

<ART-058-0>

# **SERVICE MANUAL**

**STEREO TURNTABLE**

# **PL-A45D**

**PVT, PV, P, KT**

<74E03M41K>

 **PIONEER®**

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# 1. SPECIFICATIONS

## 1.1 SPECIFICATIONS (P. PV. PVT model)

### MOTOR AND TURNTABLE

Motor ..... 4-pole synchronous motor  
Turntable drive ..... Belt-driven  
Speed ..... Two speeds, 33-1/3 rpm and 45 rpm  
Speed accuracy ..... 1.0% or less  
Wow and flutter ..... 0.1 (WRMS) or less  
S/N ..... 47dB or more  
Turntable platter ..... 30cm (12") diameter aluminum alloy

### TONARM

Tonearm type ..... Static balance type, pipe arm (S-shaped)  
Effective arm length ..... 221mm  
Furnished cartridge ..... PIONEER PC-30 (induced magnet type)

### MISCELLANEOUS

Power requirements ..... AC220 ~ 240V, 110 ~ 120V,  
60Hz or 50Hz  
Power consumption ..... 19W (MAX.)  
Dimensions ..... 480(W) x 172(H) x 415(D)mm  
18 - 7/8 (W) x 6 - 25/32(H) x 16 - 3/8(D)in.  
Weight ..... 11.5kg, (23lb 2oz)

### SUBFUNCTIONS

Skating force canceler device	Dust cover with free stop hinges
Fully automatic tonearm	Lateral balance control
Light aluminum alloy head shell plug-in type	Hydraulic cueing device

### FURNISHED CARTRIDGE

Type ..... Induced magnet type (PC-30)  
Frequency response ..... 10Hz to 23,000Hz  
Channel separation ..... Better than 20dB at 1,000Hz  
Output voltage ..... 4mV at 1,000Hz (5cm/s or 2ips)  
Load impedance ..... 50k $\Omega$   
Stylus ..... 0.5 mil diamond (PN-30)  
Compliance ..... 8 x 10<sup>-6</sup>cm/dyne at 100Hz (dynamic)  
18 x 10<sup>-6</sup>cm/dyne (static)  
Tracking force ..... 2.2 to 2.8g  
Weight ..... 6g  
Mounting ..... Conforms to the EIA standards 12.7mm (1/2in.)

### ACCESSORIES

Lubricator	1	45-RPM adaptor	1
Screwdrivers	2	Motor pulley	1
Sub weight	1	Rubber bush	1
Operating instructions	1		

#### NOTE:

1. This instruction booklet applies in common to both models PL-A45D with and without a phono cartridge.
2. Specifications and the design subject to possible modification without notice due to improvements.

## 1.2 SPECIFICATIONS (KT model)

### MOTOR AND TURNTABLE

Motor ..... 4-pole synchronous motor  
Turntable drive ..... Belt-driven  
Speed ..... Two speeds, 33-1/3 and 45 rpm  
Speed accuracy ..... 1.0% or less  
Wow and flutter ..... 0.1% (WRMS) or less  
S/N ..... 47dB or more  
Turntable platter ..... 30 cm (12 in) diameter aluminum alloy

### TO NEARM

Tonearm type ..... Static balance type, pipe arm (S-shaped)  
Effective arm length ..... 221 mm

### SUBFUNCTIONS

Skating force canceler device  
Fully automatic tonearm  
Light aluminum head shell plug-in type  
Dust cover with free stop hinge  
Lateral balance control  
Hydraulic cueing device

### FURNISHED ACCESSORIES

Lubricator	1	Operating instructions	1
Screwdrivers	2	EP adaptor	1
Sub counterweight	1	Rubber bush	1

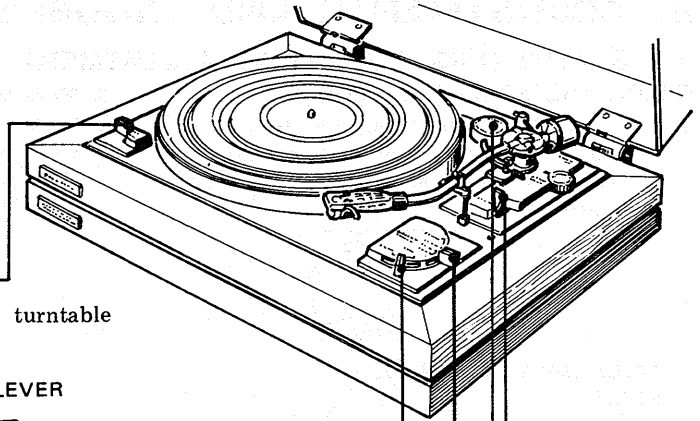
### MISCELLANEOUS

Power requirements ..... AC120V 60Hz  
Power consumption ..... 19W (MAX.)  
Dimensions ..... 480(W) x 172(H) x 415(D) mm  
18 - 7/8(W) x 6 - 25/32(H) x 16 - 3/8(S) in  
Weight ..... 11.5kg (23lb 20z)

#### NOTE:

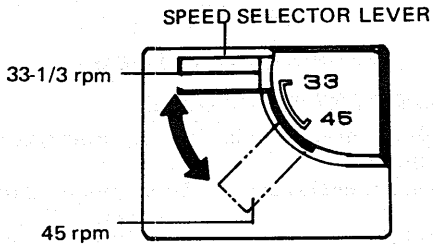
*Specifications and the design subject to possible modification without notice due to improvements.*

## 2. OPERATION



### SPEED SELECTOR LEVER

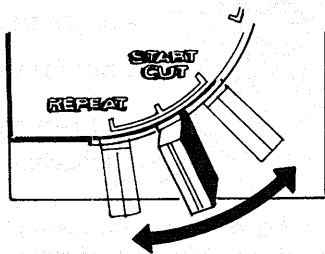
Speed must be reset only while turntable platter is rotating.



### FUNCTION LEVER

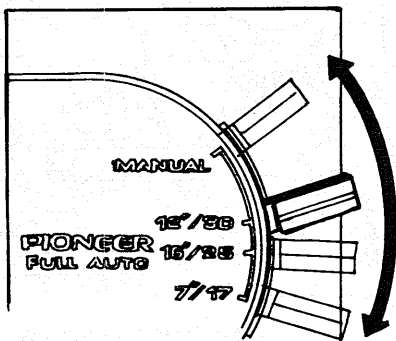
**START/CUT** .... For starting record play and stopping it in midway.

**REPEAT** ..... For playing the same record repeatedly.



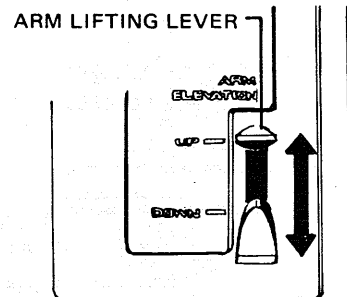
### SELECT LEVER

- MANUAL** ..... For manual operation.
- 12"/30** ..... For playing 12" (30cm)
- 10"/25** ..... For playing 10" (25cm)
- 7"/17** ..... For playing 7" (17cm)



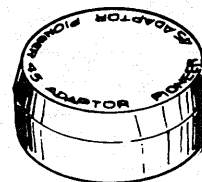
### ARM LIFTING LEVER

This lever is used to lift and lower the tonearm. Setting the lever to the **DOWN** position will quietly float the arm down, and the **UP** position will float the arm up from the record. Normally, the lever should be set to the **DOWN** position.



### EP RECORD ADAPTOR

A 45-rpm adaptor is supplied in the accessory group, which permits EP records to be fitted on the PL-A45 center shaft. When the adaptor is not in use, keep it on the stub located in the upper right of the baseplate.



### 3. ADJUSTMENTS AND TROUBLE-SHOOTING

#### 3.1 STYLUS DROP POINT FINE ADJUSTMENT

##### CHECK THE FOLLOWING POINTS:

1. Refer to Fig. 1. Check that the drop point fine adjustment screw is properly centered in the hole. If not, refer to step 2 in adjustment procedure.

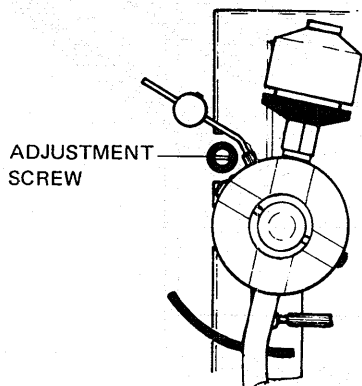


Fig. 1

2. Refer to Fig. 2. Check visually whether the tonearm shaft and the function plate shaft are properly centered and aligned. Also check that the pin is correctly centered in the crescent moon shaped hole to Fig. 3. If these checks reveal some misadjustment, refer to step 3 in the adjustment procedure.

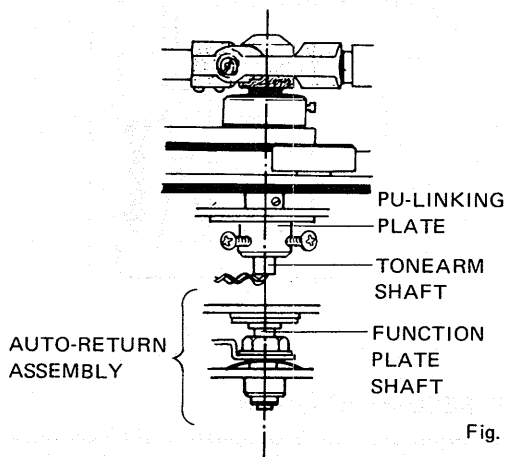


Fig. 2

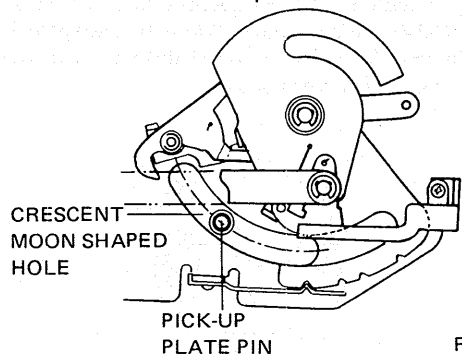


Fig. 3

3. Move the select lever. See Fig. 4. Check that the separated rim of the record size selector plate is not bent or raised above the sub-chassis. Refer to step 5 in adjustment procedure.

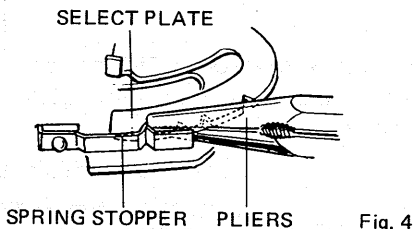


Fig. 4

##### ADJUSTMENT PROCEDURE:

1. Adjust the drop point fine adjusting screw as follows:
 

Counterclockwise:	Drop point shifted outward.
Clockwise:	Drop point shifted inward
2. Refer to Fig. 5. Loosen the two setscrews. Adjust PU-linking plate so that fine adjustment screw is centered in hole. Arm must of course be in rest position.

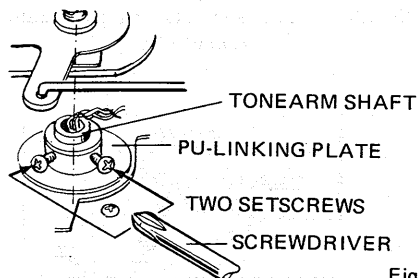


Fig. 5

3. Refer to Fig. 6. Loosen the three adjustment screws, adjust sub-panel assembly so that tonearm shaft and function plate shaft are in exact alignment. Tighten adjustment screws firmly.

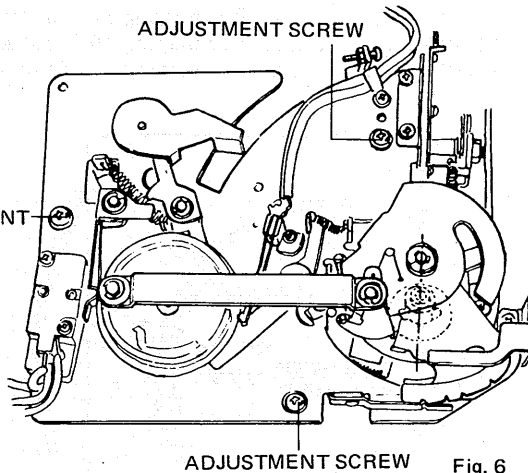


Fig. 6

- Even after adjustments were made according to description on page 4, lock lever and starting lever may not be locked to pick-up plate pin. Refer to Fig. 7. Bend stopper to adjust catch timing of lever A.

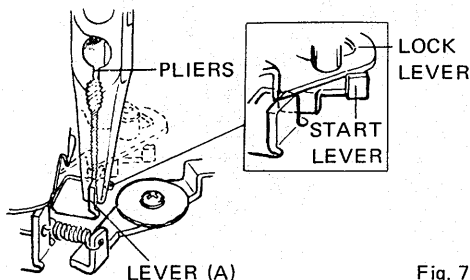


Fig. 7

- If check 3 (see Fig. 4 on page 4) shows that (record size) selector plate is bent, straighten with long nose pliers, etc.
- After any of the above adjustments, the drop point fine adjustment screw must be readjusted once more.

### 3.2 TONEARM DOES NOT RETURN TO ITS REST

- Turn white plastic wheel by hand. Check that lever A (on back movement) engages smoothly with part B. If not, bend tip of lever A until engagement is smooth.
- Refer to Fig. 8. Check that pin A (on return lever) is at same height as stop angle. If necessary, bend stop angle to assure that pin will be arrested by stop angle.

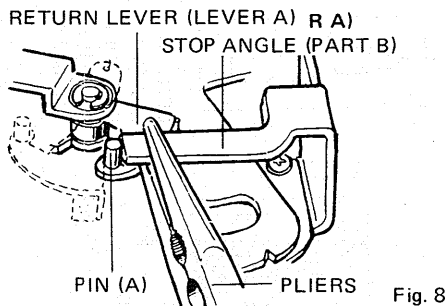


Fig. 8

### 3.3 DROP AND LIFT-OFF HEIGHT OF STYLUS

- Check that the gap between stylus tip and record surface is 10mm when the tonearm is on the elevator. If not, adjust elevator height with the setscrew (Fig. 9).

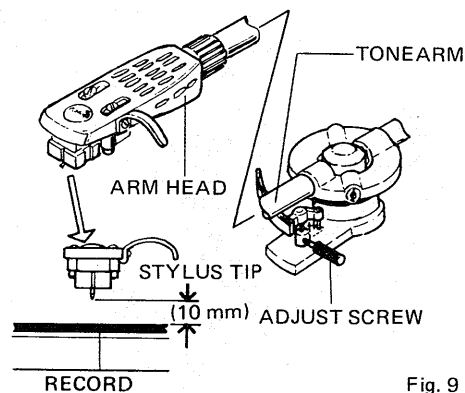


Fig. 9

- Put SELECT lever in any position except MANUAL. Operate ARM LIFTING LEVER slowly a few times. The tonearm must not move up and down. If it moves, see Fig. 10. Loosen setscrew, adjust height of white plastic lifting pin. This pin's height determines the elevator height in DOWN position.

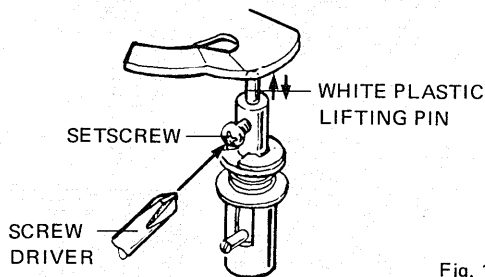


Fig. 10

### 3.4 TONEARM DOES NOT LIFT OFF AT END OF RECORD, OR RETURNS BEFORE END OF RECORD

- See Fig. 11. Adjust pushing screw so that it touches the aluminum plate when the stylus is 65mm from the record center.
- Check that kick pin (see Fig. 12) on bottom of turntable platter is not bent or broken off.

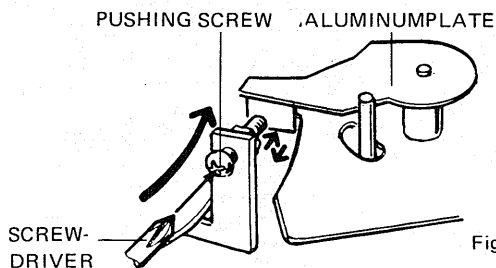


Fig. 11

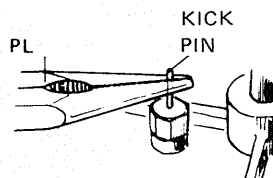


Fig. 12

### 3.5 FAULTY START OF TONEARM OPERATION CYCLE

1. If tonearm does not move smoothly over initial record grooves, see Fig. 13. There may not be enough friction between bracket plate spring and function plate because of dirt or oil.

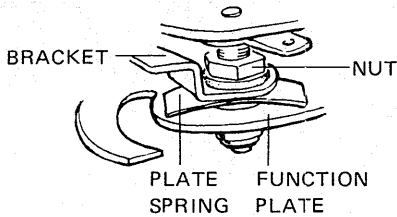


Fig. 13

2. Friction can be adjusted with the hex. nut as follows:

If arm stops on its way to record lead-in grooves, friction must be increased by turning hex. nut upward. Also, clean arm elevator surface.

3. Conversely, if friction is too great, Warren motor will not move at all, making all automatic functions impossible.

In this case, first turn hex. nut upward until Warren motor is stopped. Then lower hex. nut gradually until Warren motor begins to operate. Turn hex. nut another 1/3 to 1/2 turn beyond this point.

### 3.6 SIGNAL SHORTING SWITCH

Refer to Fig. 14. This switch short-circuits the signal output at all times except in PLAY mode. Damage or contamination can cause noise before and after record playing or can interrupt the signal completely.

Contact point gap should be 0.5mm in PLAY condition, in all other modes perfect contact must be made. Adjustments are possible by loosening the setscrew.

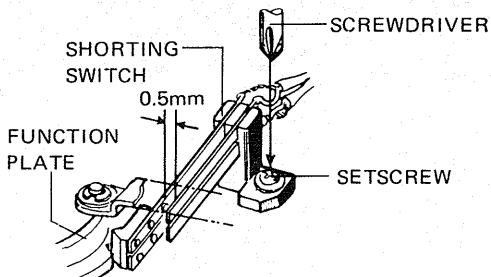


Fig. 14

### 3.7 NO SMOOTH SPEED CHANGEOVER POSSIBLE

See Fig. 15. Belt guide may be bent. Remove turntable platter, examine and repair or replace belt guide, if necessary. Belt guide must also be kept clean.

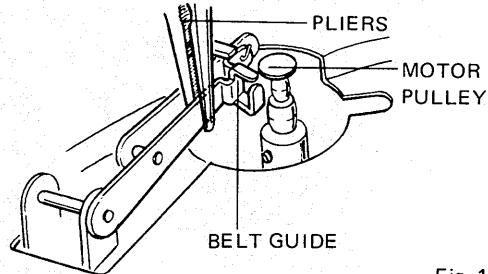


Fig. 15

### 3.8 ADJUSTMENT OF DUST COVER HINGES

Tension of the dust cover hinges can be adjusted by turning the screws on the back of the hinges. See Fig. 16.

Counterclockwise: More tension  
Clockwise: Less tension

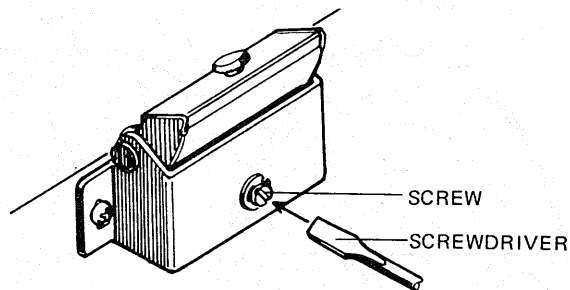
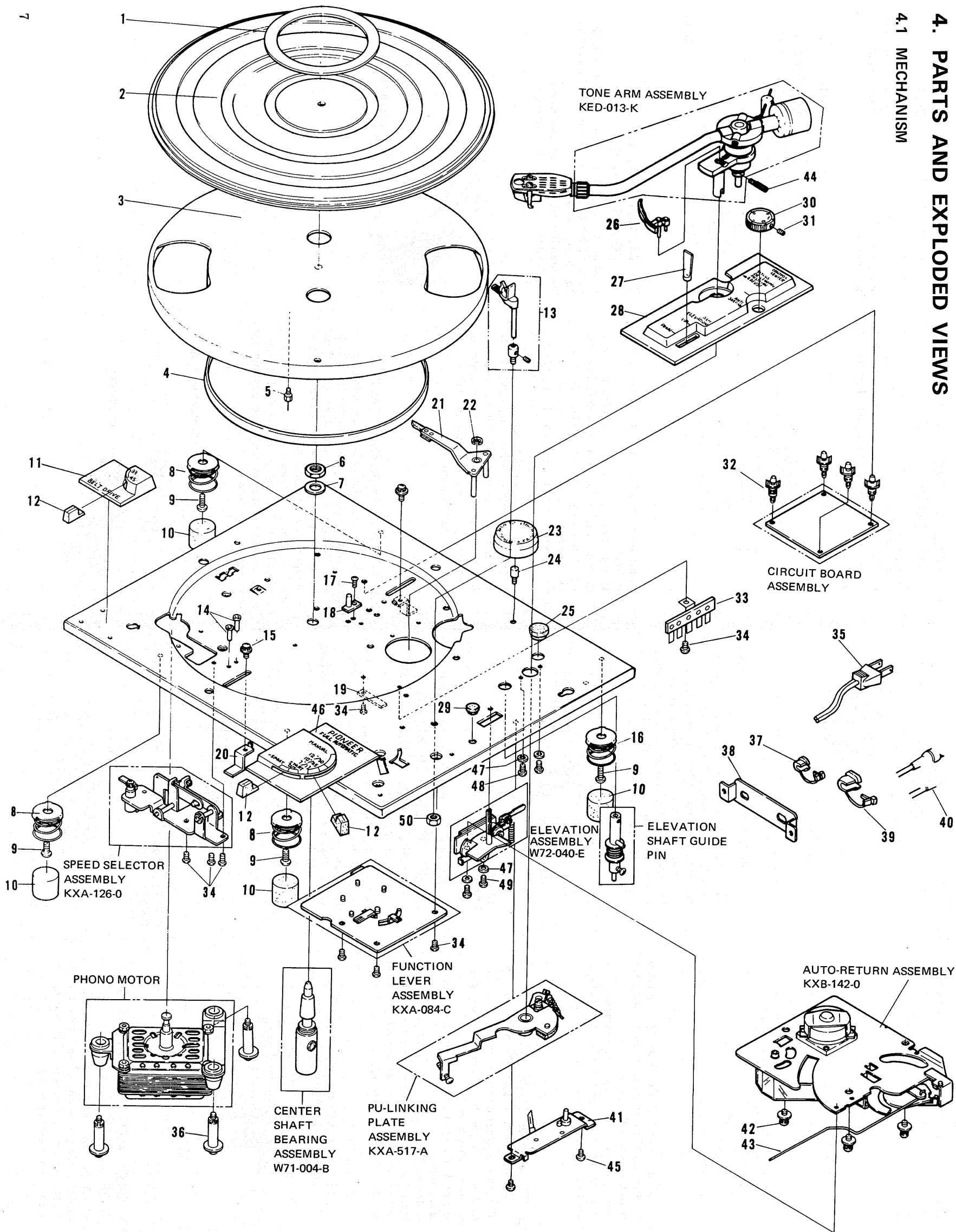


Fig. 16



# 4. PARTS AND EXPLODED VIEWS

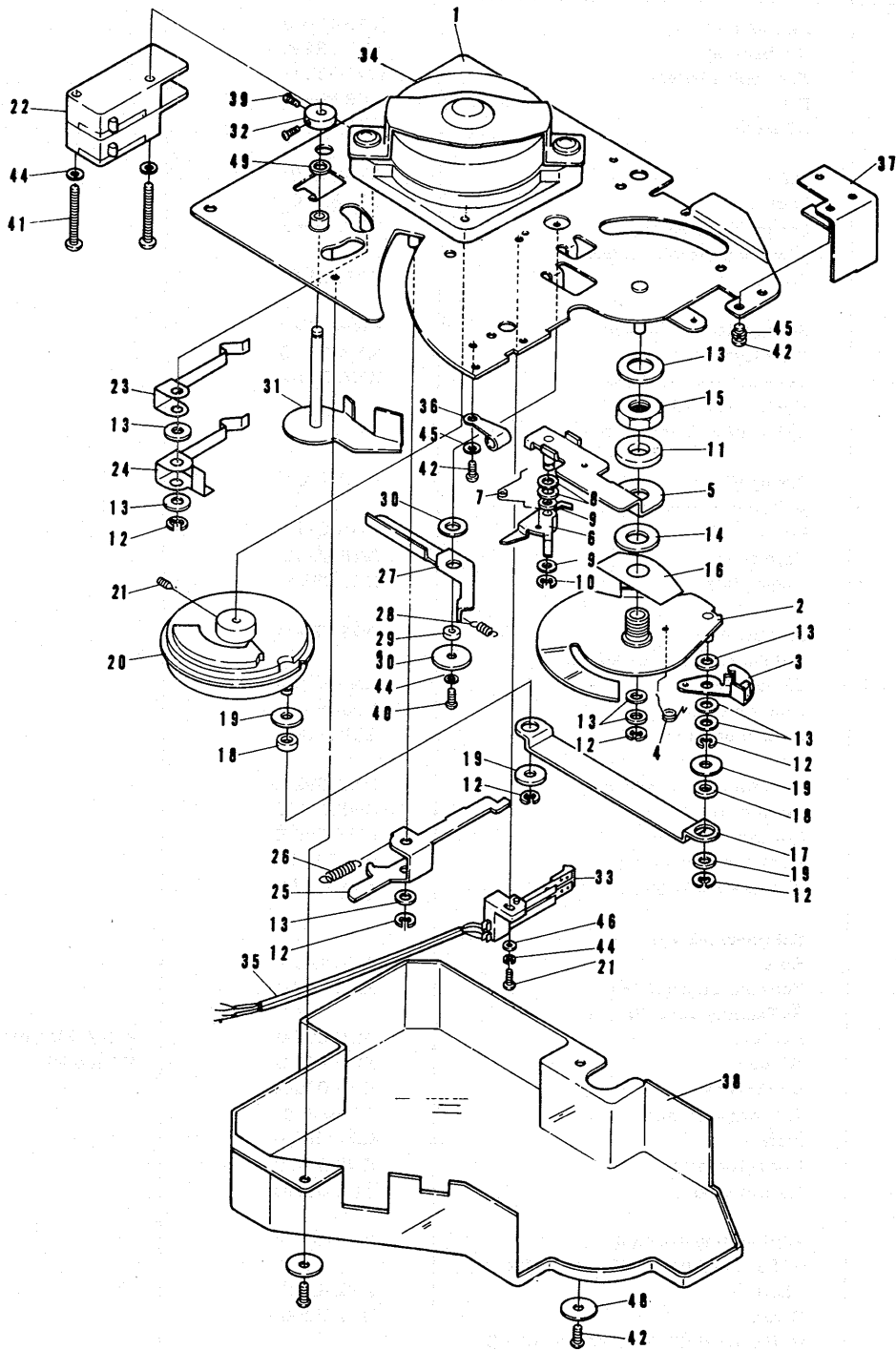
## 4.1 MECHANISM



NOTICE: Any parts asterisked(\*) are subject to being not supplied.

Key No.	Description	Part No.	
1	Rubber mat ring	KAH-003-0	
2	Rubber mat	KEB-034-A	
3	Turntable platter	W71-033-D	
4	Belt	KEB-004-0	
5	Kick pin	W73-640-0	
6	Nut	B71-656-B	
7	Washer	B22-650-0	
8	Spring (C) assembly	KXA-158-B	
9	⊕ M5 x 6 machine screw		
10	Buffer	E33-001-0	
11	Speed selector template	KNK-120-A	
12	Start lever knob	KNK-122-0	
13	Tonearm rest assembly	KXA-241-A	
14	Eyelet 3φ x 13		
15	⊕ Pan head (Sems B) screw M4 x 10		
16	Spring (G) assembly	KXA-208-C	
17	⊕ Tapping screw 3φ x 8		
18	Pin	KNK-071-B	
19*	Cord fixer	M16-606-0	
20*	Angle plate	N61-063-B	
21	Stopper unit	W71-755-D	
22	Retaining washer E-type (E-2)		
23	EP adaptor	KNK-055-B	
24	Adaptor catch	N93-007-B	
25	Rubber grommet (A)	E31-743-A	
26	Elevator arm assembly	KXA-392-A	
27	Elevator lever	KNK-143-0	
28	Control template	KNK-299-B	
29	Rubber grommet (B)	E31-744-0	
30	Anti-skating knob	KAA-013-0	
31	Set screw M3 x 8		
32*	Boss	KNK-186-A	
33	Terminal strip (1L4P)	KKC-008-0	
34	⊕ Tapping screw 3φ x 6		
35	AC cord	KDG-007-0	P. PV, PVT model KT model
	AC cord	KDG-011-0	
36	Motor set screw	KBA-025-A	
37	AC cord grommet	E32-056-0	
38*	Plate	KNA-487-0	
39	Cord grommet	KNK-244-0	
40	Output cord	KDE-022-D	
41	Anti-skating assembly	KXB-162-A	
42	⊕ Pan head (Sems B) screw M4 x 10		
43	Shaft	B33-603-D	
44	Screw	N51-065-0	
45	⊕ Pan head (Sems A) screw M3 x 6		
46	Function lever template	KNK-297-A	
47	Spring washer 3φ		
48	⊕ Machine screw M3 x 8		
49	⊕ Machine screw M3 x 5		
50	Nut M5		

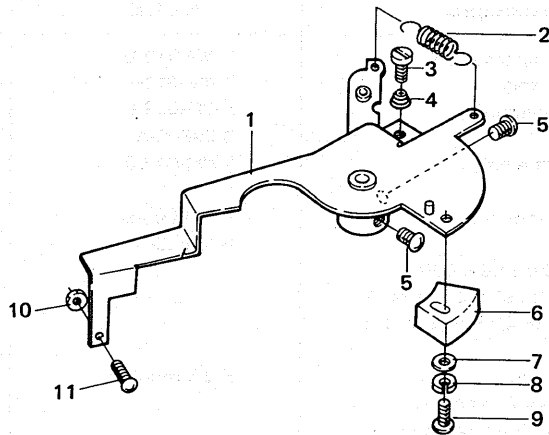
## 4.2 AUTO MECHANISM ASSEMBLY (KXA-142-0)



NOTICE: Any parts asterisked(\*) are subject to being not supplied.

Key No.	Description	Part No.	
1*	Auto-return panel assembly	KWM-010-G	
2*	Cam plate assembly	KWM-011-B	
3	Return lever assembly	KWM-012-C	
4	Spring	B33-609-A	
5*	Starting lever assembly	KWM-013-0	
6*	Lock lever assembly	KWM-005-B	
7	Spring	B33-635-C	
8	Flat washer 3.2 $\phi$ x 6 $\phi$ x 0.5t		
9	Teflon washer 3.2 $\phi$ x 6 $\phi$ x 0.3t		
10	Retaining washer E-type (E-2 1 )		
11*	Rubber washer	KNA-097-0	
12	Retaining washer E-type (E-3)		
13	Teflon washer 4.2 $\phi$ x 8 $\phi$ x 0.5t		
14*	Teflon washer	B23-629-0	
15*	Nut	KLA-159-0	
16*	Plate spring (D)	KNA-099-B	
17*	Crank lever	KNA-100-D	
18	Spacer	W73-660-0	
19	Nylon washer 4.2 $\phi$ x 8 $\phi$ x 0.3t		
20*	Cam unit	KWM-014-D	
21	⊕ M2.6 x 6 machine screw		
22	Microswitch	KSF-009-0	
23	Actuator (A)	KNA-101-A	
24	Actuator (B)	KNA-102-B	
25*	Break lever	KNA-103-A	
26	Spring	KBH-040-0	
27*	Return lever	KNA-104-C	
28	Spring	KBH-027-B	
29*	Return lever hub	KLA-068-B	
30	Washer	KNA-170-0	
31	Aluminum plate assembly	KWM-015-A	
32	Retaining collar	N51-786-B	
33	Switch	KSN-001-A	
34	Warren motor	KXM-037-0	
35*	Cable	KDA-006-0	
36*	Cable clamp	K16-602-0	
37*	Stop angle	KNA-217-0	
38*	Plastic cover	KNK-047-C	
39	⊕ M2.6 x 3 machine screw		
40	⊕ M2.6 x 5 machine screw		
41	⊕ M2.6 x 25 machine screw		
42	⊕ M3 x 5 machine screw		
43			
44			
45	Spring washer 3 $\phi$		
46	Flat washer M2.6		
47			
48	Cushion washer 3.2 $\phi$ x 8 $\phi$ x 0.5t		
49	Teflon washer 3.2 $\phi$ x 8 $\phi$ x 0.3t		

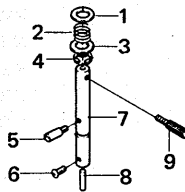
### 4.3 PU-LINKING PLATE ASSEMBLY (KXA-517-A)



NOTICE: Any parts asterisked(\*) are subject to being not supplied.

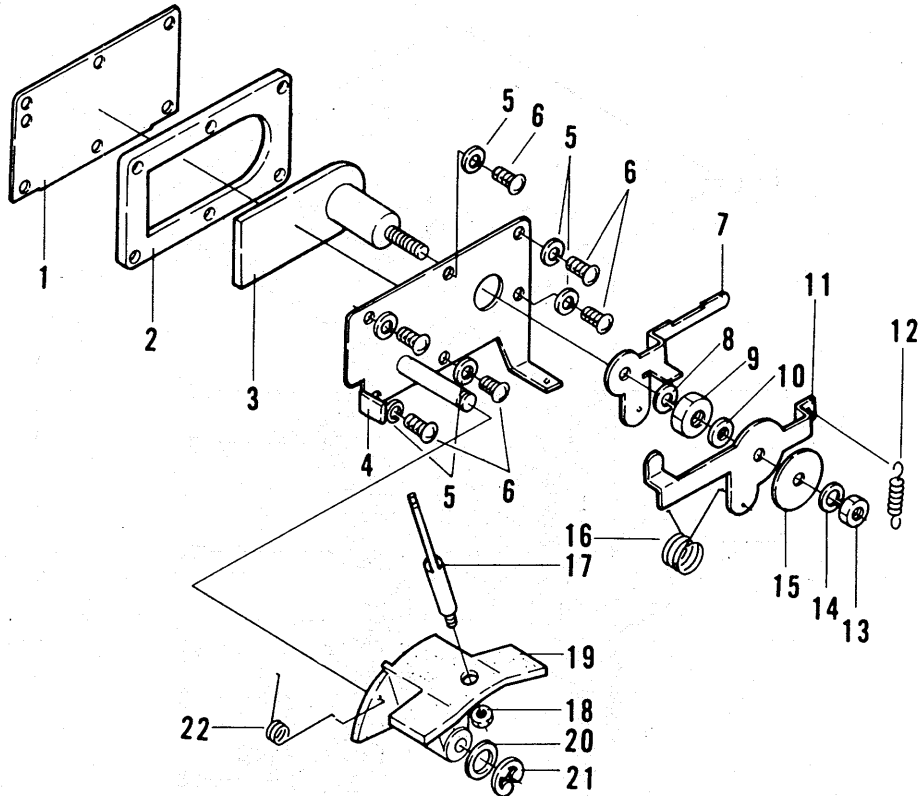
Key No.	Description	Part No.	
1*	PU-linking plate unit	KXA-516-A	
2	Spring	KBH-002-0	
3*	Screw	N54-048-0	
4	Spring	B31-745-B	
5	⊕ M4 x 6 machine screw		
6*	Weight	KNH-078-0	
7	Flat washer 3φ		
8	Spring washer 3φ		
9	⊕ M3 x 10 machine screw		
10	M3 nut		
11	⊕ M3 x 12 machine screw		

### 4.4 ELEVATION SHAFT GUIDE PIN



Key No.	Description	Part No.	
1	Washer (M)	B22-612-0	
2	Spring	B31-645-A	
3	Washer (M)	B22-612-0	
4	Retaining washer E-type		
5	Guide pin	N51-791-A	
6	⊕ M2.6 x 4 machine screw		
7	Elevation shaft	KLA-241-0	
8	Pin	N92-602-0	
9	Screw	N51-065-0	

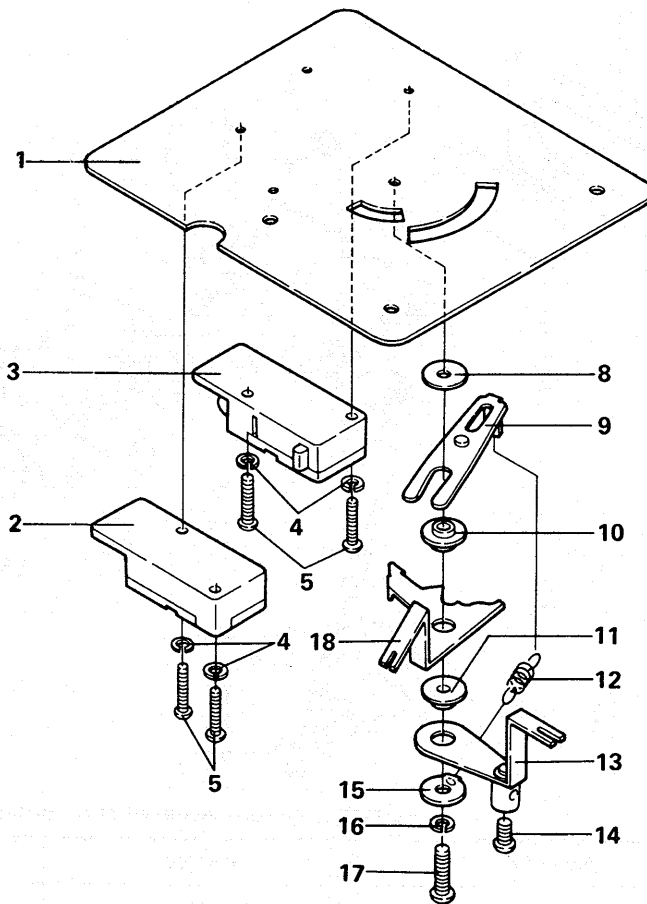
4.5 ELEVATION MECHANISM ASSEMBLY (W72-040-E)



NOTICE: Any parts asterisked(\*) are subject to being not supplied.

Key No.	Description	Part No.	
1*	Elevation plate	N62-799-B	
2*	Rubber cushion	E31-736-A	
3*	Lifter unit	W71-763-B	
4*	Elevator plate assembly	W72-041-0	
5	Spring washer 2φ		
6	⊕M2 x 6 machine screw		
7*	Lever (A) for tonearm elevator	N62-770-0	
8	Spring washer 3φ		
9	Nut	B71-636-0	
10	Spacer	B21-659-0	
11*	Lever (B) for tonearm elevator	N64-013-0	
12	Spring	B31-748-0	
13	M3 nut		
14	Spring washer 3φ		
15	Washer	B21-661-0	
16	Spring	B33-608-B	
17*	Lever	N51-064-B	
18	M2.6 nut		
19*	Elevator cam	N93-035-B	
20	Washer 4.2φ x 8φ x 0.3t		
21	Retaining washer E-type (E-3)		
22	Spring	B31-026-B	

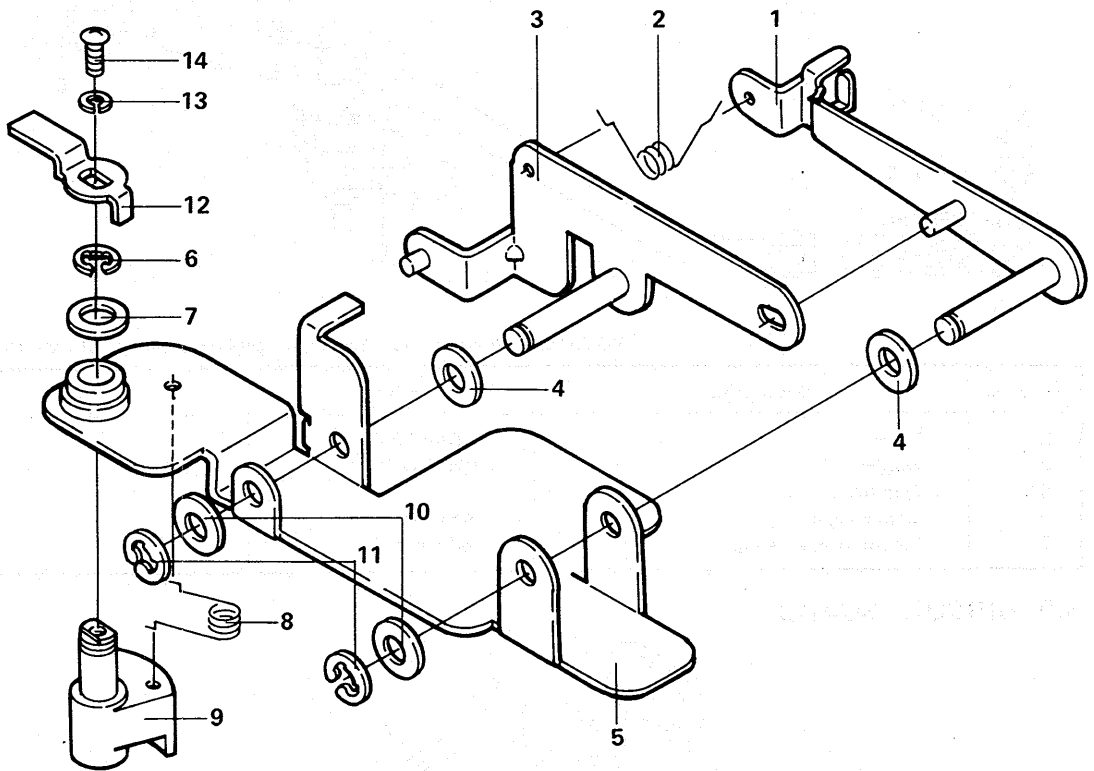
## 4.6 FUNCTION LEVER ASSEMBLY (KXA-084-C)



NOTICE: Any parts asterisked(\*) are subject to being not supplied.

Key No.	Description	Part No.	
1*	Function lever plate	KWM-019-0	
2	Microswitch (A)	KSF-009-0	
3	Microswitch (B)	KSF-010-0	
4	Spring washer 2.6φ		
5	⊕M2.6 x 13 machine screw		
6*			
7*			
8*	Washer	B22-642-0	
9*	Start lever plate	W71-757-0	
10*	Washer	N51-795-0	
11*	Washer	N51-794-0	
12	Spring	B31-746-0	
13*	Selector lever unit	W72-055-C	
14	⊕M3 x 6 machine screw		
15*	Washer	B22-643-0	
16	Spring washer 3φ		
17	⊕M3 x 13 machine screw		
18*	Function lever	KNA-111-0	

4.7 SPEED SELECTOR ASSEMBLY (KXA-126-0)

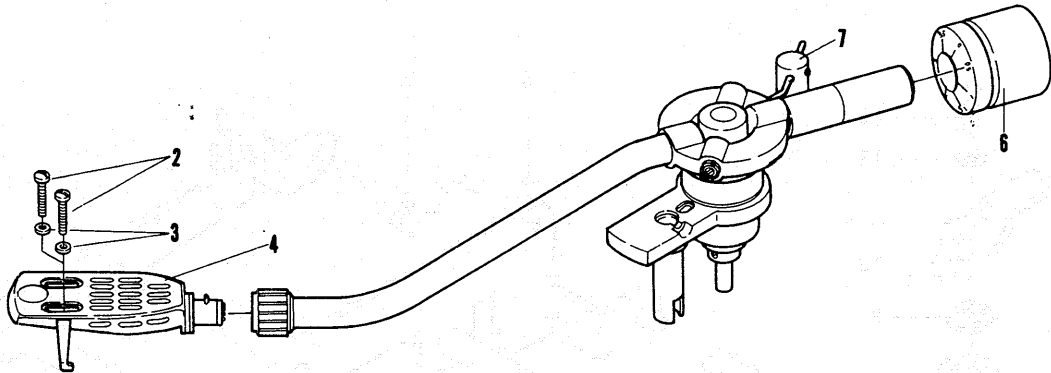


NOTICE: Any parts asterisked(\*) are subject to being not supplied.

Key No.	Description	Part No.
1*	Belt shifter	W72-051-C
2	Spring	B31-028-B
3*	Speed selector plate unit	W72-050-A
4*	Flat washer 4φ	
5*	Speed selector panel unit	W72-049-A
6	Retaining washer (N05103-18)	
7*	Washer	N64-031-A
8	Spring	B31-029-B
9*	Cam unit	W72-052-A
10	Flat washer 4φ	
11	Retaining washer E-type (E-3)	
12*	Speed selector lever	N64-030-B
13	Spring washer 2.6φ	
14	⊕M2.6 x 5 machine screw	



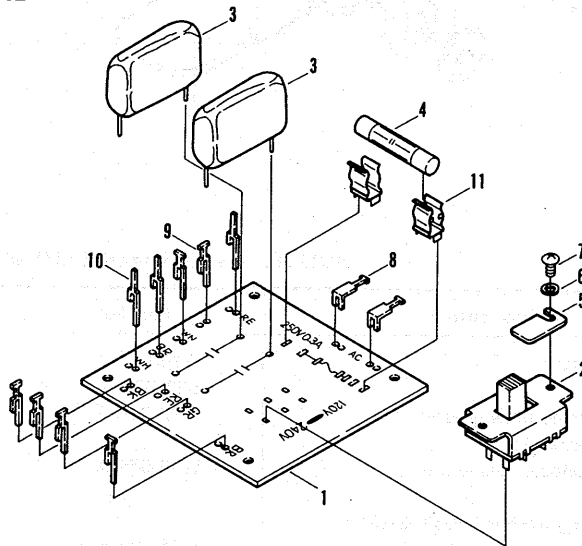
## 4.8 TONEARM ASSEMBLY (KPD-013-K)



NOTICE: Any parts asterisked(\*) are subject to being not supplied.

Key No.	Description	Part No.	
2	Screw	KBA-022-0	
3	Washer	B23-642-0	
4*	Arm head		
6	Main weight	KXA-566-A	
7	Lateral balance weight	KXA-420-B	

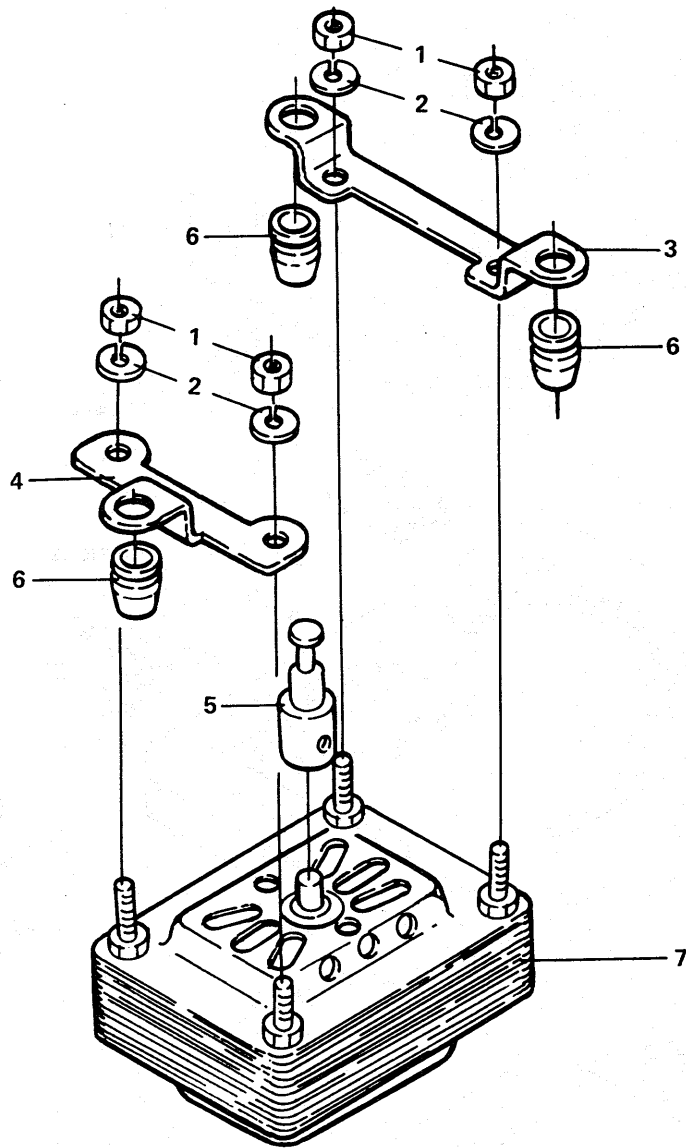
## 4.9 CIRCUIT BOARD



NOTICE: Any parts asterisked(\*) are subject to being not supplied.

Key No.	Description	Part No.	
1	Circuit board	KNP-062-A	
2	Slide switch	KSH-002-0	
3	Capacitor 0.1 $\mu$ F AC 250V UL	KEC-004-0	
4	Fuse (315 mA)	KEK-008-0	
5*	Stopper	M46-687-0	
6	Spring washer 3 $\phi$		
7	⊕M3 x 6 machine screw		
8*	Terminal (A)	K28-003-0	
9*	Terminal (B)	KNK-222-0	
10*	Terminal (C)	K28-005-A	
11	Fuse holder	KKR-001-0	

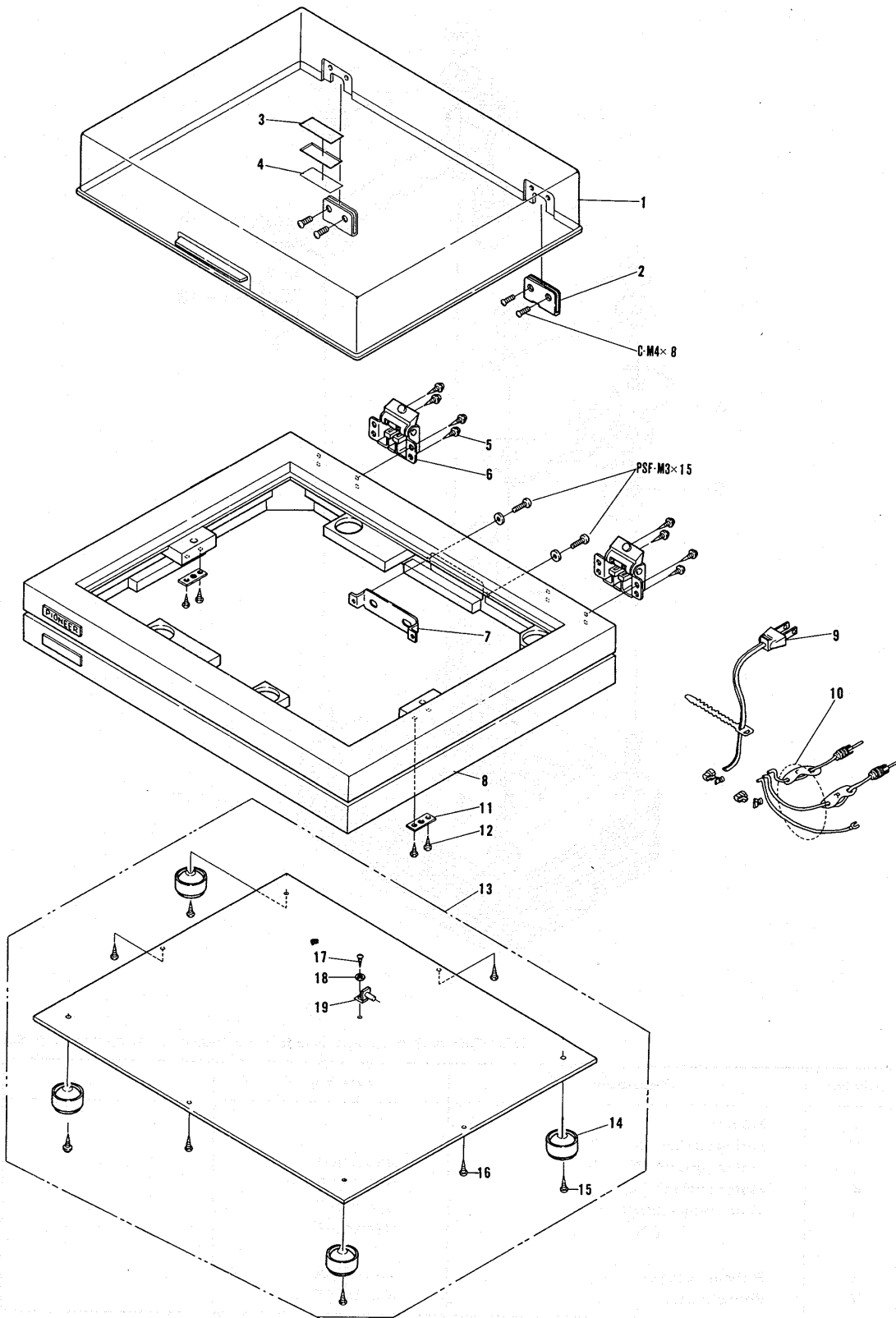
4.10 MOTOR



NOTICE: Any parts asterisked(\*) are subject to being not supplied.

Key No.	Description	Part No.	
1	M4 nut		
2	Spring washer 4φ		
3*	Motor cushion (B)	N64-018-0	
4*	Motor cushion (A)	N61-017-0	
5	Motor pulley 50Hz 60Hz	N24-005-F N24-006-F	
6	Rubber cushion	E31-605-A	
7	Phono motor	N11-006-F	

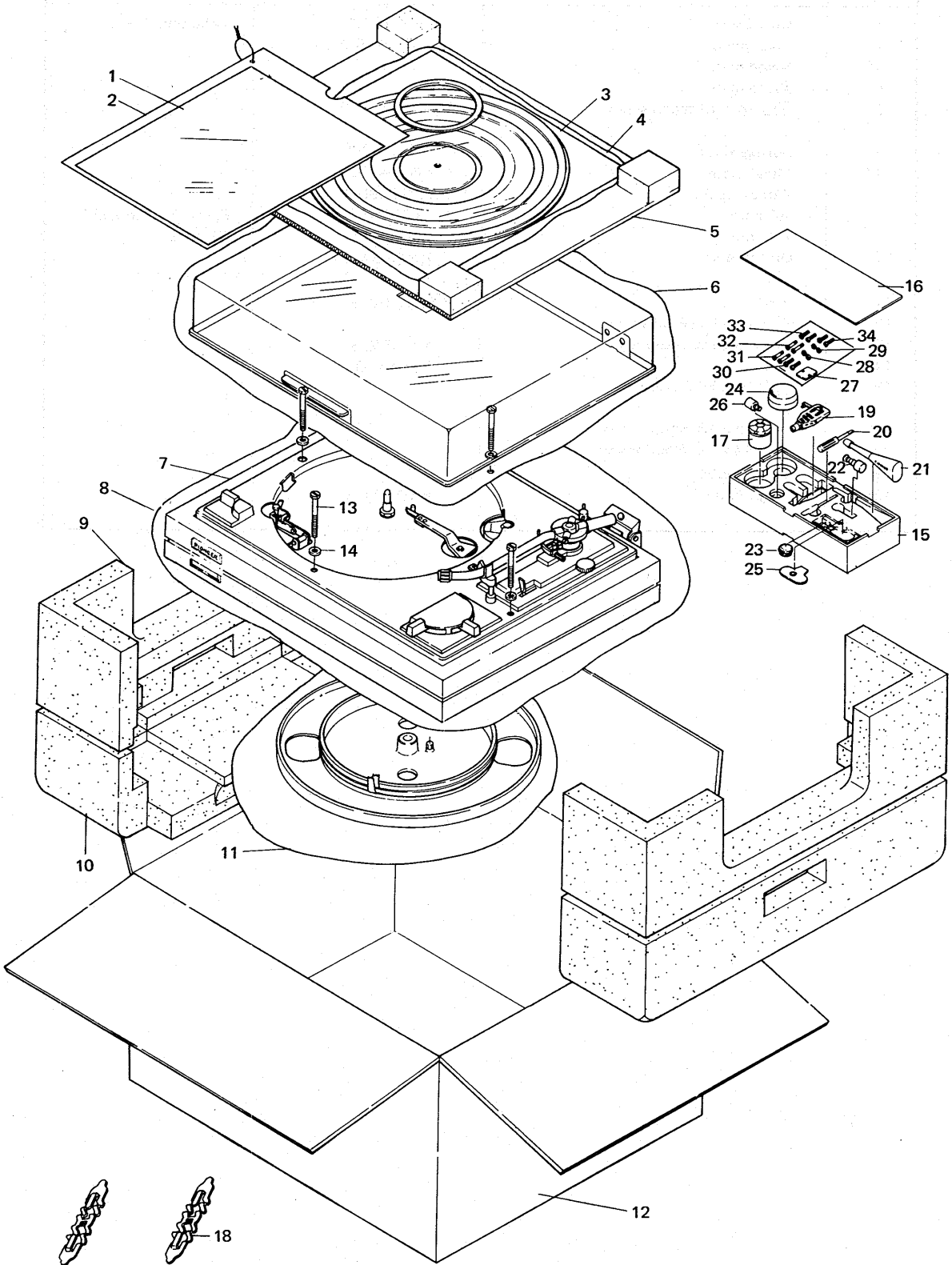
# 4.11 CABINET



NOTICE: Any parts asterisked(\*) are subject to being not supplied.

Key No.	Description	Part No.	
1	Dust cover	KNK-266-A	Including 3, 4
2	Lock plate	N61-084-0	
3*	Name plate		
4*	Name plate		
5	⊕ 3.1φ x 13 Wood screw		
6	Spring hinge	KXA-603-A	
7*	Metal plate	KNA-487-0	
8	Wooden base	KMM-090-0	
9	AC cord	KDG-007-0	P. PV, PVT model KT model
	AC cord	KDG-011-0	
10	Output cord	KDE-022-D	
11*	Plate	M52-150-A	
12	⊕ 3.1φ x 13 Wood screw		
13	Bottom cover assembly	KXB-209-B	
14	Foot	E31-147-0	
15	⊕ 3.1φ x 20 Wood screw		
16	⊕ 3.1φ x 13 Wood screw		
17	⊕ 2.4φ x 6.3 Wood screw		
18	Washer 2.6φ		
19*	Lug terminal	KKC-011-A	
20			

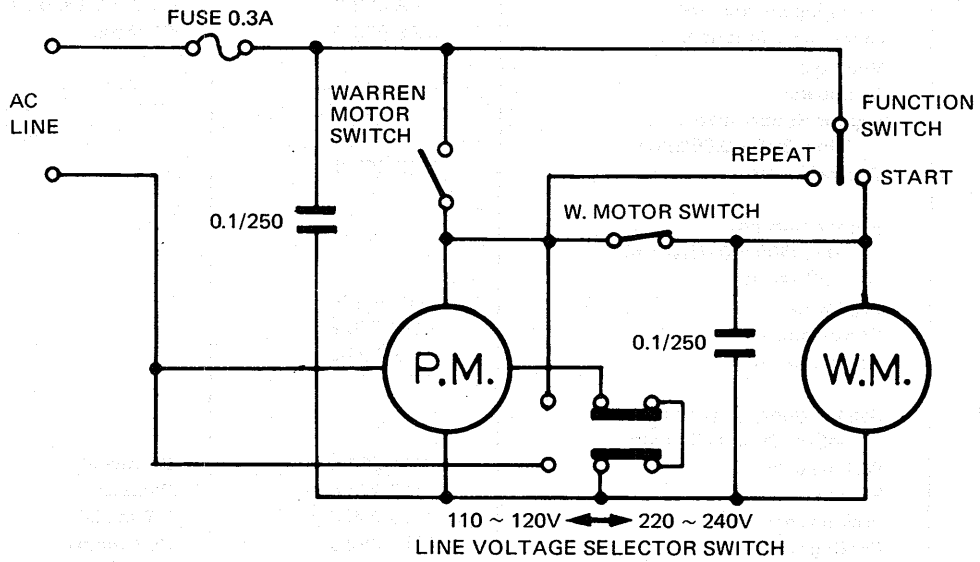
# 5. PACKING



NOTICE: Any parts asterisked(\*) are subject to being not supplied.

Key No.	Description	Part No.	
1	Operating instructions	KRB-062-0	P. PV. PVT model
	Operating instructions	KRB-066-0	KT model
2*	Vinyl bag		
3	Cardboard	H52-632-0	
4*	Bag for Rubber mat		
	345 x 395 x 0.05(t) mm		
5	Top cardboard	KHC-059-0	
6*	Bag for Dust cover		
	700 x 650 x 0.05(t) mm		
7*	Unit (PL-A45D)		
8	Bag for unit	H56-603-0	
9	Styrotector (A)	KNK-226-B	
10	Styrotector (B)	KNK-227-0	
11*	Bag for truntable platter		
	345 x 395 x 0.05(t) mm		
12	Packing case	KHK-204-0	PV model
	Packing case	KHG-225-0	P model
	Packing case	KHG-235-0	KT model
	Packing case	KHK-252-0	PVT model
13	Screw	B11-055-C	
14	Washer	B22-026-0	
15	Miscellaneous parts box	KHX-017-0	
16	Parts box cover	KXH-002-0	
17	Main weight	KXA-566-A	
18	Packing flap stopper	KHK-403-0	
19*	Head shell		
20	Screwdriver	KEX-002-A	
21	Lubricator	KEM-001-A	
22	Motor pulley 50Hz	N24-005-F	
	60Hz	N24-006-F	
23	Rubber grommet (B)	E31-744-0	
24	EP adaptor	KNK-055-B	
25	Screwdriver	E11-125-A	
26	Sub-weight	KLA-494-A	
27	Weight plate	N64-698-0	
28	Nut	B71-653-A	
29	Washer	B23-642-0	
30	Screw (11.5 mm)	B11-657-C	
31	Screw (13 mm)	B11-044-C	
32	Screw (8 mm)	KBA-043-0	
33	Screw (5 mm)	KBA-044-0	
34	Screw (15 mm)	KBA-045-0	
35	Overhang gauge	KNK-290-0	

## 6. CIRCUIT DIAGRAM



## 7. LINE VOLTAGE AND FREQUENCY

### LINE VOLTAGE

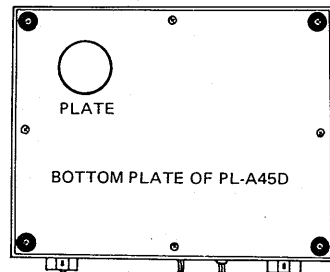
The PL-A45D is available in two models: one model operates only on 220V, and the other either of two line voltages; 120V (110V to 130 area) and 240V (220V to 240V area). If your PL-A45D is the latter model, set the unit to the proper line voltage as follows:

### AC FREQUENCY (CYCLES)

The speed of the motor depends upon the frequency (cycles) of the AC power supply, which can be either 60Hz (USA, etc.) or 50Hz (most European Countries, etc.). The turntable is, of course, factory-adjusted for the AC frequency of the country to which it is being shipped. So, no readjustment is usually required if you use the unit in the same country or area where you bought it. If you move to another country or region, however, please find out if the AC frequency is the same as at your former place or residence—if so, no problem. If it is different, your turntable must be readjusted as follows:

1. Remove the turntable platter. Now the motor pulley is accessible. The pulley is fastened to the motor shaft by one little screw. Remove this with the supplied screwdriver, and remove the pulley.
2. Set the speed selector lever at 33 RPM position.
3. Attach the supplied spare motor pulley and fasten it with a screw furnished with the spare motor pulley. Do not tighten the screw firmly, yet. Then set the turntable platter on the unit and lead the drive belt around the pulley.
4. The drive belt should be positioned in the belt guide and around the center of the upper (smaller) part of the motor pulley. To achieve this, it may be necessary to loosen the pulley once more and adjust its height (Fig. 19).
5. Turn the unit on and confirm that the drive belt travels smoothly through the belt guide and around the pulley.

\* Please note that the spare motor pulley is stored in the accessory case.



To remove bottom plate, unscrew a total of 4 screws. When re-attaching, observe that motor comes over punched plate in bottom plate.

Fig. 17

### LINE VOLTAGE SELECTOR SWITCH

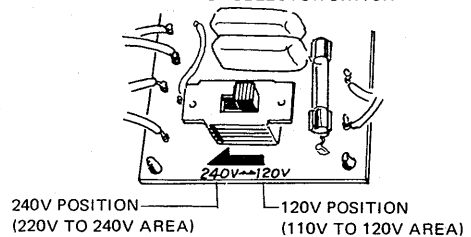


Fig. 18

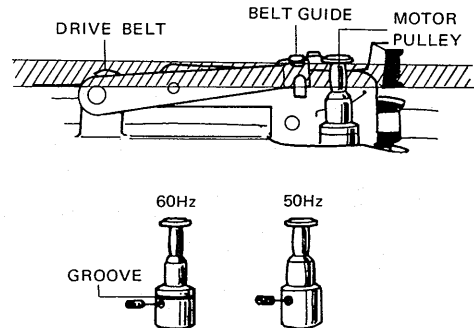


Fig. 19

### HOW TO DISTINGUISH THE MOTOR PULLEYS

- Pulley for 50Hz AC: larger diameter.
- Pulley for 60Hz AC: smaller diameter, also has a groove in its lower part.



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