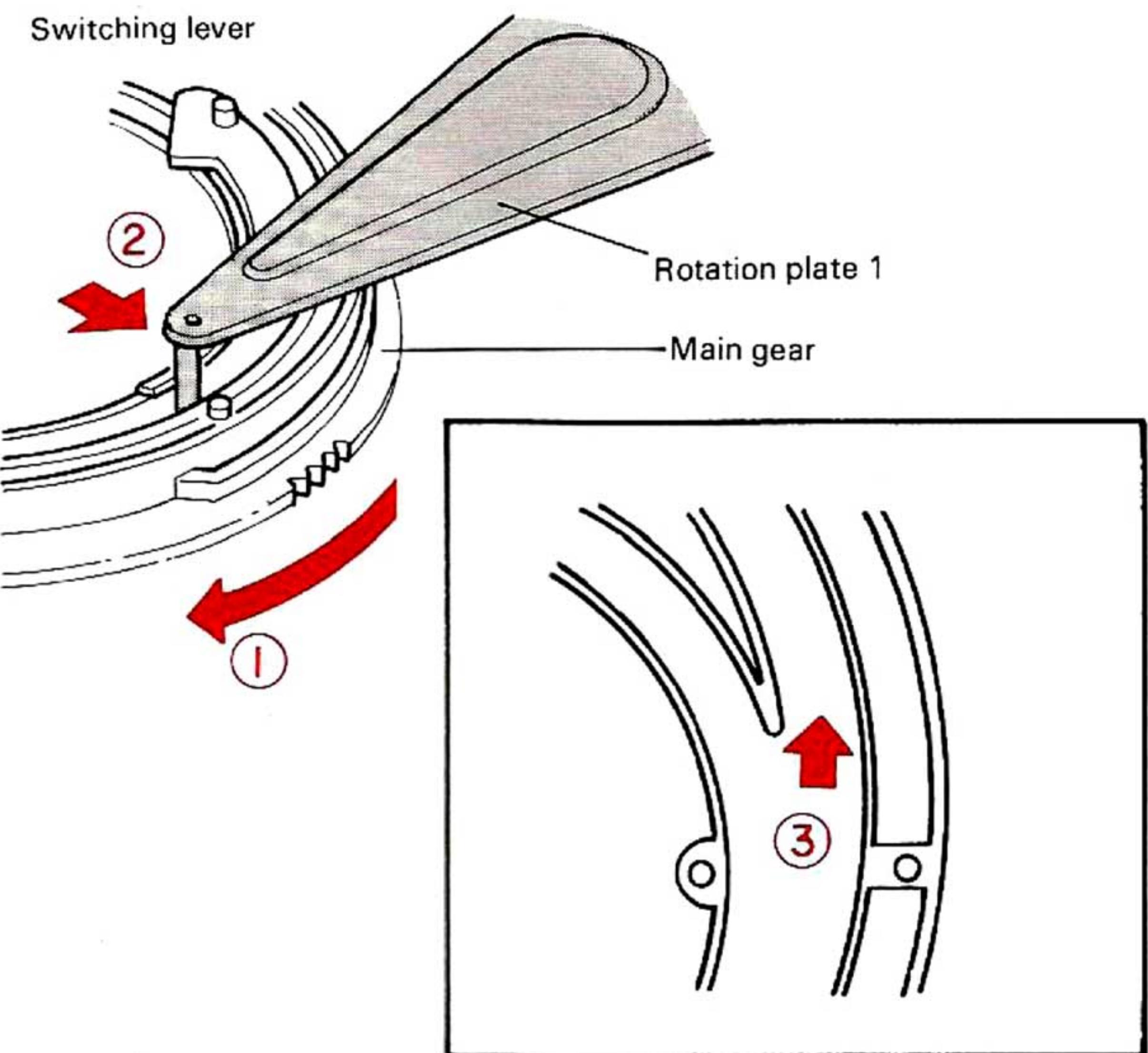


Fig. 14 Switching lever in CUT mode

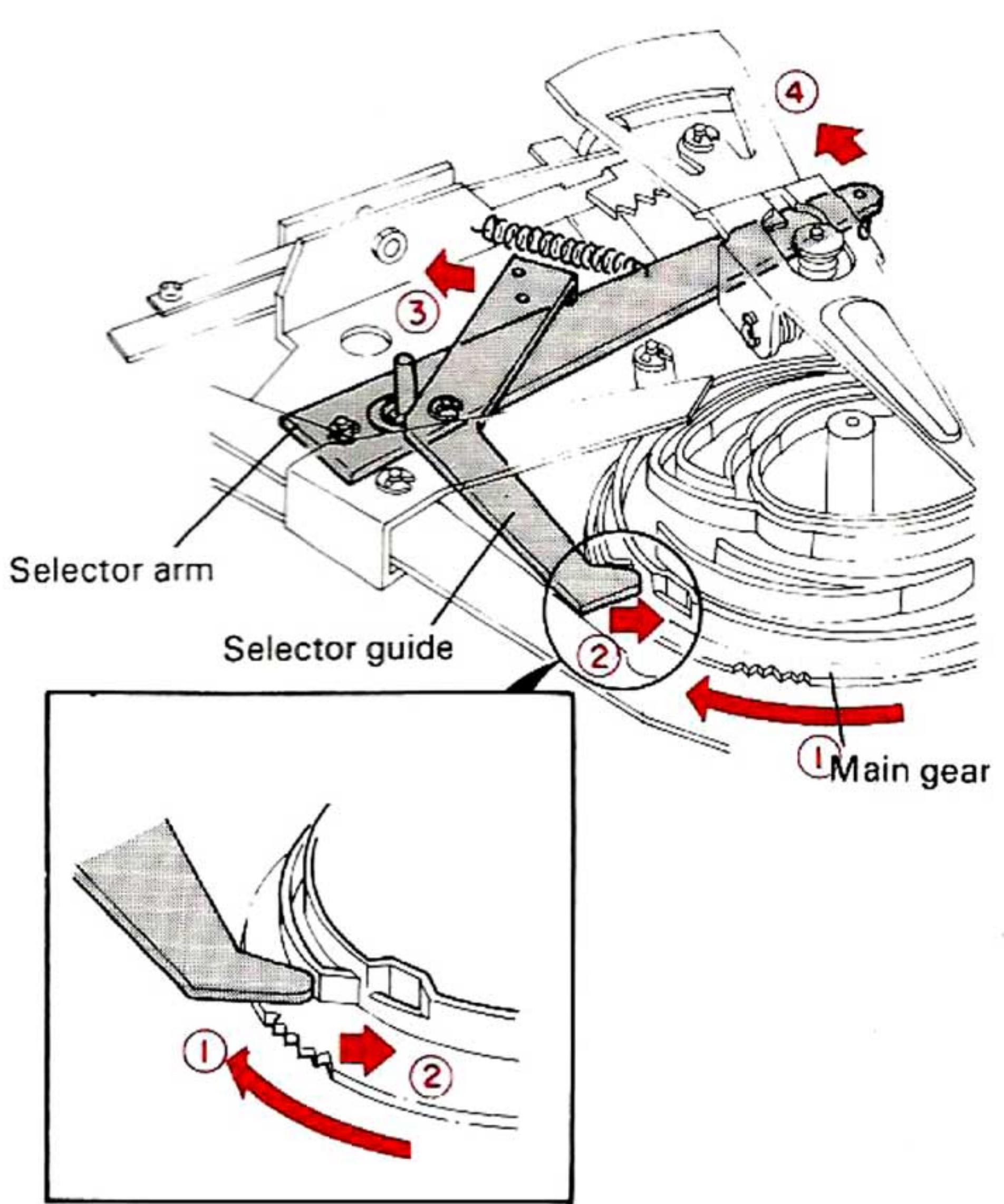


Fig. 15 Return of Selector guide and Selector arm

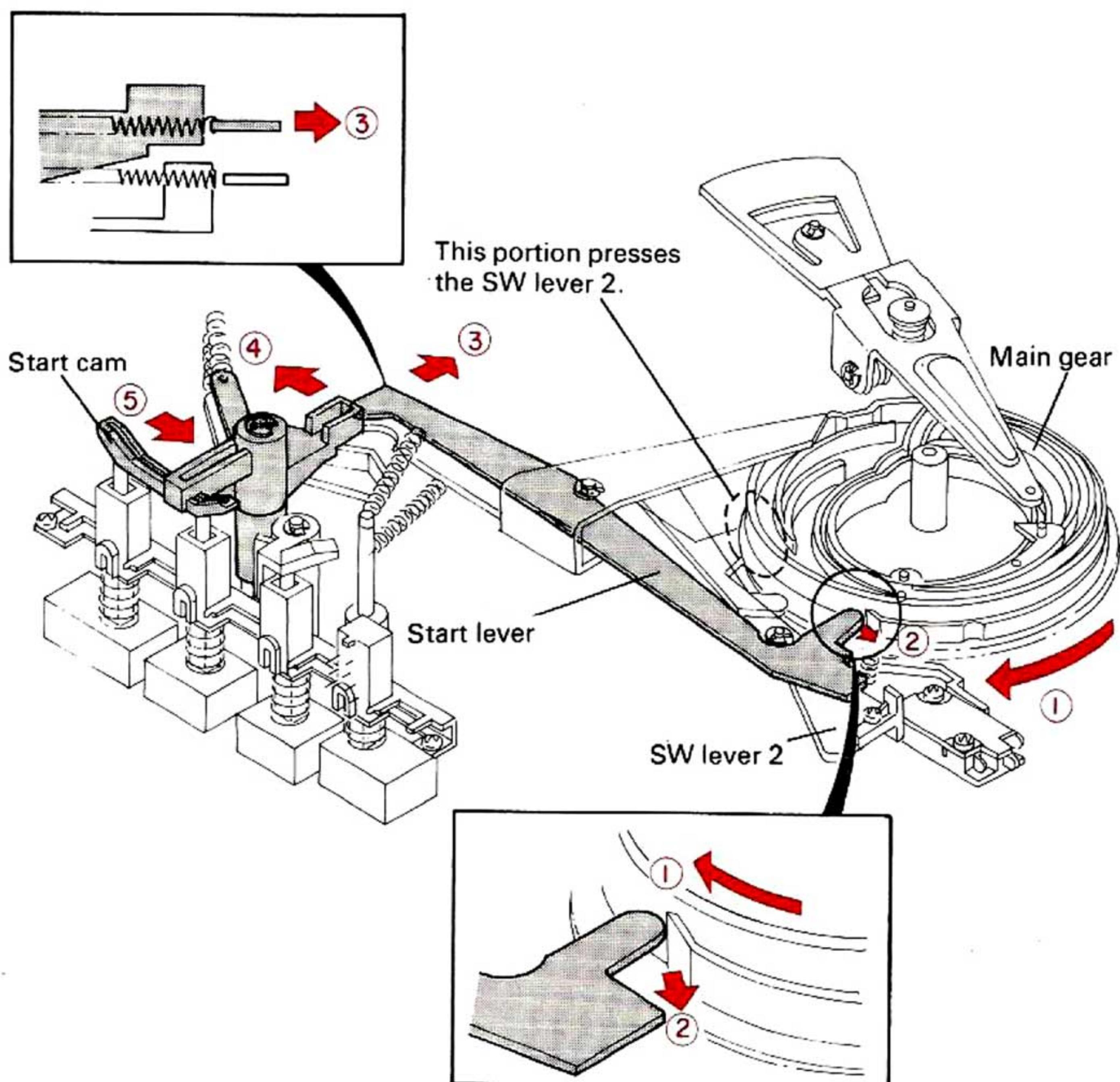


Fig. 16 CUT Switch Reset

3. AUTO CUT mode

When the stylus reaches the lead out groove of the record after completion of playback, the activation arm (refer to Fig. 6) pushes the clutch plate (refer to Fig. 10) located in the main gear and the clutch plate is engaged with the turntable retainer.

When the outermost end of the main gear comes to the position of the start lever 1 and 2, the start lever and the start cam are reset (Fig. 16).

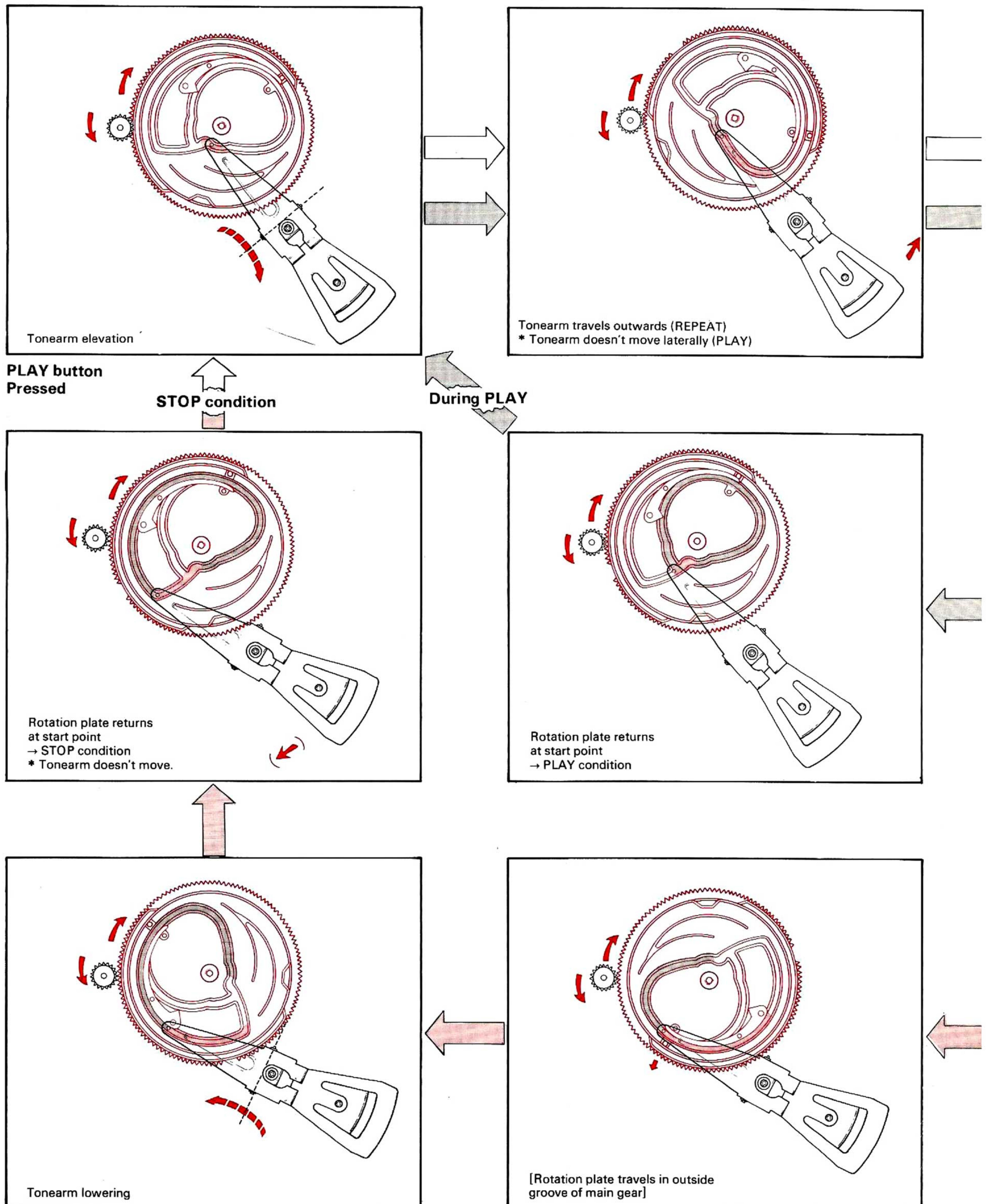
When the main gear rotates by 4/5 turns, the depth of the groove of the main gear becomes deeper to allow the tonearm to be lowered on the arm rest. When the main gear rotates by one turn, the toothless part of the main gear comes to the position of the turntable retainer gear. In this case, as the clutch plate and the clutch guide is hidden below the main gear so that there are nothing that can engage with the turntable retainer gear, the main gear is completely separated from the turntable retainer, and the main gear stops. As the tonearm is positioned on the arm rest, the SW lever is unlocked so that the sensitive switch is turned OFF when the main gear stops.

After this operation, the unit follows the same procedure as when the cut button is pressed.

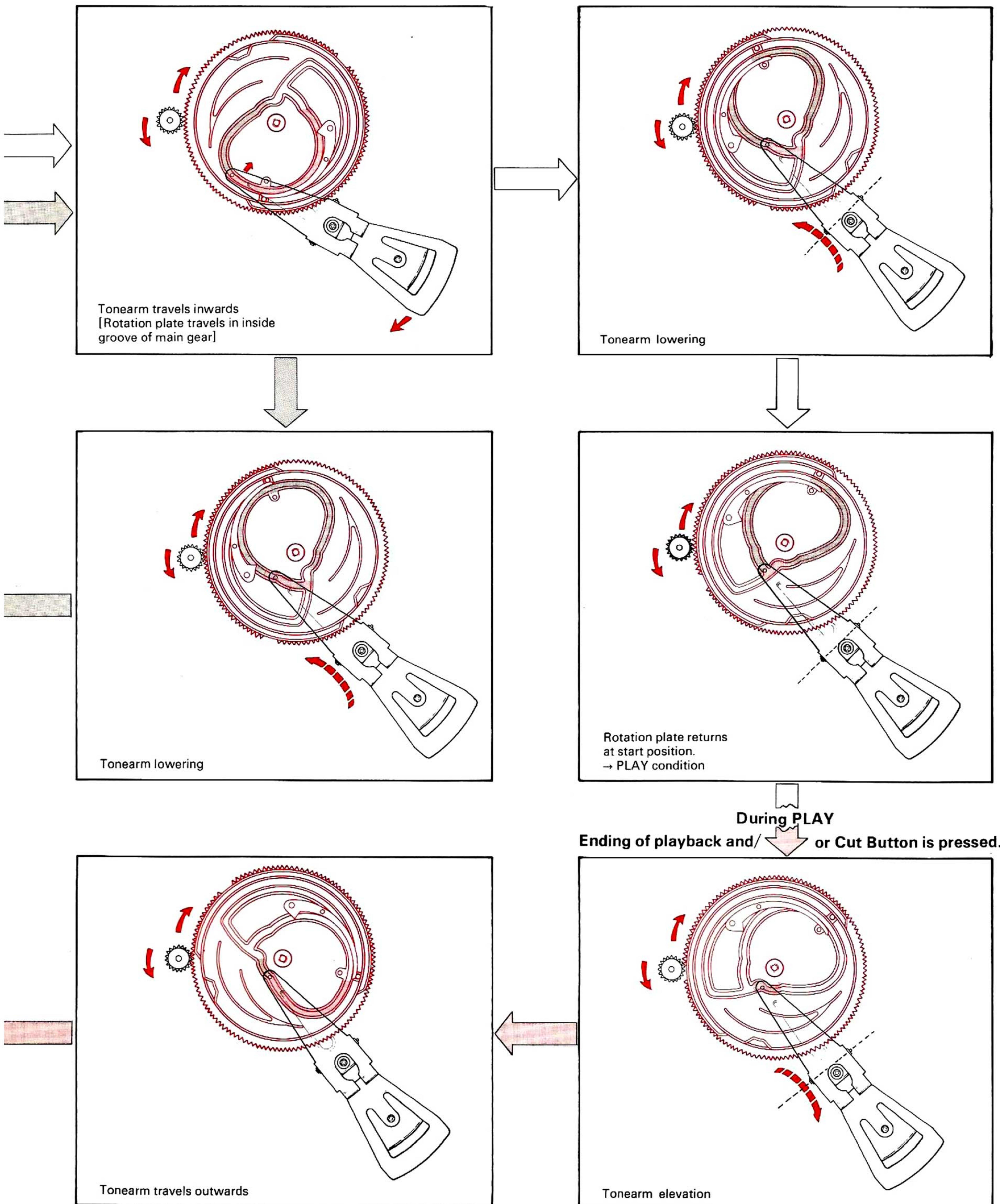
AUTOMATIC MECHANISM OPERATION

4. Main gear and Rotation plate travelling

→ PLAY → REPEAT → CUT



AUTOMATIC MECHANISM OPERATION

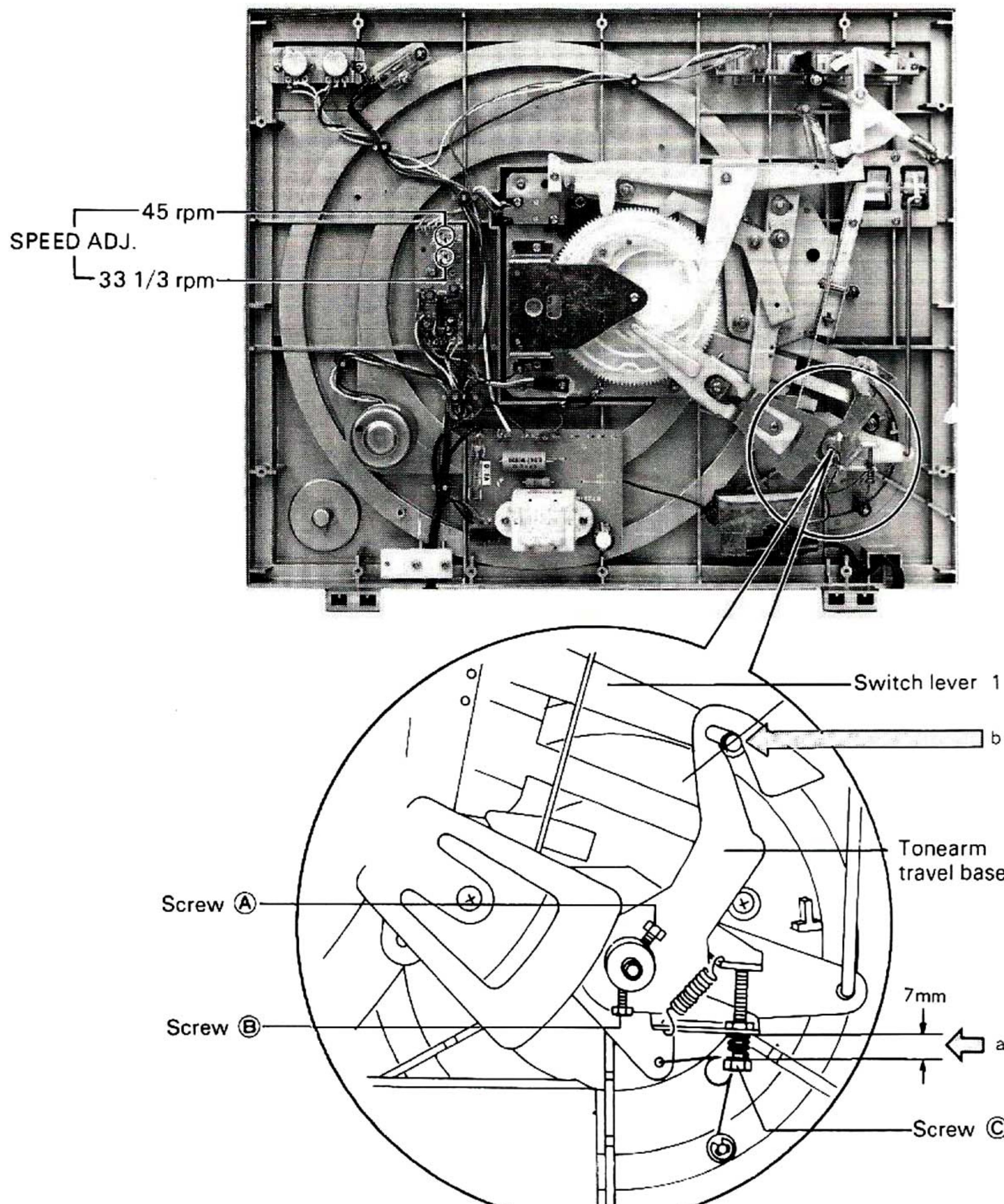


ADJUSTMENT

1. Motor speed adjustment

If the proper speed cannot be obtained by adjustment of the SPEED ADJ control on the operation panel, readjust the trimming potentiometers on the motor PC board as follows. (Refer to the figure below.)

- 1) Level the turntable.
- 2) Center the SPEED ADJ knob.
- 3) Set the SPEED selector to "33".
- 4) Adjust the trimming potentiometer for 33 rpm (Lower) through the access hole until the striped pattern of the turntable platter stops.
- 5) Set the SPEED selector to "45".
- 6) Similarly adjust the trimming potentiometer for 45 rpm (upper) through the access hole until the striped pattern of the turntable platter stops.



Adjustment of AUTO-IN Position

30 cm record 14.6 ~ 14.85 cm from center
17 cm record 8.4 ~ 8.6 cm from center

1. Secure the tonearm on the arm-rest.
2. Loosen screws **A** and **B**.
3. Adjust screw **C** to obtain a 7 mm space at a.
4. Turn the travel base until the projection of the SW lever 1 reaches point b.
5. Tighten screws **A** and **B** (Lock the screws after checking the AUTO-IN position).

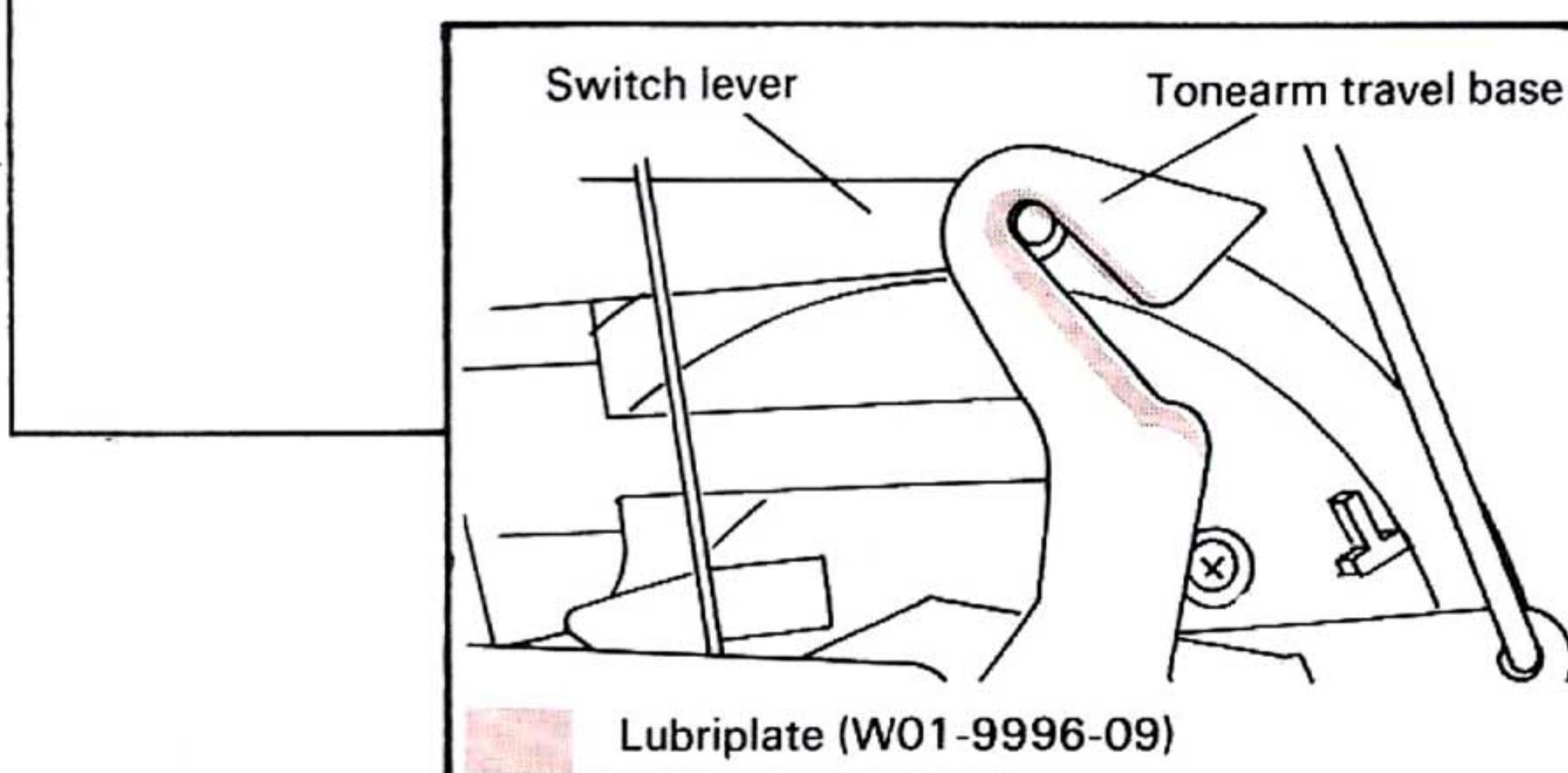
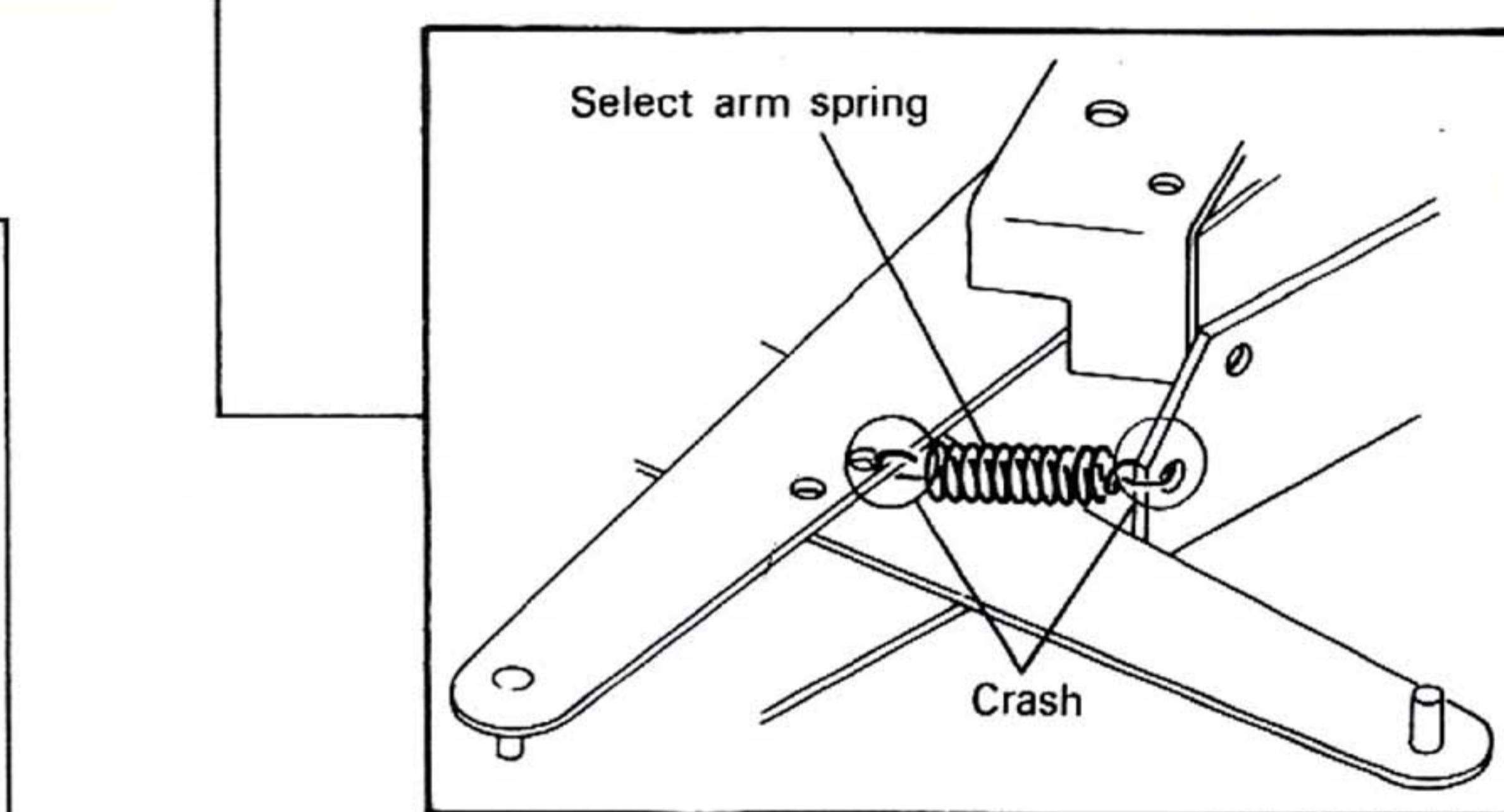
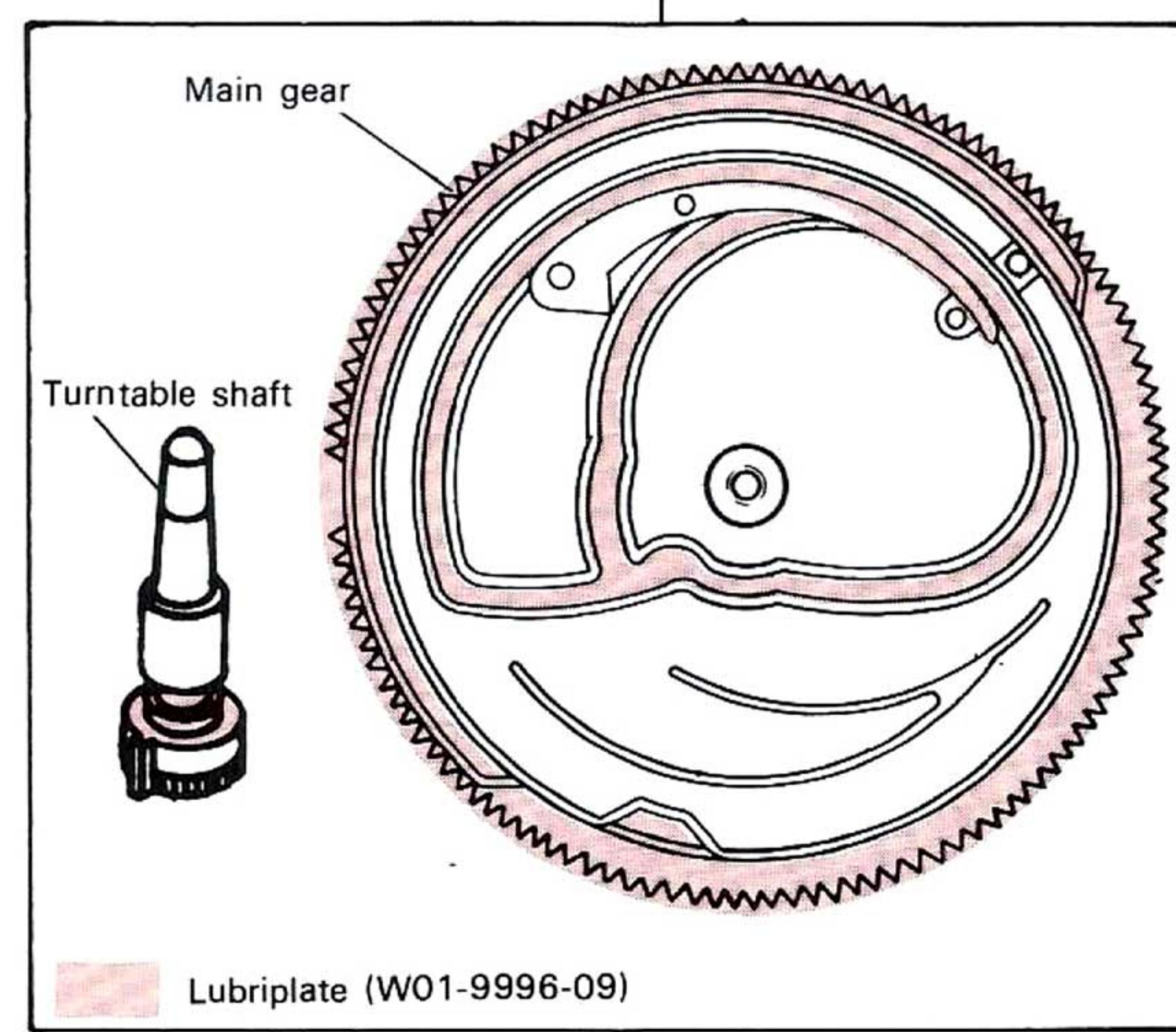
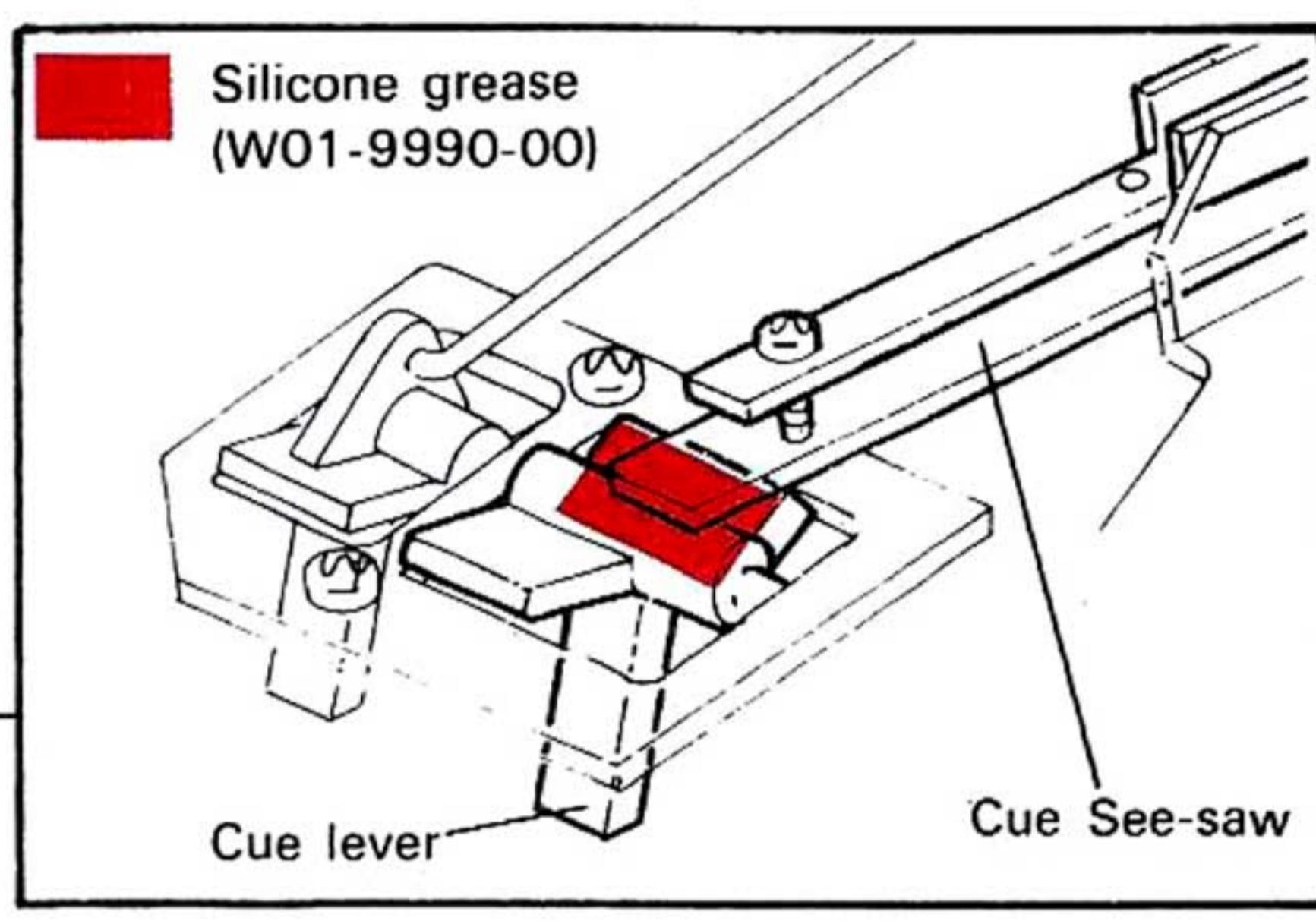
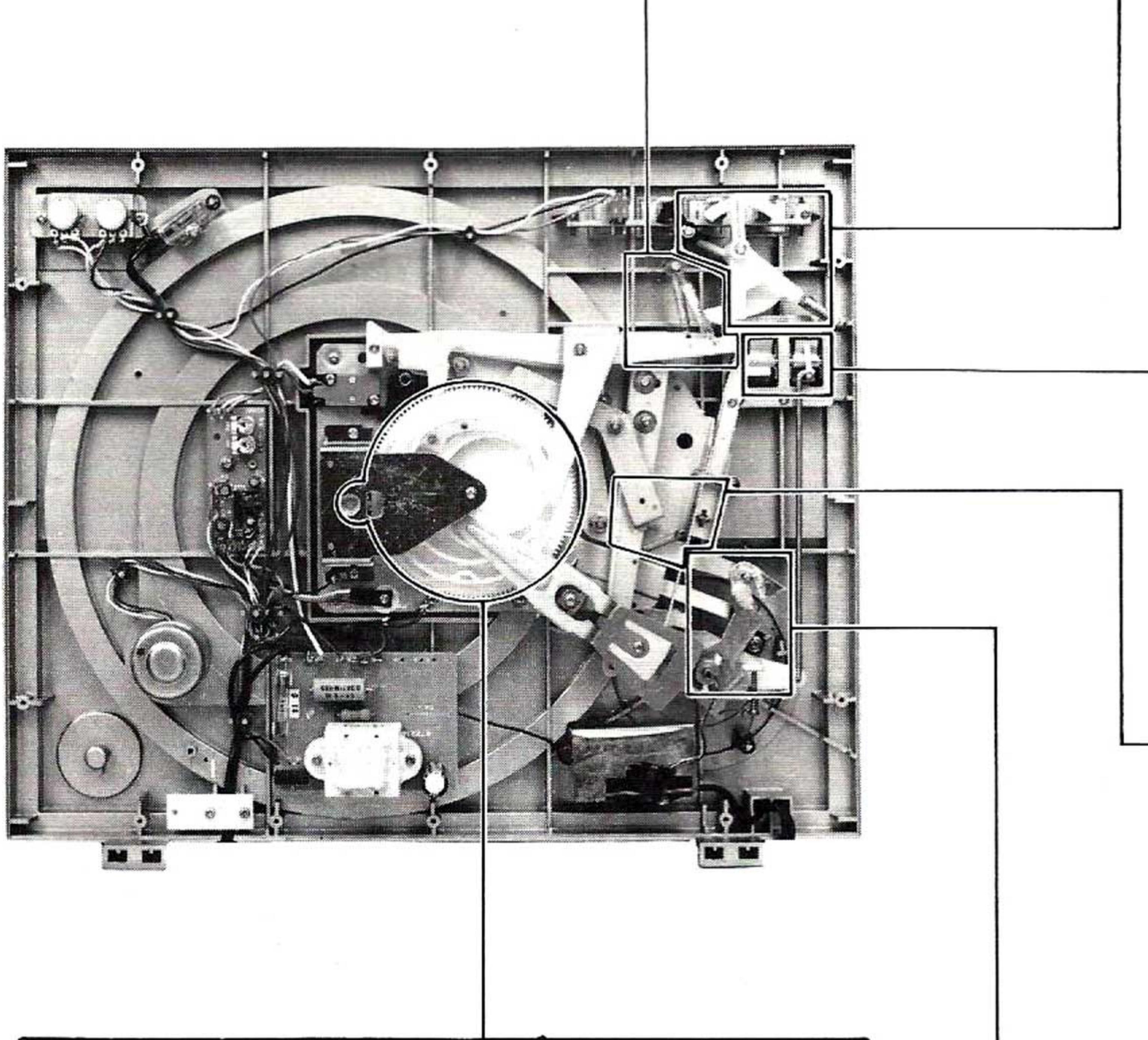
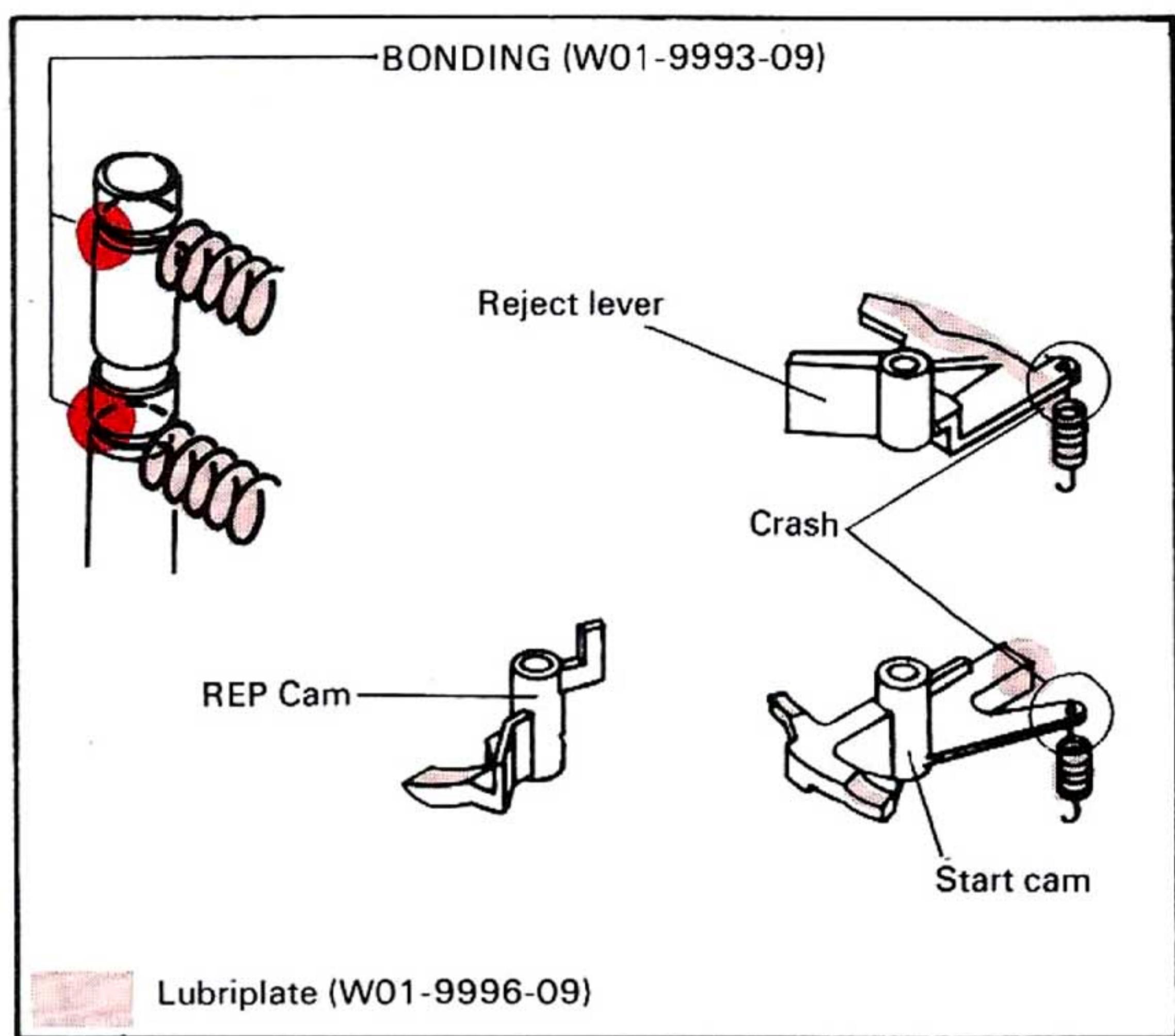
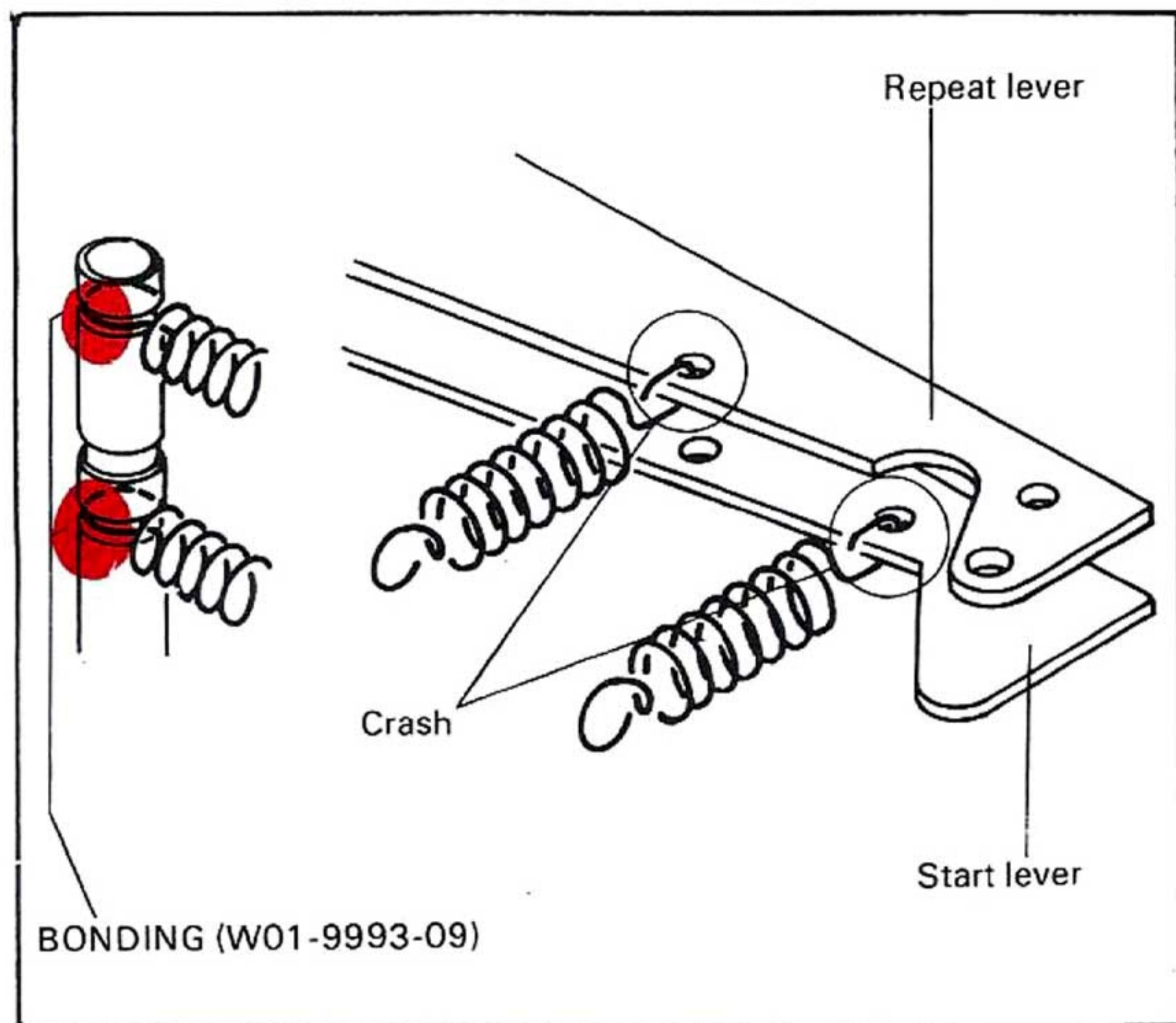
*When the AUTO-IN position has been adjusted, be sure to readjust the AUTO RETURN position.

Adjustment of AUTO-RETURN Position

30 cm and
17 cm records .. 6.1 cm ± 0.5 cm from center

1. Secure the tonearm on the arm-rest.
2. Turn screw **C** and adjust the AUTO-RETURN position (Lock the screw after adjustment).

LUBRICATION

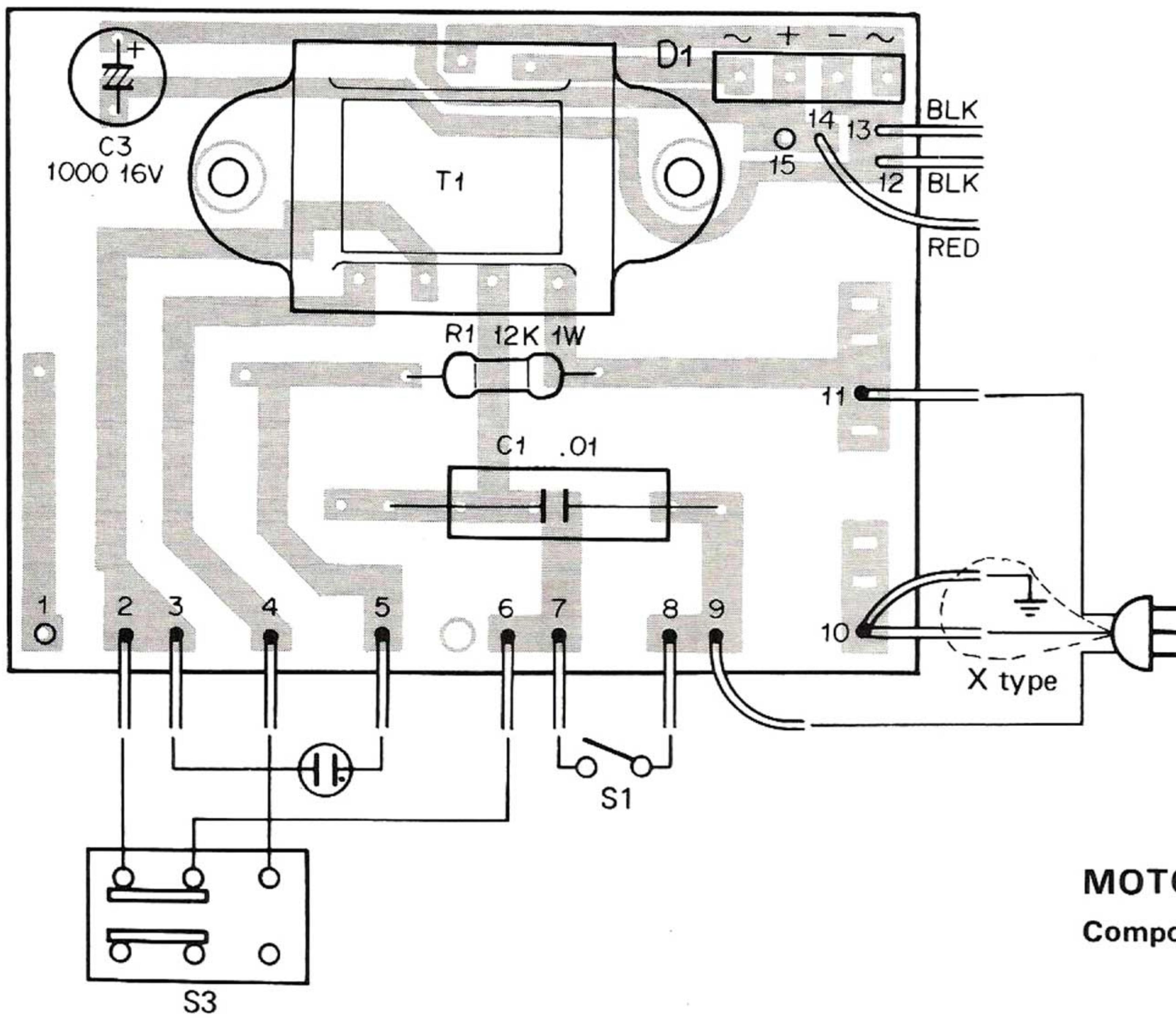


Description	Parts No.
Lubriplate grease	W01-9996-09
Silicone grease	W01-9990-00
Adhesive	W01-9993-09

PC BOARD

POWER SUPPLY (X27-1400-02~06)

Component Side View

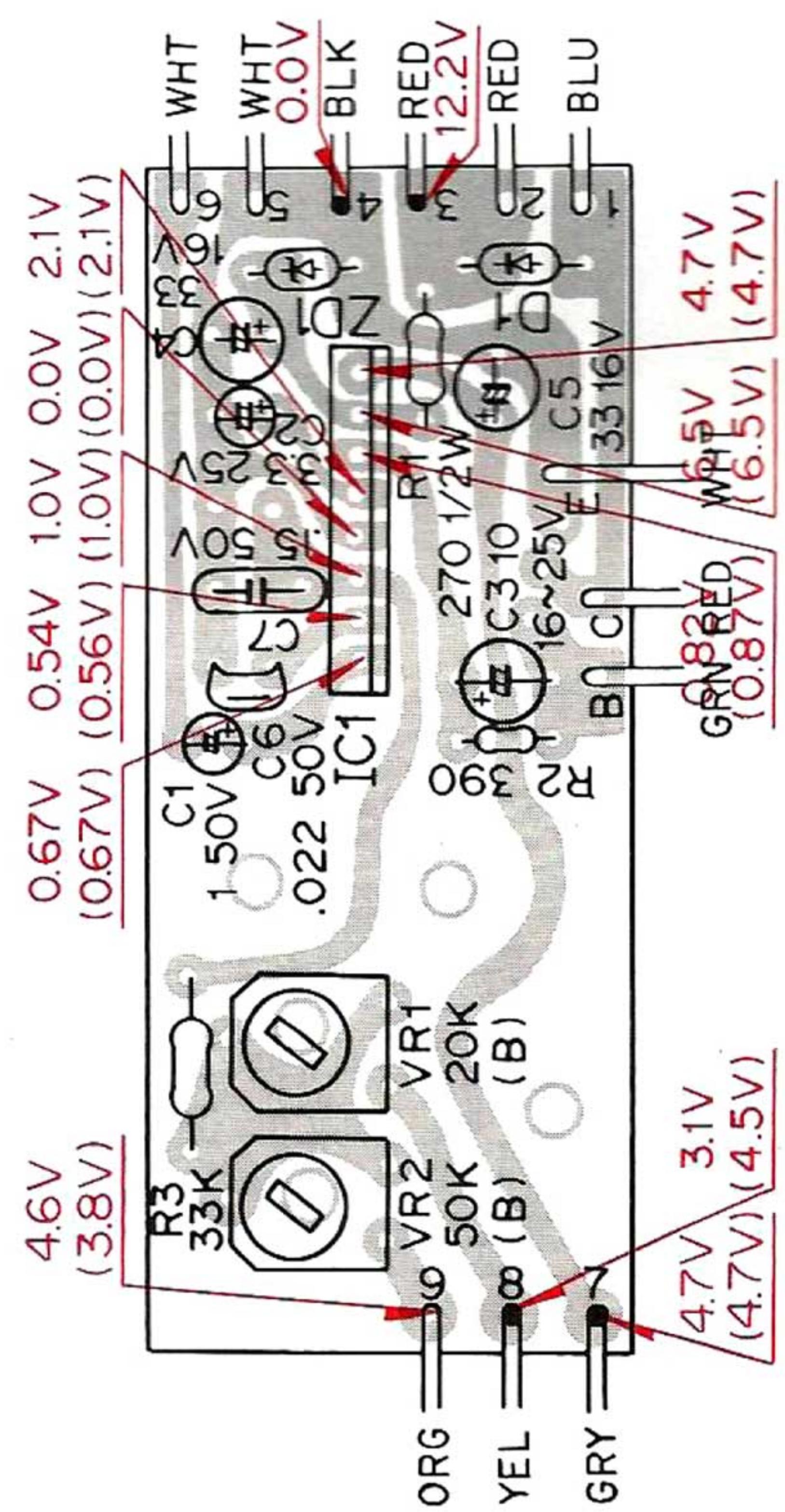
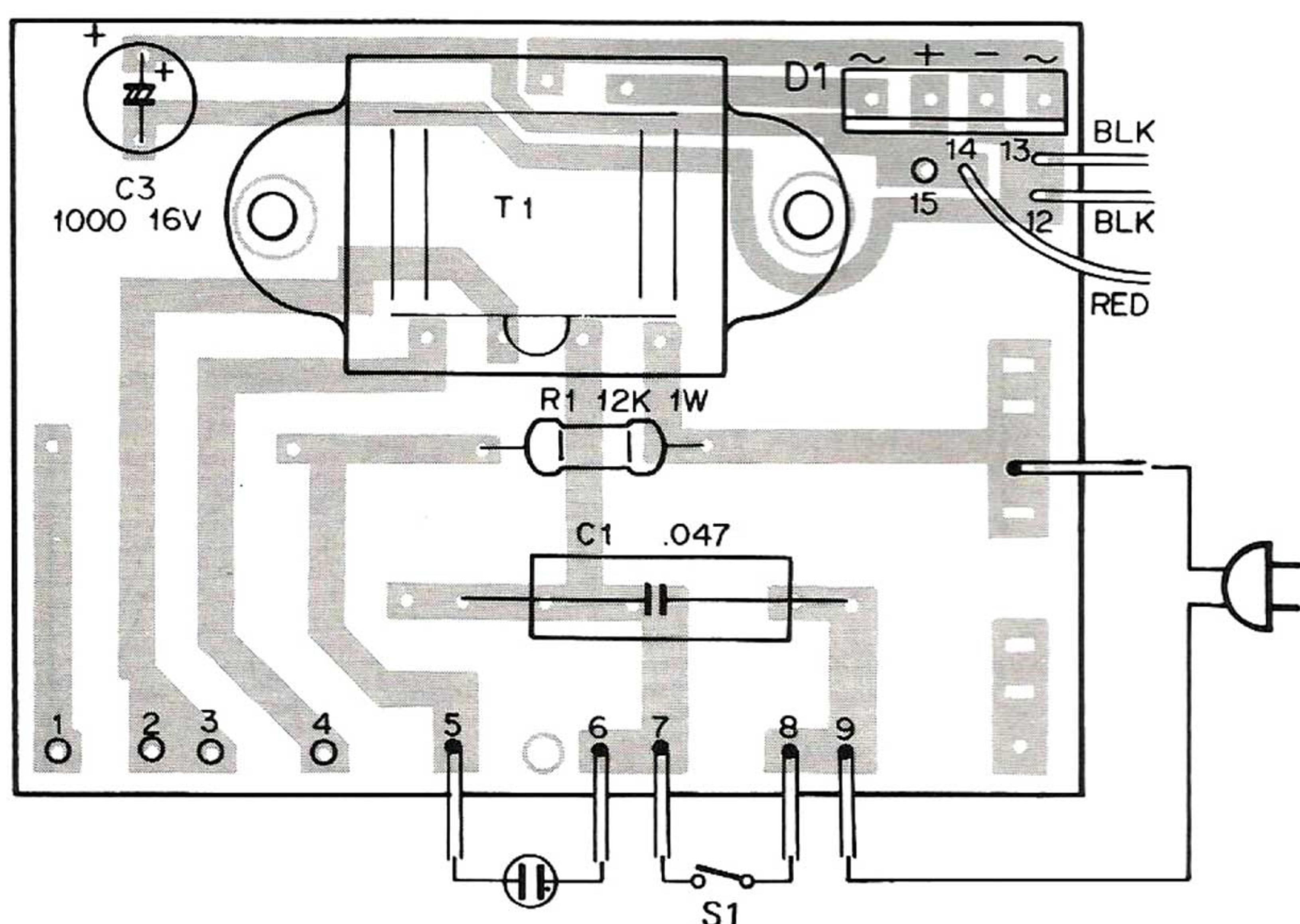


MOTOR (T42-0109-08)

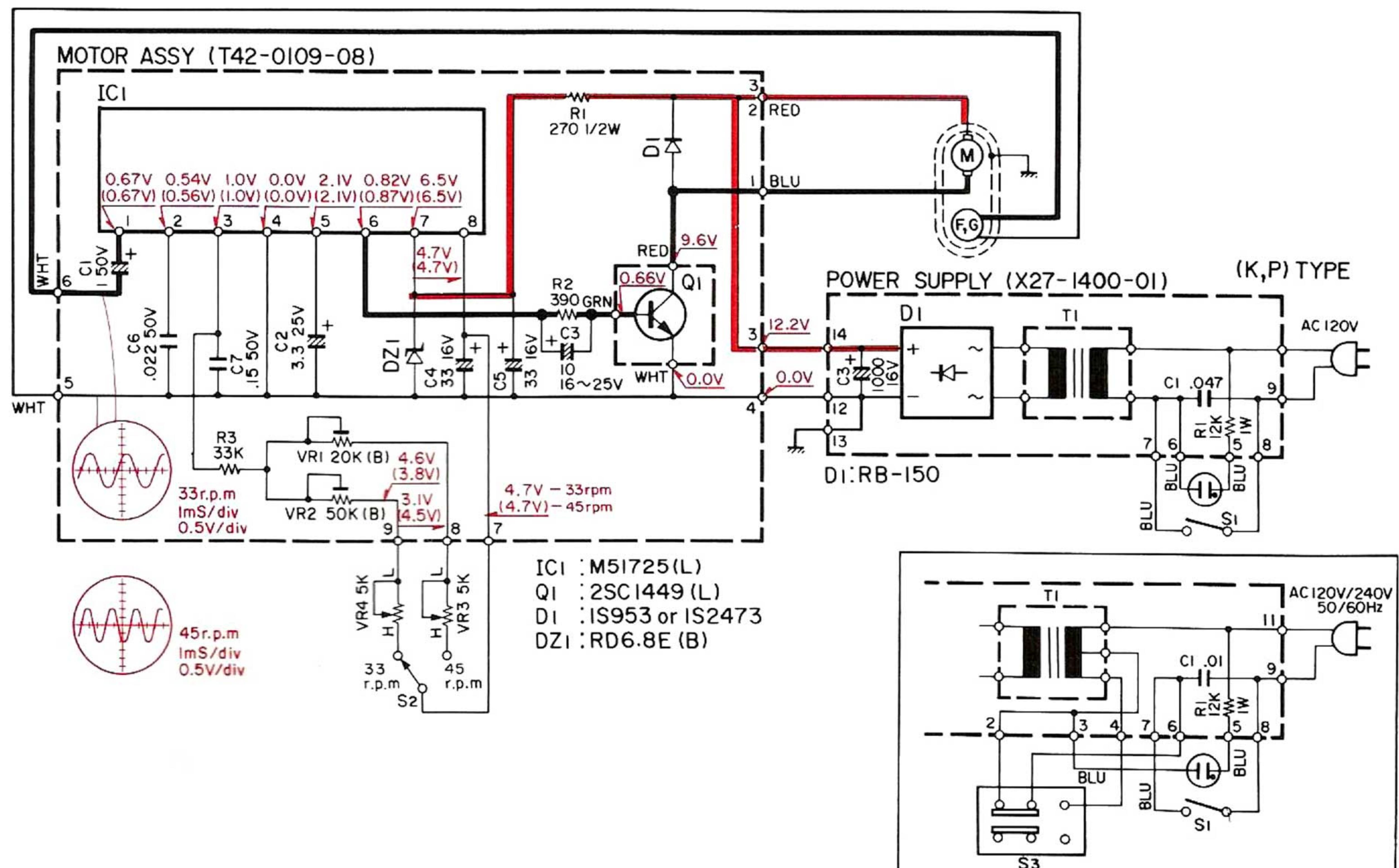
Component Side View

POWER SUPPLY (X27-1400-01, -07)

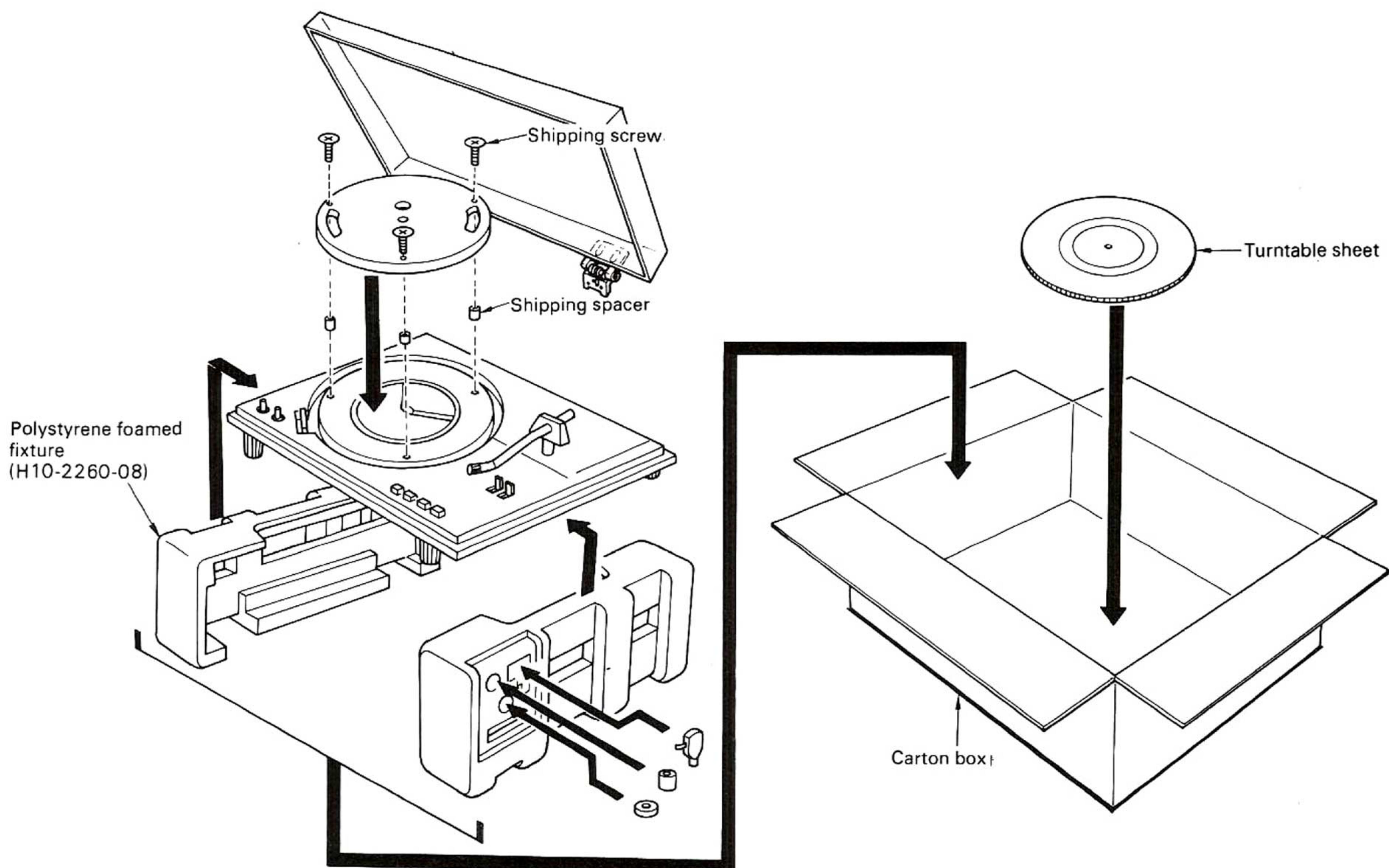
Component Side View



SCHEMATIC DIAGRAM/PACKING



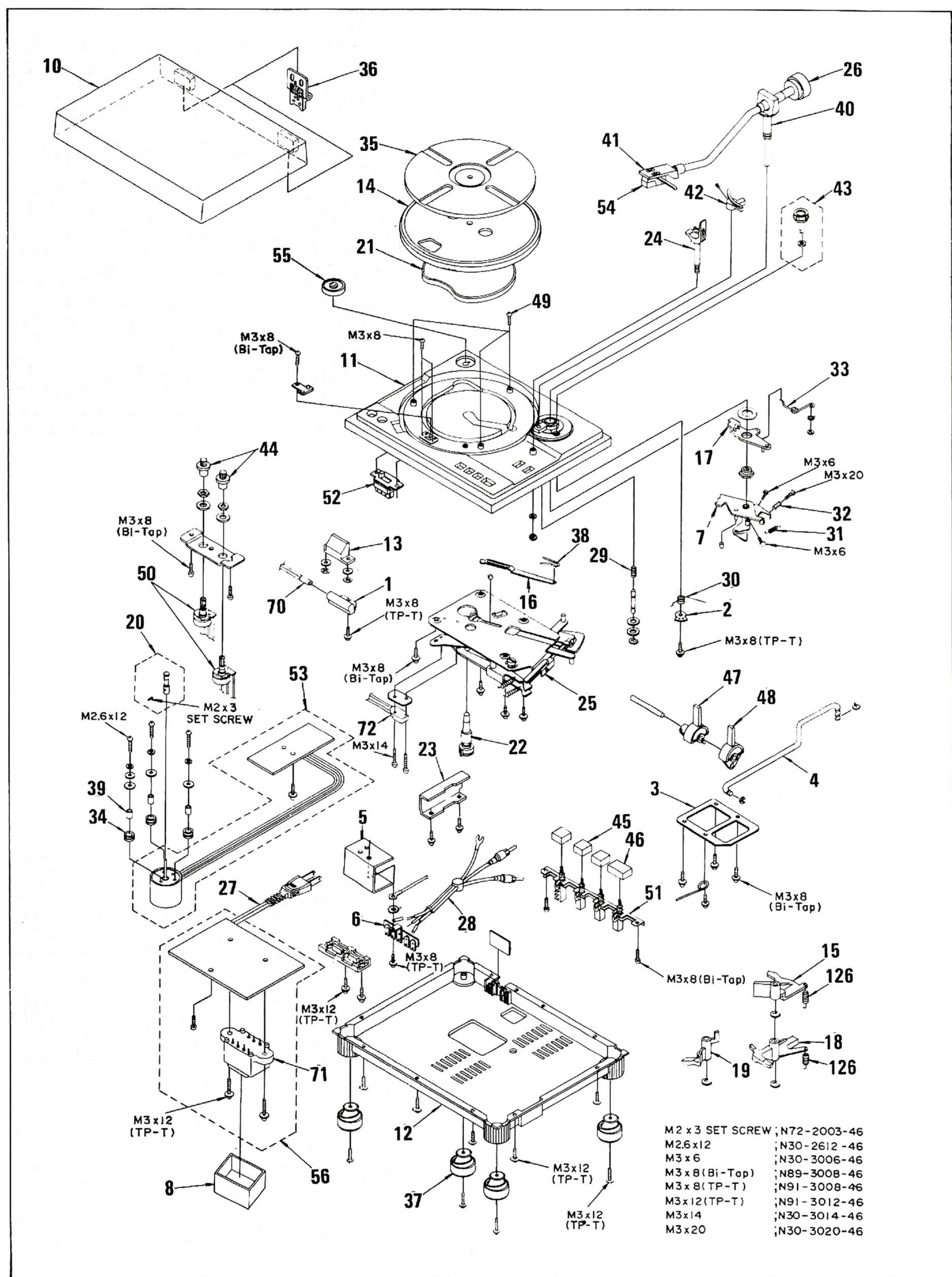
PACKING



EXPLODED VIEW

A

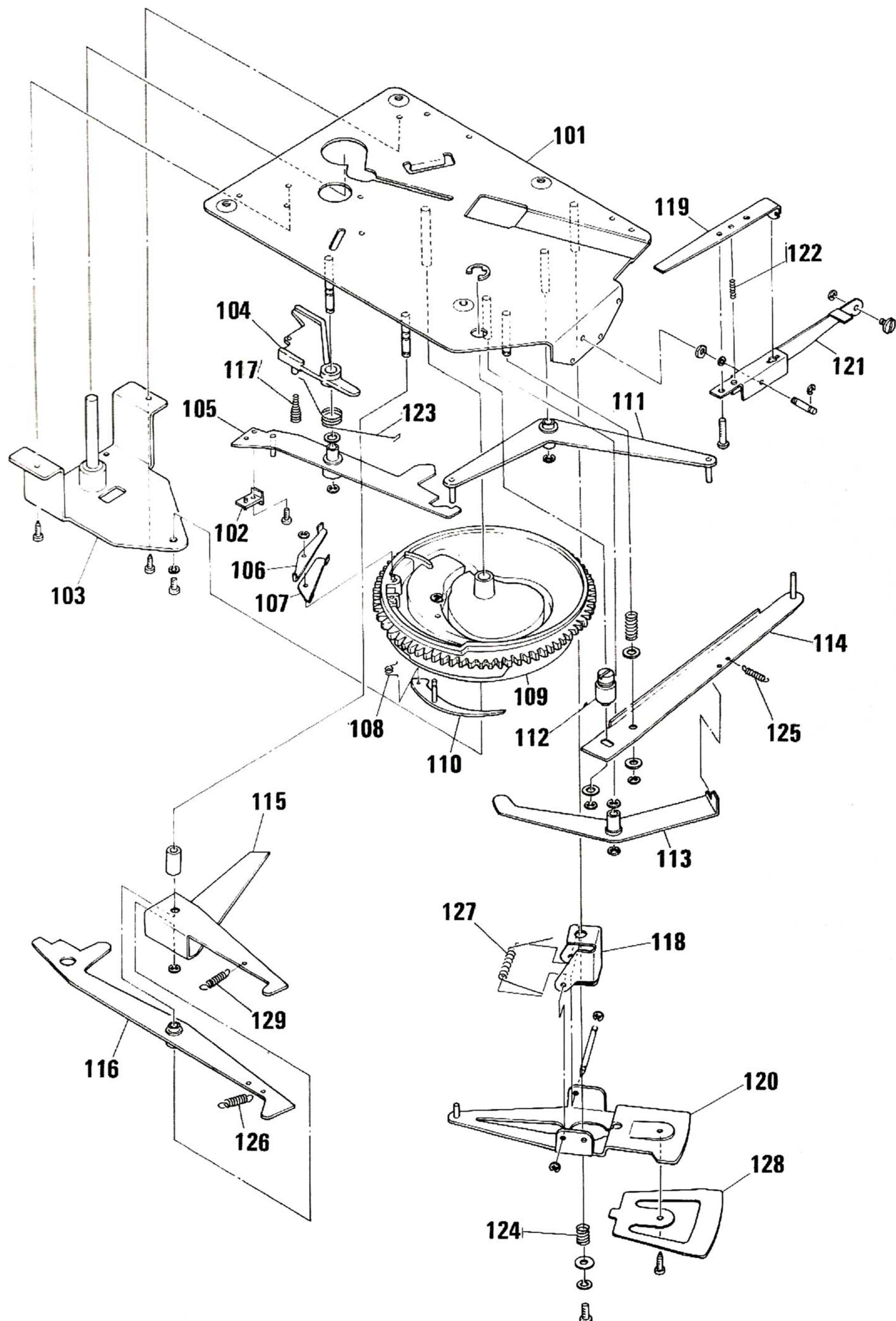
B



EXPLODED VIEW

C

D



PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re- marks 備考
KD-2100			
1 2A	-	LAMP HOLDER	
2 2B	-	I.F.C. CAM	
3 2B	-	LEVER ANGLE	
4 2B	-	SELECTOR LOAD	
5 2A	-	SHIELD PLATE	
6 3A	-	LUG TYPE TERMINAL ASSY	
7 2B	-	TRAVEL BASE	
8 3A	-	SHIELD CASE	
9 1A	-	SWITCH STOPPER	
10 1A	A53-0321-08	TURNTABLE COVER	*
11 1A	A02-0330-08	CABINET BOARD	*K
11 1A	A02-0330-08	CABINET BOARD	MS
11 1A	A02-0330-08	CABINET BOARD	WX
11 1A	A02-0330-08	CABINET BOARD	UP
11 1A	A02-0330-08	CABINET BOARD	LH
11 1A	A02-0330-08	CABINET BOARD	T
12 3A	A40-0544-08	BOTTOM CASE	*
-	B42-0009-04	PASSED STICKER	
-	B46-0055-20	WARRANTY CARD	P
-	B46-0060-00	WARRANTY CARD	
-	B46-0061-20	WARRANTY CARD	K
-	B46-0062-20	WARRANTY CARD	UH
-	B46-0063-00	WARRANTY CARD	U
-	B46-0064-00	WARRANTY CARD	X
-	B50-2373-00	INSTRUCTION MANUAL	*K
-	B50-2373-00	INSTRUCTION MANUAL	SW
-	B50-2373-00	INSTRUCTION MANUAL	UL
-	B50-2373-00	INSTRUCTION MANUAL	H
-	B50-2374-00	INSTRUCTION MANUAL	MP
-	B50-2374-00	INSTRUCTION MANUAL	X
-	B50-2375-00	INSTRUCTION MANUAL	T
-	B59-0018-00	SERVICE STATIONS' LIST	U
13 2A	B19-0508-08	STROBO LAMP	*
14 1A	D02-0031-08	TURNTABLE PLATTER	*
15 3B	D10-0848-08	REJECT LEVER	*
16 2B	D10-0849-08	ACTIVATION ARM	*
17 2B	D10-0850-08	SELECTOR	*
18 3B	D12-0226-08	START CAM	*
19 3B	D12-0227-08	REPEAT CAM	*
20 2A	D15-0521-08	PULLEY ASSY	*
21 1A	D16-0227-08	BELT	*
22 2B	D23-0525-08	TURNTABLE RETAINER ASSY	*
23 2A	D32-0315-08	STOPPER	*
24 1B	D39-0151-08	TONEARM REST	*
25 2B	D40-0483-08	MECHANISM ASSY	*
26 1B	D91-0122-08	WEIGHT ASSY	*
27 3A	E30-0181-05	POWER CORD	KM
27 3A	E30-0181-05	POWER CORD	UP
27 3A	E30-0185-05	POWER CORD	X
27 3A	E30-0459-05	POWER CORD	WL
27 3A	E30-0459-05	POWER CORD	H
27 3A	E30-0587-05	POWER CORD	ST
28 3A	E30-1332-05	AUDIO CORD	
29 2B	G01-0763-08	ELEVATION SPRING	*
30 2B	G01-0764-08	I.F.C. SPRING	*
31 2B	G01-0765-08	ARM SPRING	*
32 2B	G01-0766-08	LOCK SPRING	*
33 1B	G09-0217-08	CLICK SPRING	*

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re- marks 備考
34 2A	G13-0465-08	RUBBER CUSHION	*
35 1A	G16-0324-03	TURNTABLE SHEET	K
35 1A	G16-0337-03	TURNTABLE SHEET	*M
35 1A	G16-0337-03	TURNTABLE SHEET	ST
35 1A	G16-0337-03	TURNTABLE SHEET	WX
35 1A	G16-0337-03	TURNTABLE SHEET	UP
35 1A	G16-0337-03	TURNTABLE SHEET	LH
-	H01-2398-08	CARTON BOX	W
-	H01-2399-08	CARTON BOX	T
-	H01-2400-08	CARTON BOX	P
-	H01-2401-08	CARTON BOX	*K
-	H01-2401-08	CARTON BOX	MS
-	H01-2401-08	CARTON BOX	XU
-	H01-2401-08	CARTON BOX	LH
-	H10-2266-08	POLYSTYRENE FOAMED	*
-	H25-0078-04	POLYETHYLENE BAG	
-	J31-0443-08	SHIPPING SPACER	*
-	J50-0317-08	HINGE ASSY	*
36 1A	J02-0337-08	INSULATOR ASSY	*
37 3A	J12-0316-08	SNAP PIN	*
38 2B	J31-0442-08	COLLAR	*
39 2A	J91-0146-08	PU ASSY	*M
40 1B	J91-0146-08	PU ASSY	SW
40 1B	J91-0146-08	PU ASSY	XU
40 1B	J91-0146-08	PU ASSY	LH
40 1B	J91-0147-08	PU ASSY	KP
41 1B	J92-0057-05	HEAD SHELL	T
42 1B	J99-0209-08	ELEVATION PLATE	*
43 1B	K21-0613-08	I.F.C. KNOB ASSY	*
44 2A	K23-0650-08	KNOB(SPEED)	*
45 2B	K29-0695-08	KNOB(PUSHBUTTON)	*
46 2B	K29-0696-08	KNOB(PLAY)	*
47 2B	K29-0697-08	KNOB(CUE)	*
48 2B	K29-0698-08	KNOB(SELECT)	*
49 1B	N09-0919-08	SHIPPING SCREW	*
VR1 2	R01-2302-08	TRIMMING POT 5K FIG50	*
S1 3B	S42-4303-08	PUSH SWITCH FIG51	*
S3 2A	S31-2308-08	SLIDE SWITCH FIG52	WL
S3 2A	S31-2308-08	SLIDE SWITCH FIG52	H
S3 2A	S31-2309-08	SLIDE SWITCH FIG52	MS
S3 2A	S31-2309-08	SLIDE SWITCH FIG52	XU
53 2A,3A	T42-0109-08	MOTOR ASSY	*
54 1B	T21-0067-05	CARTRIDGE V39MK3	MS
54 1B	T21-0067-05	CARTRIDGE V39MK3	WX
54 1B	T21-0067-05	CARTRIDGE V39MK3	UL
54 1B	T21-0067-05	CARTRIDGE V39MK3	H
55 1A	W01-0322-08	EP ADAPTER	*
56 3A	X27-1400-01	POWER SUPPLY PCB ASSY	*K
56 3A	X27-1400-02	POWER SUPPLY PCB ASSY	MU
56 3A	X27-1400-03	POWER SUPPLY PCB ASSY	S
56 3A	X27-1400-04	POWER SUPPLY PCB ASSY	T
56 3A	X27-1400-05	POWER SUPPLY PCB ASSY	WL
56 3A	X27-1400-05	POWER SUPPLY PCB ASSY	H
56 3A	X27-1400-06	POWER SUPPLY PCB ASSY	X
56 3A	X27-1400-07	POWER SUPPLY PCB ASSY	P
POWER SUPPLY (X27-1400-xx)			
70 2A	B30-0726-08	NEON LAMP	*K

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re- marks 備考
70 2A	B30-0726-08	NEON LAMP	MS
70 2A	B30-0726-08	NEON LAMP	TW
70 2A	B30-0726-08	NEON LAMP	XU
70 2A	B30-0726-08	NEON LAMP	LH
70 2A	B30-0733-08	NEON LAMP	P
C1	C90-0339-08	ELECTRO 1000UF 16WV	*
C2	C91-0335-08	FILM 0.047UF 200VAC	K
C2	C91-0336-08	FILM 0.047UF 125VAC	P
C2	C91-0337-08	FILM 0.047UF	MS
C2	C91-0337-08	FILM 0.047UF	WX
C2	C91-0337-08	FILM 0.047UF	UL
C2	C91-0337-08	FILM 0.047UF	H
C2	C91-0338-08	FILM 0.022UF	T
T1	L01-6301-08	POWER TRANSFORMER FIG71	*K
T1	L01-6302-08	POWER TRANSFORMER FIG71	T
T1	L01-6304-08	POWER TRANSFORMER FIG71	MS
T1	L01-6304-08	POWER TRANSFORMER FIG71	WX
T1	L01-6304-08	POWER TRANSFORMER FIG71	UL
T1	L01-6304-08	POWER TRANSFORMER FIG71	H
T1	L01-6307-08	POWER TRANSFORMER FIG71	P
S2 2A	S50-1313-08	SENSITIVE SWITCH FIG72	*K
S2 2A	S50-1313-08	SENSITIVE SWITCH FIG72	P
S2 2A	S50-1314-08	SENSITIVE SWITCH FIG72	MS
S2 2A	S50-1314-08	SENSITIVE SWITCH FIG72	TW
S2 2A	S50-1314-08	SENSITIVE SWITCH FIG72	XU
S2 2A	S50-1314-08	SENSITIVE SWITCH FIG72	LH
D1	V11-5100-90	RB-150	*

MOTOR ASSY (T42-0109-08)

C1	C24-1710-51	ELECTRO 1UF 50WV	
C2	C24-1433-51	ELECTRO 3.3UF 25WV	
C3	C24-1210-61	ELECTRO 10UF 16WV	
C4	C24-1233-61	ELECTRO 33UF 16WV	
C6	C46-1722-35	MYLAR 0.033UF J	
C7	C46-1715-45	MYLAR 0.15UF J	
R1	R43-5327-15	RD 270 J 2H	
VR1	R12-3306-08	TRIMMING POT 20K	*
VR2	R12-4304-08	TRIMMING POT 50K	*
D21	V11-1201-90	RD6.8E	*
D1	V11-9974-05	1S953	
IC1	V30-0431-10	M51725L	*
Q1	V03-1449-00	2SC1449(L)	

AUTOMATIC MECHANISM (D40-0483-08)

101 1D	-	SUB CHASSIS	
102 2C	-	SWITCH LEVER TIP	
103 2C	-	TURNTABLE SHAFT BOARD	
104 1C	-	CLUTCH LEVER	
105 1C	-	SWITCH LEVER(2)	
106 2C	-	CLUTCH PLATE	
107 2C	-	CLUTCH GUIDE	
108 2C	-	TORSION SPRING	
109 2D	-	MAIN GEAR	
110 2D	-	SWITCHING LEVER	
111 1D	-	SWITCH LEVER(1)	
112 2D	-	ECCENTRIC SHAFT	
113 2D	-	SELECTOR GUIDE	
114 2D	-	SELECTOR ARM	
115 2C	-	REPEAT LEVER	
116 3C	-	START LEVER	
117 1C	-	CLUTCH COIL SPRING	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re- marks 備考
118 2D	-	TURNING BASE	
119 1D	-	PUSH-UP LEVER	
120 3D	-	ROTATION PLATE(1)	
121 1D	-	CUE SEESAW	
122 1D	G01-0766-08	LOCK PLATE	*
123 1C	G01-0767-08	CLUTCH LEVER SPRING	*
124 3D	G01-0768-08	SAFTY SPRING	*
125 2D	G01-0769-08	SELECTOR ARM SPRING	*
126 3C	G01-0770-08	START LEVER SPRING	*
127 2D	G01-0771-08	ROTATION PLATE SPRING	*
128 3D	G01-0772-08	ROTATION PLATE(2)	*
129 3C	G01-0773-08	CAM SPRING	*

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

Region	Code
U.S.A.	K
Canada	P
PX	U
Australia	X
Europe	W
England	T
South Africa	S
Other Areas	M
Audio Club	H

PARTS LIST / SPECIFICATIONS

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
②	18 1A	A01-0608-12	METALLIC CABINET
①	19 2A	A20-1979-11	FRONT PANEL ASSY
	19 2A	A20-1979-11	FRONT PANEL ASSY
	19 2A	A20-1979-11	FRONT PANEL ASSY
	19 2A	A20-1979-11	FRONT PANEL ASSY
⑤	R221	R43-1333-15	FL-PROOF RD330 J 2H
	R222	R43-1368-15	FL-PROOF RD680 J 2H
	VR1 2	R12-3301-05	TRIMMING POT, 20K(B)
	VR3 4	R19-4305-05	POTENTIOMETER (OUTPUT)
	VR5 6	R12-2302-05	TRIMMING POT, 5K(B)

① Exploded view drawing No.
 ② Position in exploded view.
 ③ Symbol of new parts.
 ④ Area to which parts are shipped. Example: A20-1979-11 is the parts No. of FRONT PANEL ASSY for the "K" type products (for USA).
 When this column is blank, it means that the same type of parts (same parts No.) are used for the products shipped to all areas.
 ⑤ Reference No. in schematic diagram.
 ⑥ Abbreviation of "Flame proof metal oxide film resistor". All capacitors and resistors are listed using abbreviations
 Abbreviations
 * Abbreviations of capacitors (Parts No. with initial letter "C").
 ELECTRO Electrolytic capacitor
 LL-ELEC Low leak electrolytic capacitor
 NP-ELEC Non-pole electrolytic capacitor
 MICA Mica capacitor
 POLYSTY Polystyrene capacitor
 MYLAR Mylar capacitor
 CERAMIC Ceramic capacitor
 TANTAL Tantalum capacitor
 MF Metallized film capacitor
 OIL Oil capacitor
 The unit "UF" is used in lieu of "μF"
 * Abbreviations of resistors (Parts No. with initial letters "R").
 RC Carbon composition resistor
 RD Carbon film resistor
 FL-PROOF RD Flame-proof carbon film resistor
 RW Wire wound power resistor
 FL-PROOF RS Flame-proof metal oxide film resistor
 RN Metal film resistor
 FUSE-RESIST Resistor with fuse function
 2B Rated wattage 1/8W
 2E Rated wattage 1/4W
 2H Rated wattage 1/2W
 3A Rated wattage 1W
 3D Rated wattage 2W
 3F Rated wattage 3W
 3G Rated wattage 4W
 3H Rated wattage 5W
 All resistor values are indicated with the unit (Ω) omitted.
 * Abbreviations common to capacitors and resistors.
 C ±0.25pF (Used for capacitors only)
 D ±0.5pF (Used for capacitors only)
 F ±1%
 G ±2%
 J ±5%
 K ±10%
 M ±20%
 Z +80%.-20% (Used for capacitors only)
 P +100%.-0% (Used for capacitors only)
 Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

SPECIFICATIONS

MOTOR & TURNTABLE

Drive System	Belt-Drive
Motor	Frequency Generator Servo DC Motor
Turntable Platter	31 cm (12-3/16")Diameter, Aluminum Alloy Die-Cast.
Speeds	Weight 0.7 kg (1.54 lbs) 2 Speeds, 33-1/3 and 45 rpm
Speed Control Range	Within ±3%
Wow & Flutter	Less than 0.04% (WRMS)
Rumble	DIN weighted better than -67 dB

TONEARM

Type	Static-Balance Type, S-Shaped Tubular Arm, EIA Plug-in Connector.
Effective Tonearm Length	213 mm (8-3/8")
Overhang	14 mm (9/16")
Tracking Error	+0°19' ~ -1°10'
Stylus Pressure Variable Range	0 to 3 grams
Usable Cartridge Weight	5 to 10 grams (with supplied headshell)

CARTRIDGE

(U.S.A., Canada and U.K. Models are not equipped with the V-39MKIII cartridge.)	Furnished Cartridge	V-39MKIII (Moving Magnet Type)
Stylus	N-39MKIII with 0.5 mil Diamond	
Frequency Response	20 Hz to 20,000 Hz	
Output Voltage	2.3 mV (1,000 Hz, 5 cm/sec.)	
Optimum Tracking Force	1.5 + 0.3. -0 gram	
Load Impedance	47k ohms	
Replacement Stylus	N-39MKIII	

ADDITIONAL FEATURES

Full-Automatic Tonearm system (Automatic Lead-in/Return/Cut/Repeat), Illuminated Stroboscope, Anti-Skating Device, Oil-Damped Cueing Device, Independent Fine Speed Adjustable Controls, Headshell and 45 rpm Adaptor Stand, Stylus Pressure Direct Readout Counter, Built-in Insulators.
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MISCELLANEOUS

Power Requirements	AC 120V, 60 Hz: U.S.A. and Canada Models
	AC 240V, 50 Hz: U.K. Model
	AC 120V/220V, 50/60 Hz (Switchable): European and Military Models
	AC 120V/240V, 50/60 Hz (Switchable): Other Countries
Power Consumption	3.0 watts
Dimensions	W 440 mm x H 135 mm x D 360 mm W 17-5/16" x H 5-5/16" x D 14-3/16"
Weight	5.5 kg (12.1 lbs)

SUPPLIED ACCESSORIES

45 rpm Adaptor Overhang Gauge (U.S.A., U.K. and Canada Models Only)

CABINET

Material	Construction of the cabinet is of injection-molded high-impact polyester resin.
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