



Owner's Manual
Quartz PLL
Direct-Drive Auto-Return
Turntable CP-300Q

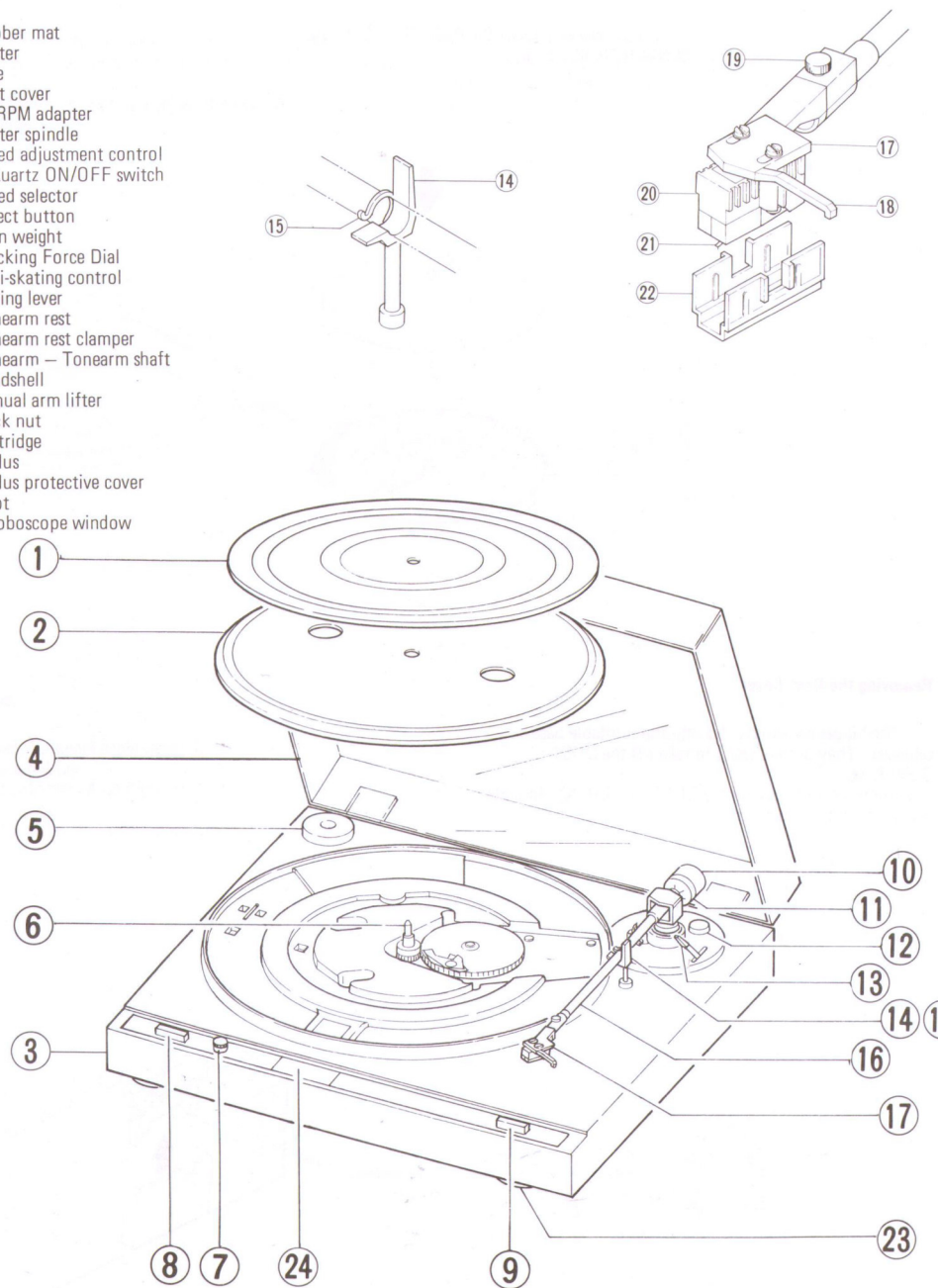


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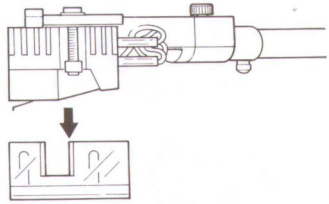
Designation of parts

- ① Rubber mat
- ② Platter
- ③ Base
- ④ Dust cover
- ⑤ 45 RPM adapter
- ⑥ Center spindle
- ⑦ Speed adjustment control & Quartz ON/OFF switch
- ⑧ Speed selector
- ⑨ Reject button
- ⑩ Main weight
- ⑪ Tracking Force Dial
- ⑫ Anti-skating control
- ⑬ Cueing lever
- ⑭ Tonearm rest
- ⑮ Tonearm rest clasper
- ⑯ Tonearm — Tonearm shaft
- ⑰ Headshell
- ⑱ Manual arm lifter
- ⑲ Lock nut
- ⑳ Cartridge
- ㉑ Stylus
- ㉒ Stylus protective cover
- ㉓ Foot
- ㉔ Stroboscope window

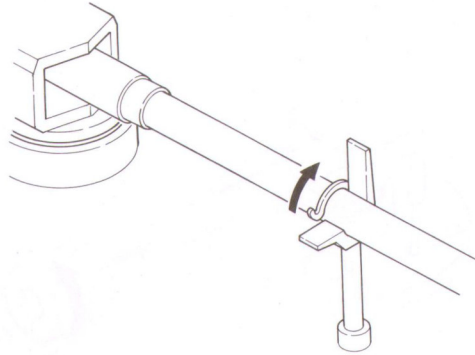


Adjusting the Tonearm

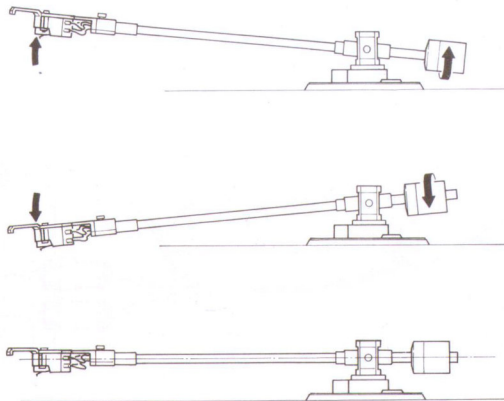
1 Set the ANTI-SKATING 12 control to '0'. Pull the CUEING-lever 13 down to ▽. Remove the needle protection (STYLUS COVER 22) from the cartridge.



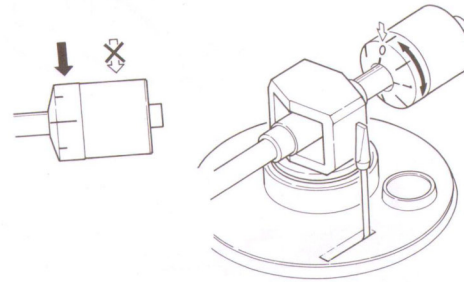
2 Release the TONEARM REST CLAMPER 15. The tonearm will swing up, down or sideways, so care must be taken to avoid damage of the stylus. You can hold the tonearm by the MANUAL ARM LIFTER 18 (hook of the headshell).



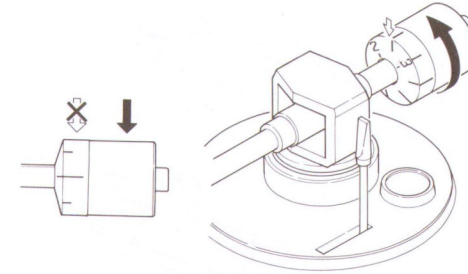
3 Balance the entire tonearm, by turning the MAIN WEIGHT 10 (moving it forward or backward). Leave the MAIN WEIGHT 10 where it balances the tonearm horizontally. When the above adjustment is finished, secure the tonearm on the TONEARM REST 14 with the CLAMPER 15 and lift the CUEING LEVER 13 to ▽.



4 With the tonearm balanced horizontally, it has a tracking force of "0" gram. To prepare the tracking force adjustment, turn only the TRACKING FORCE DIAL to read "0" on the reference line of the tonearm shaft. Be sure **not** to turn the entire MAIN WEIGHT as this will spoil the horizontal balance of the tonearm.

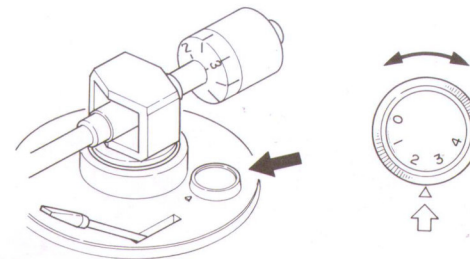


5 **Adjusting the Tracking Force.** Turn the MAIN WEIGHT (rear part) until the TRACKING FORCE DIAL indicates the appropriate tracking force for your cartridge. The standard cartridge provided operates best with a tracking force of 2.5 grams.



6 **Adjusting the ANTI-SKATING 12 control.**

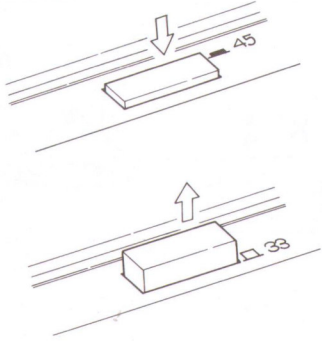
As the cartridge tracks a revolving disk (record), the stylus tends to be pulled toward the center of the disk. This "inside force" presses the stylus against the inner wall of the record groove. The ability to track the groove is reduced, and the reproduced sound is slightly distorted. The ANTI-SKATING 12 control (or inside force canceller) offsets this harmful force and only needs to be set at the same indication as the Tracking Force applied.



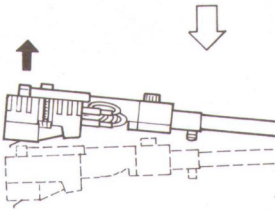
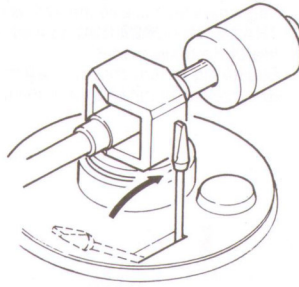
Operation

Set the VOLUME of your amplifier to minimum.
Turn the POWER switch ON.
Set the INPUT SELECTOR (FUNCTION or SOURCE switch) to PHONO.
Remove the stylus protective cover.
Release the CLAMPER ⑮ at the TONEARM REST ⑭.

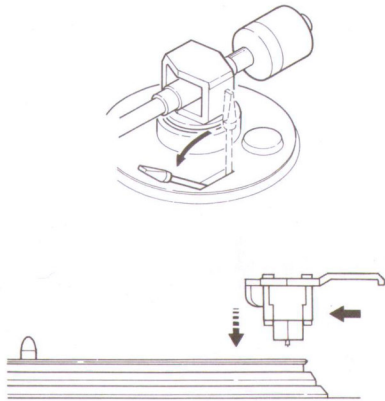
- Depress the SPEED SELECTOR ⑧ button to play a 45 RPM record.
Release the SPEED SELECTOR ⑧ button to play a 33-1/3 RPM record.



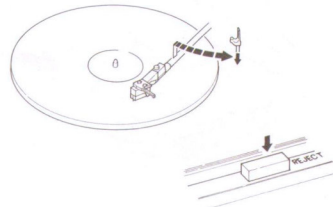
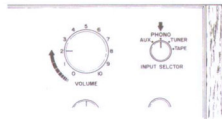
- Lift the CUEING ⑬ lever to ∇ .



- Gently place your finger on the MANUAL ARM LIFTER ⑱ (hook of the headshell) and move it to the beginning of the track you wish to play.
Pull the CUEING ⑬ lever to ∇ . The tonearm lowers gently onto the record and starts playing.



- Adjust the VOLUME of the amplifier.
When the record is finished, the tonearm will return to the arm rest, and the turntable will shut off automatically.
If you desire to terminate the play before the record is finished, push the REJECT ⑲ button, and the turntable will shut off the same manner as above.

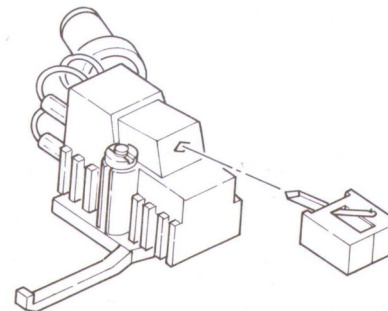


The orange dots, visible in the STROBOSCOPE WINDOW ⑳ permit you to adjust the revolving speed of the turntable, related to the correct speed, chosen by the SPEED SELECTOR ⑧. The adjustment is done by the SPEED ADJUSTMENT CONTROL ⑦. The speed is correct when the dots don't move.

When pushing the QUARTZ ON/OFF SWITCH ⑦, manual speed adjustment is replaced by a precise quartz-controlled circuit.

Cartridge Stylus Replacement

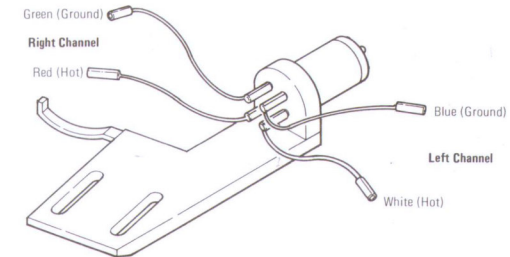
The life of a diamond stylus is between 800 and 1000 hours.
To replace the stylus, loose the lock nut of the tonearm and remove the headshell from the tonearm.
The entire stylus holder can be pulled off the cartridge, as illustrated.
The new replacement stylus can gently be pressed in.



Cautions

While the tonearm is automatically returning to the armrest, do not manually interfere it.
During playback, do not touch the platter or tonearm.
To prevent possible damage to record or stylus, the CUEING lever should always be used to lower the tonearm onto the record surface.

Cartridge Wiring Diagram



Specifications

Turntable

Motor	Coreless, slotless, brushless 4-phase 8-pole magnet field type flat DC motor
Drive system	Electronically controlled Direct Drive
Platter	310 mm diameter aluminum diecast
Platter weight	0.9 kg
Wow and Flutter	Less than 0.035% WRMS (JIS)
Signal-to-Noise ratio	More than 73 dB (DIN-B)
Speeds	33-1/3 and 45 RPM
Speed adjustment range	±4%

Tonearm

Type	Statically balanced straight tubular arm Direct reading Tracking Force Adjustment Viscous-damped cueing mechanism
Effective length	215 mm
Overhang	16 mm
Acceptable cartridge weight	5~9g

Cartridge

Type	Moving Magnet (MM)
Frequency Response	20~20,000 Hz
Channel Balance	Within 1 dB at 1 kHz
Crosstalk	More than 25 dB at 1 kHz
Output Voltage	3.5 mV at 1 kHz (50 mm/s)
Optimum Load	47 kOhm
Tracking Force	2.5g (±0.5g)
Stylus	0.7 mil diamond

General

Power Requirement	220 Volt AC (±10%) 50/60 Hz 7W
Dimensions (W x D x H)	420 x 375 x 133 mm
Weight	5.5 kg Net 7.0 kg Gross

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