

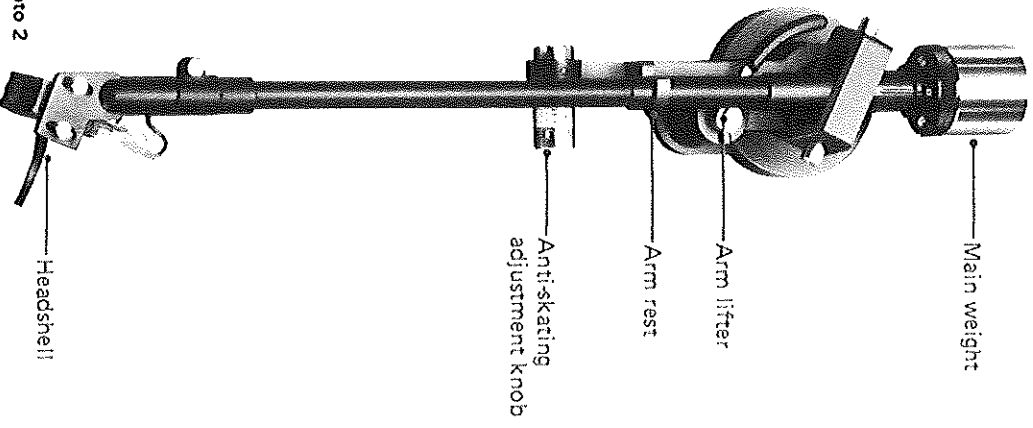
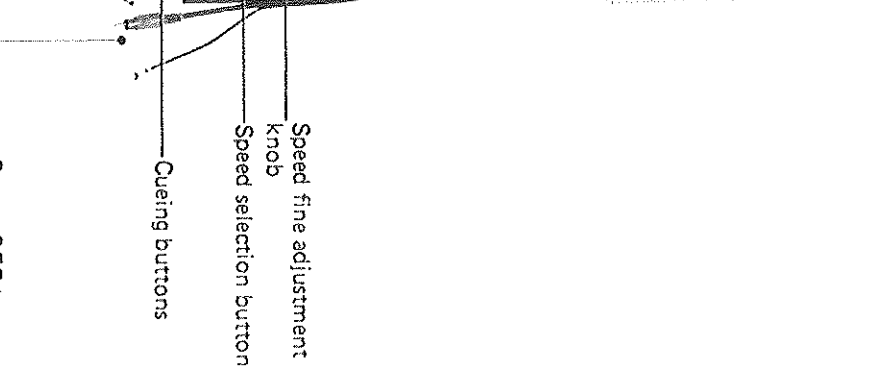
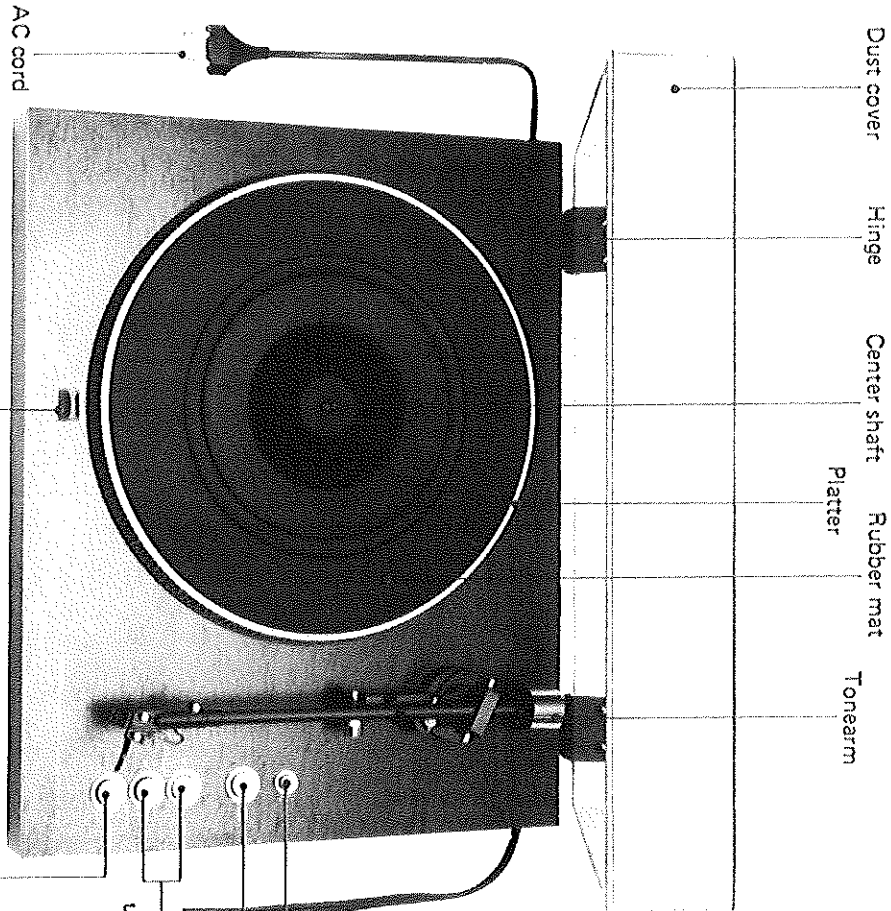
precision designed & engineered high fidelity record playing equipment and accessories

MICRO SEIKI

DD-31

OPERATING MANUAL

Parts Nomenclature

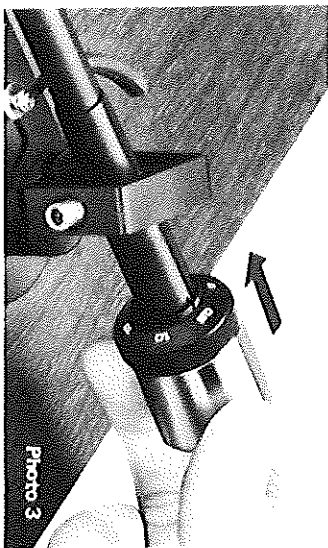


WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Turntable & Tonearm Assembly

- Turntable assembly
Mount the platter on the center spindle and place the rubber mat on the platter. (Never put on the power unless the platter is placed on the motor spindle.)

- Tonearm assembly
1) Secure the tonearm in the arm rest. Then mount the main weight onto the end of the tonearm shaft, turning it in the direction shown. (photo 3.)



- 2) Install the shell with cartridge into the tonearm and secure it by the nut. (Fig. 1)

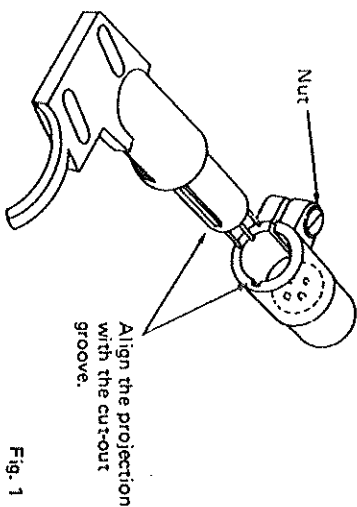
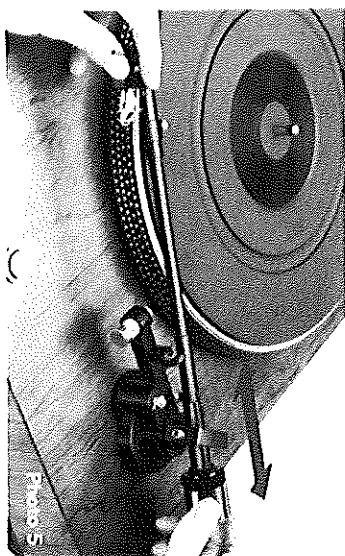


Fig. 1

- Horizontal balancing
1) Align OFF on the anti-skating control knob to the bias reference line. (photo 4)



- 2) Supporting the headshell and main weight illustrated in photo 5 turn the main weight, moving it backward or forward, until the proper balance is achieved.



- 3) Horizontal balance is achieved when the weights of the main weight and the headshell are balanced, than the tonearm is allowed to float free.



Fig. 2

Tonearm is properly balanced.

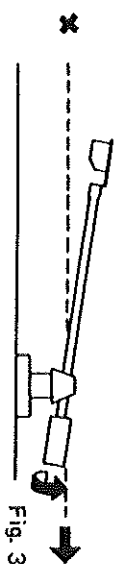


Fig. 3

Main weight is too heavy.
Rotate the main weight in the direction indicated by the arrow and slide it toward the tonearm stand to attain the balance shown in Fig. 2.

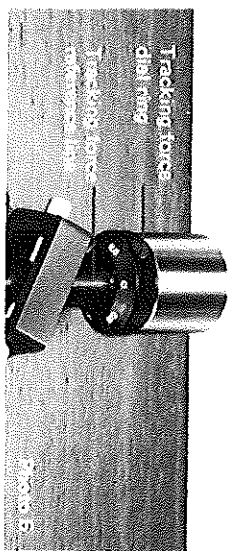


Fig. 4

Cartridge is too heavy.
Rotate the main weight in the direction indicated by the arrow and slide it away from the tonearm stand to attain the balance shown in Fig. 2.

● Tonarm Adjustment

● Tracking Force Adjustment



After balancing the tonearm, return it to the arm rest and raise the arm lifter. Turn only the tracking force ring and set the reference line to zero (Photo 7). Next, turn the rear part of the main weight in the arrow indicated direction (Photo 8) so that the tracking force reference line is aligned with the used cartridge stylus pressure, such as 1.3 scale indication for 1.3 gram recommended cartridge. The tracking force ring scale is direct reading in 0.5 gram increments.

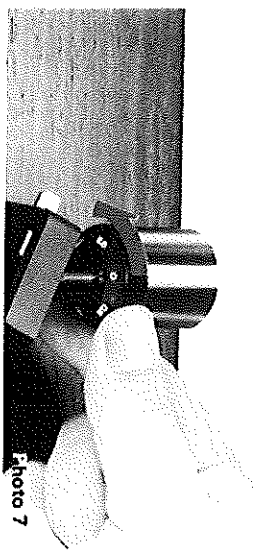


Photo 7

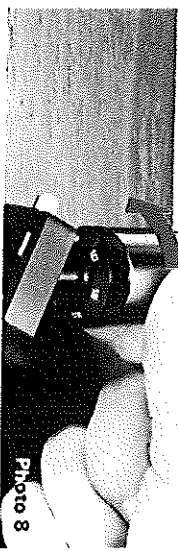


Photo 8

● Anti-skating device adjustment

Anti-skating device is designed to get the correct cancel force where scale indicates the same figure of tracking force and also can be regulated to conform with stylus tip configurations. When the cartridge with elliptical stylus being used, adjust the cancel force according to the elliptical dot line. (Fig. 5) In case of the cartridge has conical stylus, adjust the cancel force according to the conical dot line. (Fig. 6)

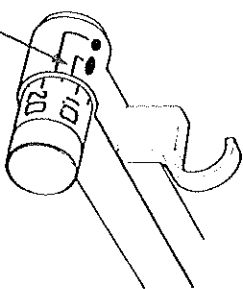


Fig. 5

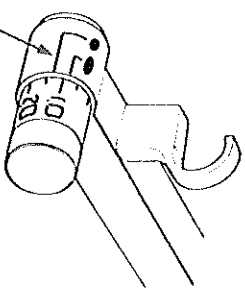


Fig. 6

Conical dot reference line

Elliptical dot reference line

● Dust Cover Installation

● Installing dust cover

Insert the dust cover hinges into the turntable brackets and push down in the arrow indicated direction. (photo 9)

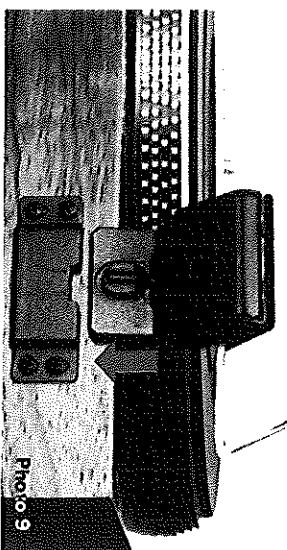


Photo 9

In order to adjust the opening and closing angle of the dust cover, rotate the adjust screw in the direction indicated in photo 10 and adjust.

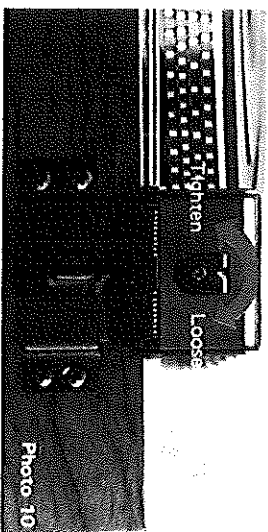


Photo 10

● Connection

- Connecting to a stereo amplifier or receiver
Connect the output plugs of the DD-31 to the input terminals of the amplifier marked PHONO (or MAG.).
- 1. Connect white pin-plug of the output leads to the PHONO left terminal of the amplifier.
- 2. Connect red pin-plug of the output leads to the PHONO right terminal of the amplifier.

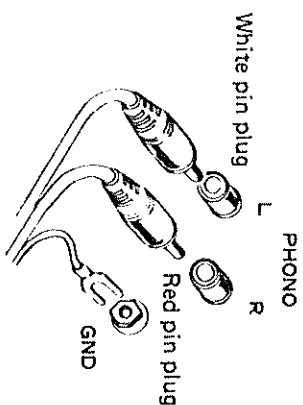


Fig. 7

● Operation

- Playing records

- 1) Press ▲ button and platter rotates.

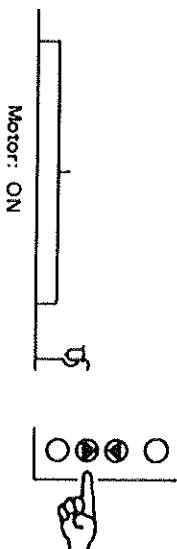


Fig. 8

- 2) Press the speed selection button to select platter rotating speed according to the record. (■ 33/■ 45 rpm)

- 3) Position tonearm over desired starting point of the record and press the ▼ button. Platter rotates and tonearm is gently lowered onto the record to begin playing.

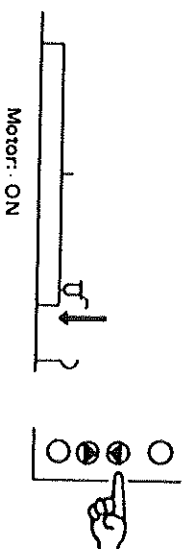


Fig. 9

- 4) At the end of the record, the tonearm is automatically raised and platter rotation stops.

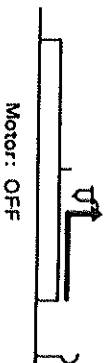


Fig. 10

- Raising tonearm in midst of record
Press the ▲ button. The tonearm will be gently raised while the platter continues to rotate.

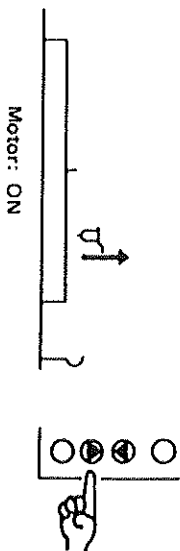


Fig. 11

- Stopping play in midst of record
Press the OFF button. The tonearm becomes raised and platter rotation stops.

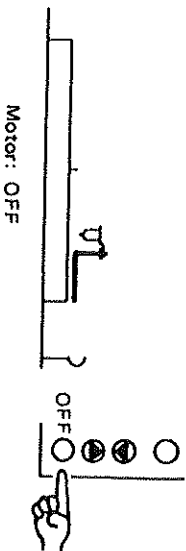


Fig. 12

● Handling and Care

● Stroboscope and power line fluctuations
Although the platter (driven by a DC servo motor) which is unaffected by line frequency changes) continues to rotate at a constant speed, such power fluctuations do affect the neon lamp. Consequently, the stroboscope stripes may occasionally appear a little unsteady. There is no need for concern, as this phenomenon does not indicate any change in platter speed.
(Note: When the plater is very new, some current instability in the servo amp transistors may result in very slight speed variation, easily adjusted with the fine speed controls.

● Specifications

- Player location
 - 1) Installing the player near an amplifier, equipment using transformers, or other electromagnetic sources, will most likely cause hum during playback.
 - 2) As installation near or on speakers, very close to a wall or other sources of vibration will encourage howling, the player should be located on a surface not subject to excessive vibration.
 - 3) The player should be installed in a well ventilated area, out of contact with any prominent heat source which might cause the motor to overheat during periods of extended use.
 - 4) This turntable is designed only for indoor use. No using it outdoors.
- As dirt clinging to the stylus will produce distortion and a deterioration of the sound quality, the stylus should be cleaned periodically using the stylus brush.
(Cleaning records with a record cleaner before playing will greatly reduce the amount of dirt and dust on the stylus.)
- Avoid location in a dusty place, and when not in use, make certain the dust-cover is closed.
- The connections between the tonearm and the headshell and those on the line between the player and the amplifier can sometimes become soiled and consequently less efficient. These points should be wiped occasionally with alcohol or carbon tetrachloride.
- As the DD-31 features a special lubricant, oiling is completely unnecessary. Lubrication with a different kind of oil can lead to damage.

● Specifications	
Turntable	Direct drive with DC servo motor
Drive System	33-1/3, 45 rpm
Speeds	Die-cast aluminum, 31 cm (12% inch) 1.2 kg (2.64 lbs)
Wow & Flutter	Less than 0.03%
S/N ratio	More than 75 dB (DIN)
Power	U.S.A. & Canada 120V, 60 Hz, other areas 220-240V, 50 Hz, 12W
(Be sure the power requirement of this machine corresponds to the outlet of your room.)	
Tonearm	
Type	Static balance
Effective length	237 mm (9-3/8 inch)
Overhang	15 mm (9/16 inch)
Maximum tracking error	Less than 1.5°
Range of tracking force adjustment	0-3g
Cartridge (L.F-7)	
Type	Variable flux (M.I.)
Frequency response	high compliance type 10-25,000 Hz ± 2 dB
Output voltage	3.2 mV (1 kHz)
Channel balance	Less than 1.0 dB (1 kHz)
Channel separation	More than 25 dB (1 kHz)
DC resistance	800 ohms
Impedance	3 Kohms
Compliance	10x10 ⁻⁶ cm/dyne (Dynamic) 25x10 ⁻⁶ cm/dyne (Static)
Suitable tracking force	1.3 ± 0.3g
Weight	5.4g
Replacement stylus	V-7
Dimensions	(W) 468 x (D) 375 x (H) 155 (18 3/8 x 14 3/4 x 6 1/8 inch)
Weight	7.8kg (17.4 lbs)
* Design and specifications are subject to modification without notice.	



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