5509

ORDER NO. SD7907-1598

Service Manual

SL-1700MK2

Direct Drive Automatic Turntable System

SL-1700MK2

(M), (MC)

- The model SL-1700MK2 (M) is available in U.S.A. only.
- The model SL-1700MK2 (MC) is available in Canada only.

TECHNICAL SPECIFICATIONS

(Specifications are subject to change without notice.)
(Weighs and dimensions shown are approximate.)

General

Power supply:	120V, 50 or 60Hz
Power consumption:	17.5W
Dimensions: (W x H x D)	45.3 x 14.9 x 39.9 cm (17-27/32"x5-7/8"x15-45/64")
Weight:	10 kg (22 lb.)

Turntable section

Type:	Quartz direct drive Automatic turntable (Auto return / Auto stop)
Drive method:	Direct drive
Motor:	Brushless DC motor
Turntable platter:	Aluminum diecast Diameter 33.2 cm (13-5/64 inches) Weight 2 kg (4.4 lb.)
Turntable speeds:	33-1/3 rpm and 45 rpm
Pitch control:	±6% range
Starting torque:	1.5 kg·cm (1.3 lb·in)
Build-up characteristics:	0.7 s. (90° rotation) to 33-1/3 rpm
Braking system:	Electronic brake
Speed change due to load torque:	0% within 1.0 kg·cm (0.87 lb·in)
Wow and flutter:	0.01% WRMS (*) 0.025% WRMS (JIS C5521) ±0.032% peak (IEC98A Weighted)

* This rating refers to turntable assembly alone, excluding effects of record, cartridge or tonearm, but including platter. Measured by obtaining signal from built-in frequency generator of motor assembly.

Rumble:	–56 dB (IEC 98A Unweighted) –78 dB (IEC 98A Weighted)

Tone arm section

Type:	Universal
Effective length:	230 mm (9-1/16")
Arm height adjustment range:	0 – 6 mm
Overhang:	15 mm (19/32")
Effective mass:	12 g (without cartridge)
Tracking error angle:	Within 2°32' at the outer groove of 30 cm (12") record Within 0°32' at the inner groove of 30 cm (12") record
Offset angle:	22°
Friction:	Less than 7 mg (lateral, vertical)
Stylus pressure adjustment range:	0–2.5 g
Applicable cartridge weight range:	6–10 g 13.5–17.5 g (including headshell)
(with auxiliary weight):	9.5–13 g 17–20.5g (including headshell)
(with shell weight):	3.5–6.5 g 11–14 g (including headsell)
Headshell weight:	7.5 g

Technics

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Division of Matsushita Electric Corporation of America
One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Hawaii, Inc.
320 Waiakamilo Road, Honolulu, Hawaii 96817

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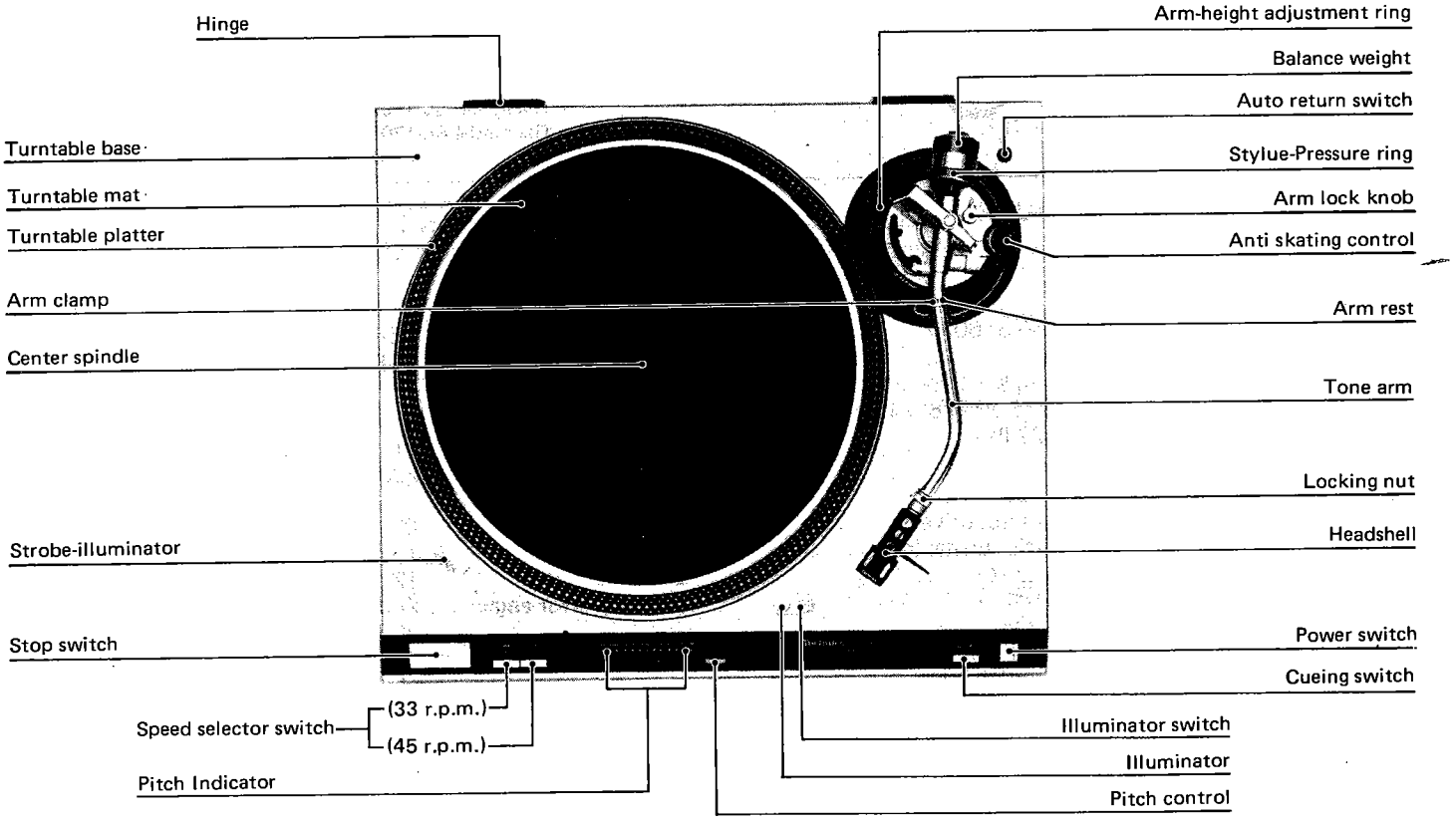
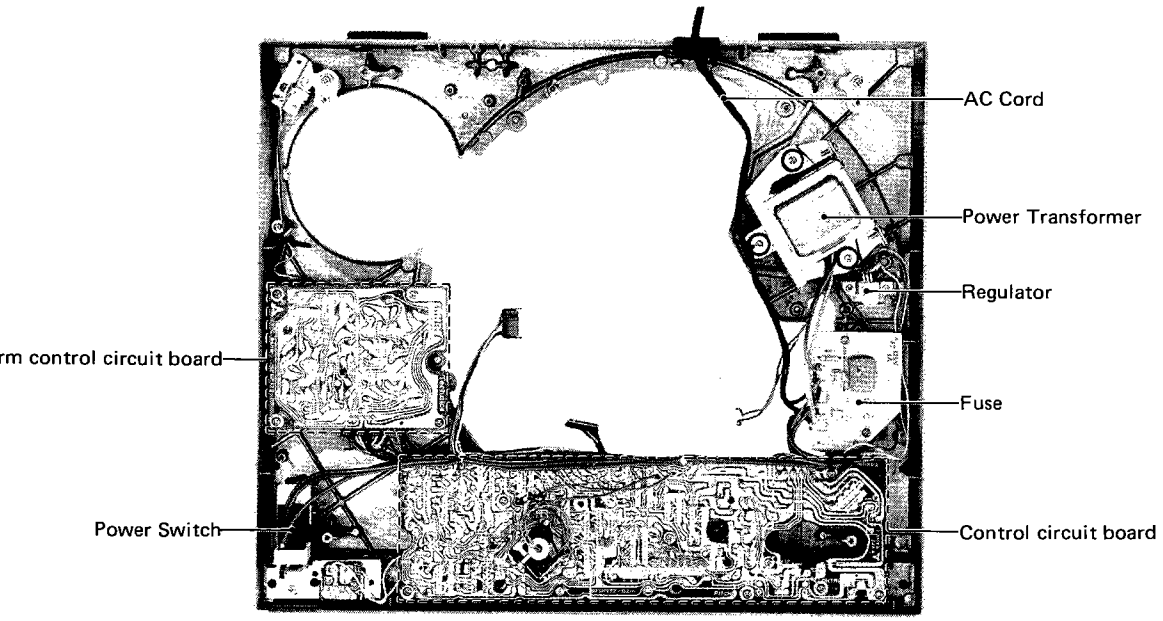
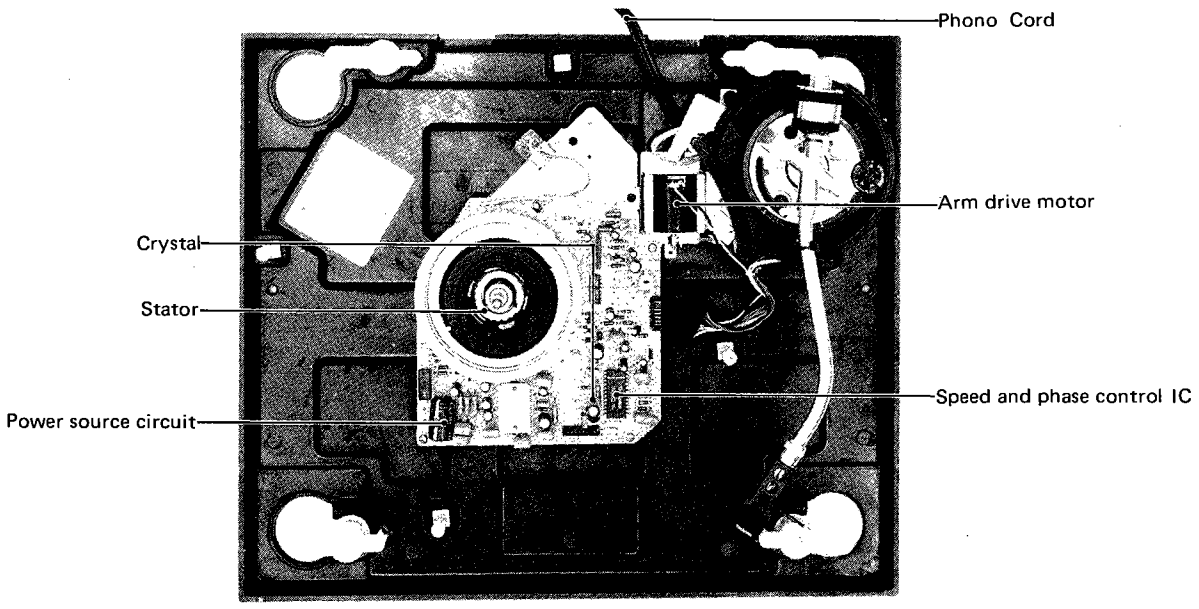
L4W 2T3

■ CONTENTS

■ LOCATION OF CONTROLS







TECHNICAL GUIDE

rm control circuit

is circuit includes a circuit to control the cueing and returning operation of the arm by using a DC motor, a rest detection cuit which gives a start/stop instruction to the turntable, and a circuit to electrically detect the return position the same as in -1300MK2.

Cueing operation

Arm switches A and B are turned ON and OFF by the cam interlocked with the cueing mechanism of the arm.
Whether the arm is cued up or down with the cueing switch depressed depends on the positions of these two switches.

- **Cueing down**

  When the arm switch A is OFF, while B is ON or OFF, depressing the cueing switch results in cueing down.

As the arm switch A is OFF, Ⓐ is "H" and Ⓑ is "L". The output of Ⓑ is applied to D terminals (pin 5 and 9 of IC460) of the D flip-flop circuit* of IC460. Then, depressing the cueing switch generates clock pulses which are applied to CK terminals (pins 3 and 11) of IC460, thus the outputs X="L" and Y="H" come out of X (pin 1 of IC460) and Y (pin 12 of IC460). The outputs enter the motor driving circuit to operate the DC motor. Outputs X and Y, motor rotating direction, and arm operation are shown in the Fig. 1.
With the above operations completed, the arm is cued down by the drive motor. However, the motor will continue rotating if the conditions are left unchanged. Therefore, the outputs of arm switches A and B pass through the Exclusive -OR circuit* and generate motor stopping pulses at the next pulse generating circuit in order to apply pulses to S (pin 6 of IC460) and R (pin 10 of IC460) terminals of the flip-flop circuit of IC460 to reset the outputs at X and Y (X="H", Y="L", thus stopping the rotation of the motor.

- **Cueing up**

  When the arm switch A is ON, while B is ON or OFF, depressing the cueing switch results in cueing up. As the arm switch A is ON, Ⓐ is "L" and Ⓑ is "H".
  The output of Ⓑ is put into D terminals (pins 5 and 9) of IC460. Then, depressing the cueing switch generates clock pulses as in cueing down operation, causing X and Y to become "H" and "L" respectively. Thus, the motor rotates in the direction of cueing up operation as shown in Table 1. After that, reset pulses are applied to the flip-flop circuit of IC460, then outputs at both X and Y become "H" causing the motor to stop.

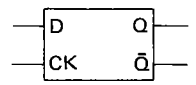
  Note:

  Cueing up is possible during cueing down, but cueing down is not possible during cueing up.

* **D flip-flop circuit**

This circuit includes a D input, a clock input (ck), and two outputs Q and $\bar{Q}$. The outputs of this flip-flop remain unchanged even with D input "L" or "H" added.
However, if a clock pulse is applied to this circuit while it is supplied with a D input, the D input is transmitted to output Q. Therefore, output Q causes the circuit operation to delay by clock pulse equivalence.
The flip-flop circuit and the truth table are shown below.

a) Circuit



b) Truth table

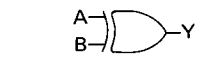
tu		tu+1
D	Qu	Qu+1
L	L	L
L	H	L
H	L	H
H	H	H

Output X	Output Y	Rotating direction	Arm Operation
H	H	Stop	Stop
H	L	Reverse	Cueing up, return
L	H	Normal	Cueing down

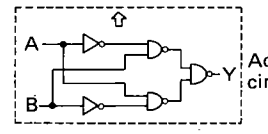
[Fig. 1]

* **Exclusive -OR circuit**

In this circuit, output Y is "H" only when outputs A and B are not equal.



a) Logic circuit



Actual circuit

Input		Output
A	B	Y
L	L	L
L	H	H
H	L	H
H	H	L

b) Truth table

2. Rest position detection

When the arm moves off the arm rest, the turntable rotates. Structurally, a coupler using an LED and photo-transistor is located under the arm base; when the arm is on the rest, the LED and photo-transistor are interrupted by the slit, turning the photo-transistor (PH402) off; when the arm is off the rest, the photo-transistor turns on, causing Ⓓ to become "L", then Q455 turns off and a voltage is applied to pin 19 of IC201 to rotate the turntable. Input "L" is applied to pin 9 of IC456 in order to inhibit the operation of the gate so that depressing the stop switch does not cause the arm to operate when the arm is on the rest.

3. Stop operation

If desired to stop the performance, push the stop switch, then the arm returns to the arm rest.
Depressing the stop switch generates ⎍ pulse at Ⓔ.
Ⓘ is "L" when the arm is on the rest, inhibiting the pulse from the stop switch, and it is "H" when the arm is off the rest.
Depressing the stop switch, when Ⓘ is "H", generates ⎎ pulse at Ⓕ. The pulse causes the R-S flip-flop circuit of IC457 and IC458 to reverse, then Ⓖ and Ⓗ respectively becomes "H" and "L", while S (pin 8 of IC460) and S (pin 6 of IC460) terminals of D flip-flop circuit of IC460 become "H" resulting in X="H" and Y="L". The output causes the arm to return. Also, about 0.9 sec. after rest position detection to stop the turntable, ⎎ pulse is applied to Ⓙ of R-S flip-flop circuit of IC457 and IC458, thus resetting the R-S flip-flop (Ⓖ="L",Ⓗ="L").

hen the ❶ is H pressing the stop switch causes the
n to start returning irrespective of its position.
hen the arm is in return operation, the cueing switch
es not work because of priority given to the stop
eration.

ito return operation

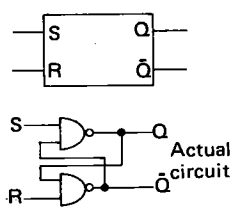
e detection of record end is performed with the
tical sensor output, same as in SL-1300MK2; then
e arm is returned in the same way as in the above-
ntioned stop operation.
the arm is in up position (arm switch A is OFF), no
se is generated at ❺ for end detection, therefore
o return operation can not be achieved by shifting
e arm.

* **R-S flip-flop circuit**

This circuit includes two inputs S(set), R(Reset), and two outputs Q and $\overline{Q}$.

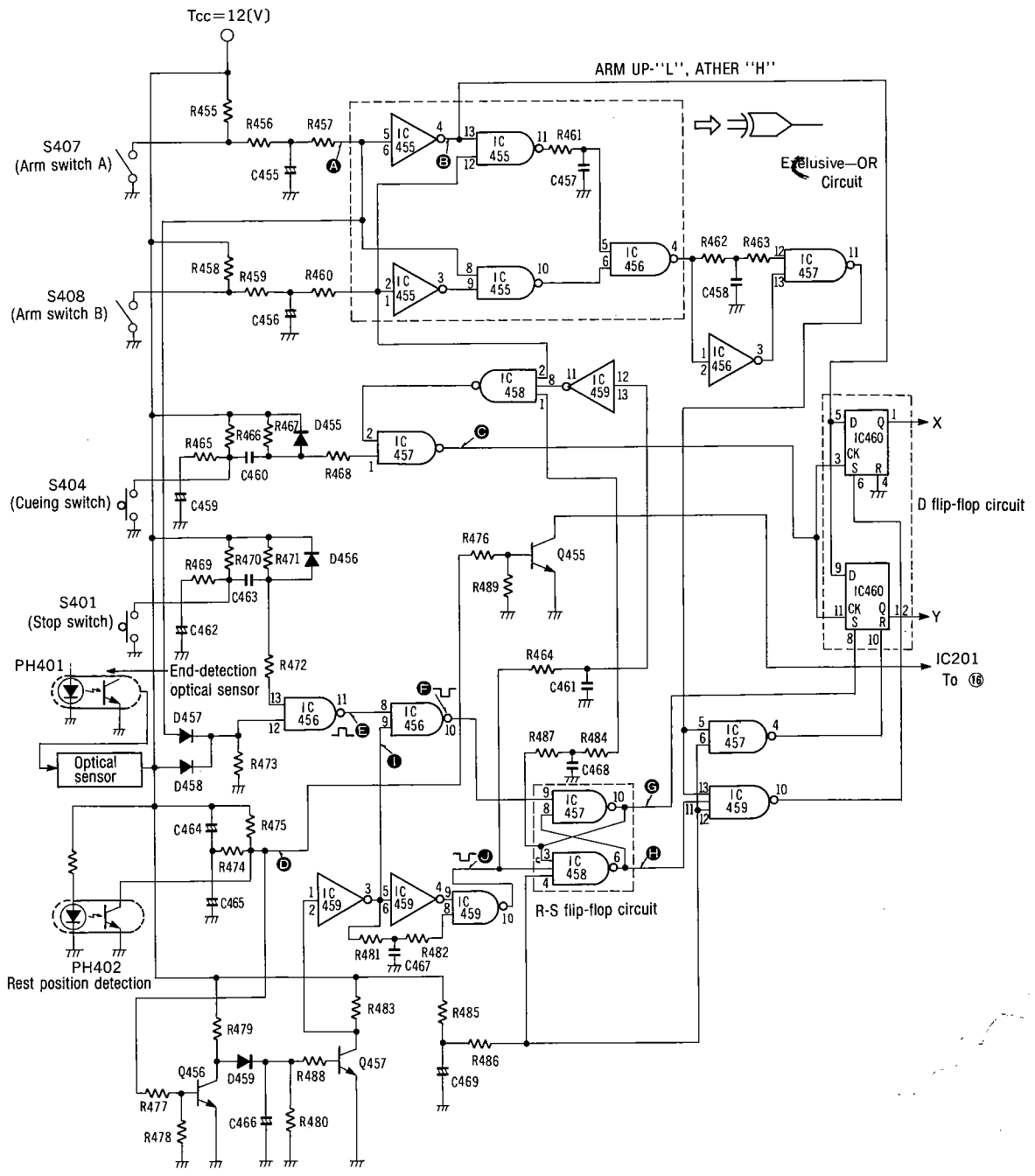
It input S="H", R="L", then Q="L". If S="L", R="H", then Q="H". After determination of the output, changing the input to "H" does not cause the output to change.

a) Circuit

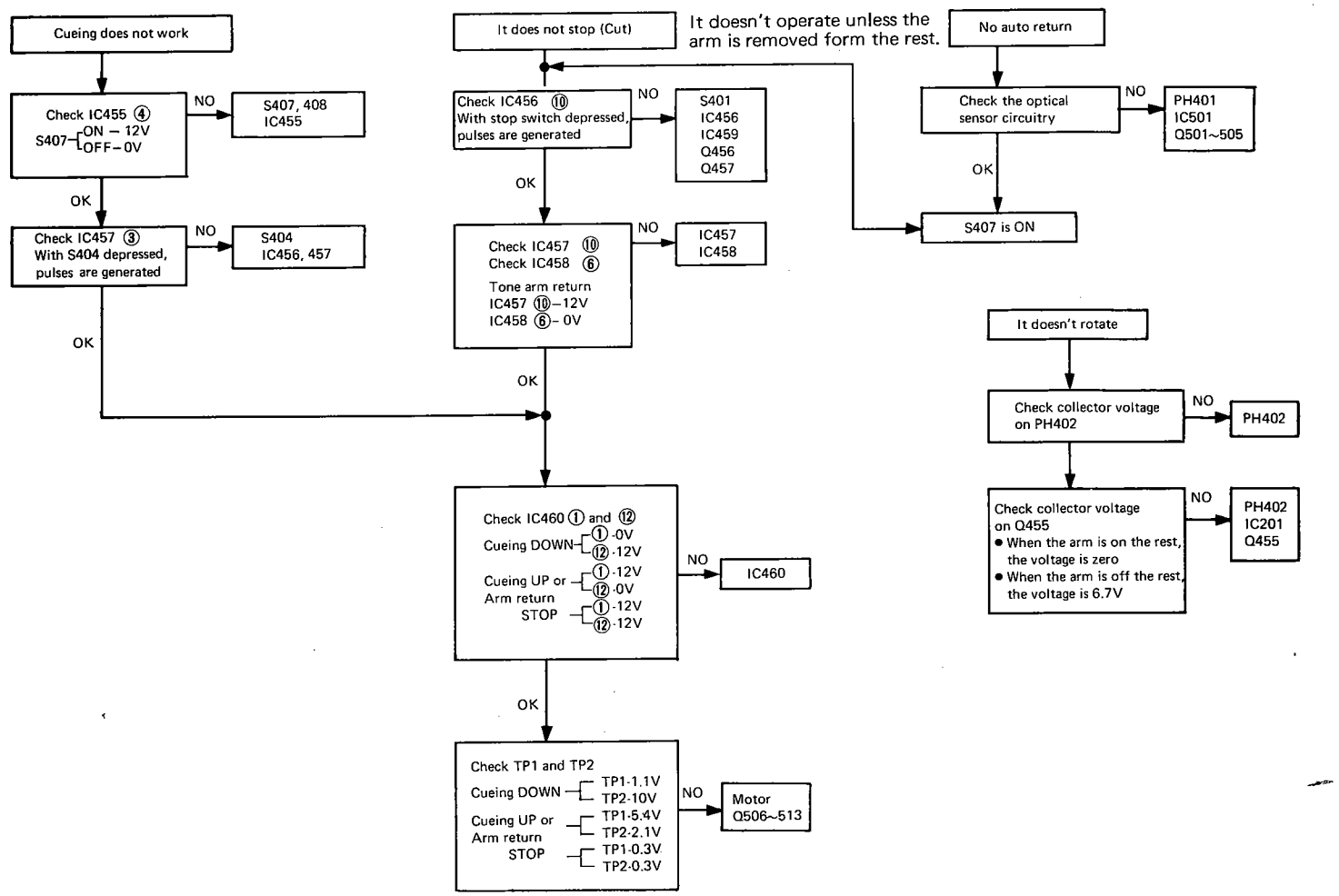


b) Truth table

S	R	Qu+1
L	L	H
L	H	H
H	L	L
H	H	Qu



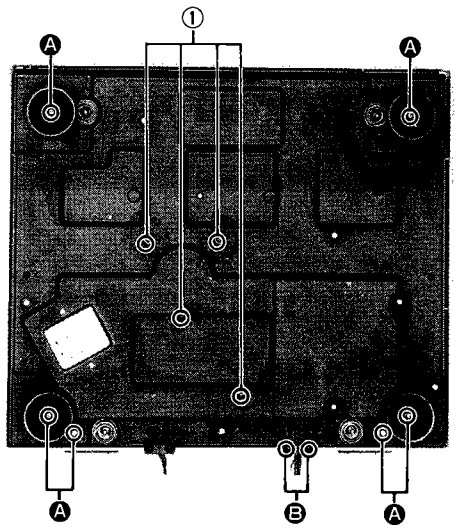
■ TROUBLE SHOOTING OF ARM DRIVE CIRCUIT



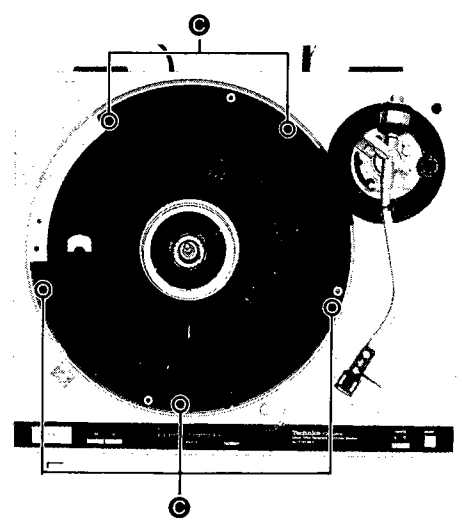
■ DISASSEMBLY PROCEDURE

How to remove main base ass'y and bottom base ass'y

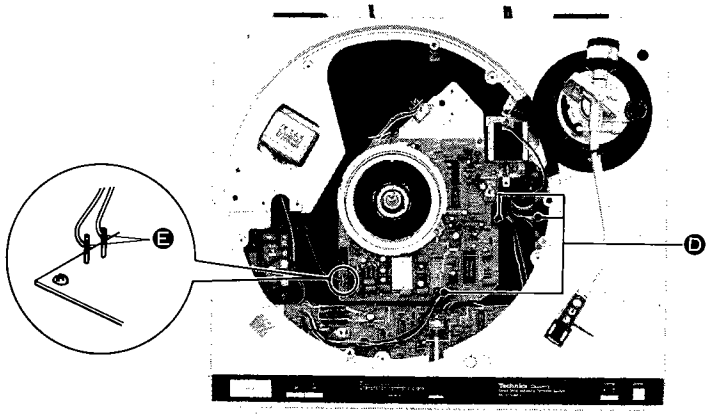
1. Clamp tone arm to the arm rest.
2. Remove head shell and turn-table platter.
3. Close dust cover.
4. Turn unit upside down taking special care not to damage or scrach the dust cover.
5. Remove 6 screws Ⓐ of the audio insulator and 2 screws Ⓑ of the phono cord clamper as shown in Photo 1.
6. Holding the player firmly with both hands, to prevent separation of upper section (bottom base ass'y) from lower section (main base ass'y), turn it carefully upwards.
7. Remove dust cover.
8. Remove 5 screws Ⓒ of the panel cover as shown in Photo 2.
9. Remove 3 connectors Ⓓ and 2 read wires Ⓔ from power transformer as shown in Photo 3.
10. To remove the main base ass'y from the bottom base ass'y, turn cueing lever upward and move tone arm towards center of spindle. The main base ass'y can be lifted up essily. (See Photo 4).



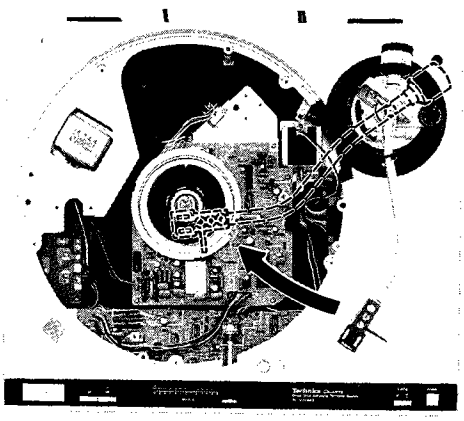
[Photo 1]



[Photo 2]



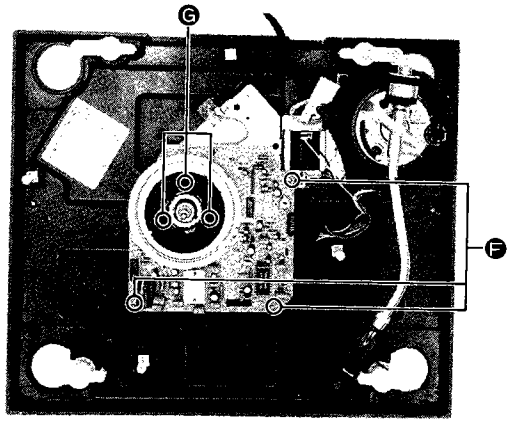
[Photo 3]



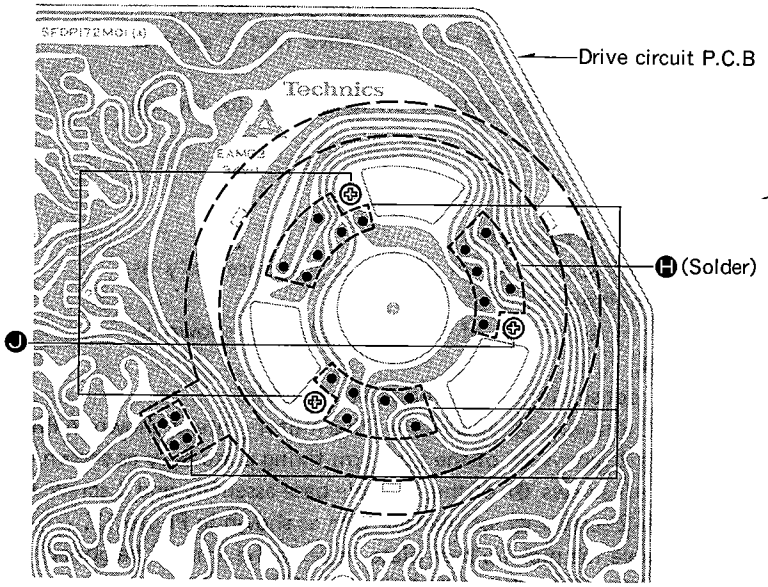
[Photo 4]

How to remove drive circuit p.c.b. and stater frame coil

1. Remove main base ass'y and bottom base ass'y.
2. Remove 3 screws Ⓕ of the drive circuit p.c.b. and 3 screws Ⓖ of the stater frame cover as shown in Photo 5.
3. Disconnect 18 soldered parts Ⓗ of the stater frame coil and 4 soldered parts Ⓗ of the F.G detector coil as shown in Fig. 2.
4. Remove 3 screws Ⓙ of the stater frame ass'y as shown in Fig. 2.



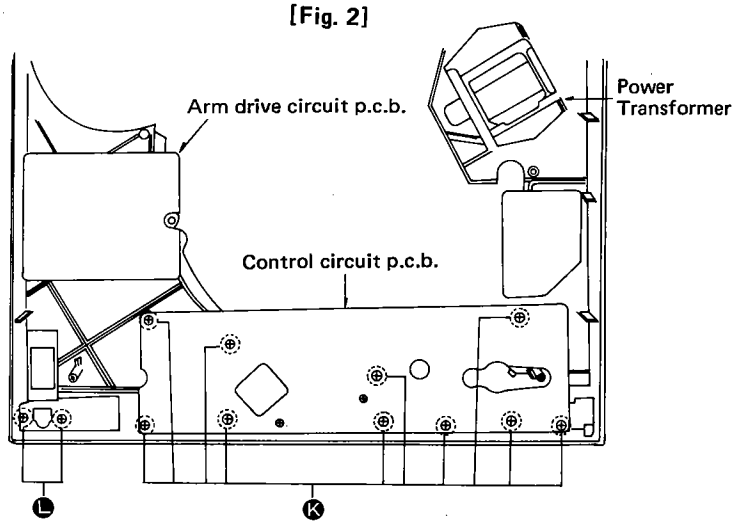
[Photo 5]



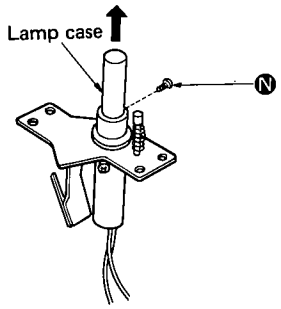
[Fig. 2]

How to remove control circuit p.c.b. and stylus-illuminator lamp

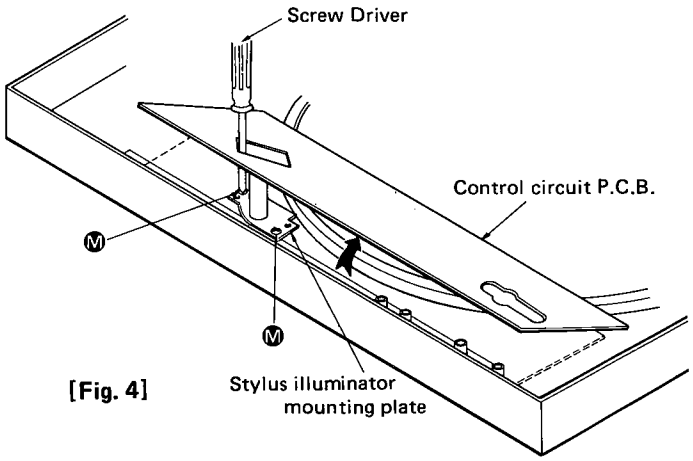
1. Remove main base ass'y and bottom base ass'y.
2. Remove 10 screws Ⓚ of the control circuit p.c.b. as shown in Fig. 3.
3. Remove 2 screws Ⓛ of the power switch bracket as shown in Fig. 3.
4. Set up the control circuit board as shown in Fig. 4. Then remove the 2 screws Ⓜ of the stylus illuminator mounting plate. (Fig. 4).
5. To replace the stylus illuminating lamp, remove the setscrew of the lamp case (Fig. 5) and detach the lamp case, then the stylus illuminating lamp can be replaced.



[Fig. 3]



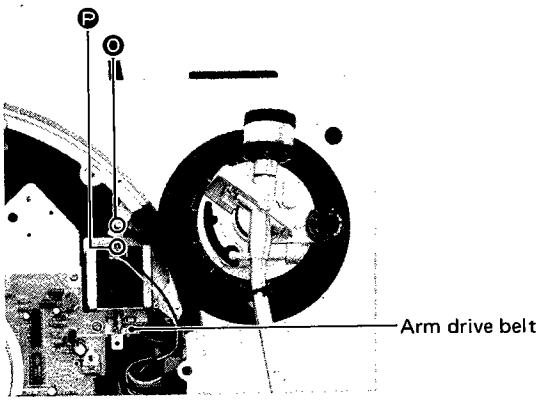
[Fig. 5]



[Fig. 4]

How to remove arm drive motor

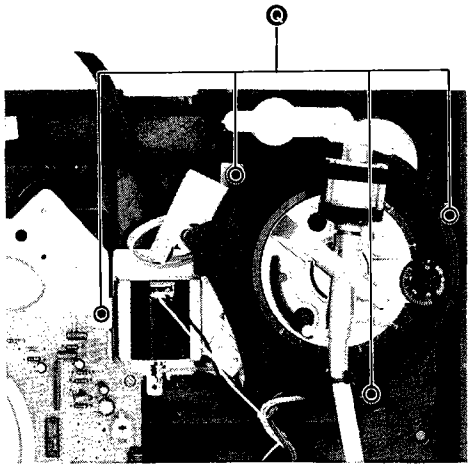
1. Remove head shell and turntable platter.
2. Clamp tone arm to the arm rest.
3. Remove 5 screws Ⓒ of the panel cover as shown in Photo 2.
4. Remove arm drive belt.
5. Turn the muting switch adjusting screw so that the arm drive motor setscrew can be removed. (See Photo. 7).
6. Remove 1 screw Ⓟ of the arm drive motor ass'y as shown in Photo 7.
7. When adjusting the muting switch, refer to Muting Switch Adjustment.



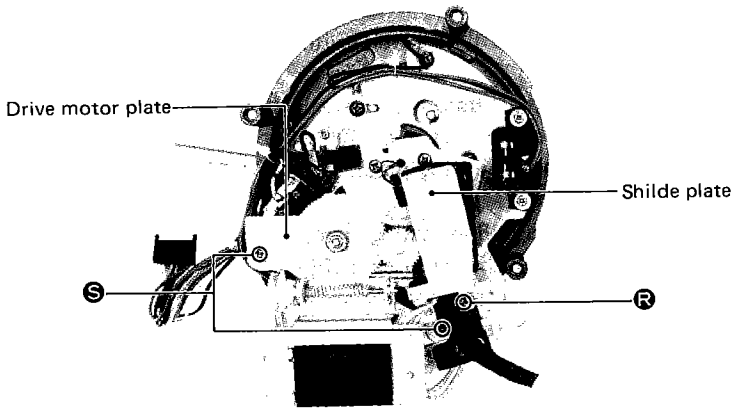
[Photo 7]

How to remove tone arm

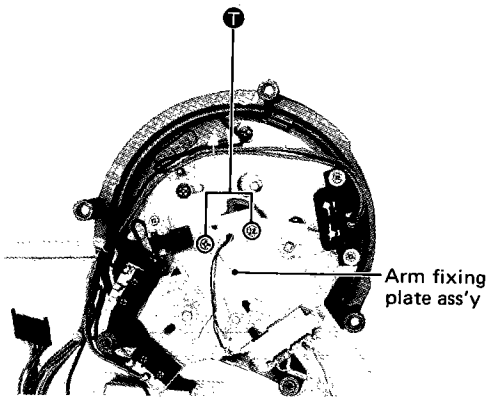
1. Remove 4 screws Ⓠ of the tone arm base ass'y as shown in Photo 8.
2. Remove 1 screw Ⓡ of the shilde plate as shown in Photo 9.
3. Disconnect soldered of the phono cord reads.
4. Remove 2 screws Ⓢ of the arm drive motor plate as shown in Photo 9.
5. Remove 2 screws Ⓣ of the tone arm fixing plate ass'y as shown in Photo 10.
6. Remove 3 screws Ⓤ of the movable base assembly and 1 screw Ⓥ of the ground wire as shown in Photo 11.
7. Remove 2 screws Ⓦ of the tone arm as shown in Photo 12.
8. To remove the pick-up base plate, remove the arm lift height adjusting screw and the arm lift.
9. Remove 1 screws Ⓧ and 1 circlip Ⓨ of the position fix plate as shown in Photo 12.
10. Remove 2 screws Ⓩ of the pick-up base plate as shown in Photo 12.



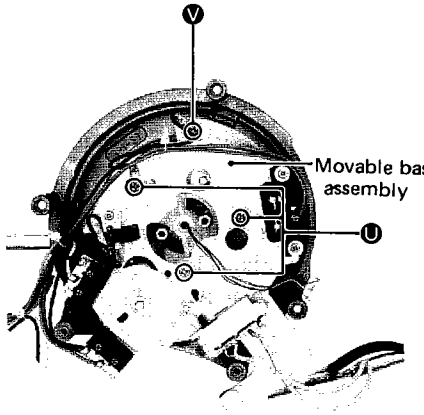
[Photo 8]



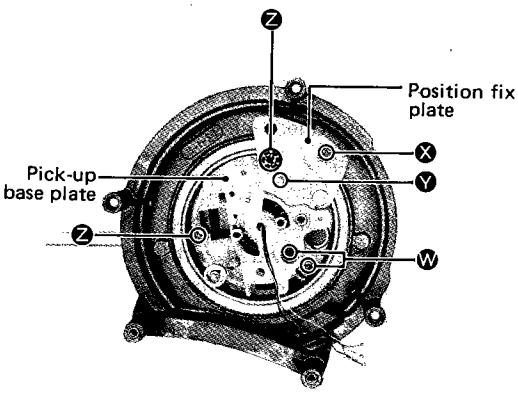
[Photo 9]



[Photo 10]



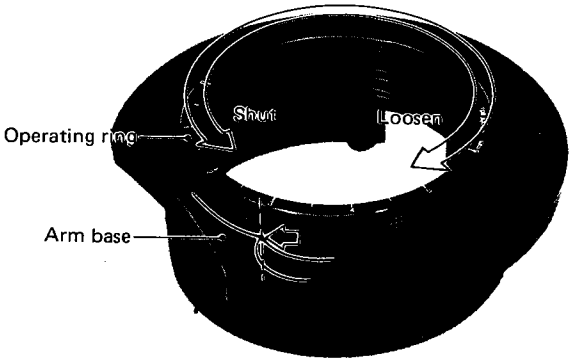
[Photo 11]



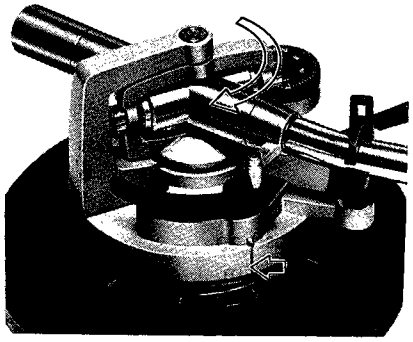
[Photo 12]

Arm Base Assembling Procedure

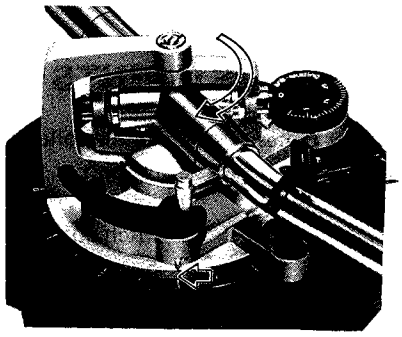
1. Attach the control ring to the arm base seat.
   (The control ring should be rotated counterclockwise.)
2. Completely tighten the control ring, and then loosen it 1.5 ~ 2.5 turns to set the scale to "3". (See photo 13.)
3. Hold the arm base and set the red line mark on the arm base to the scale near "2", then turn the arm base clockwise. (See photo 14.)
   Note) Take care not to allow deflection of the predetermined positions of the control ring and arm base seat.



[Photo 13]

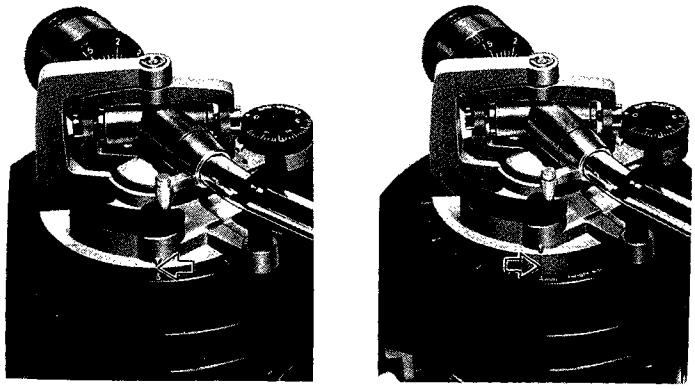


[Photo 14]



[Photo 15]

4. Adjust the arm base so that the red line mark on the arm base is set to the scale "3" of the control ring. (See photo 15). Next, secure the position fix plate with two setscrews. (See photo 12.)
5. Rotate the control ring and make sure that the arm base shifts within the range of 0 ~ 6mm.
   (See photo 16 A, B.) If it does not shift within the specified range, the arm base position is deflected. In that case, disassemble the parts and check as specified in step 3.

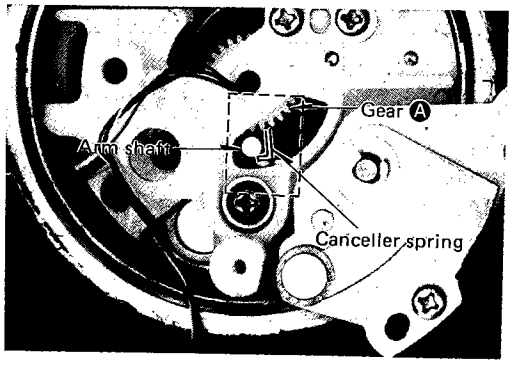


(A) [Photo 16] (B)

Adjustment of Canceller Spring Position

If the arm body or PU base plate is replaced, be sure to set the canceller knob to "0.5" and make sure that the canceller spring is in contact with the arm shaft. (See photo 17.)
If the canceller spring is deflected, adjust it as follows:

1. Clamp the arm on the rest.
2. Set the canceller knob to "0.5".
3. Remove the PU base plate, adjust gear A so that the canceller spring is in the position of photo 17.
4. Mount the PU base plate onto the arm base and check the spring position.

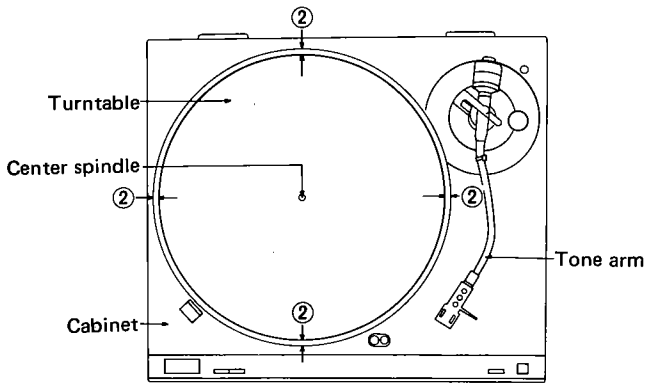


[Photo 17]

How to install the drive circuit board assembly

The circuit board assembly can be detached by removing the 4 setscrews ① shown in Photo. 1. When installing it onto the bottom base assembly after adjustment and repair, follow the procedure mentioned below.

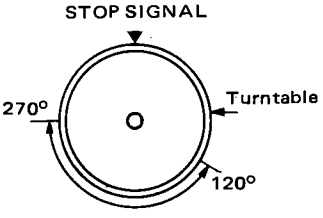
1. Temporarily tighten the 4 setscrews ①. (Refer to Photo 1.)
2. Adjust so that the center spindle is aligned to the center of the turntable provided with equal clearances ② as in Fig. 11.
3. Completely tighten the 4 setscrews ①, taking care not to allow deflection of the center spindle.

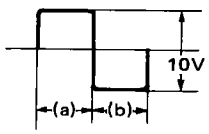
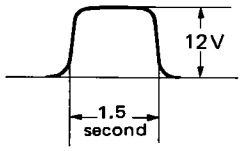


[Fig. 6]

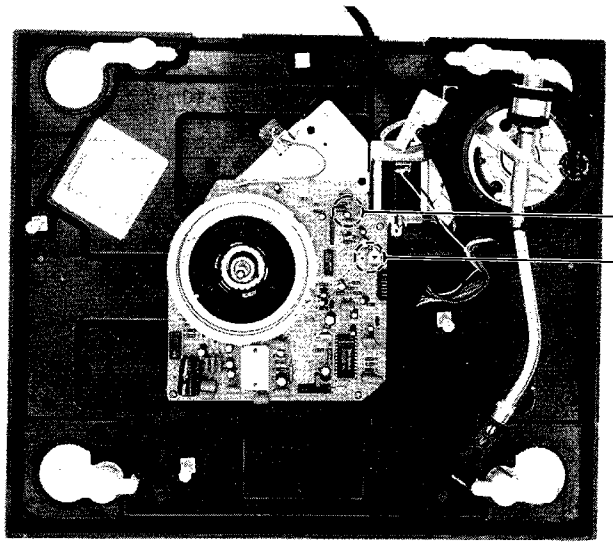
■ ADJUSTMENTS (Electrical)

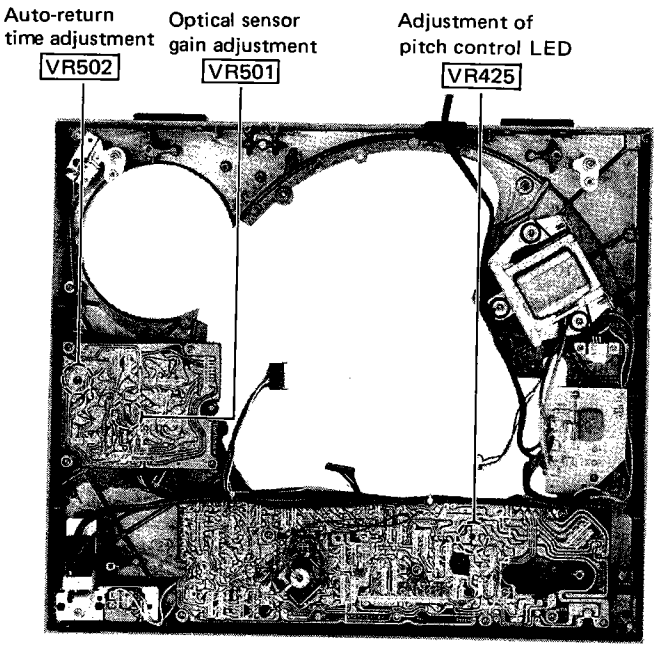
Notes:
- Make the following adjustments after replacing parts such as IC's, transistors, diodes, etc.
- Condition of the set
  1. Power switch . . . . .ON
  2. Pitch control . . . . .Center position
  3. Speed selector switch . . . .33 r.p.m.
- Instruments to be used
  1. Oscilloscope
  2. Frequency counter

	Adjustment	connection Points	Adjustment Points	Adjustment Method
A	Adjustment of pitch control ±0% (PITCH)	Frequency counter + → TP27 – → GROUND	**VR301**	1. Pitch control switch to center position. 2. Adjust VR301 for 262.08 kHz ±0.05 kHz of frequency.
B	Adjustment of pitch control LED (GAIN)	Frequency counter + → TP27 – → GROUND	**VR425**	1. Adjust pitch control switch for 269.94 kHz of frequency. 2. Adjust VR425 so that the LED (pitch indicator plus 3%) lights up.
C	Braking adjustment (BRAKE)	——	**VR201**	 Adjust VR201 for complete stop within 120°~270° after stop signal initiated. (turntable becomes free a few seconds after stop.)

D	Optical sensor gain adjustment (GAIN)	Oscilloscope + → TP32 − → GROUND	VR501	**TP32 waveform** 	With arm near center spindle, manually move with uniform motion, and adjust VR501 as that the (a) and (b) pitch of the waveform of TP32 is equal.
E	Auto-Return time adjustment (TIME)	Oscilloscope + → TP38 − → GROUND	VR502	**TP38 waveform**  Power Switch ON	Turn power switch on, and adjust VR502 so that the time (T_0) from power on until the voltage of TP38 inverts is 1.5 second at 33 r.p.m. (1.1 second at 45 r.p.m.)

■ ADJUSTMENT POINTS



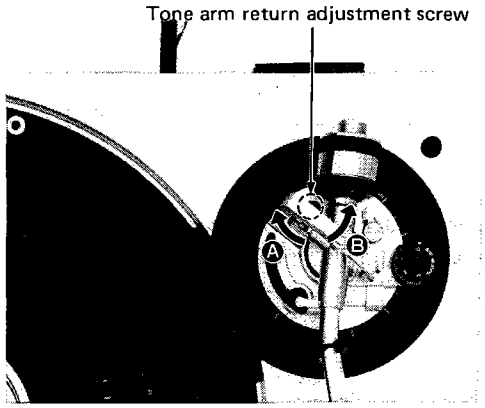


■ ADJUSTMENTS (Tone arm)

• Adjustment for automatic return position

1. Keep the power switch turned OFF to prevent the turntable from rotation.
2. Remove the rubber cap.
3. Move the tone arm toward the center spindle side, and make the adjustment by gradually turning the adjusting screw.

In case where the tone arm tends to return before the playing has finished.
—Move counterclockwise. (See Photo 18 Ⓐ)
In cases where the tone arm fails to return after the last groove of the record.
—Move clockwise. (See Photo 18 Ⓑ)

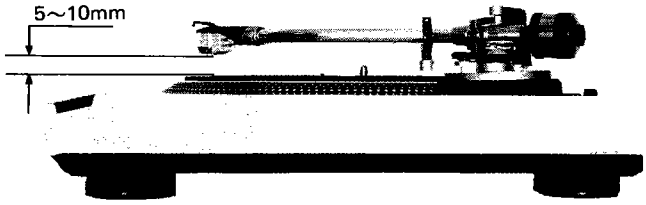


[Phot 18]

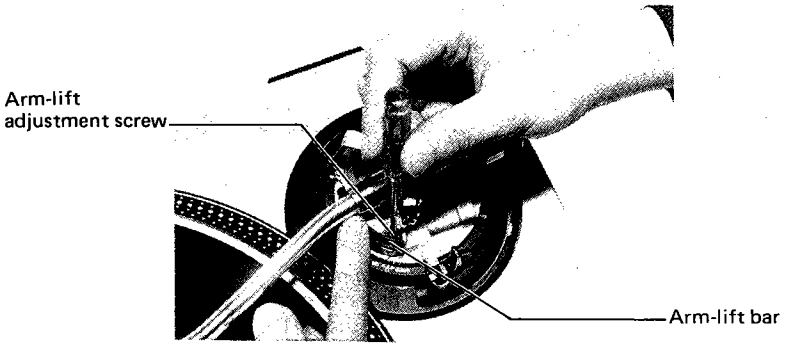
Adjustment of arm-lift height (See Photos 19 and 20.)

The arm-lift height (distance between the stylus tip and record surface when cueing lever is at the up position) has been adjusted at the factory before shipment to approximately 5 to 10 mm.
For using different cartridges available on the market or when further adjustments are particularly necessary, make adjustment as follows:

1. Move the tone arm toward the center spindle.
   Attach the stylus protector, if avialble, to guard the stylus tip from damage.
2. Turn the adjustment screw clockwise or counterclockwise, while pushing the arm lift down.
   Clockwise rotation
   —distance between the record and stylus tip is reduced.
   Counterclockwise rotation
   —distance between the record and stylus tip is increased.
   Note:
   As the adjusting screw has a hexagonal head, be sure to make the adjustment while depressing the arm lift, or the screw will not move freely.
   Also be sure that the hexagonal head retracts correctly into the arm lift when the latter is released.



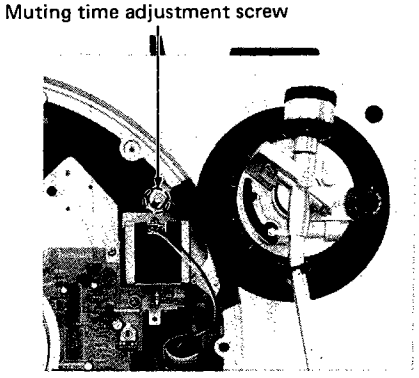
[Photo 19]



[Photo 20]

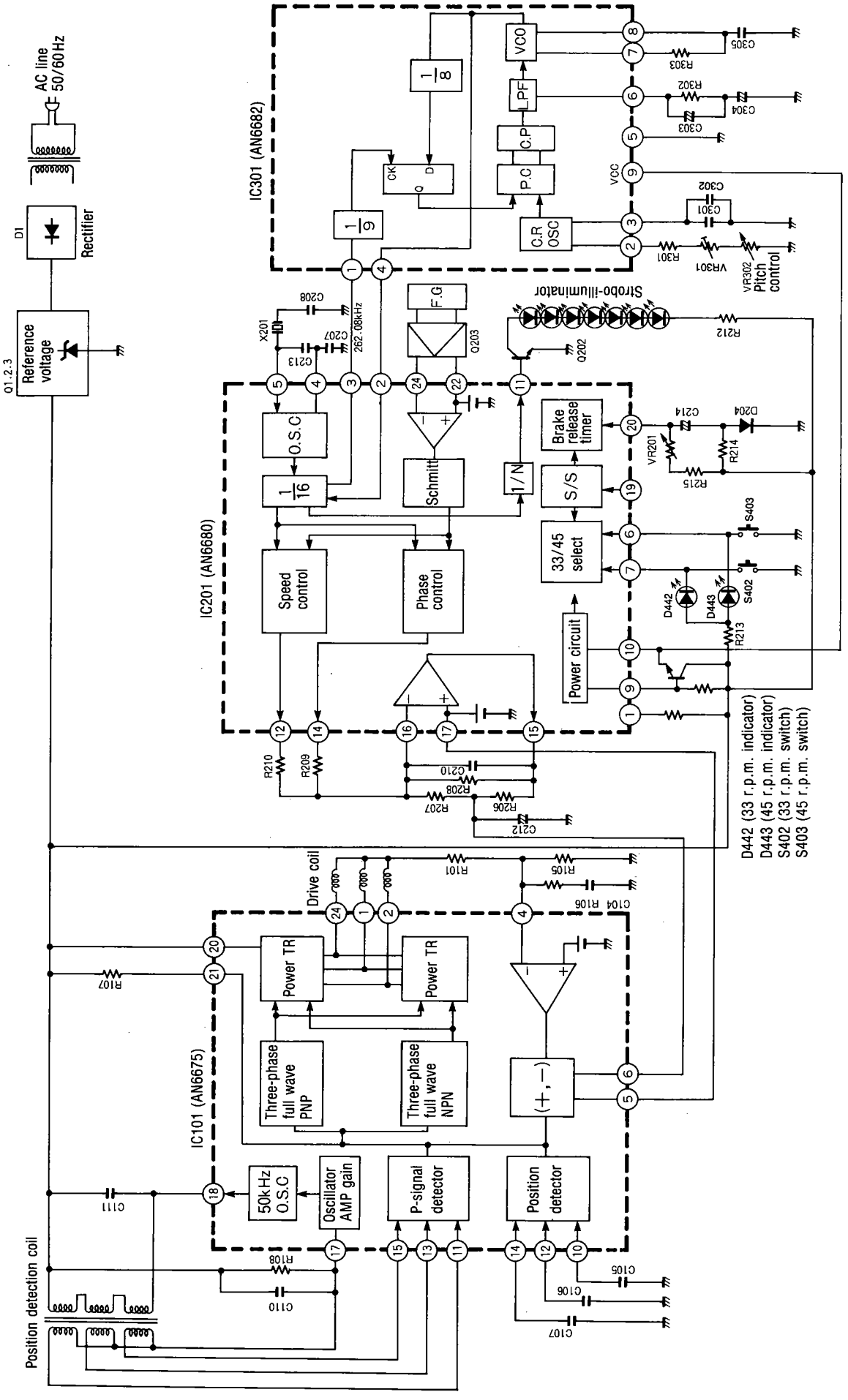
• Muting adjustment

This unit employs a muting switch to eliminate noise created when the stylus is placed on or moved off the record disk. If the sound is not heard immediately or noise is created when the stylus is shifted down onto the disk, adjust it by turning the muting adjust screw. (Photo 21).

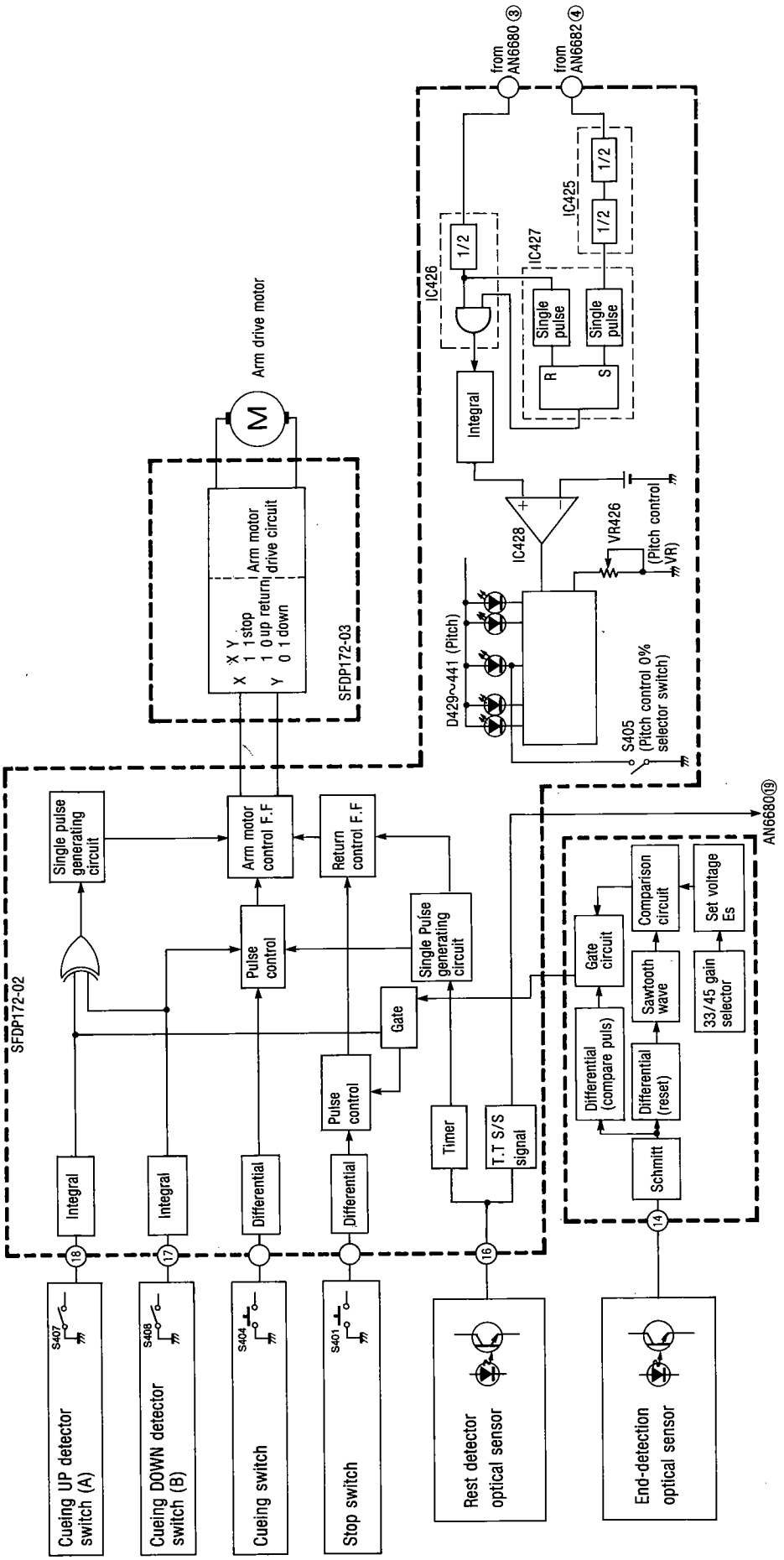


[Photo 21]

■ BLOCK DIAGRAM (Drive Circuit)



■ BLOCK DIAGRAM (Control Circuit, Arm Control Circuit and Pitch Control Circuit)



REPLACEMENT PARTS LIST (Electric Parts)

Notes: 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts orders.
2. ⚠ indicates that only parts specified by the manufacture be used for safety.

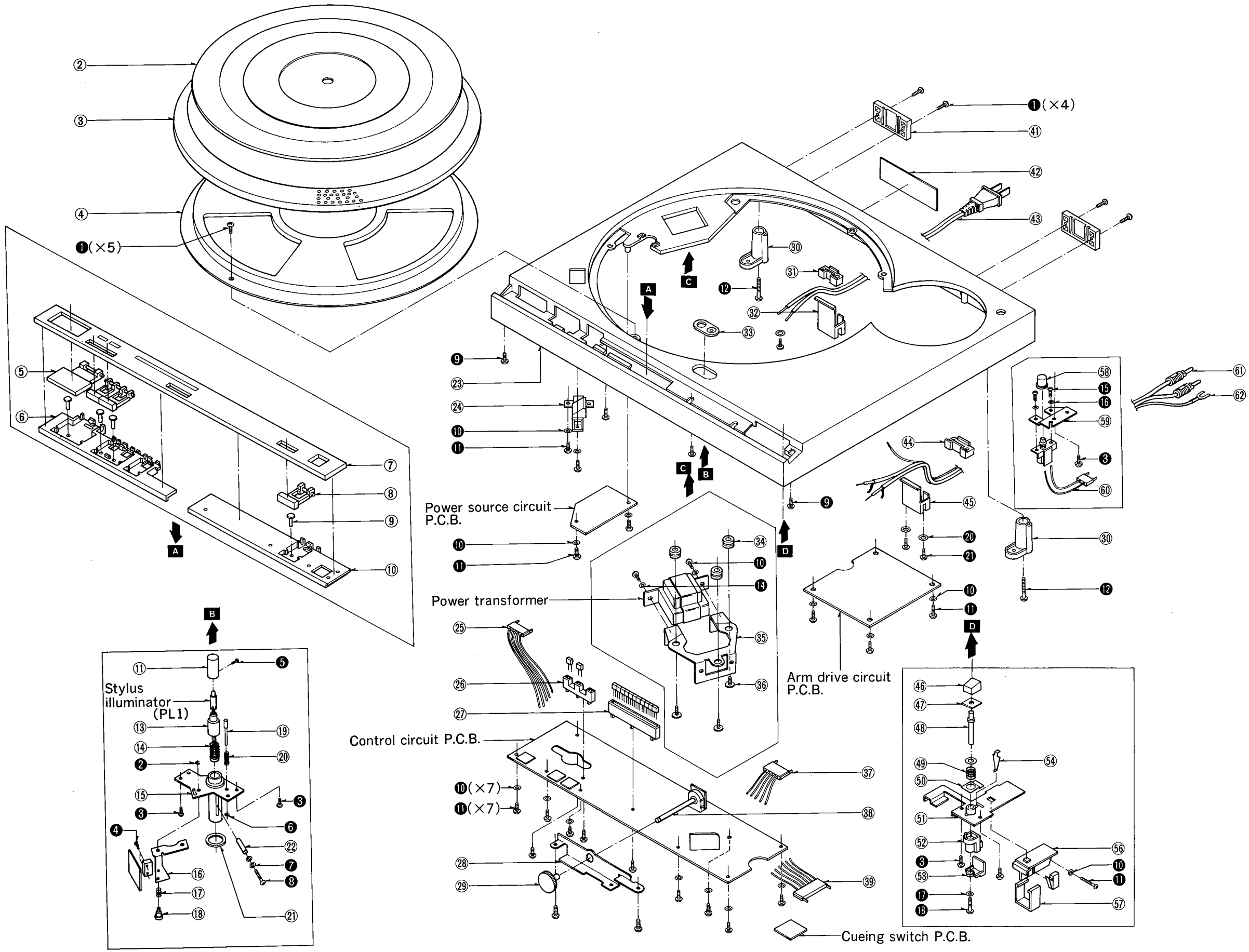
Ref. No.		Part No.	Part Name & Description
			INTEGRATED CIRCUITS
		SVIμPC14312	Integrated Circuit, Reference Voltage
01		AN6675	Integrated Circuit, Drive
201		AN6680	Integrated Circuit, Control
301		AN6682	SVITC4011BP
302, 427, 455		SVITC4011BP	Integrated Circuit
456, 457, 459			
425, 426, 460		SVITC4013BP	Integrated Circuit, CMOS
428		AN6552	Integrated Circuit
429		SVIMS1901P	Integrated Circuit
458		SVITC4023BP	Integrated Circuit
501		SVIMSM4011M	Integrated Circuit
			TRANSISTORS
		2SD389	Transistor
, 3, 202		2SD637	Transistor
01		2SC1846	Transistor
03		2SC1328	Transistor
25, 426, 428,		2SD636	Transistor
29, 455, 456,			
57, 501, 502,			
03, 504, 508,			
09, 512, 513			
27		2SC1047	Transistor
30, 505		2SB641	Transistor
06, 510		2SD638	Transistor
07, 511		2SB643	Transistor
			DIODES
, 3	⚠	**SVDS1RBA40**	Rectifier
, 301		**MA1051**	Diode, 5V Zener
04, 425, 427,			
28, 451, 457,		**MA161**	Diode
58, 459, 501,			
02, 503, 504,			
05			
26		MA26TO-A	Diode
29~434, 442		SVDGL9PR2	Light Emitting Diode, Pitch Control, Speed Selector
36~441, 443			
35		SVDGL9PG2	Light Emitting Diode, Pitch Control
55, 456		**2-OA90**	Diode
44, 445, 446,		SVDGD4205ALC	Light Emitting Diode
47, 448, 449,			
50			
			CRYSTAL
01		SVQU306115	Crystal, 4.19328MHz Oscillator
			TRANSFORMER
.	⚠	SLT60EU6B	Transformer, Power Source
			LAMP
1		SFDN172-01	Lamp, Stylus Illuminator
			FUSE
	⚠	XBA2F04NU100	Fuse, 400mA (250V)
[MC] only	⚠	XBA1F10NU100	Fuse, 1A (125V)
			VARIABLE RESISTORS
201		EVLS6AA00B54	Braking Adjustment, 50kΩ(B)
301		EVMH1GA00B53	Pitch Control ±0% Adjustment, 5kΩ(B)
425		EVTS6AA00B52	Pitch Control LED Adjustment, 500Ω(B)
426		EVHJXB001A24	Pitch Control and Pitch Control Switch
501		EVLS6AA00B24	Optical Sensor Gain Adjustment, 20kΩ(B)
502		EVLS6AA00B55	Auto-Return Time Adjustment, 500kΩ(B)
			SWITCHES

Ref. No.		Part No.	Part Name & Description
S401~404		EVQP5R04K	Switch, Stop, 33 r.p.m. and 45 r.p.m. Selector
S406		SFDSD2MSL-4	Switch, Stylus Illuminator
S407, 408		SFDSD2MS	Switch, Cueing Down, Cueing Up
S501		ESB6237	Switch, Manual
S601	⚠	SFDSSS5GL2	Switch, Power
S701		SFDSHSW0665B	Switch, Muting
			PHOTO INTERRUPTER
PH402		ON1128	Photo Interrupter
			RESISTORS
R1		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ± 5%
R2		**ERD25FJ682**	Carbon, 6.8kΩ, 1/4W, ± 5%
R3		**ERD25FJ272**	Carbon, 2.7kΩ, 1/4W, ± 5%
R4		**ERD25FJ471**	Carbon, 470Ω, 1/4W, ± 5%
R5		**ERD25TJ471**	Carbon, 470Ω, 1/4W, ± 5%
R101		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R102		ERX1ANJ4R7	Metal Film, 4.7Ω, 1W, ± 5%
R103		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R104		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R105		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R106		**ERD25FJ150**	Carbon, 15Ω, 1/4W, ± 5%
R107	⚠	ERX1ANJ1R5	Metal Film, 1.5Ω, 1W, ± 5%
R108		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R109, 110		ERX1ANJ4R7	Metal Film, 4.7Ω, 1W, ± 5%
R201	⚠	ERG1ANJ561	Metal Oxide, 560Ω, 1W, ± 5%
R202		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R203		**ERD25FJ470**	Carbon, 47Ω, 1/4W, ± 5%
R204		**ERD25FJ272**	Carbon, 2.7kΩ, 1/4W, ± 5%
R205		**ERD25TJ124**	Carbon, 120kΩ, 1/4W, ± 5%
R206		**ERD25TJ183**	Carbon, 18kΩ, 1/4W, ± 5%
R207		**ERD25TJ563**	Carbon, 56kΩ, 1/4W, ± 5%
R208		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ± 5%
R209		**ERD25TJ154**	Carbon, 150kΩ, 1/4W, ± 5%
R210		**ERD25TJ183**	Carbon, 18kΩ, 1/4W, ± 5%
R211		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R212		**ERD25FJ121**	Carbon, 120Ω, 1/4W, ± 5%
R213		**ERD25FJ122**	Carbon, 1.2kΩ, 1/4W, ± 5%
R214		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R215		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R216		**ERD25TJ154**	Carbon, 150kΩ, 1/4W, ± 5%
R217		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R218		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R219		**ERD25FJ332**	Carbon, 3.3kΩ, 1/4W, ± 5%
R220		**ERD25FJ221**	Carbon, 220Ω, 1/4W, ± 5%
R221		**ERD25FJ471**	Carbon, 470Ω, 1/4W, ± 5%
R222		**ERD25FJ391**	Carbon, 390Ω, 1/4W, ± 5%
R301		ERO25CKF3301	Metal Film, 3.3kΩ, 1/4W, ± 1%
R302		**ERD25FJ471**	Carbon, 470Ω, 1/4W, ± 5%
R303		**ERD25FJ822**	Carbon, 8.2kΩ, 1/4W, ± 5%
R304		**ERD25FJ152**	Carbon, 1.5kΩ, 1/4W, ± 5%
R306		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R307		**ERD25TJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R308, 309		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R425		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R426, 427		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R428		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R429		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R430, 431		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R432		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R433		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R434		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R435		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R436		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ± 5%
R437		**ERD25FJ152**	Carbon, 1.5kΩ, 1/4W, ± 5%
R438		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ± 5%
R439		ERO25CKF1802	Metal Film, 18kΩ, 1/4W, ± 1%
R440		ERO25CKF4303	Metal Film, 430kΩ, 1/4W, ± 1%
R441		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R442		**ERD25FJ471**	Carbon, 470Ω, 1/4W, ± 5%

Ref. No.		Part No.	Part Name & Description
R443		**ERD25FJ101**	Carbon, 100Ω, 1/4W, ± 5%
R444		**ERD25FJ681**	Carbon, 680Ω, 1/4W, ± 5%
R445		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R446		**ERD25FJ222**	Carbon, 2.2kΩ, 1/4W, ± 5%
R447		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R448		**ERD25TJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R449		**ERD25FJ152**	Carbon, 1.5kΩ, 1/4W, ± 5%
R450		**ERD25FJ821**	Carbon, 820Ω, 1/4W, ± 5%
R451		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R455		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R456		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R457		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R458		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R459		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R460		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R461, 462		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ± 5%
R463		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R464		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ± 5%
R465		**ERD25FJ681**	Carbon, 680Ω, 1/4W, ± 5%
R466		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ± 5%
R467		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R468		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R469		**ERD25FJ681**	Carbon, 680Ω, 1/4W, ± 5%
R470		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ± 5%
R471		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R472		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R473		**ERD25TJ474**	Carbon, 470kΩ, 1/4W, ± 5%
R474		**ERD25FJ681**	Carbon, 680Ω, 1/4W, ± 5%
R475, 476		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R477, 478		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R479		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ± 5%
R480		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R481		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ± 5%
R482		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R483		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R484		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R485		**ERD25TJ474**	Carbon, 470kΩ, 1/4W, ± 5%
R486		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R487		**ERD25TJ474**	Carbon, 470kΩ, 1/4W, ± 5%
R488, 489		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R501		**ERD25FJ681**	Carbon, 680Ω, 1/4W, ± 5%
R502		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R503		**ERD25TJ183**	Carbon, 18kΩ, 1/4W, ± 5%
R504		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R505, 506		**ERD25TJ274**	Carbon, 270kΩ, 1/4W, ± 5%
R507		**ERD25TJ274**	Carbon, 270kΩ, 1/4W, ± 5%
R508		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ± 5%
R509		**ERD25FJ221**	Carbon, 220Ω, 1/4W, ± 5%
R510		**ERD25TJ824**	Carbon, 820kΩ, 1/4W, ± 5%
R511		**ERD25TJ333**	Carbon, 33kΩ, 1/4W, ± 5%
R512		**ERD25TJ183**	Carbon, 18kΩ, 1/4W, ± 5%
R513		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R514		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R515		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R516		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R517		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ± 5%
R518		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R519		**ERD25FJ332**	Carbon, 3.3kΩ, 1/4W, ± 5%
R520		**ERD25FJ222**	Carbon, 2.2kΩ, 1/4W, ± 5%
R521		**ERD25FJ471**	Carbon, 470Ω, 1/4W, ± 5%
R522		**ERD25TJ473**	Carboh, 47kΩ, 1/4W, ± 5%
R523		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R524		**ERD25FJ332**	Carbon, 3.3kΩ, 1/4W, ± 5%
R525		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R526		**ERD25FJ471**	Carbon, 470Ω, 1/4W, ± 5%
R527		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R528		**ERD25FJ681**	Carbon, 680Ω, 1/4W, ± 5%
R529, 530		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R531		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ± 5%
R601	⚠	**ERD25TJ4R7**	Carbon, 4.7Ω, 1/4W, ± 5%

Ref. No.		Part No.	Part Name & Description
			CAPACITORS
C1		**ECEB1HS471**	Electrolytic, 470μF, 50V
C2		**ECEA1VS330**	Electrolytic, 33μF, 35V
C3		**ECEA1ES220**	Electrolytic, 22μF, 25V
C4		**ECEB1HS471**	Electrolytic, 470μF, 50V
C5		**ECEA1ES101**	Electrolytic, 100μF, 25V
C101, 102		**ECEA1VS330**	Electrolytic, 33μF, 35V
C103		**ECEA1VS330**	Electrolytic, 33μF, 35V
C104, 105		ECQM1H104KZ	Polyester, 0.1μF, 50V, ±10%
C106, 107		ECQM1H104KZ	Polyester, 0.1μF, 50V, ±10%
C108		**ECEA1ES101**	Electrolytic, 100μF, 25V
C109, 110		ECQM1H104KZ	Polyester, 0.1μF, 50V, ±10%
C111		ECQM1H562KZ	Polyester, 0.0056μF, 50V, ±10%
C112		**ECEA1JS4R7**	Electrolytic, 4.7μF, 63V
C201		**ECEA1CS330**	Electrolytic, 33μF, 16V
C202, 203		**ECEA50Z1**	Electrolytic, 1μF, 50V
C204		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C205		**ECEA1AS221**	Electrolytic, 220μF, 10V
C206		**ECEA50Z1**	Electrolytic, 1μF, 50V
C207		ECCD1H101K	Ceramic, 100pF, 50V, ±10%
C208		ECCD1H390K	Ceramic, 39pF, 50V, ±10%
C209		**ECEA1ES101**	Electrolytic, 100μF, 25V
C210		ECQM1H224KZ	Polyester, 0.22μF, 50V, ±10%
C211		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C212		**ECEA50Z3R3**	Electrolytic, 3.3μF, 50V
C213		ECCD1H471K	Ceramic, 470pF, 50V, ±10%
C214		**ECEA1ES101**	Electrolytic, 100μF, 25V
C215		**ECEA50Z1**	Electrolytic, 1μF, 50V
C216		**ECEA1ES470**	Electrolytic, 47μF, 25V
C301, 302		ECQK1123FZ	Polyester, 0.012μF 125V, ± 1%
C303		**ECEA50Z1**	Electrolytic, 1μF, 50V
C304		**ECEA1HS100**	Electrolytic, 10μF, 50V
C305		ECQM1H122KZ	Polyester, 0.0012μF, 50V, ±10%
C306		**ECEA50Z1**	Electrolytic, 1μF, 50V
C425, 426		ECCD1H101K	Ceramic, 100pF, 50V, ±10%
C427, 428		ECCD1H101K	Ceramic, 100pF, 50V, ±10%
C429, 430		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C431		**ECEA1HS100**	Electrolytic, 10μF, 50V
C432, 433		ECKD1E104ZF	Ceramic, 0.1μF, 25V, +80% −20%
C434, 435		ECKD1E104ZF	Ceramic, 0.1μF, 25V, +80% −20%
C455, 456		**ECEA50ZR47**	Electrolytic, 0.47μF, 50V
C457		ECQM1H102KZ	Polyester, 0.001μF, 50V, ±10%
C458		ECQM1H103KZ	Polyester, 0.01μF, 50V, ±10%
C459		**ECEA50ZR47**	Electrolytic, 0.47μF, 50V
C460		ECQM1H562KZ	Polyester, 0.0056μF, 50V, ±10%
C461		ECQM1H102KZ	Polyester, 0.001μF, 50V, ±10%
C462		**ECEA50ZR47**	Electrolytic, 0.47μF, 50V
C463		ECQM1H562KZ	Polyester, 0.0056μF, 50V, ±10%
C464, 465		**ECEA50ZR47**	Electrolytic, 0.47μF, 50V
C466		**ECEA1HS100**	Electrolytic, 10μF, 50V
C467, 468		ECQM1H103KZ	Polyester, 0.01μF, 50V, ±10%
C469		**ECEA50ZR47**	Electrolytic, 0.47μF, 50V
C470		ECKD1E104ZF	Ceramic, 0.1μF, 25V, +80% −20%
C471		**ECEA1ES470**	Electrolytic, 47μF, 25V
C472		ECKD1E104ZF	Ceramic, 0.1μF, 25V, +80% −20%
C473		**ECEA1ES470**	Electrolytic, 47μF, 25V
C501		**ECEA50ZR1**	Electrolytic, 0.1μF, 50V
C502		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C503		ECQM1H184KZ	Polyester, 0.18μF, 50V, ±10%
C504		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C505		**ECEA25Z4R7**	Electrolytic, 4.7μF, 25V
C506		ECQM1H104KZ	Polyester, 0.1μF, 50V, ±10%
C507, 508		ECQM1H103KZ	Polyester, 0.01μF, 50V, ±10%
C509		ECKD1E104ZF	Ceramic, 0.1μF, 25V, +80% −20%
C510		**ECEA1ES101**	Electrolytic, 100μF, 25V
C601 [M]	⚠	ECQF1A473MD	Polypropylene, 0.047μF, 400V, ±20%
C601 [MC]	⚠	ECQU1A473ME	Polyester, 0.047μF, 400V, ±20%

EXPLODED VIEW (Main Base)



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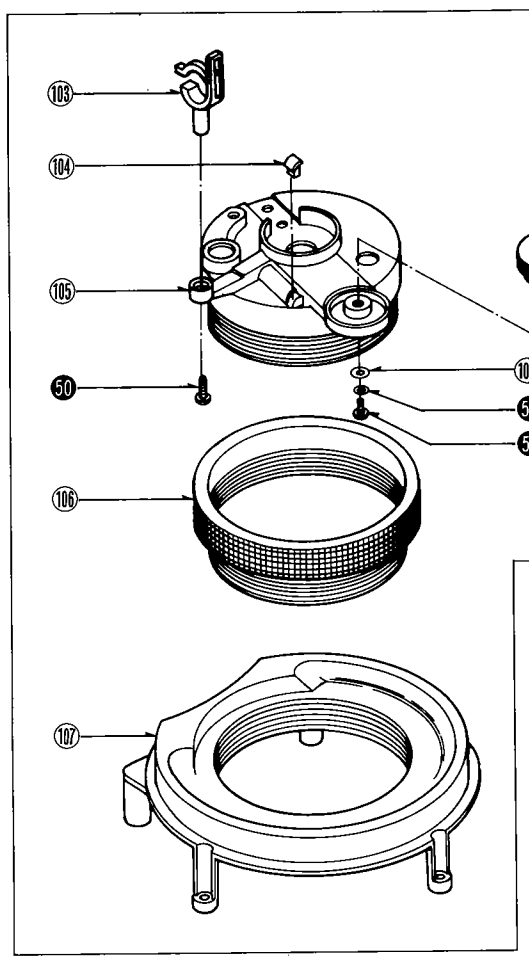
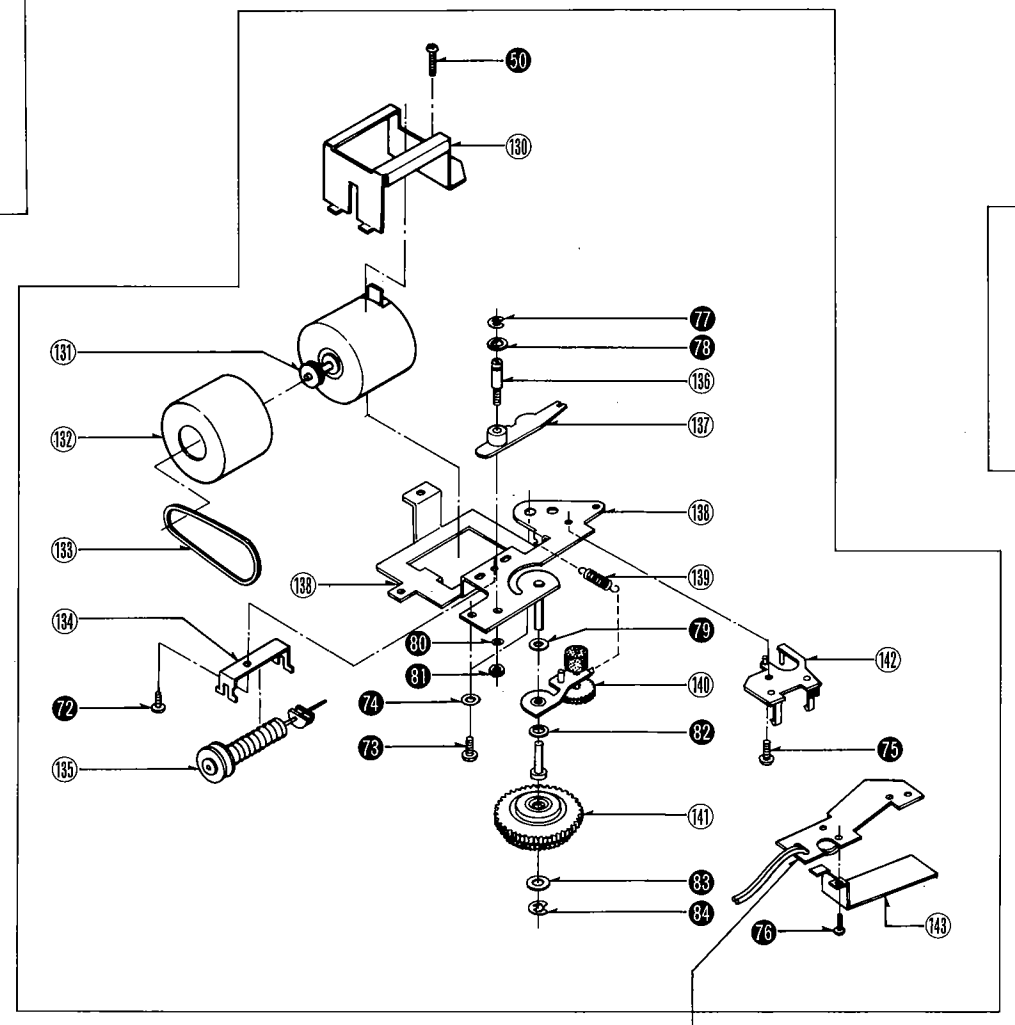
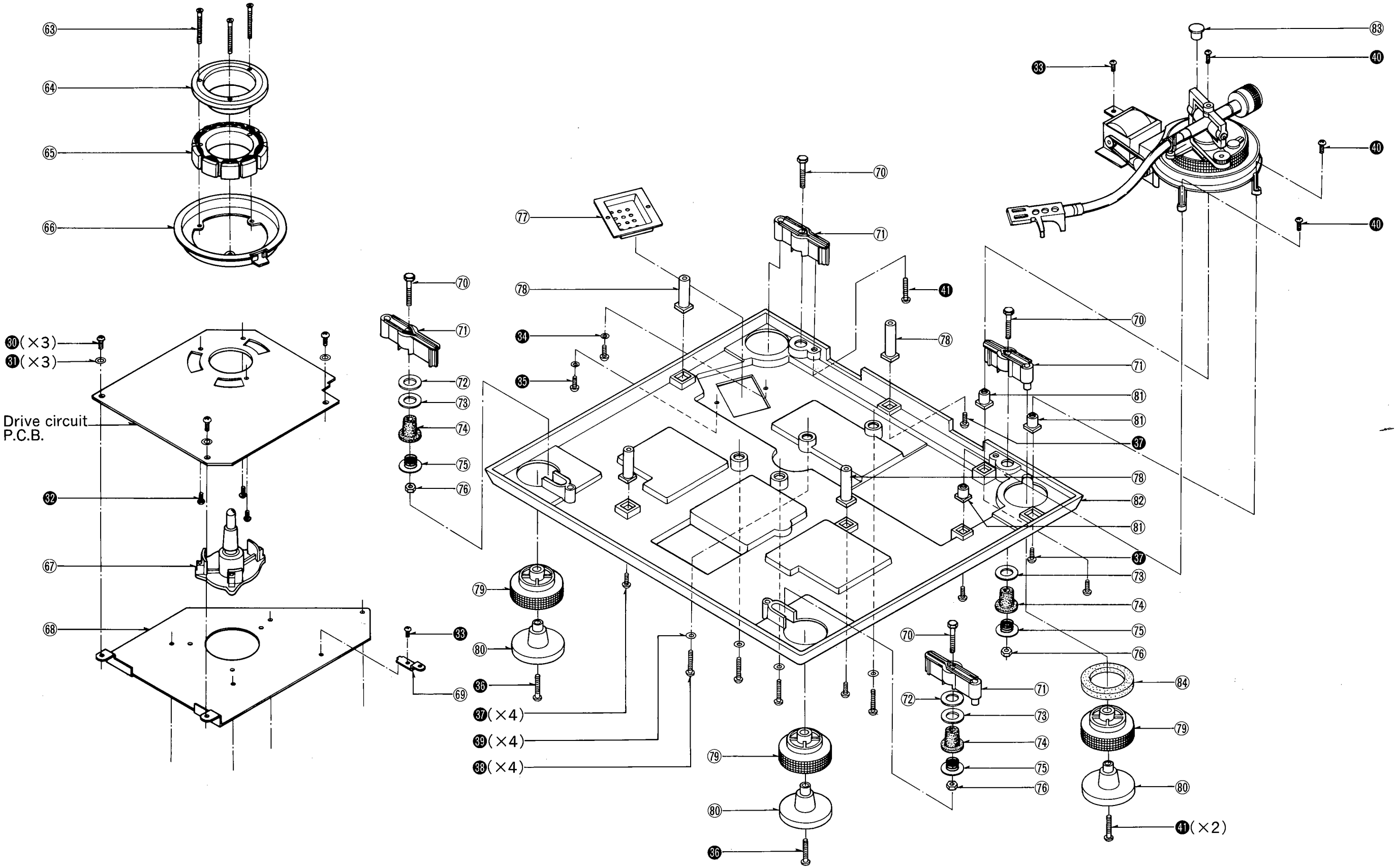
■ EXPLODED VIEW (Tone Arm and Arm Base)





PU output P.C.B.

■ EXPLODED VIEW (Bottom Base)



■ REPLACEMENT PARTS LIST (Main Base and Bottom Base Parts)

Notes: 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts orders.
2. ⚠ indicates that only parts specified by the manufacture be used for safety.

Ref. No.		Part No.	Part Name & Description
CABINET and CHASSIS PARTS			
1		SFAD172-01E	Dust Cover
2		SFTG172-01	Turntable Mat
3		SFTE172-01Z	Turntable
4		SFUM172-05	Cover, Turntable
5		SFKT172-02	Button, Start/Stop Switch
6		SFUM172-02	Bracket (A), Operation Panel
7		SFUM172-01	Panel, Operation
8		SFKT172-03	Button, Speed Selector, Cueing Switch
9		SFUM172-11	Pin, Switch
10		SFUM172-03	Bracket (B), Operation Panel
11		SFKK172-01	Cover, Lamp
13		SFXB172-02	Boss, Drive
14		SFQA172-01	Spring, Drive Boss
15		SFUP172-01E	Plate Assembly, Stylus Illuminating Lamp
16		SFUP172-03	Plate, Lock Operation
17		SFQA001-02	Spring, Lock Operation Plate Pin
18		SFXJ172-05	Pin, Lock Operation Plate M'tg
19		SFXJ172-01	Pin, Lock Canceler
20		SFQA520-01	Spring, Lock Canceler Pin
21		SFUZ172-02	Rubber
22		SFXO172-01	Pin, Guide
23		SFAC172-01	Cabinet
24		SFUM130-01	Cover, Neon
25		SFDJ172-02E	Connector, 7 Pin
26		SFUM170-10	Spacer (A), Speed Selector LED
27		SFUM172-09	Spacer (B), Speed Selector LED
28		SFUP172-06	Bracket, Pitch Control Knob Plate
29		SFKT172-04	Knob, Pitch Control
30		SFAZ172-01	Supporter, Insulator
31		SFUM170-06	Spacer, AC Cord
32		SFUM170-05	Clamper, AC Cord
33		SFUM172-04	Ornament, Stylus Illuminating Lamp
34		SFGC132-01	Spacer (Rubber), Power Transformer Bracket
35		SFUP132-03	Bracket, Power Transformer
36		SFXG132-02	Screw, Power Transformer Bracket M'tg
37		SFDJ172-01E	Connector, 6 Pin
38		SFUP172-09	Bracket, Volume Shaft
39		SFDJ172-03E	Connector, 9 Pin
		SFAT172-01A	Hinge Ass'y
41		SFUM170-07	Case, Hinge Ass'y
42 [M]		SFNN172M01	Name Plate
42 [MC]		SFNN172C01	Name Plate
43	⚠	RJA9YA	AC Cord
44		SFUM170-06	Spacer, Phono Cord
45		SFUM170-11	Clamper Phono Cord
46		SFKT172-01	Button, Power Switch
47		SFUZ172-03	Spacer, Power Switch Button
48		SFXJ172-03	Shaft, Power Switch Button
49		SFQA172-02	Spring, Power Switch
50		SFUP172-04	Supporter, Power Switch Plate
51		SFUP172-02E	Bracket, Power Switch M'tg Plate Assembly
52		SFUM001-11	Cam, Power Switch
53		SFUM132-07	Cam, Power Switch
54		SFUP001-03	Bracket, Power Switch
56		SFUM132-05	Holder, Power Switch
57		SFUM132-06	Holder, Power Switch
58		SFKT132-07	Knob, Auto Return Switch

Ref. No.		Part No.	Part Name & Description
59		SFUP172-10	Bracket, Auto Return Switch
60		SFDJ172-04E	Connector, 3 Pin
61 [M]		SFDH360M01	Phono Cord
61 [MC]		SFDH028-01	Phono Cord
62		SFEL028-01E	Ground Wire
63		SFXGQ20-03	Screw, Stater Frame M'tg
64		SFMGQ20-01	Cover, Stater Frame Ass'y
65		SFMG520-31A	Stater Frame
66		SFMZ172-01E	FG Detector Coil Ass'y
67		SFMZQ20-01A	Shaft, Stater Frame Ass'y
68		SFUP172-05	Bracket, Stater Frame M'tg Plate
69		SFUP172-08	Bracket, Drive P.C.B. Ass'y
70		XVG4C30	Screw, Insulator (A) M'tg
71		SFUM172-06	Insulator (A)
72		SFXW172-01	Washer, Insulator (A)
73		SFXW172-02	Washer, Insulator
74		SFGA170-01	Rubber, Insulator
75		SFQC170-01	Spring, Unsulator
76		SFXG170-02E	Nut, Insulator (A) M'tg
77		SFUP132-01	Cover, Power Transformer
78		SFUM172-12	Spacer, Clamper
79		SFUM172-07	Insulator Cup
80		SFGA172-01	Insulator Rubber
81		SFUM172-13	Spacer, Tone Arm
82		SFAU172-02	Bottom Board
83		SFGK132-01	Cap, Rubber
84		SFUZ172-04	Rubber Cushion, Insulator
SCREWS, WASHERS and CIRCLIPS			
❶		**XTN3+8BFZ**	Screw
❷		**XUC2FT**	Circlip
❸		**XTN3+8B**	Screw
❹		**XSN2+8**	Screw
❺		XSN17+3FY	Screw
❻		**XUC25FT**	Circlip
❼		**XWA3B**	Washer
❽		XSN3+14S	Screw
❾		XTV3+8GF	Screw
❿		**XWG3**	Washer
⓫		**XTB3+8BFN**	Screw
⓬		XTN4+20J	Screw
⓭		**XTN4+10B**	Screw
⓮		**XWA4B**	Washer
⓯		**XSN3+8S**	Screw
⓰		**XWA3B**	Washer
⓱		**XWA3B**	Washer
⓲		**XSN3+10S**	Screw
⓳		XWE3F8	Washer
⓴		**XTN3+12BFZ**	Screw
㉚		**XTB3+8BFZ**	Screw
㉛		**XWG3**	Washer
㉜		XTN3+8H	Screw
㉝		**XTN3+8B**	Screw
㉞		**XWA3B**	Washer
㉟		**XSN3+10S**	Screw
㊱		**XTN4+45B**	Screw
㊲		XTN4+14GFZ	Screw
㊳		**XTB3+25BFN**	Screw
㊴		**XWG3**	Washer
㊵		XTN3+8GFZ	Screw
㊶		**XTN4+25B**	Screw

■ REPLACEMENT PARTS LIST (Tone Arm and Arm Base Parts)

Notes: Part numbers are indicated on most mechanical parts.
Please use this part number for parts orders.

Ref. No.		Part No.	Part Name & Description
TONE ARM and ARM BASE PARTS			
100		SFPWG17201K	Balance Weight Ass'y
101		SFPAM17201K	Tone Arm Ass'y
102		SFPCC31001K	Head Shell
103		SFPRT17201K	Arm Rest
104		SFPZB17205	Rubber, Lift Cap
105		SFPKD17203	Arm Base
106		SFPKB17201S	Ring, Operation
107		SFPKD17201	Bracket, Arm Base
108		SFPAB17206	Knob, Anti-skate Force Control
109		SFPEW17201	Washer, Anti-skate Force Control Knob
110		SFXG829-1	Screw, Tone Arm Lift Adjustment
111		SFPRT17202K	Lift Ass'y
112		SFPZB17202	Knob, Arm Base Lock
113		SFQA829-03	Spring, Lift Ass'y
114		SFPAB17201K	Rift Ass'y
115		SFPZB17203K	Plate, Position Fix
117		SFUM172-58	Base, Muting Switch
118		SFXJ172-60	Shaft, Operation
119		SFUP172-60	Bracket, Switch Adjustment Plate
120		SFUK172-52E	Movable Base Assembly
121		SFUP172-59	Bracket, Switch Adjustment Plate
122		SFUM172-55	Cam, Lift
123		SFXW130-01	Clip, Muting Switch Base
124		SFUM172-57	Lever, Brake
125		SFGT172-51	Tube, Rubber
126		SFUM172-56	Lever, Muting
127		SFQA172-52	Spring, Base Supporter Assembly
128		SFPZB17251E	Base, Supporter Assembly
129		SFUM172-59	Rest, Senser Assembly
130		SFUP172-55	Bracket, Motor Assembly
131		SFMH172-51E	Motor Assembly
132		SFGZ172-52	Cover, Motor
133		SFGB172-51	Belt
134		SFUP172-58	Bracket, Worm Assembly
135		SFUG172-53E	Worm Assembly
136		SFXJ172-52	Shaft
137		SFUP172-52E	Bracket
138		SFUK172-51E	Bracket, Arm
139		SFQH172-51	Spring
140		SFUP172-51A	Bracket
141		SFUG172-52E	Base, Operating Gera Ass'y
142		SFUM172-61	Bracket, PU Output Cord
143		SFUP172-56	Shield Case
144		SFUM172-60A	Tone Arm Fixing Plate Ass'y
145		SFDJ172-05E	Socket, 9 Pin
SCREWS, WASHERS and CIRCLIPS			
㉚		**XTN3+8B**	Screw
㉛		**XTN26+6B**	Screw
㉜		**XWG26**	Washer
㉝		**XSN3+8S**	Screw
㉞		**XWA3B**	Washer
㉟		**XUC5FT**	Circlip
㊱		**XWG3**	Washer

Ref. No.		Part No.	Part Name & Description
㊲		**XTV3+6BFN**	Screw
㊳		XWE4A10EW	Washer
㊴		**XUC25FT**	Circlip
㊵		**XTV3+6BFN**	Screw
㊶		XWG5E12BW	Washer
㊷		**XTN3+25B**	Screw
㊸		XSN23+12	Screw
㊹		**XWE26BW**	Washer
㊺		**XWA26B**	Washer
㊻		SFXW910-08	Washer
㊼		**XUC3FT**	Circlip
㊽		XWE3A6BC	Washer
㊾		**XUC2FT**	Circlip
㊿		**XWE26BW**	Washer
(71)		**XSN26+6**	Screw
(72)		**XTN3+6B**	Screw
(73)		**XTV3+8BFN**	Screw
(74)		**XWG3**	Washer
(75)		**XTN3+8B**	Screw
(76)		**XTN3+12B**	Screw
(77)		**XUC3FT**	Circlip
(78)		**XWE4A10BW**	Washer
(79)		XWE4A10EW	Washer
(80)		**XWA3B**	Washer
(81)		**XNG3ES**	Nut
(82)		SFXW172-55	Washer
(83)		XWE3A6BC	Washer
(84)		**XUC2FT**	Circlip
(85)		**XWG3FZ**	Washer
(86)		**XWA3BFZ**	Washer
(87)		**XSN3+23BVS**	Screw
ACCESSORIES			
A1		SFWE212-01	Adaptor, 45 r.p.m.
A2		SFPEN3302	Nut, Cartridge
A3		SFPEW9601	Washer, Head Shell
A4		SFCZV8801	Screw, Cartridge
A5		SFPEV9801	Screw, Cartridge
A6		SFKO135-01	Overhang Gauge
A7		SFPZB3501	Shell Weight
PACKINGS			
P1 [M]		SFHP172M01	Carton
P2 [MC]		SFHP172C01	Carton
P3		SFHH172-01	Pad, Front
P4		SFHH172-02	Pad, Rear
P5		SFHD172-01	Pad, Top
P6		SFHD172-02	Pad, Turntable
P7		SFYH60X60	Polyethylene Cover, Turntable Unit
P8		SFYH60X60	Polyethylene Cover, Dust Cover
P9		SFYH40X45	Polyethylene Cover, Turntable
P10 [M]		SFNU172M01	Instruction Book, Printed Matter
P10 [MC]		SFNU172C01	Instruction Book, Printed Matter

Notes: * (M) is available in U.S.A. only.
* (MC) is available in Canada only.

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