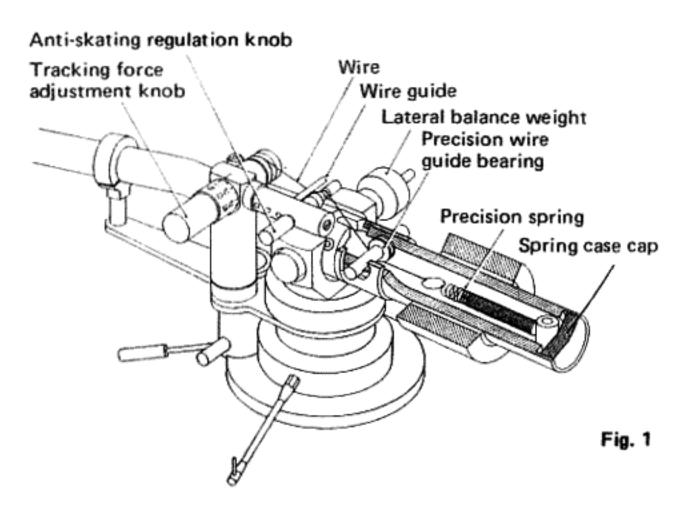
MICRO SEIKI®

MA-505

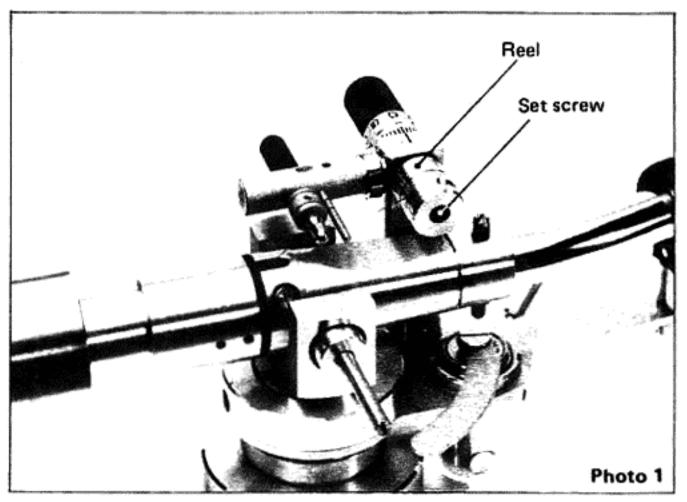
(DD-40's TONEARM)

SERVICE MANUAL

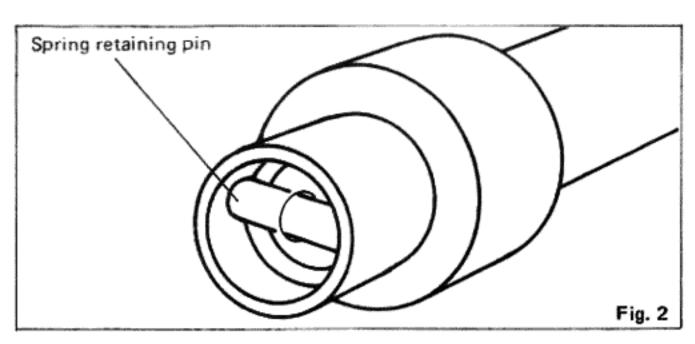


WIRE REPLACEMENT

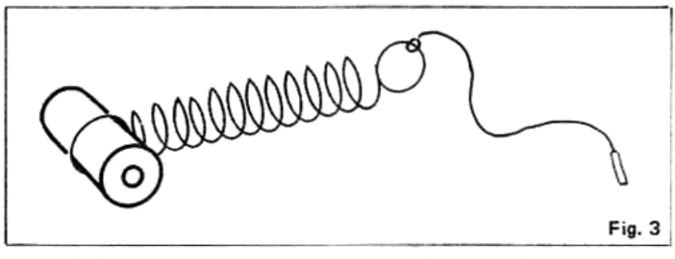
- Prepare 10 inches or so of string for leading the new wire through the spring case of the tonearm.
- Remove the headshell from the tonearm.
- Loosen the set screw securing the wire to the tracking force adjustment reel. (photo 1)



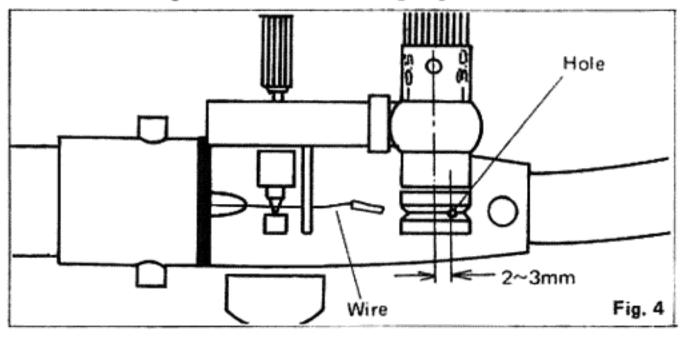
- 4) Remove the wire from the reel.
- 5) Remove the cap of the spring case by rotating it counter-clockwise with a two-pin screw driver. (fig. 1) If the cap is not remove easily, melt adhesives on internal threads by using a solvent such as toluol around outside edge of cap.
- Link the string to the end of the wire.
- Pull the spring retaining pin and withdraw the springwire assembly. (fig. 2)



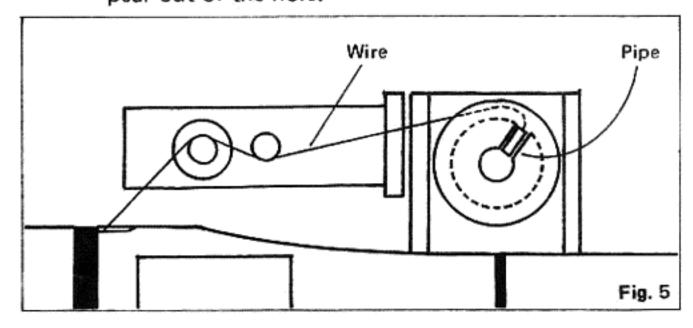
- 8) Remove the string from the wire.
- Remove the wire from the spring.
- 10) Connect the new wire to the spring and the string to the other end of the new wire. (fig. 3)



- 11) Pull the string and the spring-wire assembly back into the spring case, so that the new wire appears out of the tonearm.
- 12) Remount the spring retaining pin and attached spring. Confirm that the pin is lying horizontally and that the spring is not touching the inner wall of the spring case.
- Remount the cap to the spring case using a small amount of adhesive or locking compound.
- 14) Remove the string from the new wire.
- Loosen the set screw retaining the tracking force dial to the shaft.
- 16) Align the tracking force adjustment reel and the tracking force dial as showing Fig 4.



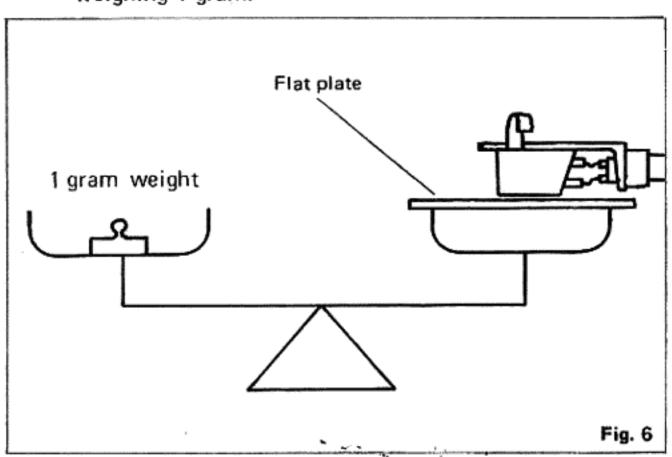
- 17) Turn the anti-skating regulation knob counter-clockwise until it stops.
- 18) Thread the wire through as shown in Fig. 5 and insert the end pipe of the wire into the hole on the tracking force adjustment reel and secure it with the set screw. Confirm that the end pipe of the wire does not appear out of the hole.



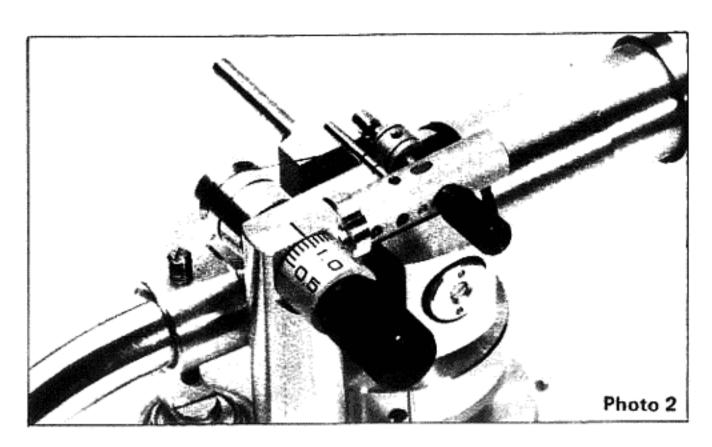
TRACKING FORCE CALIBRATION

Using a balance (a beam and scales), calibrate the tracking force dial as following procedures;

- 1) Remount the headshell with the cartridge to the tonearm, but to prevent damaging the stylus, remove the stylus by pulling it forward out of the cartridge.
- 2) Turn the counterweight of the tonearm until the tonearm balance is achieved.
- 3) Place the cartridge on one side of the scale and a 1 gram weight on the other side. If the cartridge body dose not rest on the scale due to the tonearm pipe touching the scale edge, mount a suitable flat plate on the scale as shown in Fig. 6 and balance it again, before weighing 1 gram.



- 4) Turn the tracking force adjustment knob until the balance keeps level.
- 5) Align the 1 mark on the dial with the reference line after loosing set screw. During the alignment hold the reel so that the wire does not get loose.



6) Secure the tracking force dial to the shaft with the set screw.

SPECIFICATION

Dynamic balance type Model universal tone arm 322 mm (12-11/16") Total length Working length 237 mm (9-5/16") 15 mm (19/32") Overhang 21° 50' Offset angle Less than 1.5°

Angle of tracking error

Height adjustment

42-86 mm (1-5/8"~3-3/8") range (measured from the motor board to the cartridge installation surface)

Height adjustment range achieved by 6 mm (1/4") lever operation

Suitable cartridge 4-10 g (0.14~0.35 oz) weight

Using sub-weight

9.5-16 g (0.34~0.56 oz) (large) Horizontal move-

25 mg

Vertical movement

ment sensitivity

25 mg sensitivity Tracking force re-

gulation range 0-3 g scale

Anti-skating device Spring tension system regulated

according to tracking force

Built-in shock absorber for raising Arm lifter Slow return type

Headshell turning mechanism

installed

Output lead Low capacity 5P plug in

(55 pF/m) shielded cord

9.7 g (0.34 oz) Headshell weight

SME type 4P connector Head connector Electroplated in hard metal Connector

