



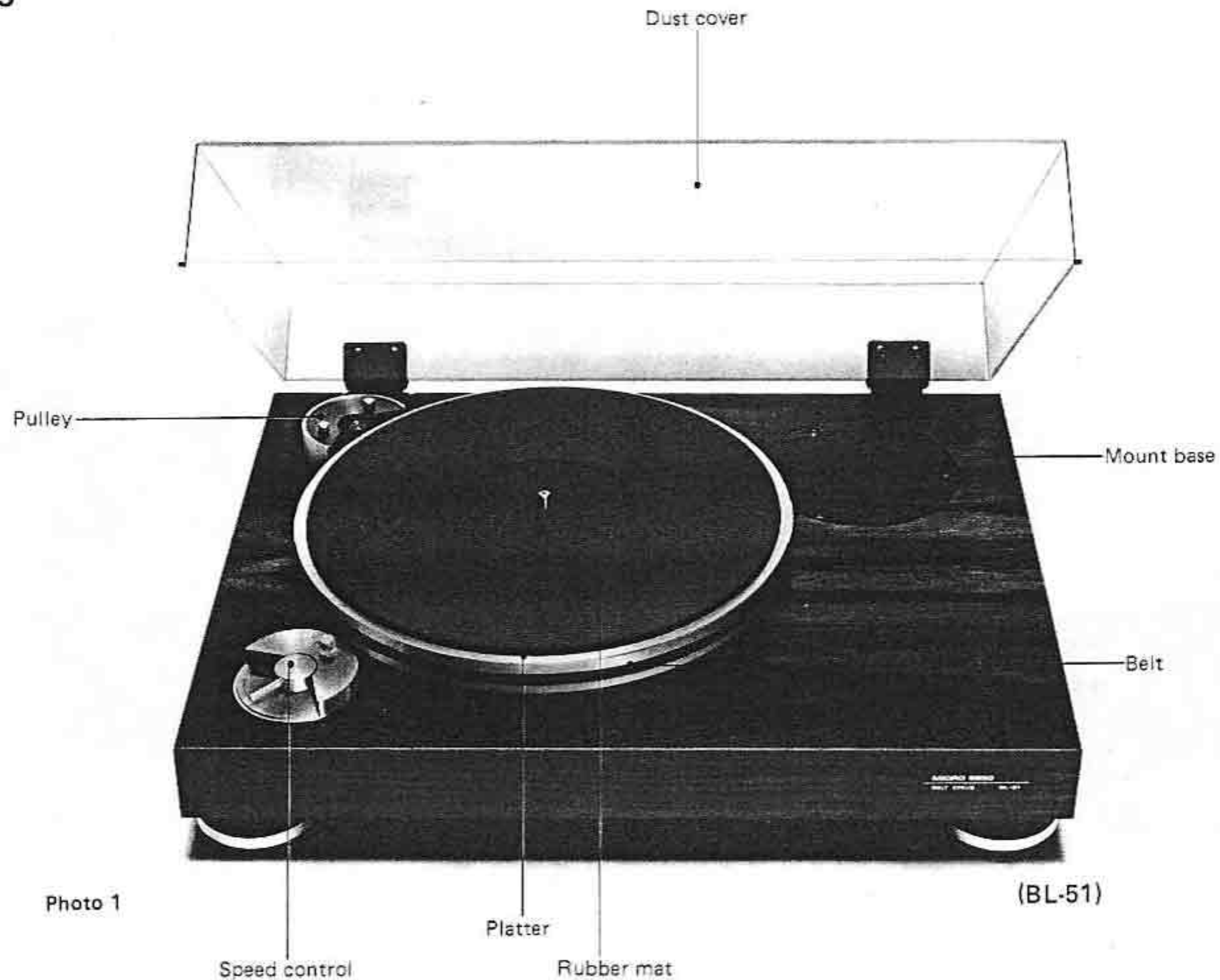
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OPERATING MANUAL
MICRO SEIKI

BL-51

HIGH FIDELITY TURNTABLE SYSTEMS

Name of the parts



• Accessories (make sure you check these before assembly)

- Dust cover
- Platter
- Belt (with platter)
- Mount base
- 45rpm adapter

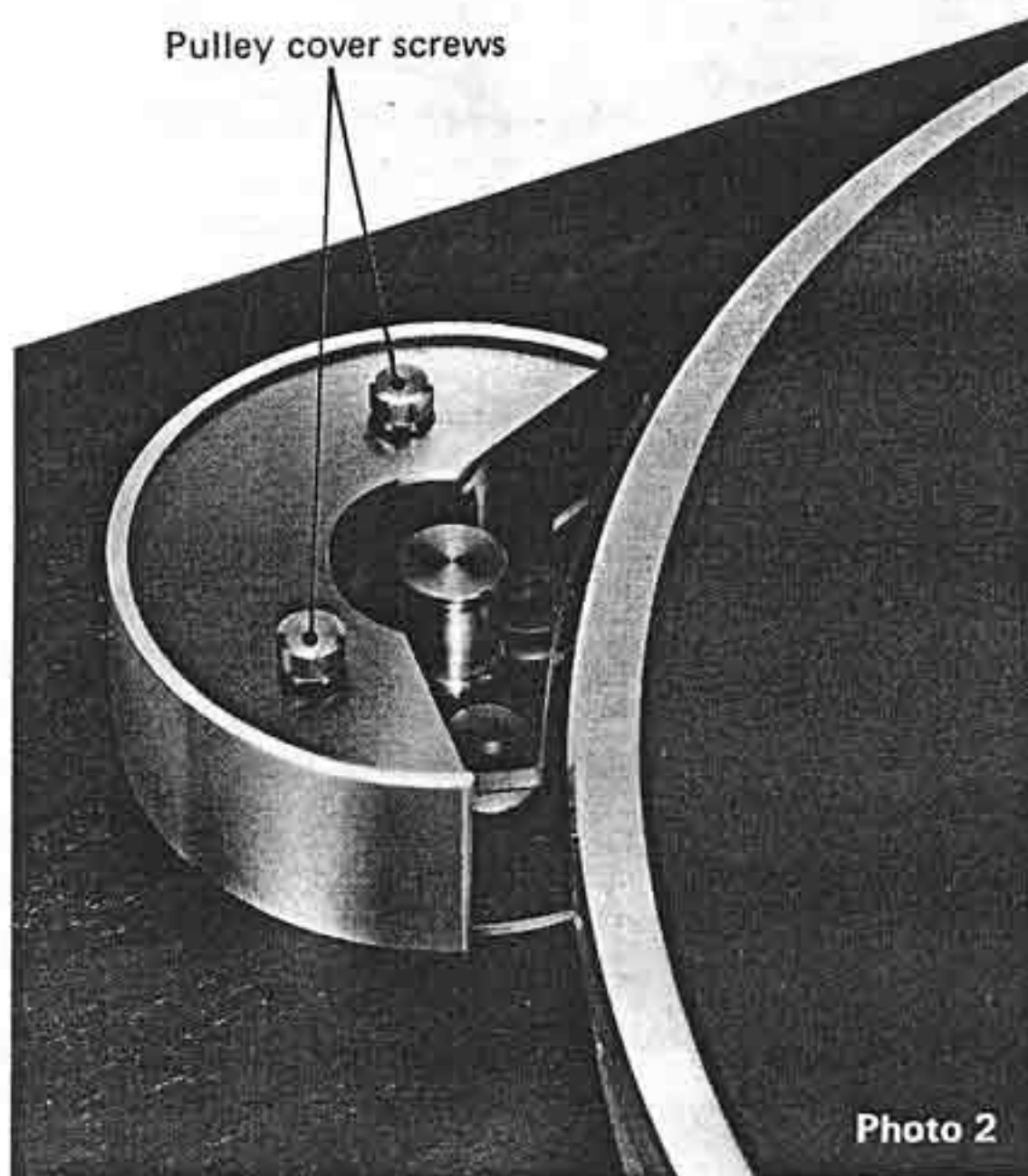
- Hexagonal wrench
- Rubber mat
- Strobe sheet
- Screwdriver
- Mount base screws M5 x 55 3

M5 flat washers 3

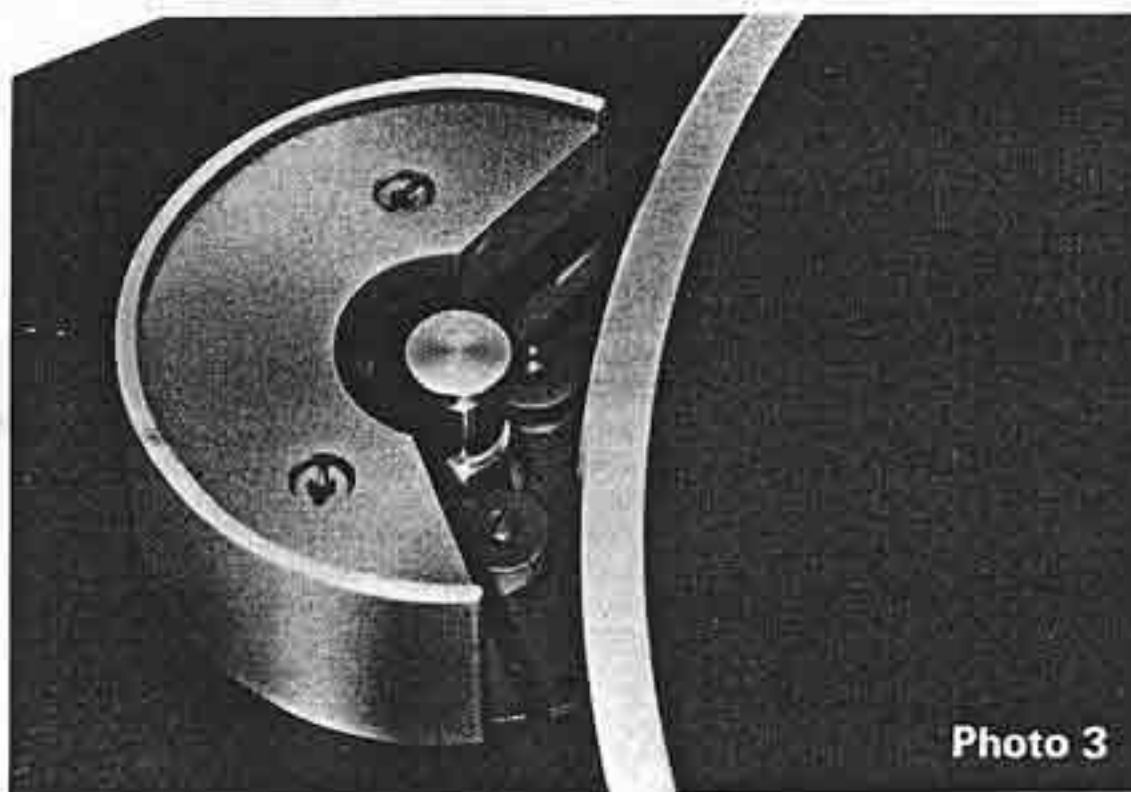
Platter assembly

● Attaching the belt

Use a screw driver as in Photo 2 to remove the pulley cover screws.



- 1) Unpack the platter and the rubber mat, slip them over the center shaft and thread the belt which is mounted on the outside edge of the platter around the pulley as in Photo 3. Hang on the belt over the pulley first, and next over the platter.
- 2) Once the belt has been attached properly, rotate the platter several times and see if the belt is horizontal to the side of the platter.
- 3) Mount and secure the pulley cover.



- Notes:
- Be careful not to allow oil, etc. to come into contact with the pulley belt sections or the belt itself. If this warning is not heeded, the belt may slip and this will cause fluctuations in the platter rotation.
 - Get into the habit of wiping the two sides of the belt with a cloth dipped in alcohol or benzine regularly.

● Setting the mount base

The unit comes with the necessary mount base for mounting tonearm but there is no hole cut. Then make the hole cut in accordance with the tonearm you plan to use, depending on the effective length of the tonearm.

■ Usable tonearms for BL-51

MICRO	MA-707, MA-701
SME	3009
INFINITY	Black Widow
ADC	LMF-1, LMF-2
GRACE	G-704, G-707, G-714
STAX	UA-7 (Except heavy cartridges)



Tonearm Assembly

- **Setting the Tonearm**

Remove the three bolts which secure the mount base.

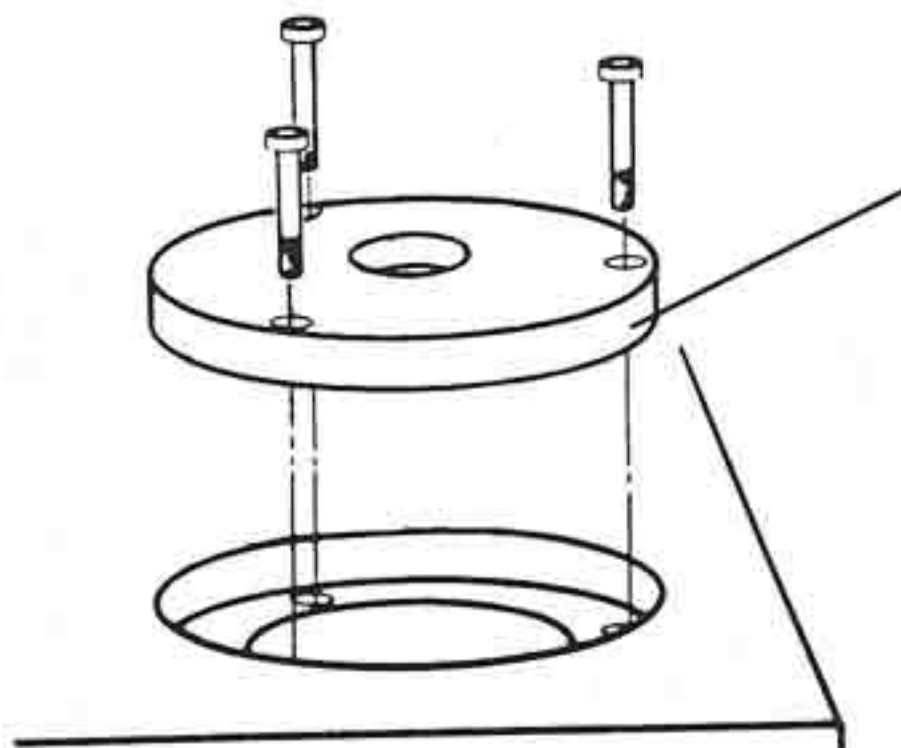


Fig. 1

Make the hole cut for the tonearm in accordance with the effective length of tonearm. (See each instruction manual of the tonearm which you hope to use in order to obtain the proper effective length and also the proper setting.)

1. Securing the arm base by tightening the nut. (MA-701)

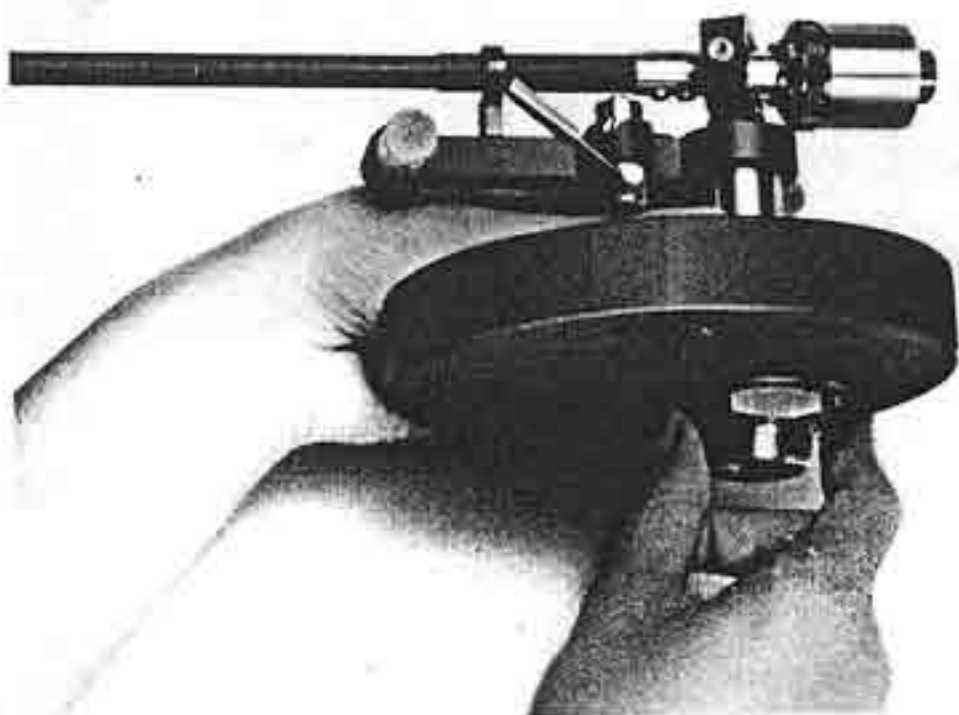


Photo 5

2. Mount the base together with the tonearm and check the tonearm's angle of swing covers properly the distance towards the platter shaft. (Photo 6)
3. Secure the mount base with the bolts.

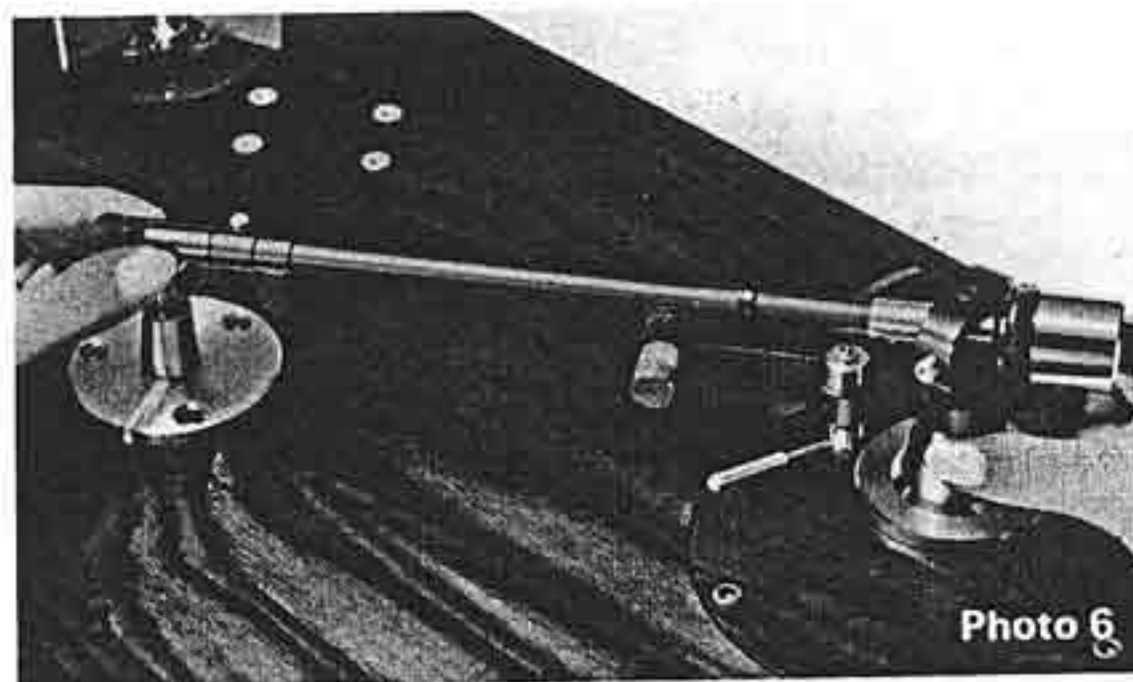


Photo 6

Mounting & Adjusting the dust cover

- **Mounting the dust cover**

Align the metal bracket of the dust cover with the cutout on the wooden base, insert in the direction indicated by the arrow and secure. (Photo 7)

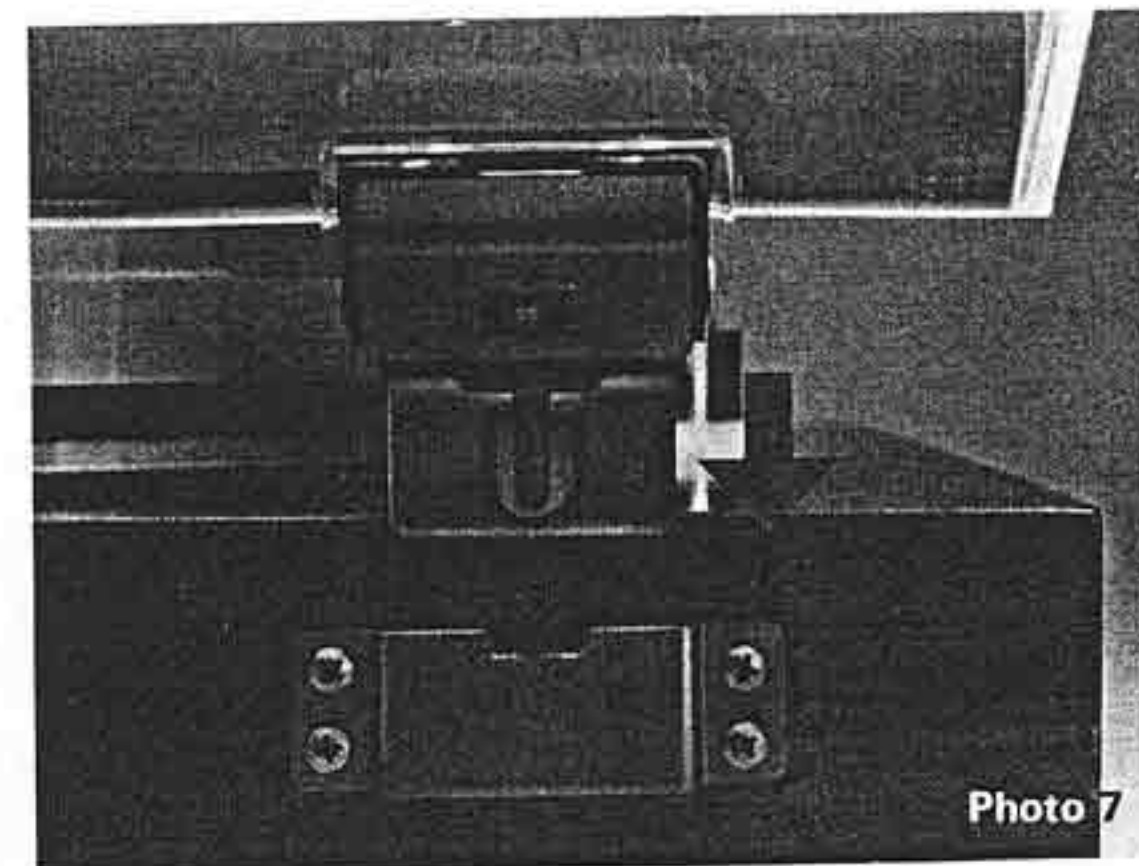


Photo 7

The dust cover is a free stop type. If it does not close completely or closes without stopping, adjust the screw. (Photo 8)

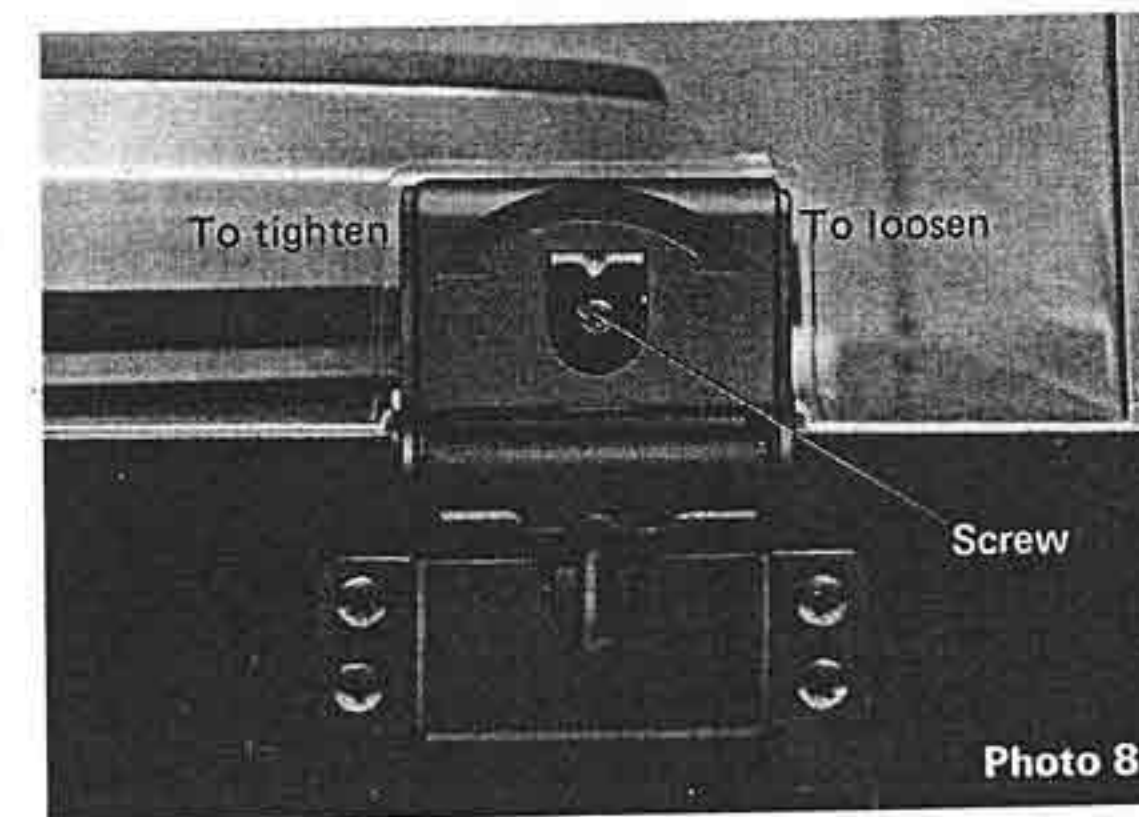


Photo 8

Connections

- **Connecting the ground wire and power cord**
Connect the turntable's ground wire to the amplifier's ground terminal.

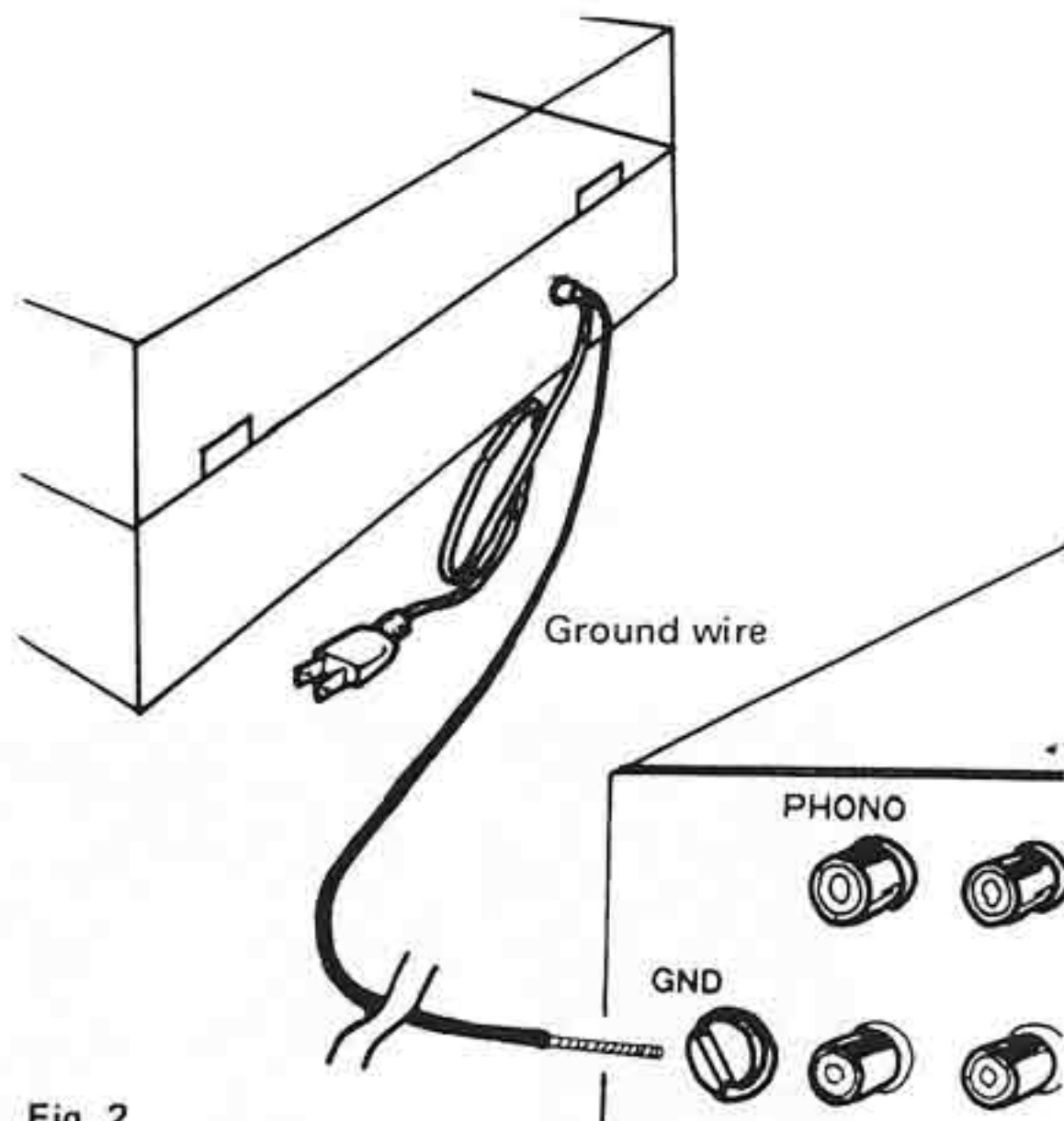


Fig. 2

Connect the AC plug to the AC power outlet. If you connect it to a SWITCHED outlet on the amplifier, power will be supplied to the turntable only when the amplifier's power switch is set to ON.

Operation

- **Speed control**

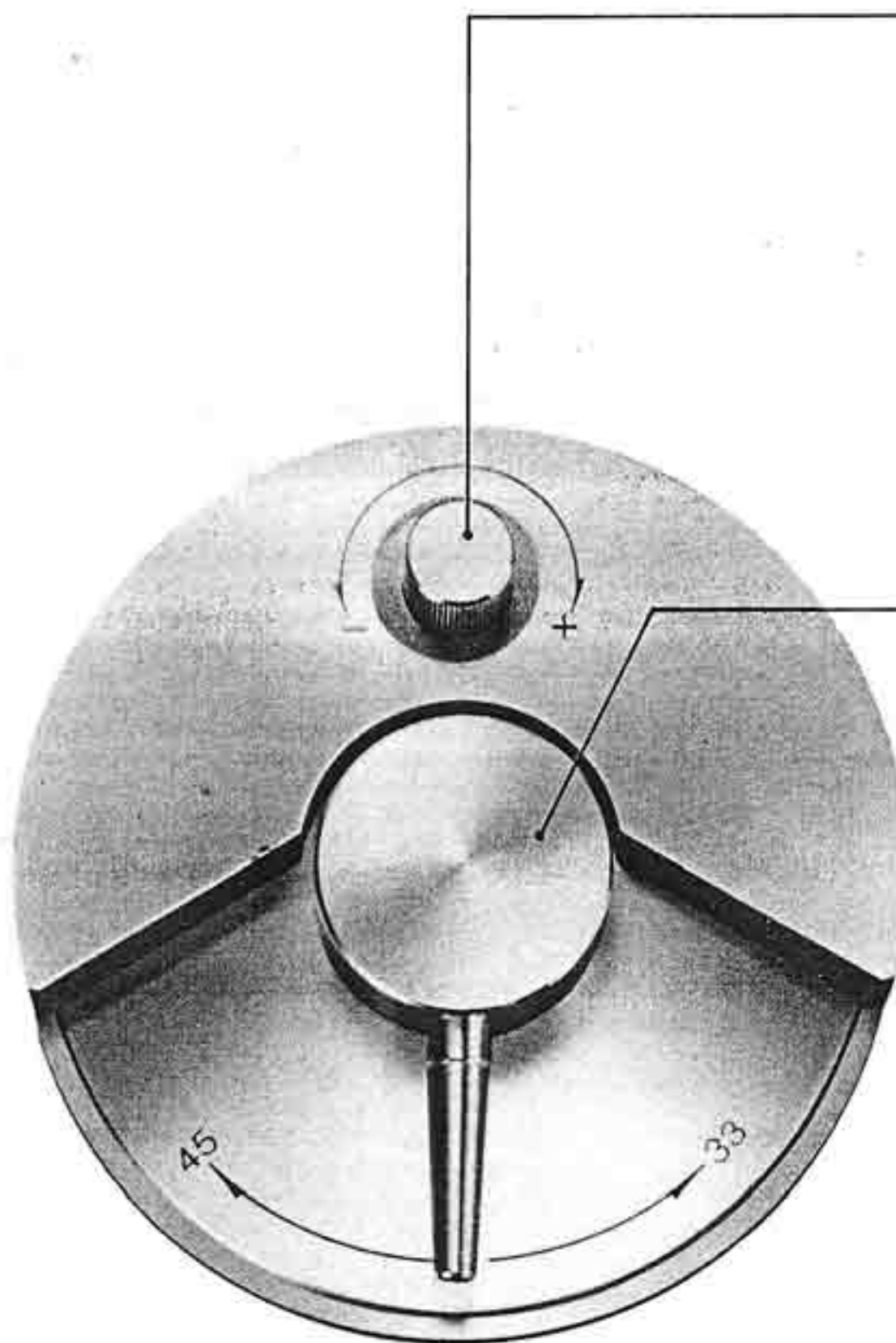


Photo 9

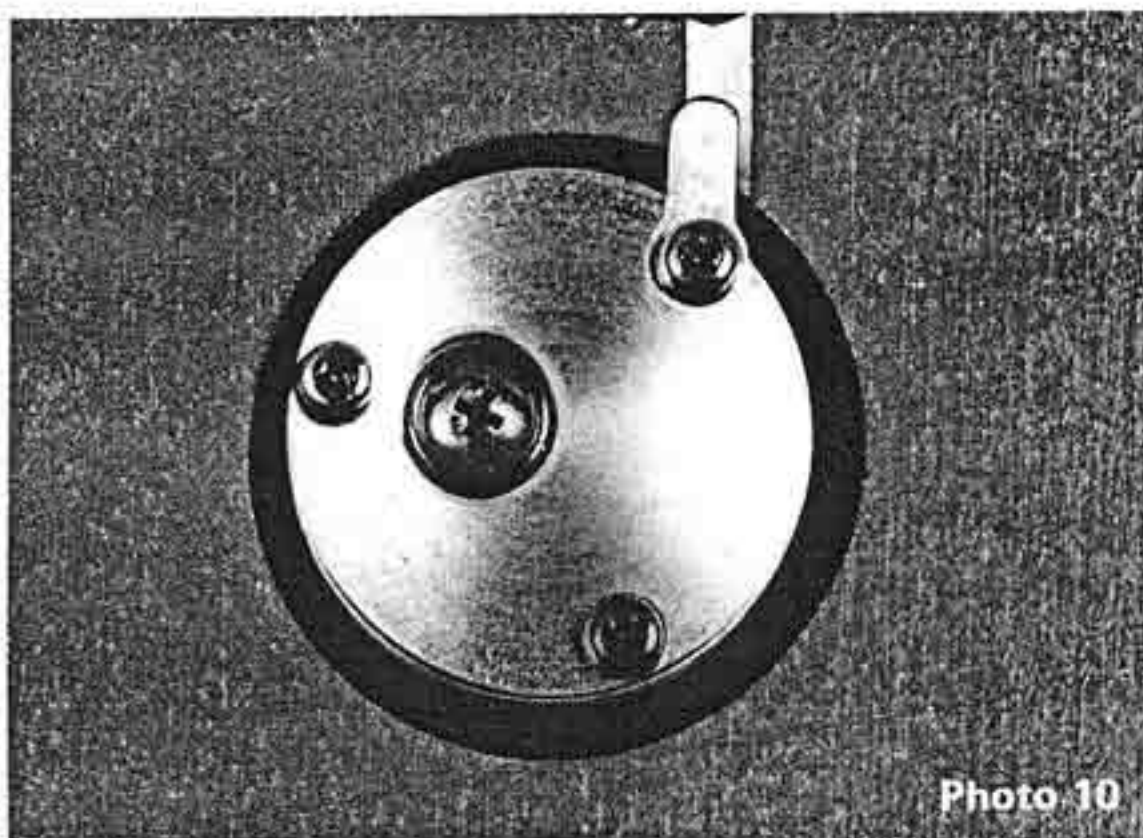
- **Speed control**
Place the accessory strobo sheet on the platter and adjust the rotation speed. It is possible to adjust the speed so that the platter rotates up to 3% faster or slower than the rated speed.
- **Speed selector and Power switch**
Select the platter speed 33 1/3 or 45 rpm. Power is automatically ON when the selector moves to 33 1/3 or 45 rpm position.

Handling precautions and maintenance

• Center shaft wear

The BL-51's center shaft is constructed with an oil bath in order to cope with heavy loads and aging. This means that the service life of the oil and bearings are semipermanent and that they do not require replacement. This is, therefore, a maintenance-free type of shaft. Along with MICRO's guarantee of the durability of the center shaft, it will be replaced if anything goes wrong with it in the course of normal operation.

Note: Do *not* remove the rear cap of the center shaft. If this warning is not heeded, the oil which is hermetically sealed with escape and this will cause trouble. (Photo 10)



• Belt replacement

Replace the belt about every two years in order to maintain the initial characteristics.

Ask for the B-91 replacement belt at your dealer's.

• Oiling the motor

The BL-51's motor uses a special oil and it does not require lubrication. If another oil is used for lubrication, this will result in a trouble. (If something goes wrong with the motor, get in touch with this company's servicing department.)

• Installing the turntable system

- (1) If the turntable is installed near the amplifier or near a piece of equipment using a transformer, its performance will be adversely affected by the magnetic flux leakage and this may cause hum. In particular, remember that MC (moving coil) cartridges are susceptible to flux and that the amplifier should be installed as far away from the turntable as possible.
- (2) Turntables do not take kindly to vibration. Do not install the BL-51, therefore, in front of a speaker (where it will be in the direct path of the sound waves), or on top of a speaker, and keep it as far as away from a wall as possible.
- (3) Do not install the turntable at an angle. Select an installation location which is perfectly flat.

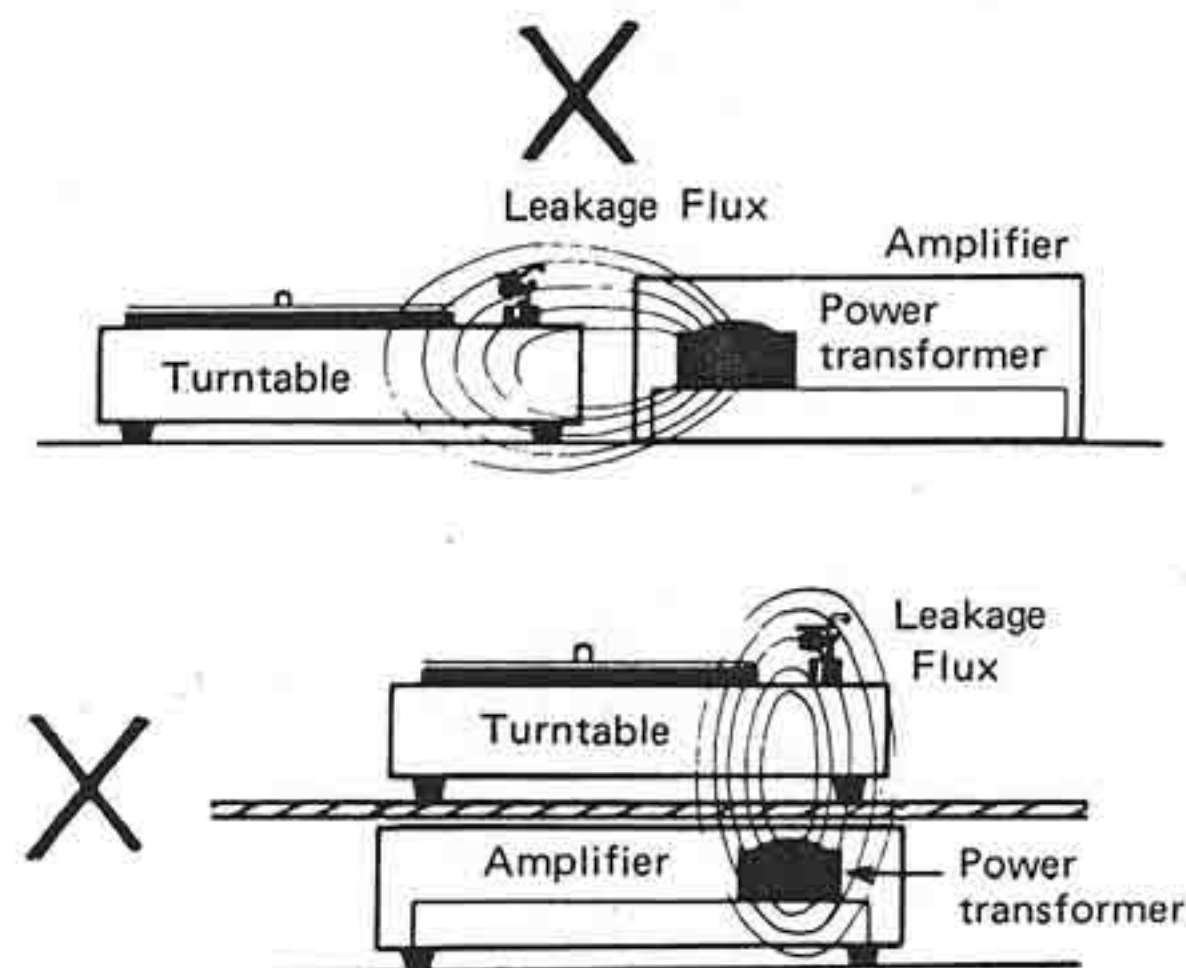


Fig. 3

Specifications

BL-51

Drive system	Belt drive system
Motor	FG servo DC motor
Power requirements	U.S.A. & Canada 120V 60Hz, other areas 220—240V 50/60Hz
Power consumption	4W
Speed	33-1/3, 45 rpm
Wow/flutter	0.025% (WRMS)
Signal-to-noise ratio	more than 75dB (DIN B)
Speed variable range	±3%
Platter	Aluminum diecast 31 cm diameter
Dimensions	510 (W) x 405 (D) x 175 (H) mm
Weight	11.8 kg (26 Lbs.)

Design and specifications are subject to modification without notice.

MICRO SEIKI

HIGH FIDELITY TURNTABLE SYSTEMS



BELT DRIVE TURNTABLE SYSTEM (ARMLESS)

BL-51

The model BL-51 can accommodate the following tonearms:

- MICRO MA-707, MA-701
- SME 3009
- INFINITY BLACK WIDOW
- ADC LMF-1, 2
- GRACE G-704, 707, 714
- STAX UA-7

BELT DRIVE TURNTABLE SYSTEM

BL-51

 with **TONEARM
MA-701**

Many manufactures have been promoting the direct-drive motor at the expense of precision materials and manufacturing techniques. While direct-drive is capable of remarkable speed accuracy, the system does nothing toward maintaining that accuracy against the inevitable destructive effects of aging.

Our philosophy is that there is no substitute for quality, precision and tank-like ruggedness. The BL-51 turntable is the ultimate expression of that philosophy. Starting with a massive, thick, 12.2 inch platter and employing special-alloy bearings machined and polished with techniques usually reserved for turbojet engines, MCRO's engineers have devised an exclusive oil-bath damping system to support the entire rotating assembly in complete isolation from all mechanical resonances.

A precision-ground drive belt connects the rotating assembly to he brushless, servo-controlled motor with total isolation from motorgenerated vibration. In fact, the BL-51 is probably the smoothest, most vibration-free device of its kind ever built.

■ ROTATING ASSEMBLY

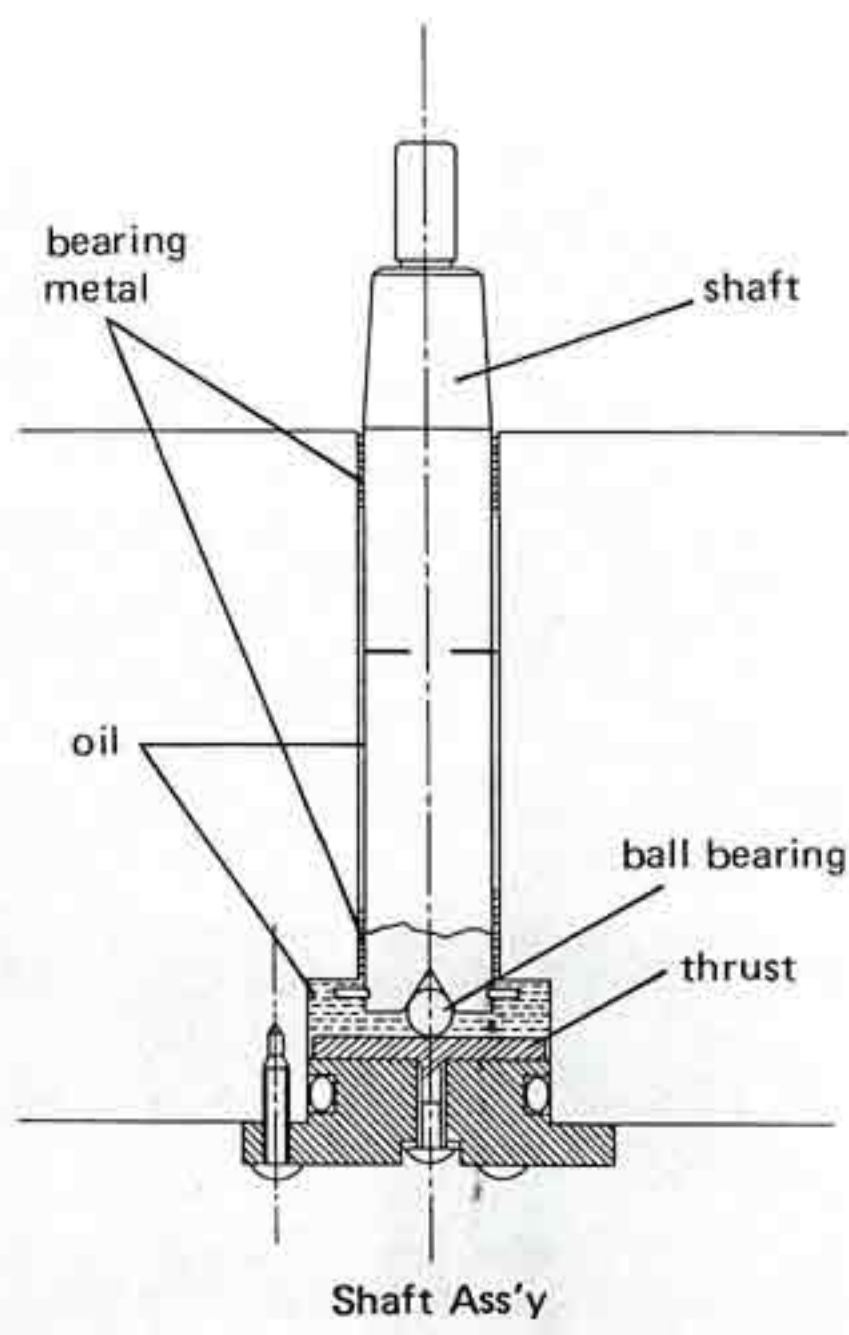
The massive platter sits atop an incredibly thick, 16mm main shaft. Its concentricity is machined to within 0.4 microns! The bearing material is a special alloy lubricated by and suspended in unique oil-bath damping system. Not only does the system negate the need for periodic user lubrication, it is unaffected by temperature changes and aging!

■ DRIVE SYSTEM

The brushless, servo-controlled motor is of the outer-rotor design and uses sophisticated electronic circuitry to maintain speed accuracy. The specially-engineered, low-tension drive belt is made of a carbon/urethane compound for maximum longevity and is ground to a precise thickness of 0.45mm. Motor speed is user variable.

■ GENUINE WOOD BASE

One of the best acoustical dampening materials known is wood. It is used as the base material for all MICRO SEIKI turntables and BL-51 is natural ebony finishes.



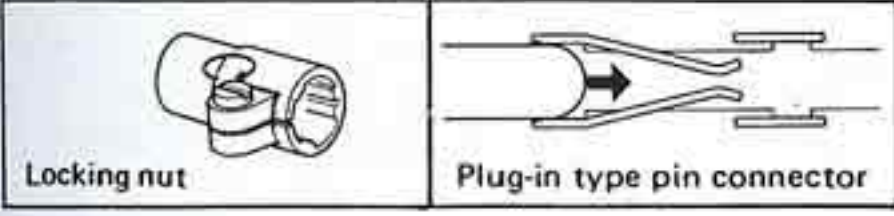
SPECIFICATIONS

Drive system	Belt drive
Speeds	33-1/3 and 45 RPM (selectable)
Speed variation	User variable to ±3%
Wow and flutter	0.025% WRMS
Signal-to-noise ratio ...	75dB (DIN B)
Drive motor	FG servo DC motor
Platter diameter	31cm (12.2")
Platter weight	2.3kg (5lbs.) incl. rubber mat
Platter material	Diecast aluminum
Base construction	multi-laminar natural wood finished with hand-rubbed natural ebony.
Power	USA & CANADA 120V 50/60Hz; Other areas 220~240V 50/60Hz 1.2 Watts max.
Dimensions Weight	
BL-51	510(W) x 405(D) x 175 (H)mm 11.8kg (26lbs.)

*Design and specifications are subject to modification without notice.

MA-701
LOW-MASS STRAIGHT TONEARM WITH DUAL RADIAL BEARINGS

A special alluminum alloy is used to give the arm its formidable strength and exceptionally low mass. Both qualities are needed to take full advantage of today's, supercompliant cartridges. The straight-line geometry assures the most accurate tracing angles as well as contributing to the arm's low mass. A pair of precision radial bearings give the arm a lateral sensitivity of only 10 milligrams. Even the normally-overlooked signal connectors are of the constant-wipe type, insuring contact maintenance at all times.



HEADSHELL

Thanks to the use of carbon fibers,the headshell is as light and rigid as the arm itself. It joins the arm with a semi-integrated plug-in system that utilizes thick gold-plated wiping-type contacts. Oxygen-free copper leads are used to exclude electromagnetic influences (eddy-current losses) resulting in exceptional transmission characteristics (improved S/N ratio).



SKATING FORCE CANCELLATION

Anti-skating is provided by a precision-calibrated adjustment to exactly match vertical tracking force.

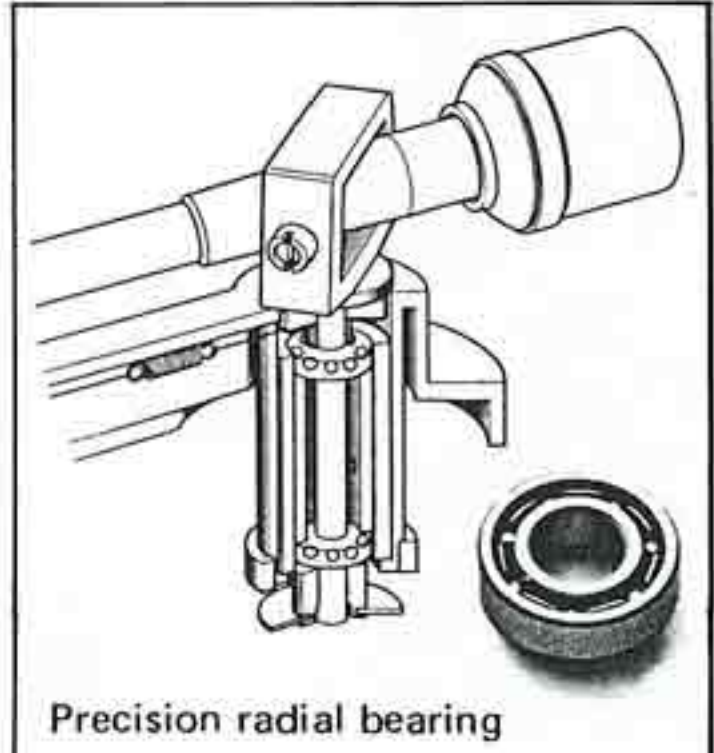
OIL DAMPED CUEING

Feather-light contact between stylus and record groove is provided by the oil-damped cueing system. It is silent, smooth and, at the end of a record,completely automatic.



■ MA-701 Specifications

Overall length: 315mm (12-3/8 inch) Effective length: 237mm (9-3/8 inch) Overhang: 15mm (5/8 inch)
 Offset angle: 21° 50' Tracking error angle: Less than 1.5° Height range: 43~83mm (1-3/4~3-1/4 inch)
 Recommended cartridge Weights: 4~12g (0.14~4.2oz) Anti-skating device: Spring tension type
 Establishing of anti-skating force: Relative to stylus pressure Tonearm lifter: Delayed action type Output cable: 5 pin connector plug-in low capacity design (55PF/m) shielded cable Headshell (H707x): 4g (0.14oz) made of carbon mixed Connector: Plug-in type, with hard gold plating



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