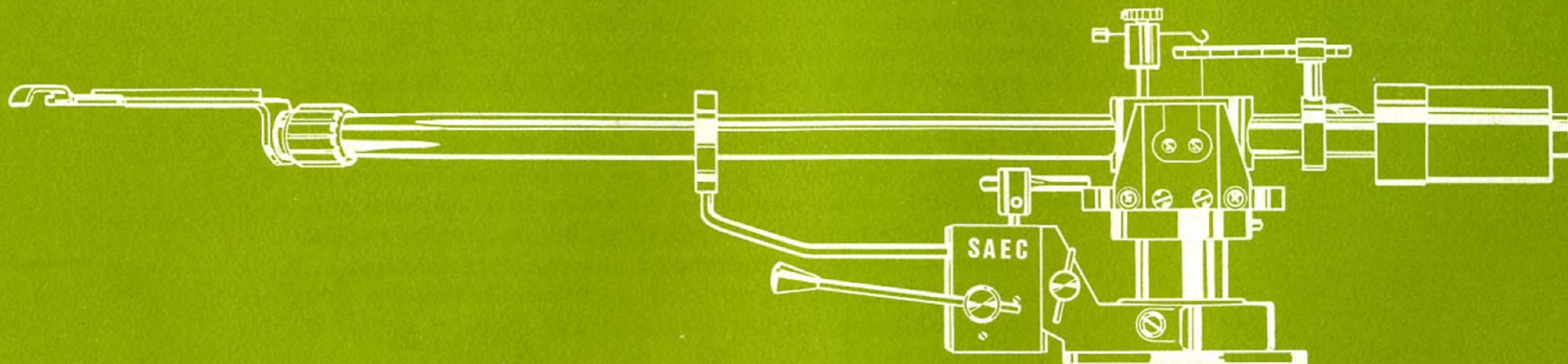


SAEC

Sound of Audio
Engineering Corp.

DOUBLE KNIFE EDGE TONE ARM



MODEL  WE-308 NEW

AUDIO ENGINEERING CORP.

TOKYO JAPAN

SAEC

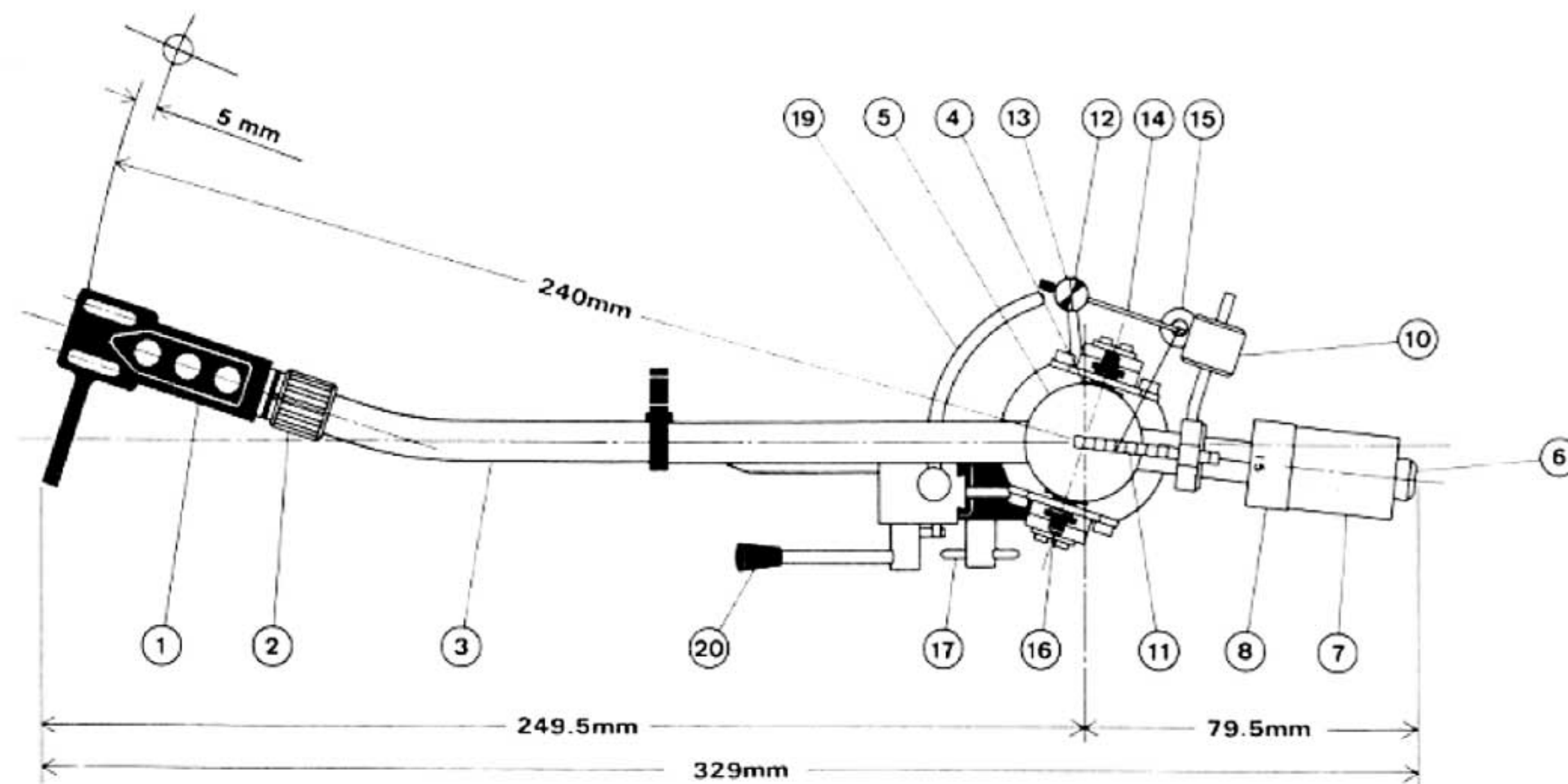
Sound of Audio
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WE-308 NEW

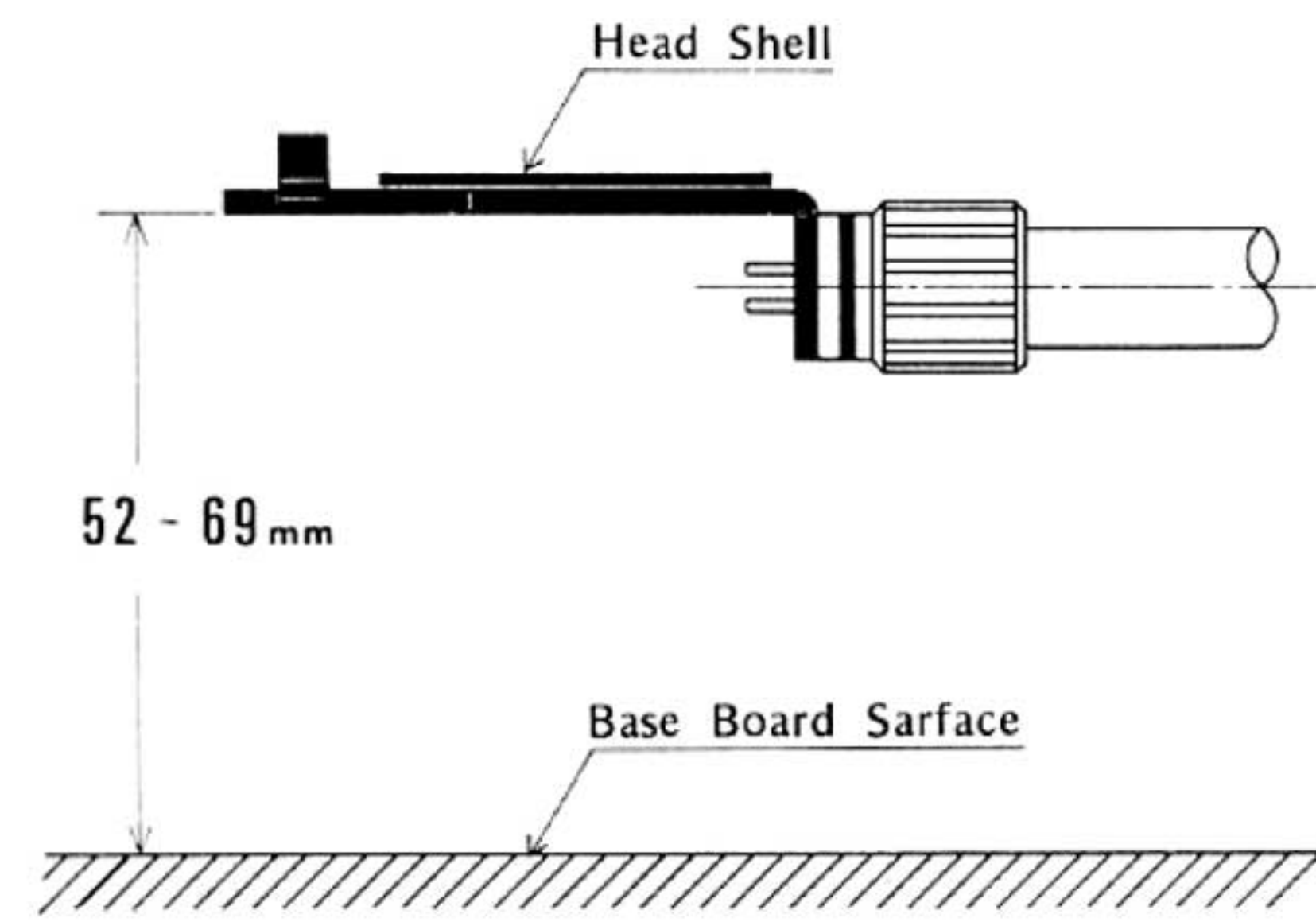
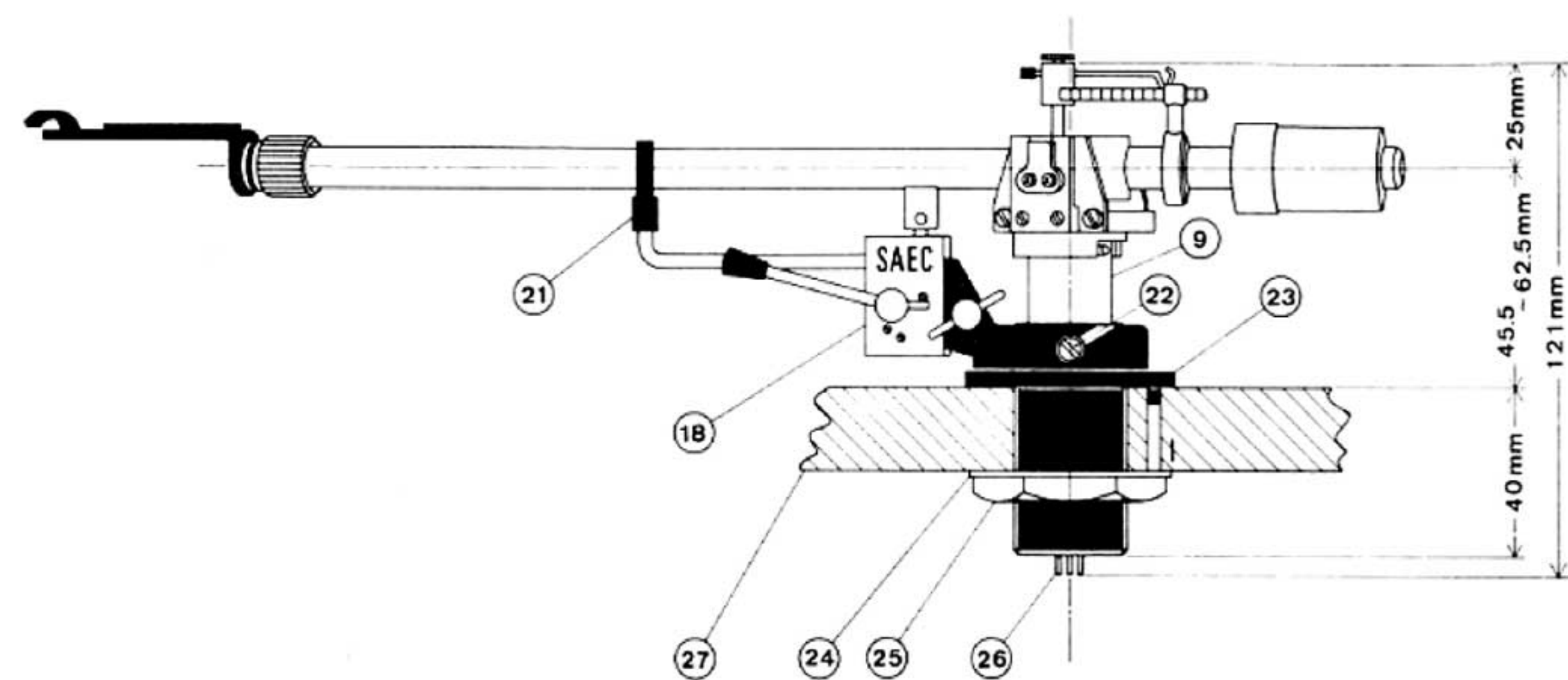
The SAEC WE-308 is designed to offer the new reference standard of tone arm engineering for the serious audiophiles. The Audio Engineering's remarkable approach toward the perfection of disc sound is crystalized in the SAEC WE-308's unique construction, the Double Knife Edge. This newer construction covers up disadvantages of conventional knife edge type tone arms. The Double Knife Edge provides the lowest friction and high sensitive movement of the tone arm ever achieved. Therefore, the SAEC WE-308 with any advanced current cartridge tracks the record groove with less distortion than ever and reproduces clear directionality, pinpoint placement of instruments and phenomenal cleanness of the disc sound.

The SAEC WE-308 itself is a precision-balanced arm. The three-axis of the arm is meticulously balanced so it practically results in no loss of sensitivity.

Fine adjustments of the tracking force are automatically carried out as the arm tracks to the inner grooves of a record. This special device, along with the light weight and lowest resonance "ultimate" headshell, provides more faithful reproduction of sound. On the most inner groove, for example, it does a remarkable job with 20% more tracking force that results in clear and open high frequency response information.



- | | | | |
|-----|------------------------------------|-----|-----------------------------|
| 1. | Headshell | 15. | Canceller Weight |
| 2. | Joint Screw | 16. | Knife Edge |
| 3. | Arm Pipe | 17. | Elevation Locking Handle |
| 4. | Vibration Proofing Rubber | 18. | Arm Elevation |
| 5. | Arm Body | 19. | Elevation Supporter |
| 6. | Weight Shaft | 20. | Elevation Knob |
| 7. | Main Weight | 21. | Arm Rest |
| 8. | Weight Ring | 22. | Arm Height Adjustment Screw |
| 9. | Barrel | 23. | Arm Stand |
| 10. | Lateral Balance Weight | 24. | Washer |
| 11. | Canceller Bar | 25. | Nut |
| 12. | Canceller Post | 26. | 5P Socket |
| 13. | Canceller Support Adjustment Screw | 27. | Base Board |
| 14. | Canceller Supporter | | |



INSTALLATION

Before mounting the tone arm on the motorboard, use the arm mounting card (templet) provided in order to determine correct mounting positions. See Fig. 1. Any motorboard with its thickness of up to 35mm can be used for the SAEC WE-308. After you take out the tone arm assembly from carton box, loose the height adjustment screw and remove the arm body from the arm stand. Then drill the mounting holes of 3.2mm and 27 mm in diameter on the motorboard as shown in Fig. 1.

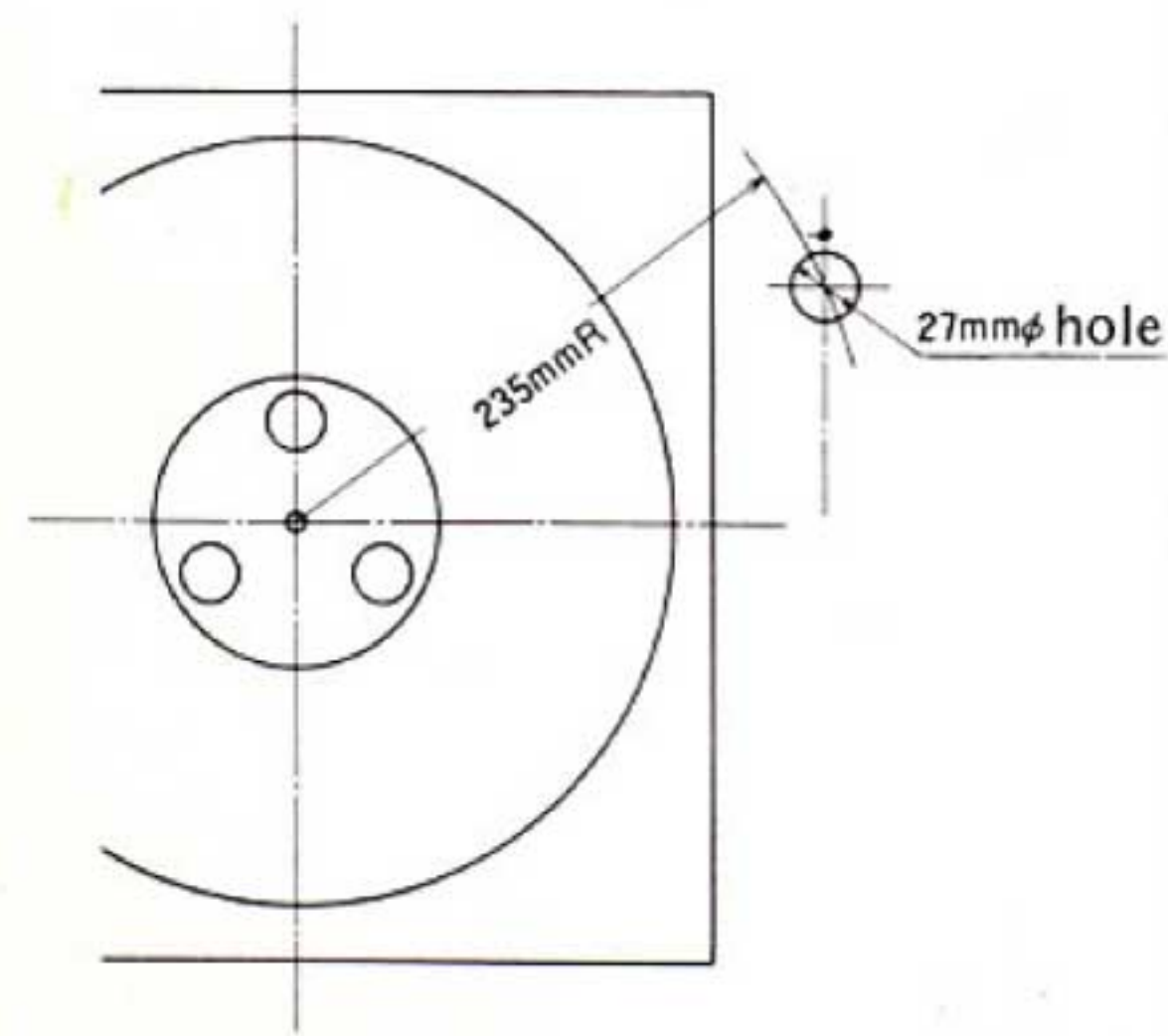


Fig. 1

Place the arm stand into the holes of the motorboard and position a metal washer and nut as shown in Fig. 2 and tighten them with the spanner provided. Place the arm body into the arm stand and tighten the height adjustment screw temporarily. Then engage the pick-up plug into the 5-pin terminal at the base of the main arm barrel. Solder or connect the black earth wire of the pick-up plug to suitable place of turntable. LEFT (WHITE), RIGHT (RED) and GROUND wire should be connected to the specified positions of your amplifier. For the pick-up plug connection, see Fig. 3.

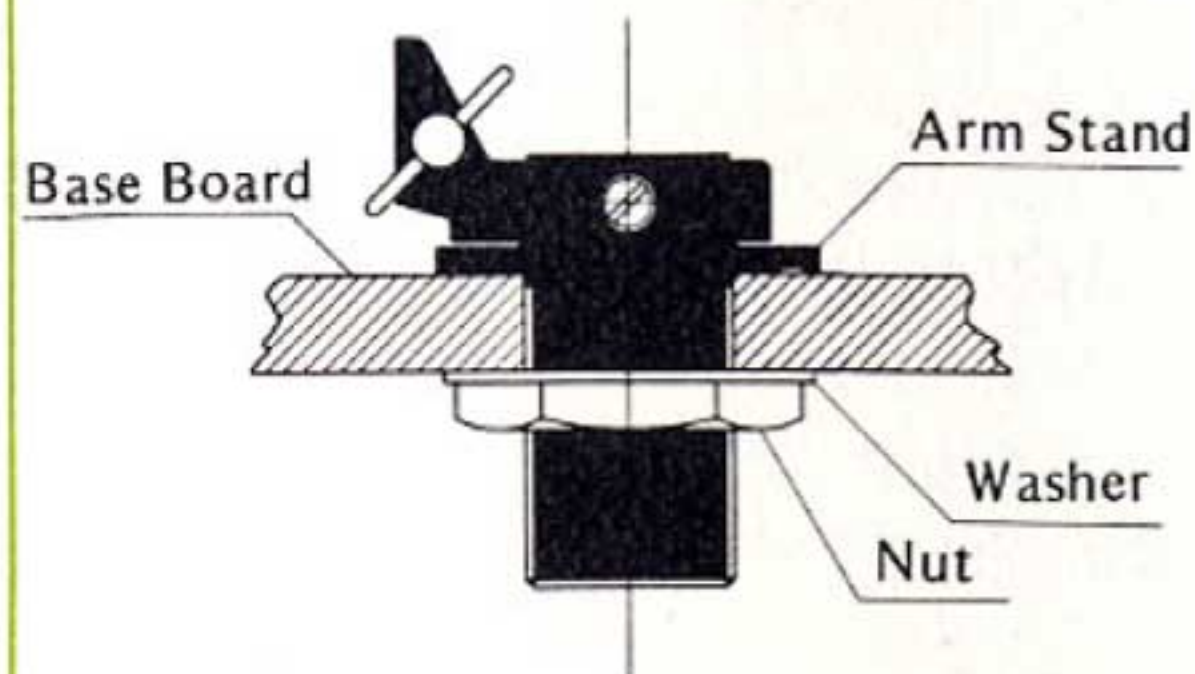


Fig. 2

The pick-up cord is low capacitance-type (37uF/meter output) which is vital for the achievement of faithful CD-4 channel reproduction.

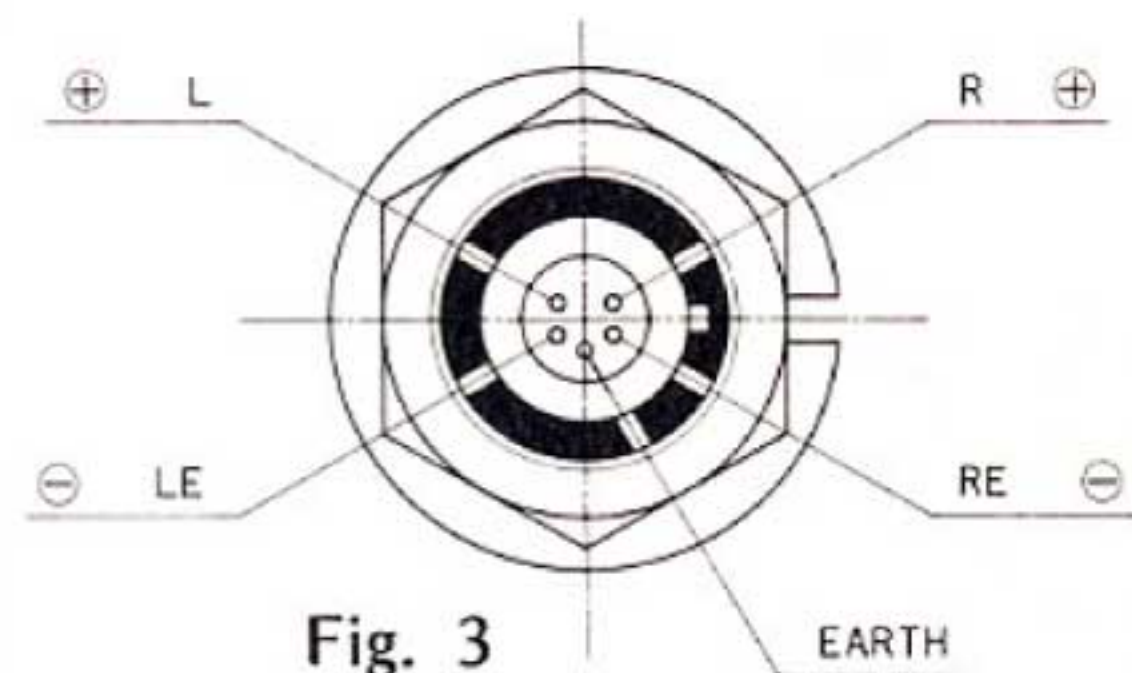


Fig. 3

Rotate and slide the main weight forward until the main weight contacts the weight guide of the weight shaft. See Fig. 4. Now, the main weight can be rotated and slid smoothly for adjustment (see Fig. 5) which will follow later.

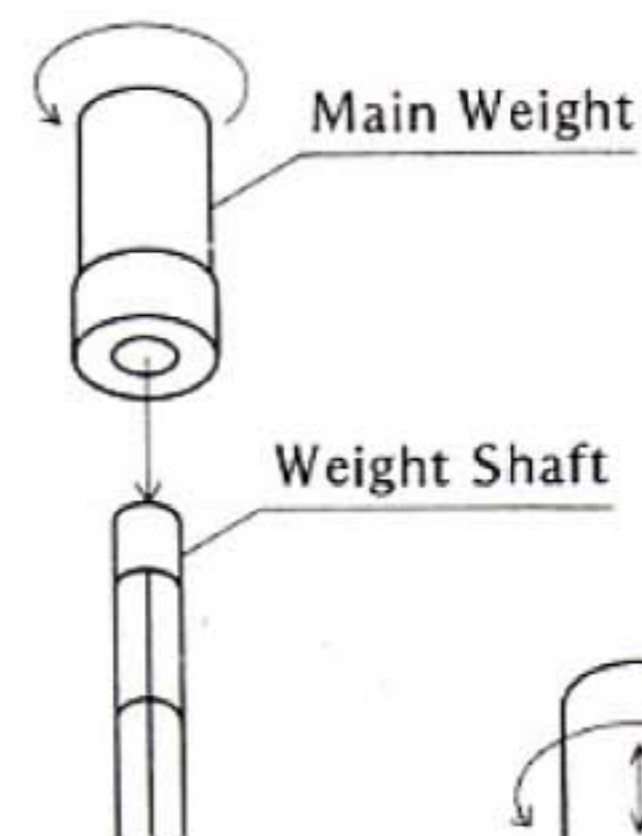


Fig. 4

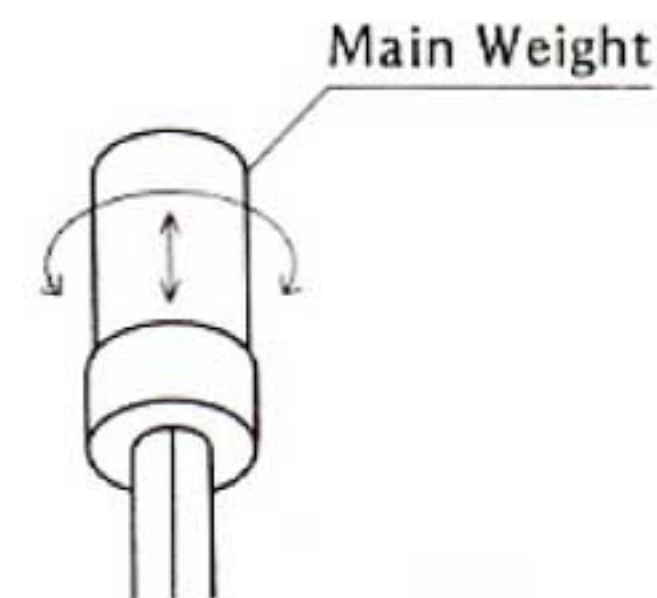


Fig. 5

ADJUSTMENT

1. CARTRIDGE ADJUSTMENT

Since the SAEC WE-308 is equipped with the standard European-type connectors, most headshells on the market can also be used. However, in order to obtain the best sound reproduction from the SAEC WE-308, this light weight headshell should be used.

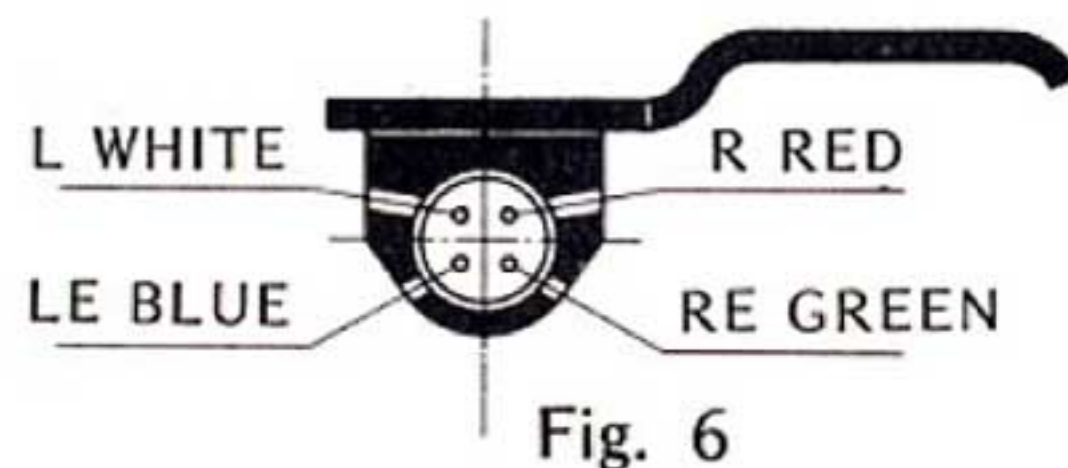


Fig. 6

The coding of the leads in the headshell are as follows: Also see Fig. 6.

RED R
(Right Channel)
WHITE L
(Left Channel)
GREEN RE
(Right Channel Earth)
BLUE LE
(Left Channel Earth)

Any cartridge weighing from 4.5 to 10.5 grams can be used for the SAEC WE-308. For those who use other cartridges weighing over 10.5 grams, the twin weight W-2 is available as an optional accessory.

2. OVERHANG ADJUSTMENT

The SAEC WE-308 is designed for minimum tracking error when the overhang is 5mm. Fit a cartridge in position on the headshell to obtain overhang of 5mm and tighten the screws provided with the cartridge.

For more simple and easy overhang adjustment; move the tone arm inward so that the cartridge be located on the center spindle. Then adjust the stylus of the cartridge at 4mm from the center spindle. See Fig. 7.

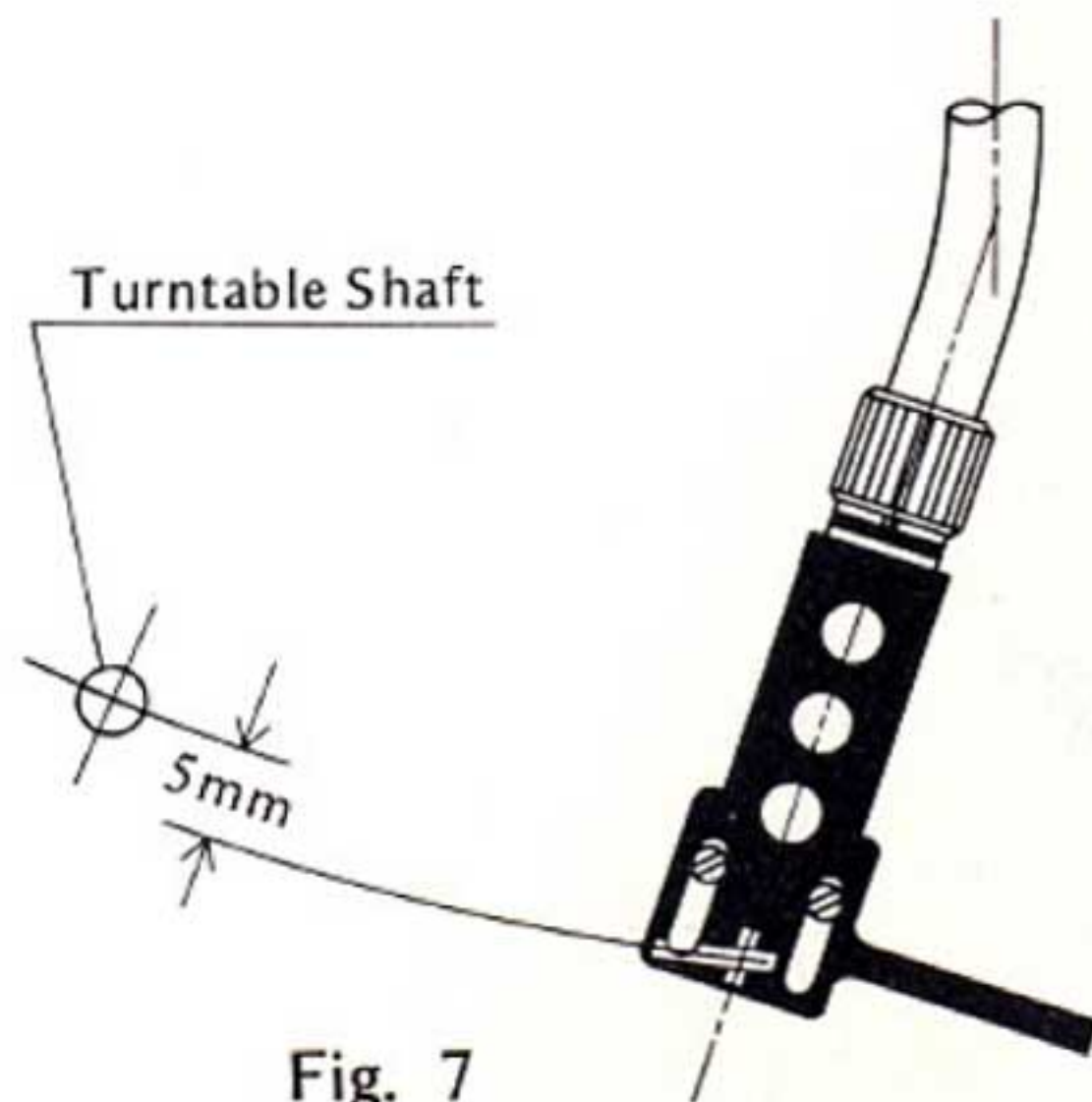


Fig. 7

3. TONE ARM HEIGHT ADJUSTMENT

Place the record on the turntable. By raising or lowering the barrel, adjust the tone arm for a position of parallel plane to the record surface. Tighten the tone arm height adjustment screw firmly. See Fig. 8. In accordance with the height of the tone arm, adjust the height of the arm elevation by loosening and sliding up and down the elevation locking handle at approximately 8 to 10mm from the surface of the record.

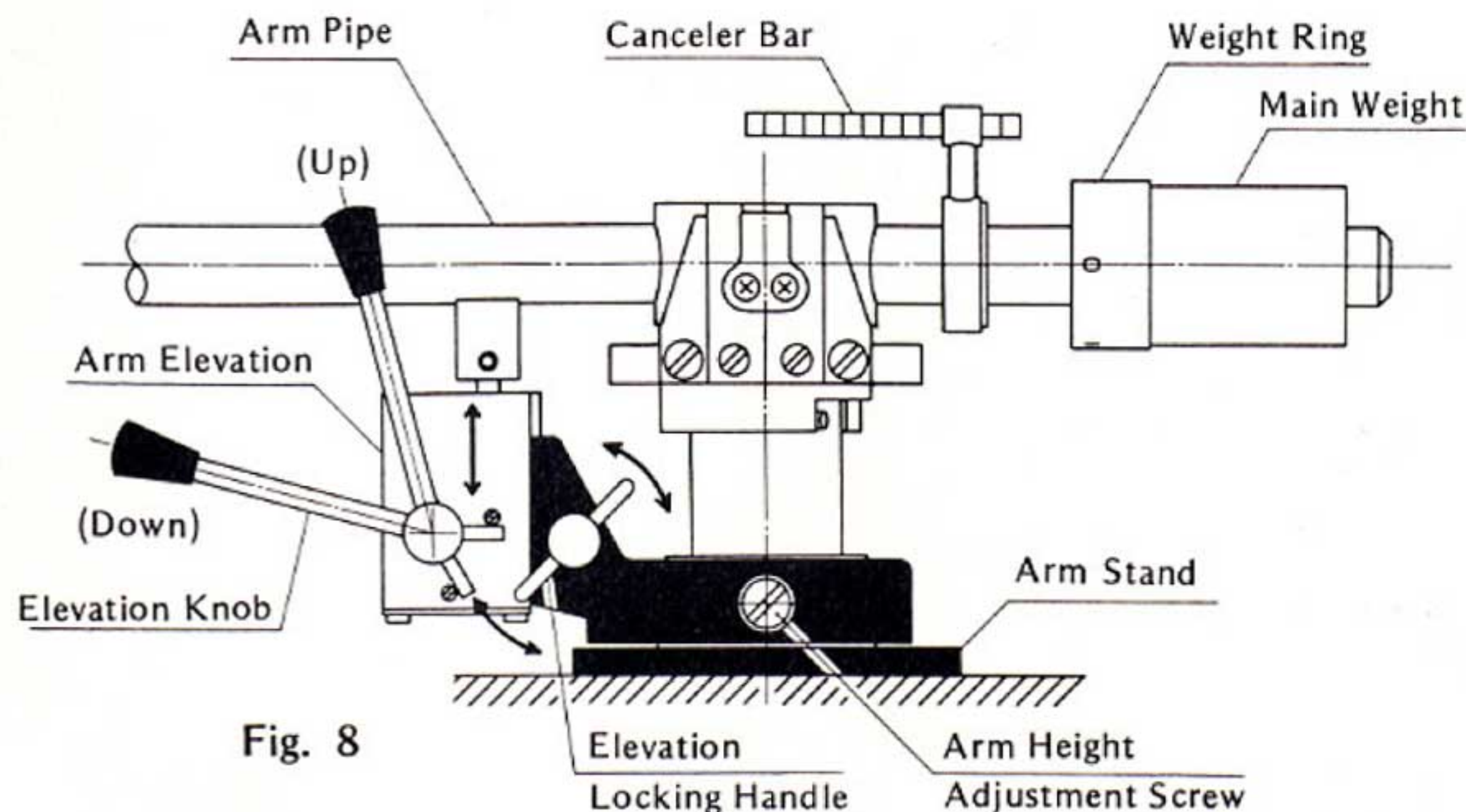


Fig. 8

4. LATERAL BALANCE ADJUSTMENT

Insert the headshell with a cartridge mounted onto the front end of the tone arm and secure it by tightening the joint screw. Rotate the main weight (see Fig. 9) in order to obtain horizontal balance. And slide the lateral balance weight carefully to the same direction where the tone arm moves until you find the point the tone arm stops completely. See Fig. 10 and 11.

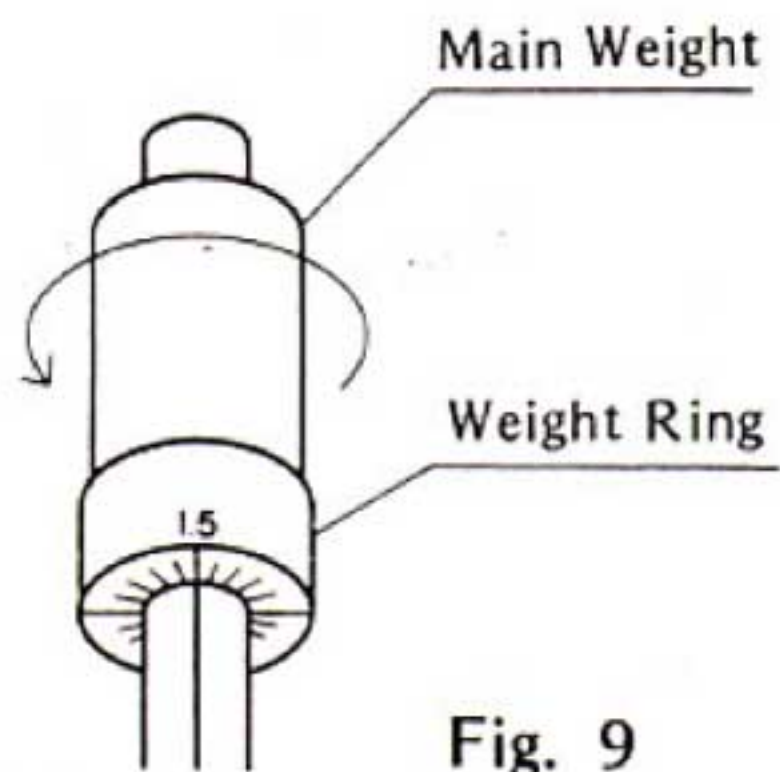


Fig. 9

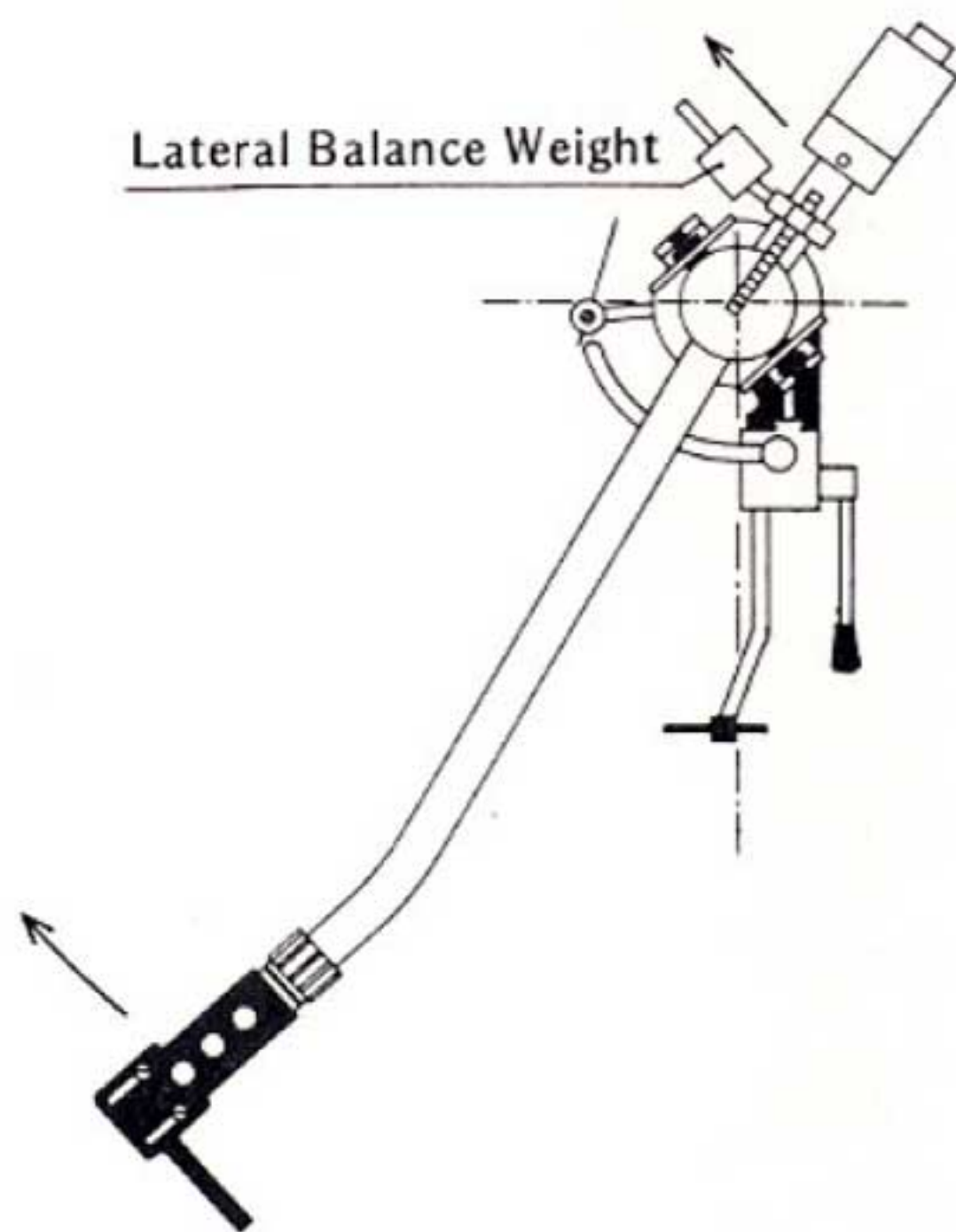


Fig. 10

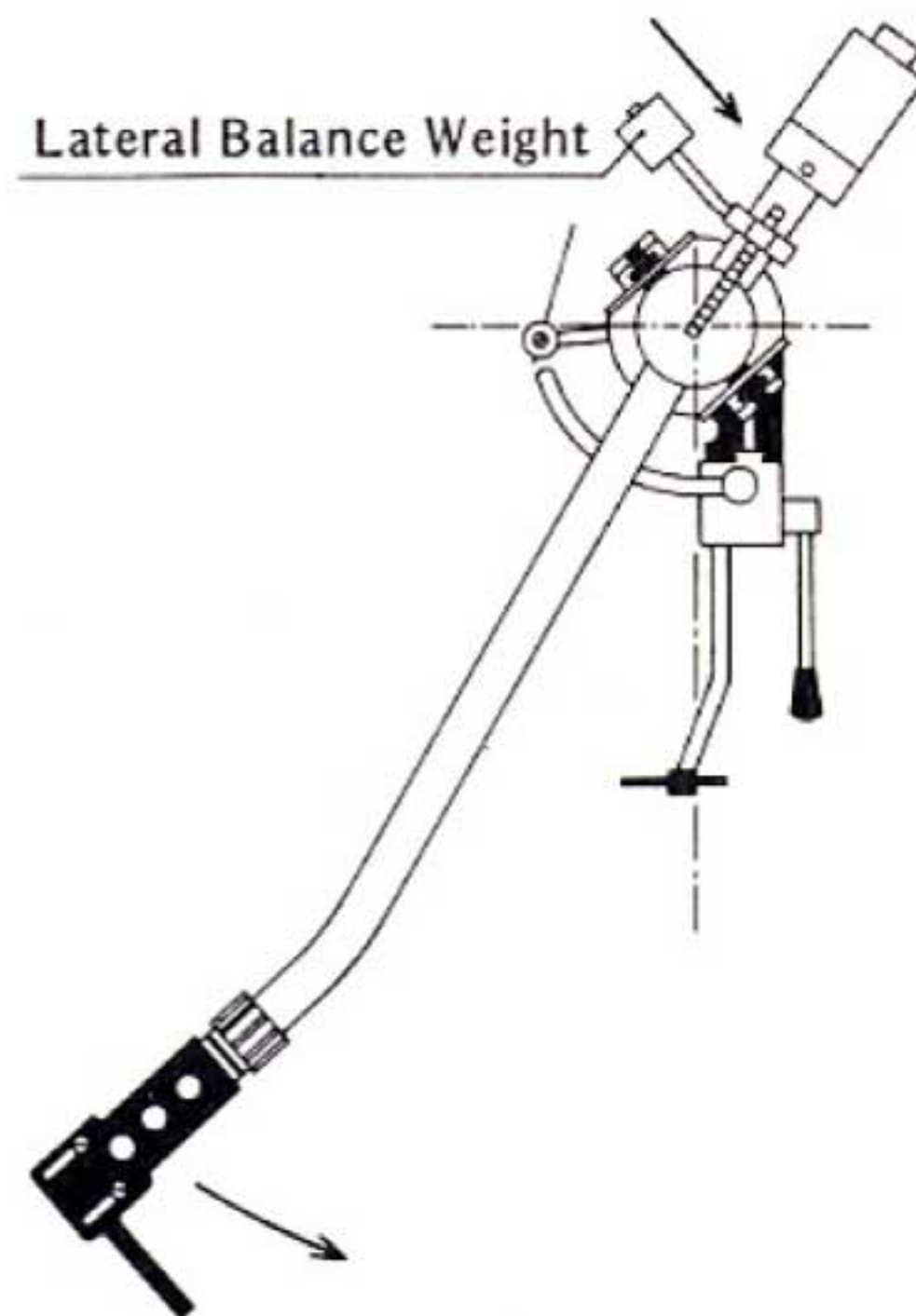


Fig. 11

5. TRACKING FORCE ADJUSTMENT

Turn the weight ring to the "0" indication of the tracking force reference line. See Fig. 12. Then turn the main weight, the main weight ring also turns at this time, and set to obtain the recommended tracking force value on the weight ring. The weight ring is designed to obtain 2 grams at one full turn of the main weight.

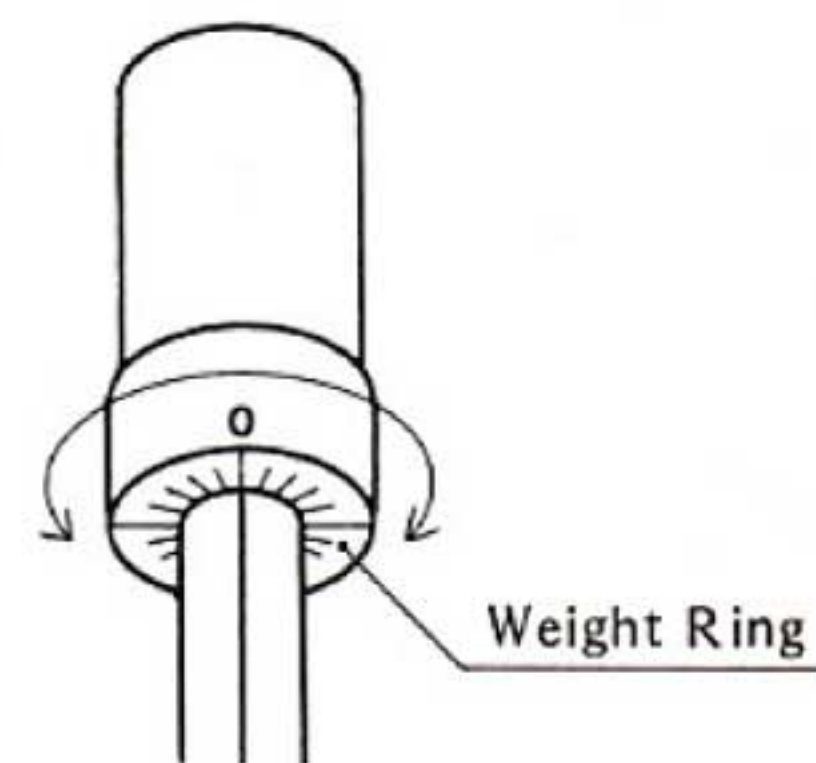


Fig. 12

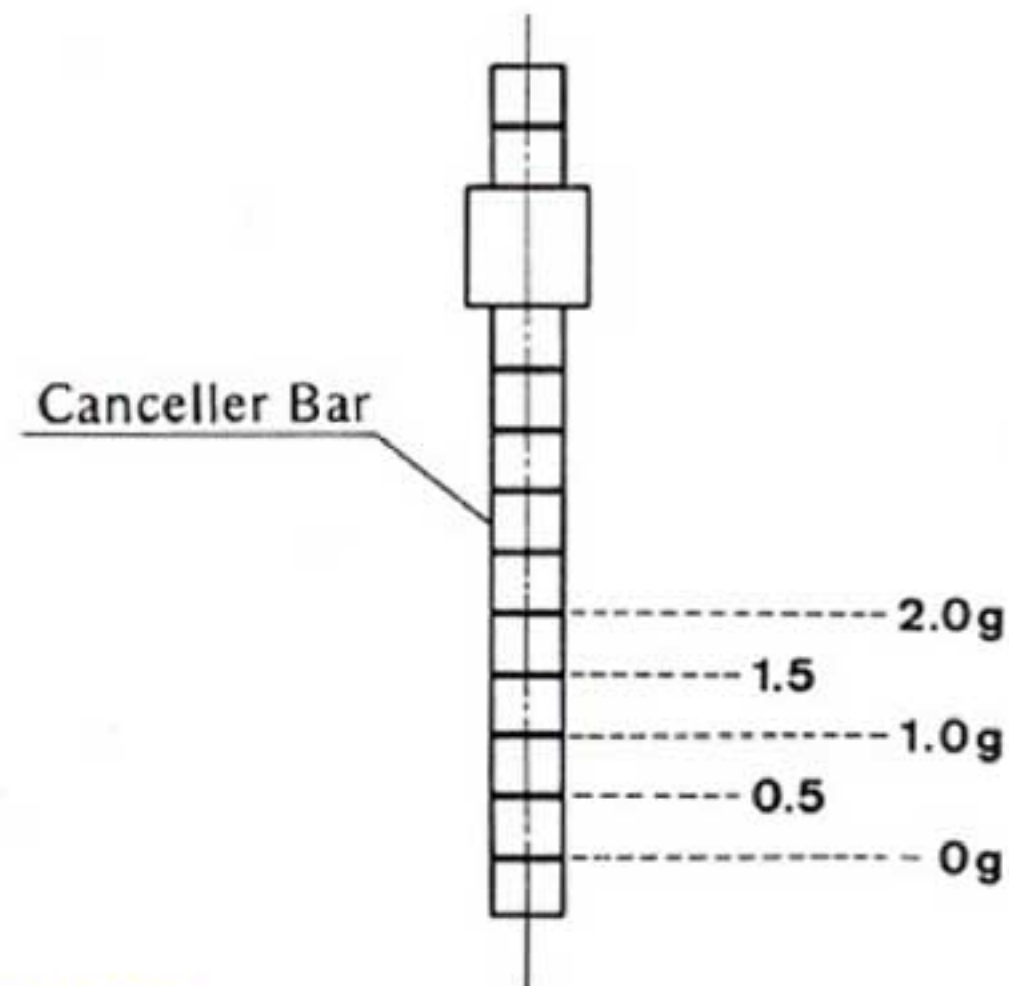


Fig. 13

6. INSIDE FORCE CANCELLER ADJUSTMENT

Hook the loop of the canceller string into the canceller bar, then pass the string through the canceller supporter. The canceller weight hangs from the canceller supporter. The inside force canceller of the SAEC WE-308 corresponds with the tracking force. So, move and set the string to the required value of the tracking force of the cartridge you installed. See Fig. 13.

Then move the tone arm onto the outer most groove of the LP record, loosen the canceller support adjustment screw and adjust the canceller supporter until the canceller string makes a right angle (90°) with the canceller bar. See Fig. 14.

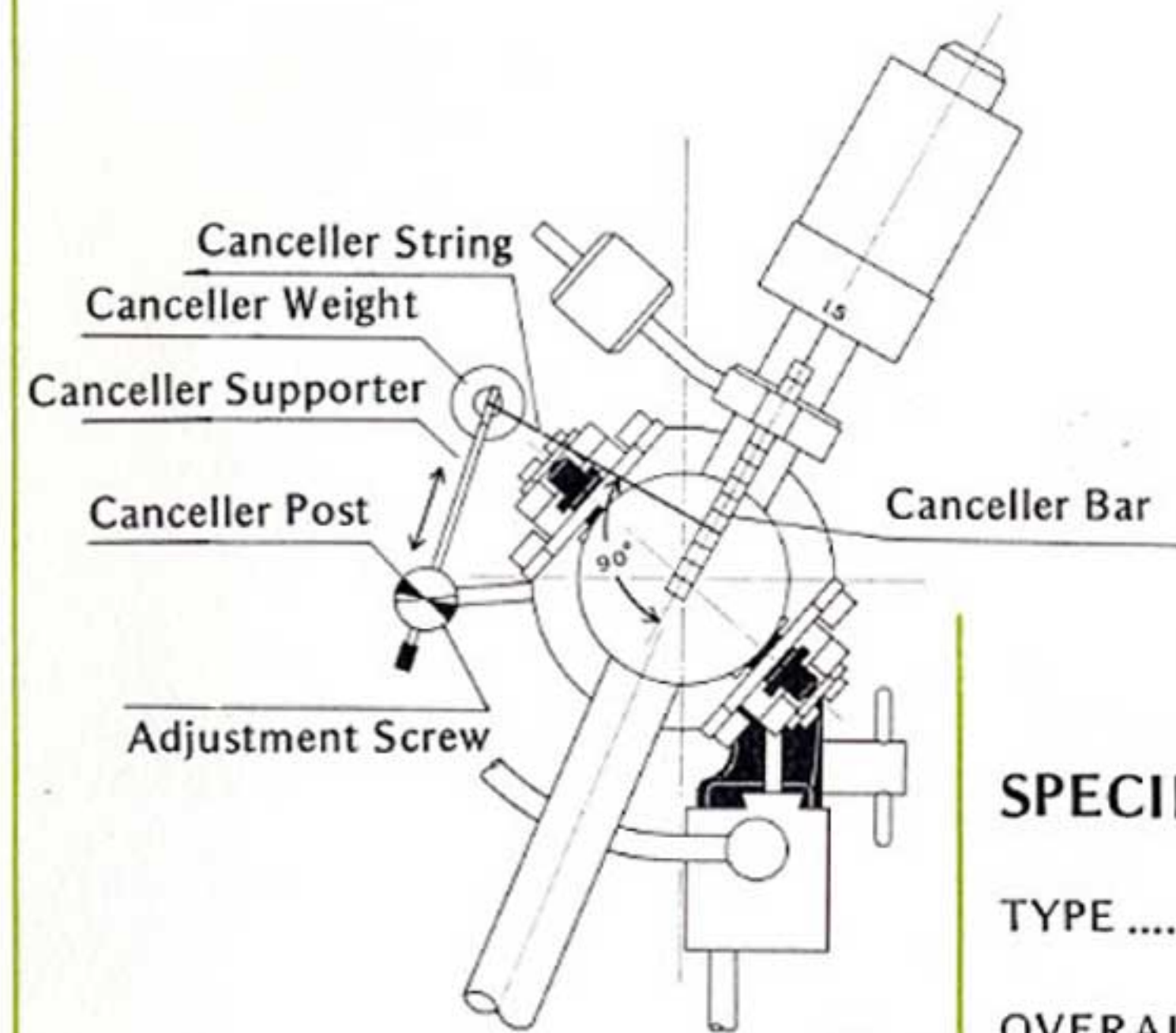


Fig. 14

SPECIFICATIONS

TYPE Double Knife Edge Type.
Static Balanced.

OVERALL LENGTH 329mm

EFFECTIVE LENGTH 240mm

OVERHANG 5mm

TRACKING ERROR 0° at inner most
groove of the record.

TRACKING FORCE

ADJUSTABLE RANGE 0 - 2 grams

INSIDE FORCE (0-4gr. ROTATES TWO TIMES)

CANCELLER String Type

HEAD SHELL 7.3 grams

MOUNTING BOARD 2.5mm - 35mm

ELEVATION Oil Piston Elevator

Specifications will be changed subject to
improvements without notice.

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