
Vestax **PDX-a1**

OWNER'S MANUAL

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FEATURES

- The PDX-a1 is a high end performance turntable designed for the beginners and the professionals with the same basic quality as the best selling turntable, the PDT-5000.
- **FAST STARTS BY HIGH TORQUE**
Using high-torque direct motor, the integral motor delivers 1.6kg·cm start torque. The high-torque gives quick starts that enable the platter to reach 33- $\frac{1}{3}$ rpm within 0.5 second.
- **FLOATING SUSPENSION TONEARM**
The tonearm is mounted on the deck plate using a floating suspension system with the drive motor. Acoustic feedback is minimised by this advanced system.
- **QUARTZ-PHASE-LOCKED CONTROL**
The pitch is variable continuously by up to approximately $\pm 10\%$ and returned automatically to the predetermined speed (33- $\frac{1}{3}$ or 45 rpm) by on/off switch even if the pitch control is employed.
- **NON-CENTER-CLICK PITCH FADER**
Pitch fader has no center click, and it allows delicate adjustment easily. The PDX-a1 features detachable pitch control fader for ease of replacement when it is worn out.
- **MINI LIGHT FOR ILLUMINATING STYLUS(OPTIONAL)**
The PDX-a1 provides detachable small stylus illuminator for illuminating the stylus tip during play for low-light conditions.
- **OTHER FEATURES**
Quick stops are achieved with an electronic braking system.
Remote control jack is provided for controlling START/STOP by other equipment like a fader start etc.

BEFORE USE

- **CAUTION** : Never connect the AC power plug before assembly has been completed.
- **CHECKLIST OF PARTS** :
This unit includes the following parts ;

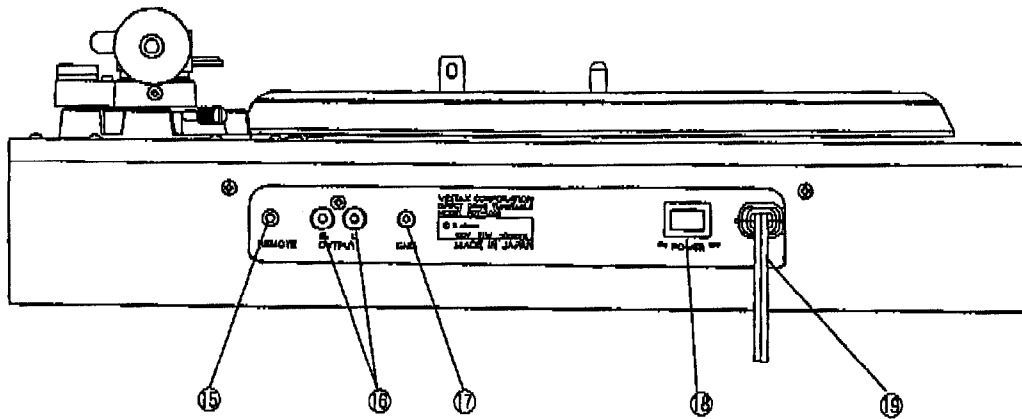
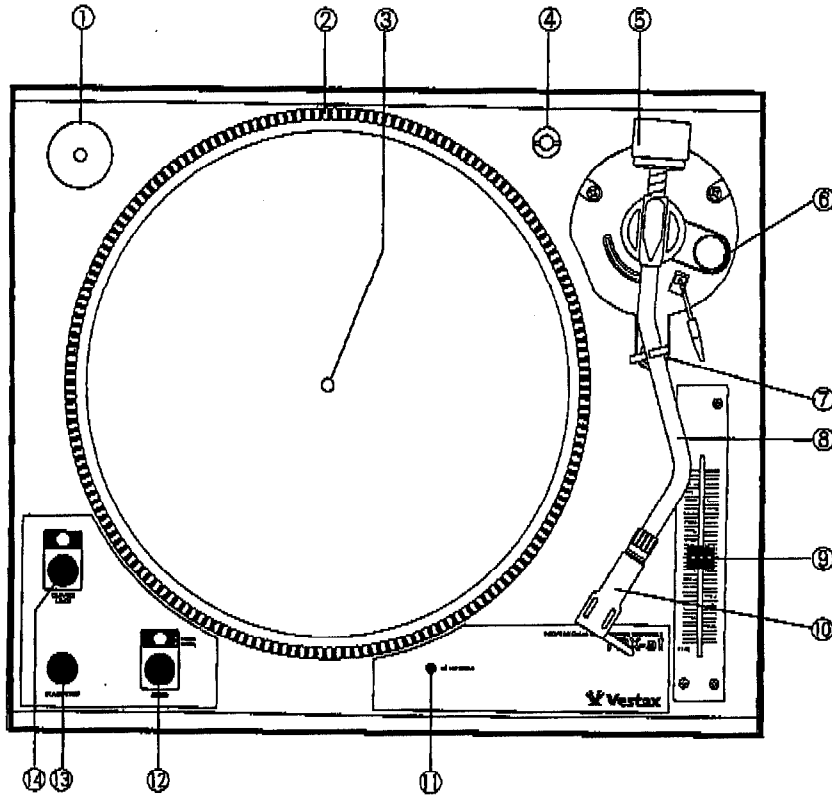
1. Turntable Unit	6. Balance Weight
2. Turntable Platter	7. 45-rpm Adaptor
3. Slip Mat	8. RCA Cable
4. Shell Weight	9. GND Cable
5. Headshell	

SAFETY INSTRUCTIONS

1. Avoid placement of the unit where it will be exposed to the direct sun light or where ventilation is inadequate.
2. Avoid places where there is water or humidity.
3. Don't allow water or any foreign object to get inside of this unit.
4. Place this unit away from heat-emitting appliances.
5. Place the unit on a stable, horizontal position, where there is little or no vibration.
6. Check the voltage rating of this unit before connecting the unit to a power supply.
7. Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance. Never take hold of the plug or cord if your hand is wet, and always be sure to grasp the plug body when connecting or disconnecting.
8. Never attempt repairs yourself ;
 - A. The power supply cord or the plug has been damaged
or
 - B. Objects have fallen or liquid has been spilled into the appliance
or
 - C. The appliance has been exposed to rain
or
 - D. The appliance has been dropped or the enclosure damaged
or
 - E. The appliance does not appear to operate normally or exhibits a marked change in performance.
9. Except for adjustments explained in the operating instructions, do not attempt any repairs yourself. Be sure to request service from a qualified technician or your dealer or nearest service center.

FRONT

- ① Adaptor pocket for 45-rpm
- ② Turntable
- ③ Center Spindle
- ④ Spare Cartridge Stand
- ⑤ Balance Weight
- ⑥ Anti-skating Control Knob
- ⑦ Arm Rest
- ⑧ Tonearm
- ⑨ Pitch Control Knob
- ⑩ Headshell
- ⑪ Detachable Stylus Illuminator Jack
- ⑫ Speed Select Button
- ⑬ START/STOP Button
- ⑭ ON/OFF Button for Quartz Locked Pitch



REAR

- ⑮ Remote-control Jack
- ⑯ Output Jack
- ⑰ GND Jack
- ⑱ Power Switch
- ⑲ Power Cord

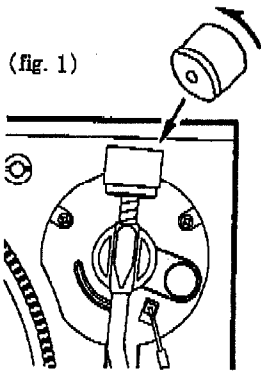
ASSEMBLY AND SET-UP

Installation of Turntable Platter

1. By placing the turntable platter on the center spindle, the platter adjusts to match the spindle by itself.
2. Place the slip mat on the platter.
3. Extra care should be taken to avoid damaging magnet by dropping it.

Installation of Balance Weight

Place the balance weight on the rear shaft of the tonearm (see fig. 1) winding the balance weight clockwise.



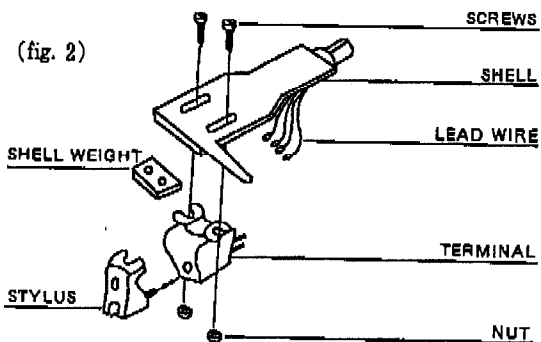
Installation of Cartridge

In accordance with the instructions of the cartridge, install a cartridge properly.

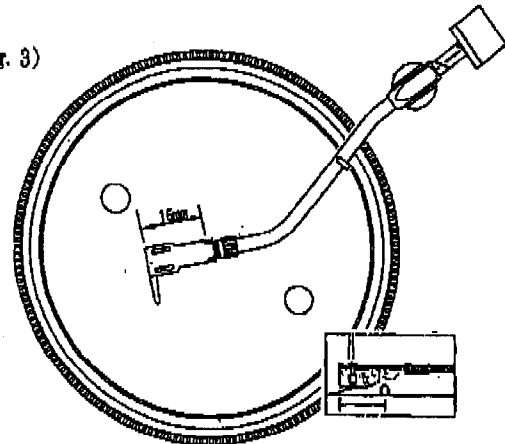
In case the cartridge weight is less than 8g, it is necessary to fix the attached shell weight on the cartridge.

Connect the lead wires to the cartridge terminals. The terminals of most cartridges are color coded. Connect each lead wire to the terminal of the same color.

Red	(R+)Right Channel +
Green	(R-)Right Channel -
White	(L+)Left Channel +
Blue	(L-)Left Channel -



(fig. 3)



Adjustment of Overhang

Use a rule, etc. to carry out correct adjustment. As shown in the illustration, overhang indicates the distance from the stylus tip to the center of the turntable spindle when the stylus tip falls on the extension of a straight line from the pivot of the tonearm to the center of the spindle. If the overhang adjustment is not properly made, the stylus will not be able to trace the record grooves correctly.

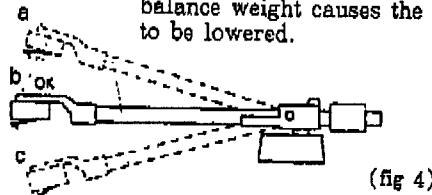
1. Loosen the two cartridge mounting screws.
2. Position the tonearm over the spindle.
3. Slide the cartridge forward or backward until the position of the stylus tip corresponds to the specified distance from the center of spindle (see illustration).
4. After obtaining correct overhang, tighten the two cartridge mounting screws firmly.

Note: Be sure not to touch stylus during adjustment with finger.

Adjustment of Horizontal Zero Balance

1. Release the tonearm from the armrest to free.

Note: Be careful not to touch your finger to the stylus tip.
2. Turn the balance weight clockwise or counter clockwise until the tone arm is balanced horizontally.
3. (see fig. 4)
 - a. Excessive backward retreatment of the balance weight causes the cartridge side to be raised.
 - b. The balance weight and cartridge are balanced, the tonearm is held horizontal.
 - c. Excessive forward advancement of the balance weight causes the cartridge side to be lowered.

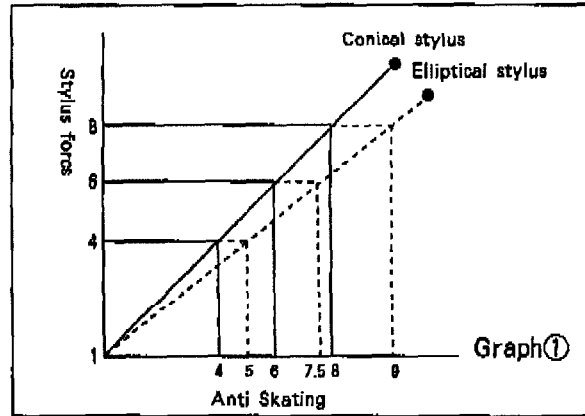
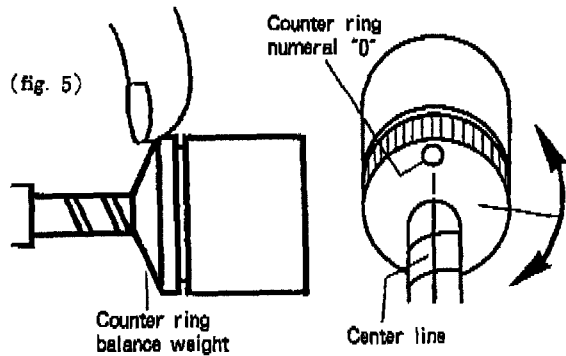


4. Return the tonearm to the armrest.

Adjustment of Stylus Pressure

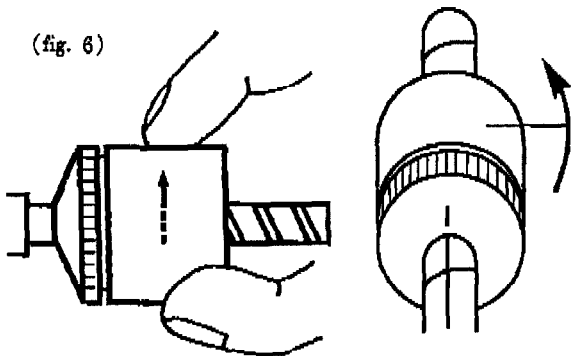
1. Hold the balance weight with one hand as shown in the drawing (see fig. 5), and rotate only counter ring to bring the numeral "0" of the ring into alignment with the center line on the tonearm rear shaft (see fig. 5).

Note: In case the balance weight moved, do the adjustment of horizontal zero balance again.



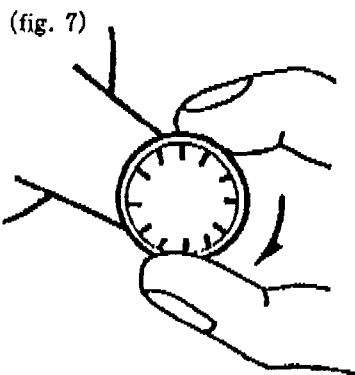
2. Turn the balance weight to present the reading on the gauge to the designed stylus force of your cartridge (see fig. 6)

As the counter ring moves in step with the balance weight, proper stylus pressure can be selected by reading the graduated ring directly.



Adjustment of Anti-skating Control

Turn and set the anti-skating control knob to the same value as the stylus pressure (see fig. 7).



STYLUS ILLUMINATOR (Detachable Mini Light)

The small light for the stylus illumination is available as an optional extra.

REMOTE CONTROL

In case you wish to control the START/STOP with using external equipment like a foot-switch etc., input jack is provided at the left side of rear panel.

QUARTZ LOCKED CONTROL AND PITCH ADJUSTMENT

1. When the indicator lamp is lit showing the operating condition for the pre-determined speed (33- $\frac{1}{3}$ or 45 rpm).
2. During the operation of pre-determined speed, pitch control fader can not be functioned. And once press the quartz control button, the indicator lamp is put out, the speed can be adjusted by pitch control fader.
3. During the operation of above 2., if you want to change the speed to the pre-determined one, press the quartz button. The indicator lamp lights and speed will become pre-determined one even when the pitch control fader not in the center.
4. Pitch control is possible up to a maximum of approximately $\pm 10\%$. Adjust the Pitch by sliding the Pitch Control Fader.

ACOUSTIC FEEDBACK AND HUM

Acoustic Feedback is usually caused by vibration of speakers, which affects the sensitive cartridge. If such a phenomenon occurs, relocate the turntable or speakers as far apart from each other as possible.

Hum is usually caused by nearby appliances that use transformer or thermostat. Relocating the unit further away from the noise sources will readily solve the problem. Hum may also be produced if the unit is not properly grounded. Make sure the grounding wire extending from the unit is securely connected to the GND terminal on the amplifier or mixer.

INSTALLATION

Do not place the unit where it is exposed to direct sun light, high temperature or humidity to prevent possible troubles.

Place the unit in a stable and horizontal position, where there is little or no vibration.

Locate the unit as far away from the speakers as possible and isolate the unit from sound radiation from them.

If the unit is placed too close to the radio, interference to AM/FM reception may result.

CONNECTION

Connect the output to inputs of amplifier or mixer.

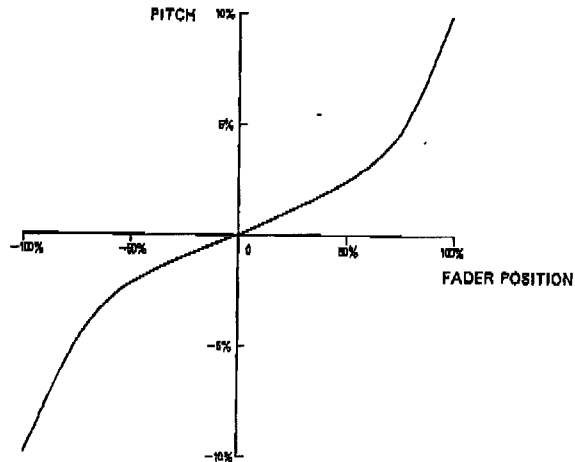
WHITE(L)L Channel

RED(R)R Channel

GNDGND

Note: Be sure to connect firmly the GND terminal to the amplifier or mixer, or a power source HUM will result..

Relationship between Pitch and Fader Position



OPERATION

1. Place the record on the turntable mat.
2. Press the power switch button provided at rear panel to turn "ON" position.
3. Remove the stylus protector if cartridge is detachable one.
4. Push the start/stop button, then platter will start to turn.
5. Move the tonearm position over the record.
6. Put it down to the record, and play will begin.
7. Move the tonearm to the armrest when play is finished.
8. Push the start/stop button, and platter will stop.
9. Turn off the power.

Note: A manual method of operation has been chosen for the playing of records instead of using "Cue Levers".

The unit has been set to select 33- $\frac{1}{2}$ rpm automatically when the power button is pressed to on. Push the 45 rpm speed select button if you play 45 rpm record.

NOTES

- Before detaching or attaching the headshell, be sure to turn the power of the amplifier or mixer off.
- Detaching or attaching of the headshell with the volume control turned up may cause damage to the speakers.
- Do not turn "ON" the power supply, with the turntable platter detached.
- When play is finished, be sure to secure the tonearm with the arm clamp. After play is finished, if the unit is not to be used for some time, care should be taken to secure the tonearm to protect the stylus tip. For the same reason, the stylus protector should also be attached.
- Wipe the headshell terminals from time to time. Dust and dirt at the headshell terminals may result in increased "HUM" noise or intermittent sound. Use a soft dry cloth to clean the headshell terminals.
- Dust and dirt should be carefully removed from stylus tip or records. Dust and dirt on the stylus tip or record may not only result in deterioration of tone quality, but also cause undue wear of the record and the stylus tip itself.
- Transportation of the unit to distant places for removal and the like. Pack up the unit in the reverse order to that for unpacking, using the packing materials furnished when the unit was purchased. Should there be no such packing materials, be sure to take the following steps.

Remove the turntable platter together with the turntable mat, and wrap it up to prevent any damage to them. Return the tonearm to the arm rest, and affix it with tape or the like. Remove the balance weight and the headshell/cartridge from the tonearm and then wrap them up to avoid and damage to them. Wrap up the turntable base with a blanket or soft paper also to prevent any possible damage to it.

SPECIFICATION

TURNTABLE	MOTOR STARTING UP TIME STARTING TORQUE BRAKING SYSTEM RAMBLE (S/N RATIO) SPEED PITCH WOW & FLUTTER	DIRECT DRIVE QUARTZ 0.5sec (33 $\frac{1}{2}$ rpm) 70° 1.6kg · cm ELECTRONIC BRAKE 78dB (IEC 98A WTD) 33 $\frac{1}{2}$ rpm, 45rpm ±10% (DETOUCHABLE 100mm FADER) 0.03% W. R. M. S.
ARM	TYPE EFFECTIVE LENGTH OFFSET ANGLE OVER HANG TRACKING ERROR ANTI SKATING STYLUS PRESSURE	STATIC BALANCE SYSTEM 230mm ±1mm 22° 15mm +2° 32' ~ +0° 32' ADJUSTMENT RANGE 0~7.0g ADJUSTMENT RANGE 0~7.0g
	LIGHT(OPTIONAL) SPEED LOCK REMOTE DIMENSION WEIGHT POWER	DETOUCHABLE MINI LIGHT DC12volt 100mA QUARTZ LOCK MOMENTARY START (MINI JACK) (W)450mm×(H)150mm×(D)370mm 9.5kg AC117V or 230V

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