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**THE VINYL ENGINE®**

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# Technical Information

**FILE THIS BULLETIN WITH  
YOUR SERVICE MANUAL.**

All direct drive and belt driven  
turntables having damped cueing.

## HOW TO ADD DAMPING FLUID

**SYMPTOM:** Tone arm drops rapidly onto  
record when cueing lever is  
released.

**CAUSE:** Loss of viscous (damping)  
fluid.

### APPLICABLE MODELS & SERIAL NO.

	METHOD A	METHOD B	METHOD C	METHOD D
SL-1300	—	All Units	—	—
SL-1350	—	All Units	—	—
SL-1400	—	All Units	—	—
SL-1500	—	All Units	—	—
SL-1600	From Ser. No. □□ <b>8124</b> □XXX	Up to Ser. No. □□ <b>8123</b> □XXX	—	—
SL-1650	From Ser. No. □□ <b>8124</b> □XXX	Up to Ser. No. □□ <b>8123</b> □XXX	—	—
SL-1700	From Ser. No. □□ <b>8124</b> □XXX	Up to Ser. No. □□ <b>8123</b> □XXX	—	—
SL-1800	From Ser. No. □□ <b>8124</b> □XXX	Up to Ser. No. □□ <b>8123</b> □XXX	—	—
SL-1900	From Ser. No. □□ <b>7921</b> □XXX	—	Up to Ser. No. □□ <b>7920</b> □XXX	—
SL-1950	From Ser. No. □□ <b>7921</b> □XXX	—	Up to Ser. No. □□ <b>7920</b> □XXX	—
SL-2000	—	All Units	—	—
SL-1301	All Units	—	—	—
SL-1401	All Units	—	—	—
SL-1300MK II	From Ser. No. □□ <b>7921</b> □XXX	—	—	Up to Ser. No. □□ <b>7920</b> □XXX
SL-1400MK II	From Ser. No. □□ <b>7921</b> □XXX	—	—	Up to Ser. No. □□ <b>7920</b> □XXX
SL-1500MK II	From Ser. No. □□ <b>7921</b> □XXX	—	—	Up to Ser. No. □□ <b>7920</b> □XXX
SL-1401	All Units	—	—	—
SL-210	All Units	—	—	—
SL-220	All Units	—	—	—
SL-230	All Units	—	—	—
SL-235	All Units	—	—	—
SL-3200	All Units	—	—	—
SL-3300	All Units	—	—	—
SL-3350	All Units	—	—	—

NOTE: Some models use different methods.

Be sure to note the Ser. No. of the model and the corresponding  
method as listed above.

# Technics

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## ■ METHOD A — Oil injection after removing the arm lift height adjust screw.

### Procedure:

- 1) Remove the arm lift height adjust screw, then take off the arm lift. (Fig. 1)
- 2) Insert the needle of the injector deep into the arm lift cylinder. (Fig. 2)
- 3) Inject sufficiently silicone oil and slowly pull the injector out.
- 4) Set the arm lift up, then tighten the screw.
- 5) Adjust arm lift height.

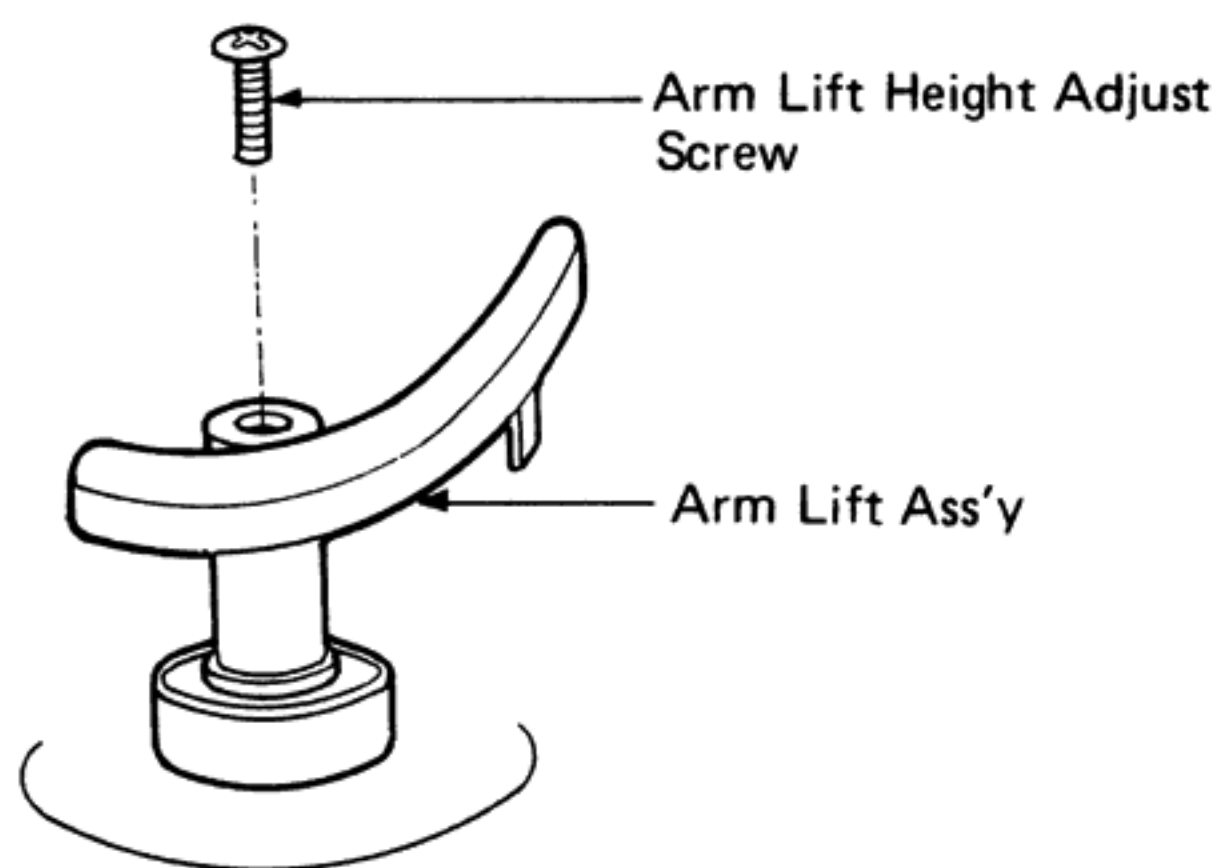


Fig. 1

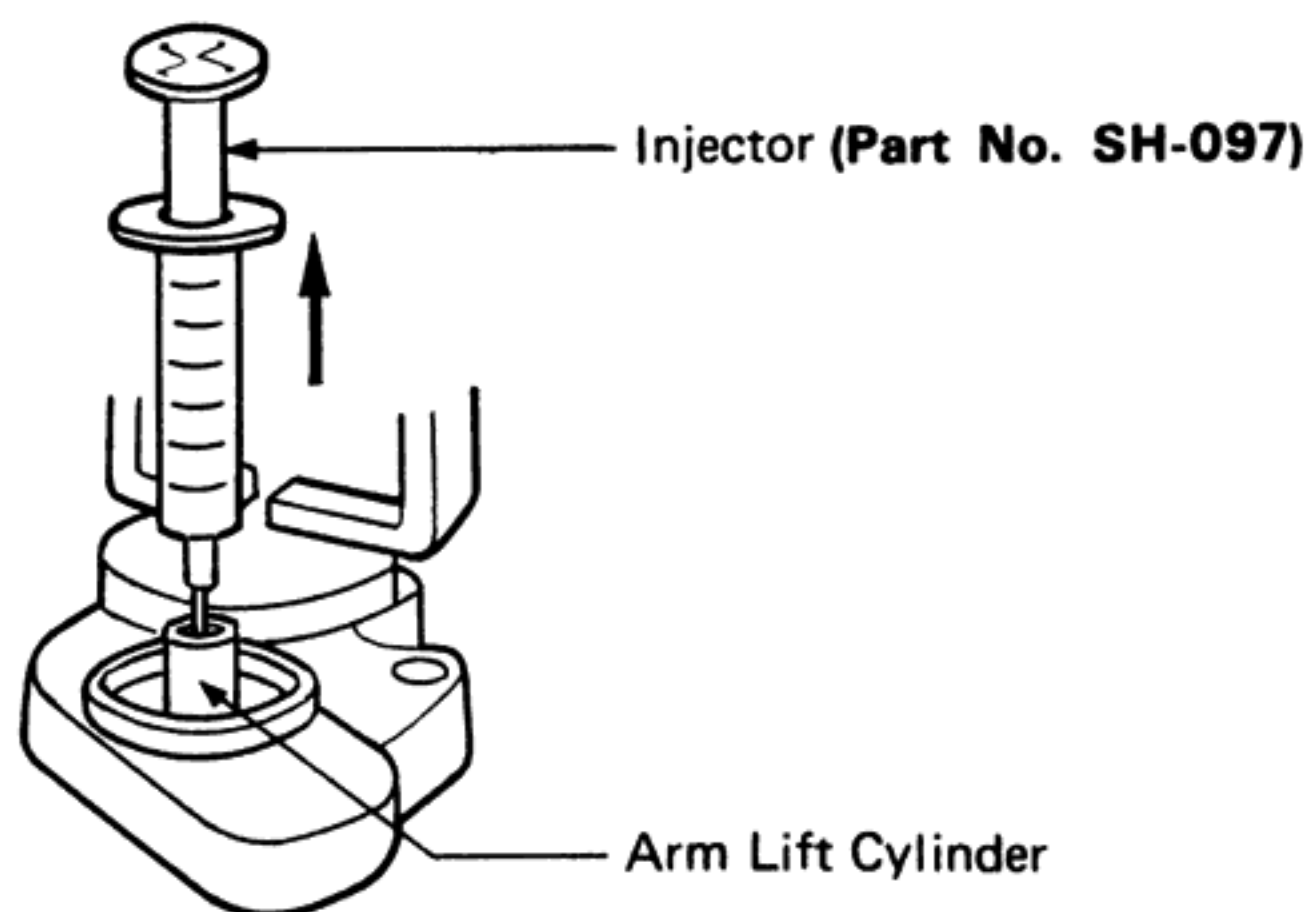


Fig. 2

## ■ METHOD B — Oil application after disassembling the arm lift.

### Procedure:

- 1) Remove the arm lift height adjust screw, then take off the arm lift.
- 2) Remove the bottom plate and the arm lift base.
- 3) Remove the E-ring and washer for the spring clamp attached to the arm lift base. Then detach the spring. (Fig. 3)
- 4) Pull the lift bar ass'y out and wipe off any silicone oil, then fill the sufficiently silicone oil at the ditch as illustrated in "Fig. 4."
- 5) Assemble the parts by reversing the disassembly procedure.
- 6) Adjust the height of the arm lift.

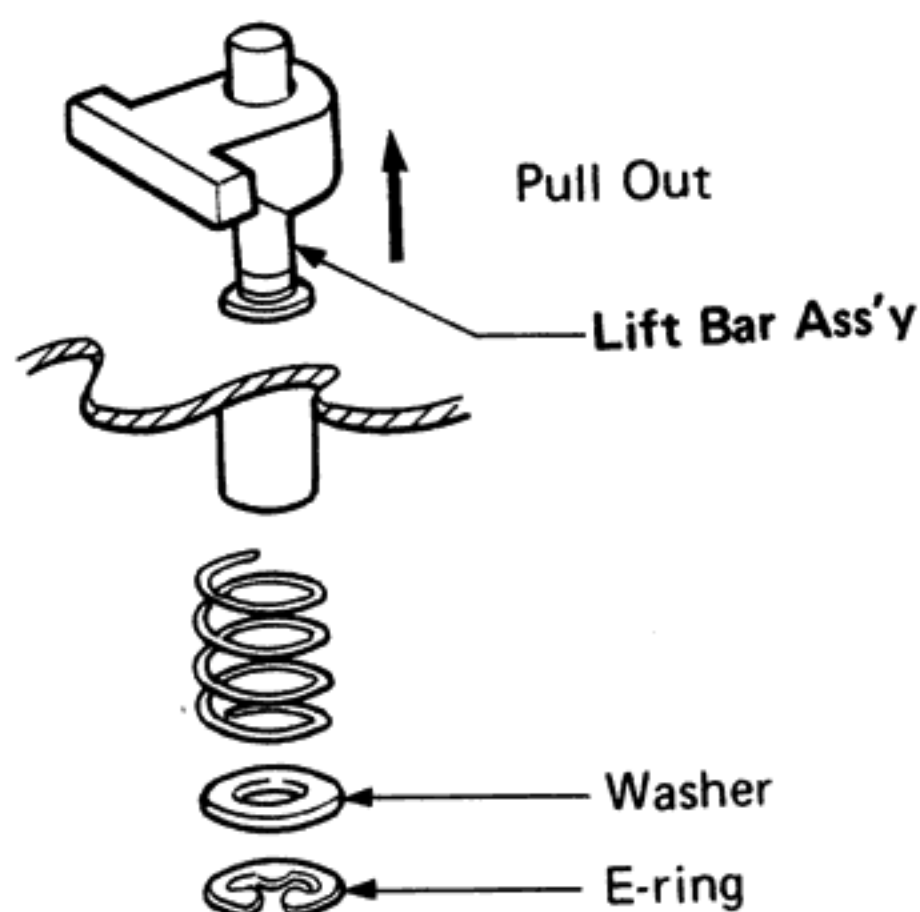


Fig. 3

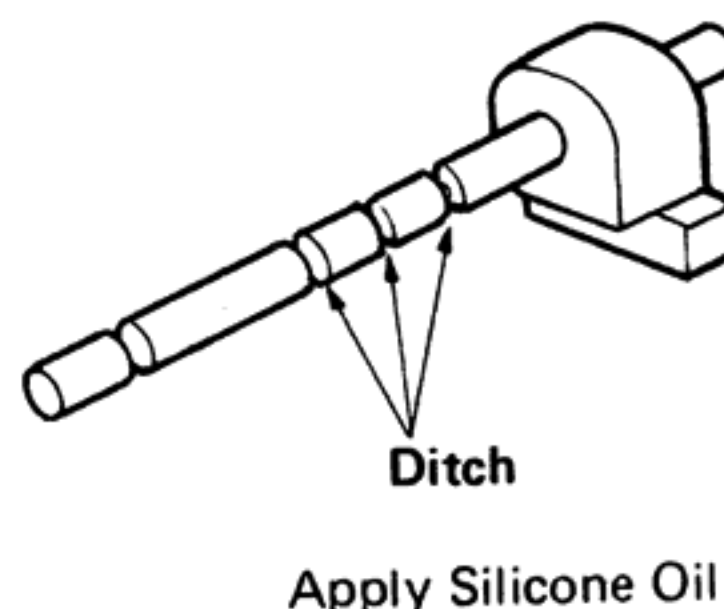


Fig. 4

## ■ METHOD C — Changing the arm lift base.

### Procedure:

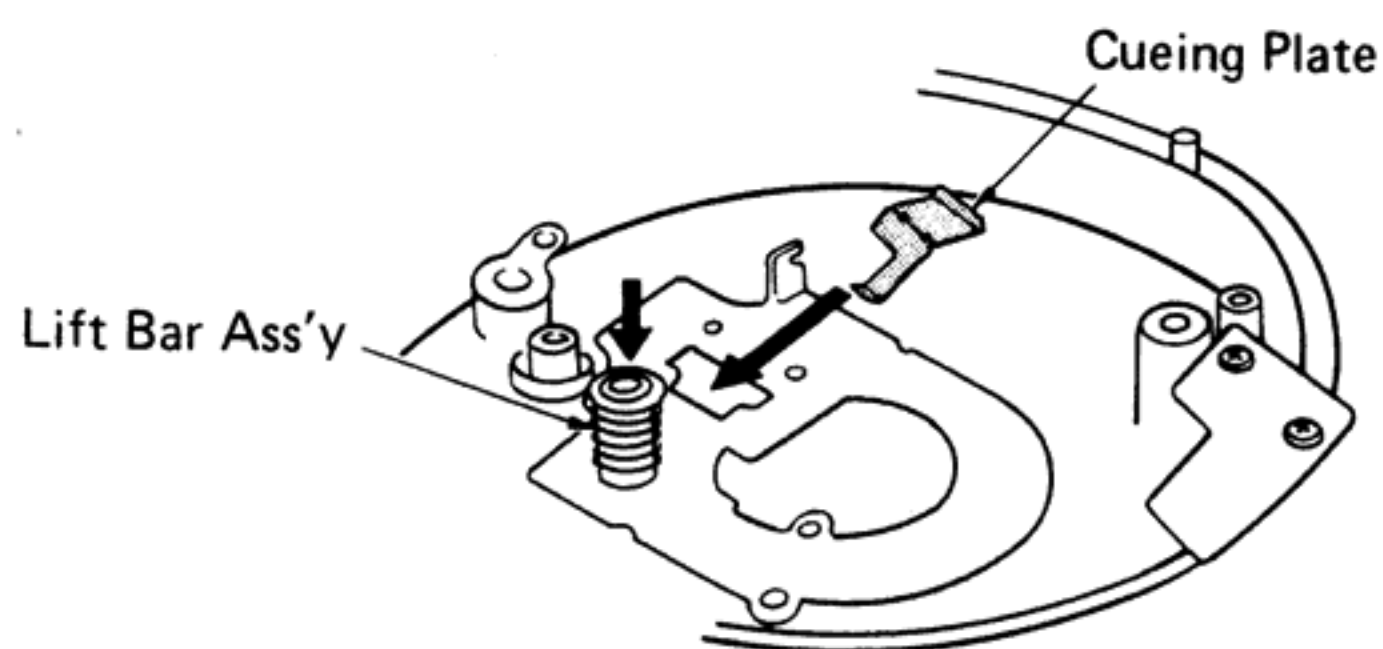
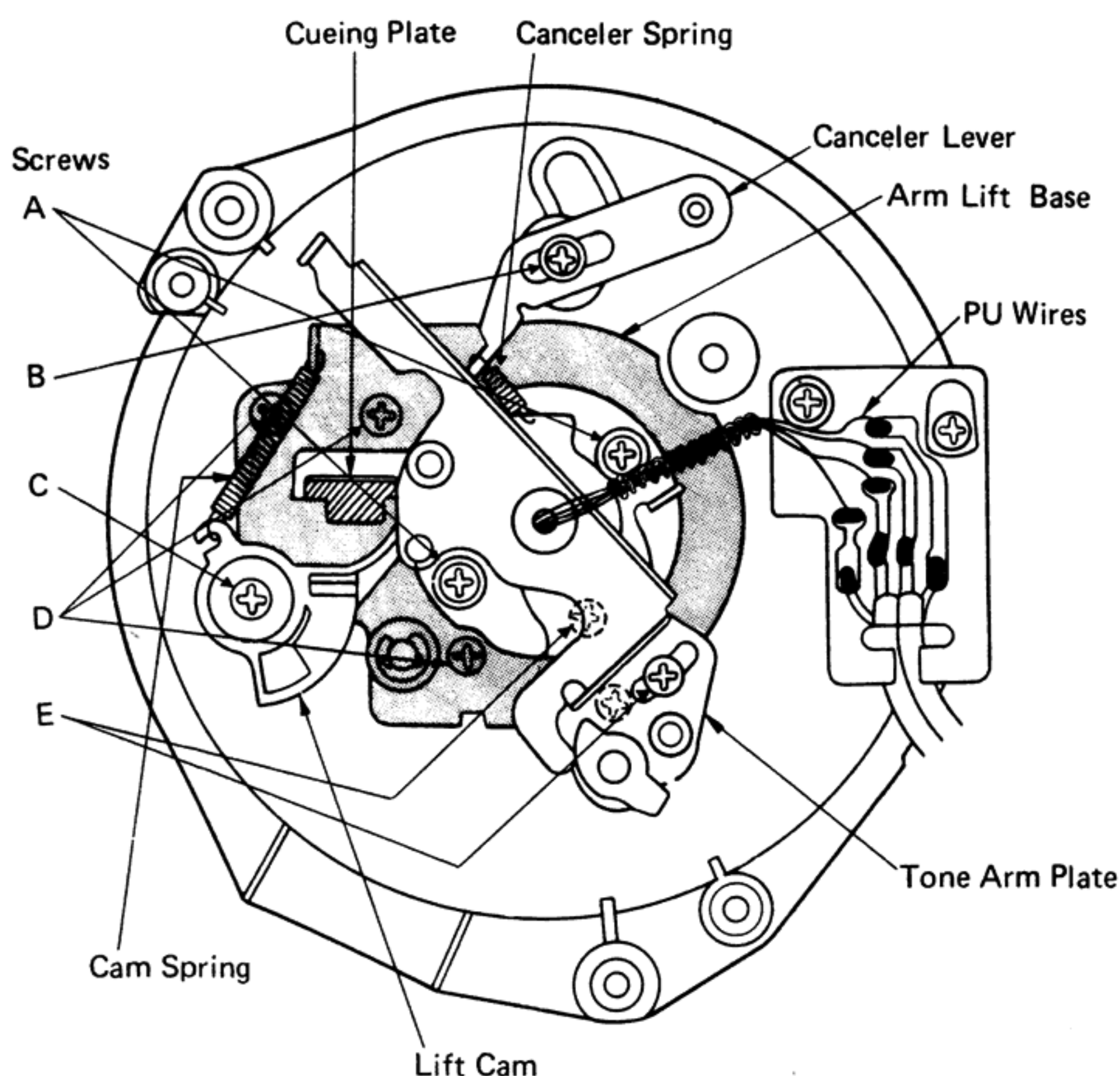
- 1) Remove the arm lift height adjust screw, then take off the arm lift.
- 2) Remove the bottom plate and the arm base.
- 3) After detaching the PU wires, remove the 2 "A" screws and screw "B", and then take off the tone arm and the canceler lever with the canceler spring.
- 4) Remove screw "C", then take off the lift cam with the cam spring.
- 5) Remove the 3 "D" screws and 2 "E" screws. Then remove the present arm lift base and install the new one (SFPAB19002A).

\* Be sure that the tone arm does not fall out of the plate.

**NOTE:** Take off the cueing plate before setting up the arm lift base.

After setting up the arm lift base, press the lift shaft down in the direction of the arrow "↓" in Fig. 6, and set up the cueing plate as in Fig. 5

- 6) After tightening the "D" and "E" screws up, check the movement of the lift bar ass'y and the cueing plate.
- 7) Assemble the parts by reversing the disassembly procedure (No. 5.4.3.2).
- 8) Pull the lift bar ass'y out and wipe off any silicone oil that may be adhering to it.
- 9) Apply silicone oil.
- 10) Assemble the parts by reversing the disassembly procedure.
- 11) Adjust the height of the arm lift.





## ■ METHOD D — Changing the lift bar ass'y

### Procedure:

- 1) Remove the arm lift height adjust screw, then pull the arm lift out.
- 2) Remove the bottom plate and the arm base.
- 3) After detaching the PU wires, remove screws **A**, **B** and **C**. Then take off the arm plate and the canceler lever with the canceler spring.
- 4) Remove the arm rest nut "**F**", and take the arm rest off.
- 5) Remove screws "**D**" and "**E**", then take the tone arm fixing plate ass'y off.
  - \* Because the spring that is inserted in screw "**D**" can easily become disengaged, be sure to keep the tone arm side down.
- 6) Remove the present lift bar ass'y and install the new one (**SFPAB13213K**).
  - \* Be sure that no grease adheres to the new part.
- 7) After setting up the new part and the arm lift base on the arm base, check the movement of cueing lever.
  - \* At this time make sure that the operating lever and the operating spring are placed as shown in Fig. 8.
- 8) Assemble the parts by reversing the disassembly procedure (No. 6, 5, 4, 3, 2)
- 9) Wipe off any silicone oil that may be adhering to the arm lift.
- 10) Apply sufficiently silicone oil, then assemble the parts.
- 11) Adjust the height of the arm lift.

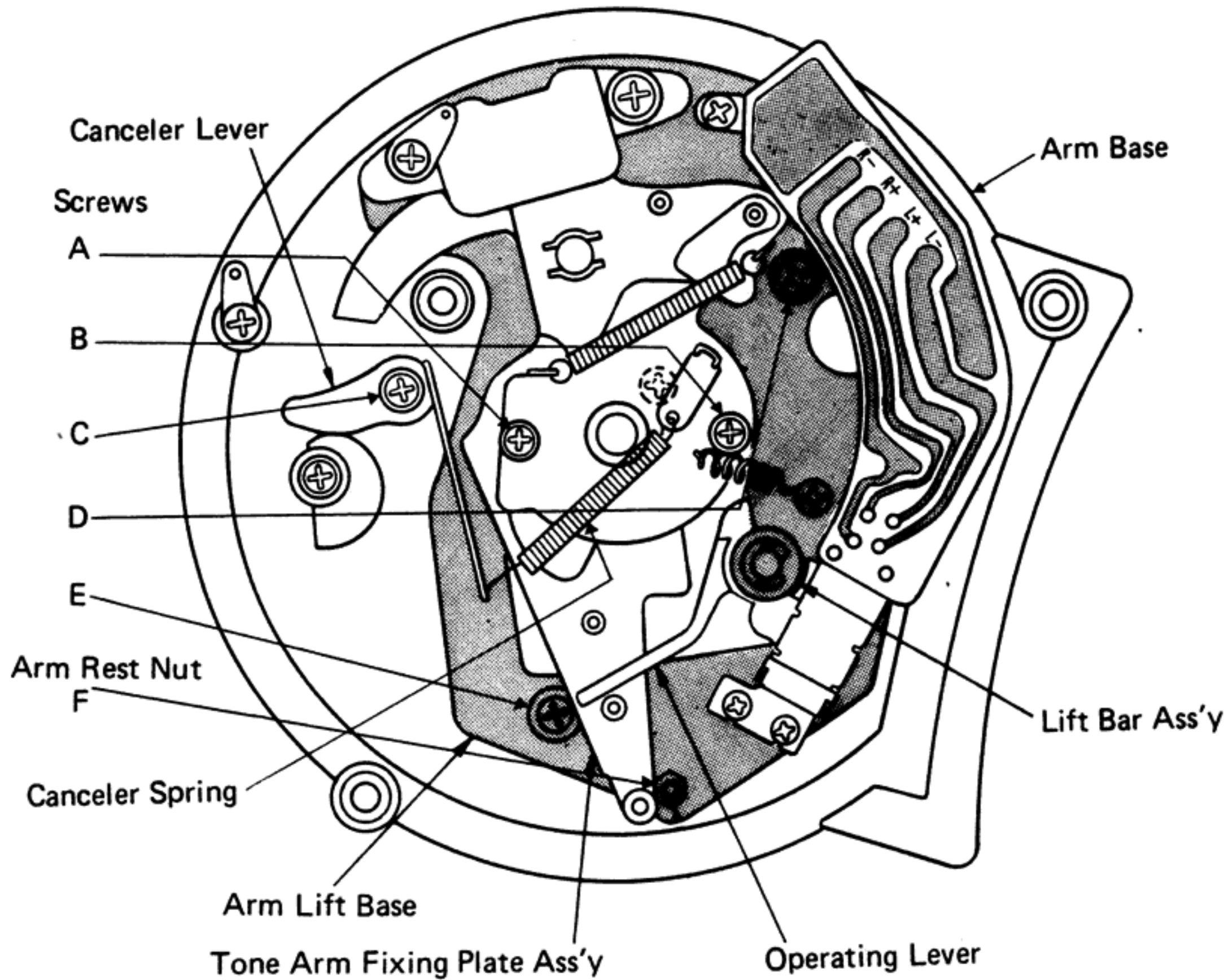


Fig. 7

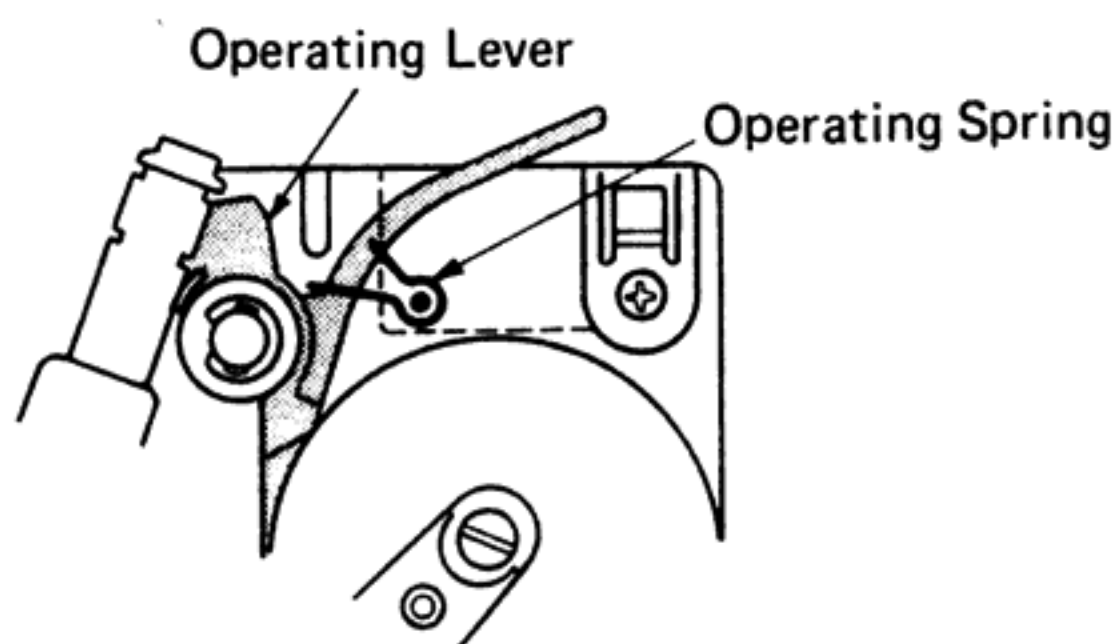


Fig. 8

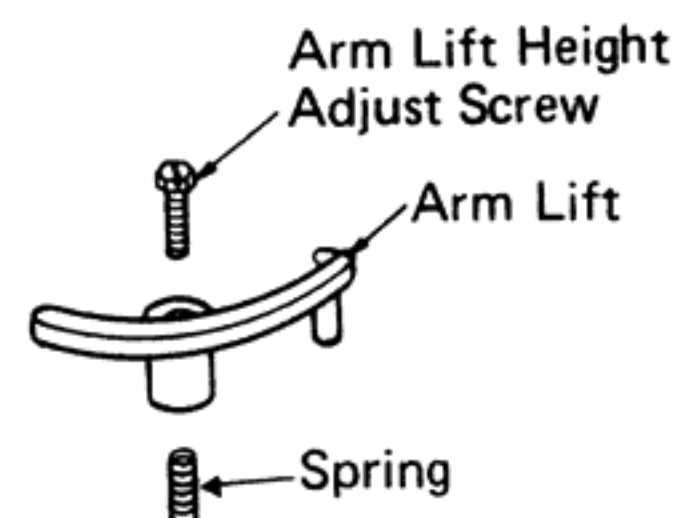


Fig. 9