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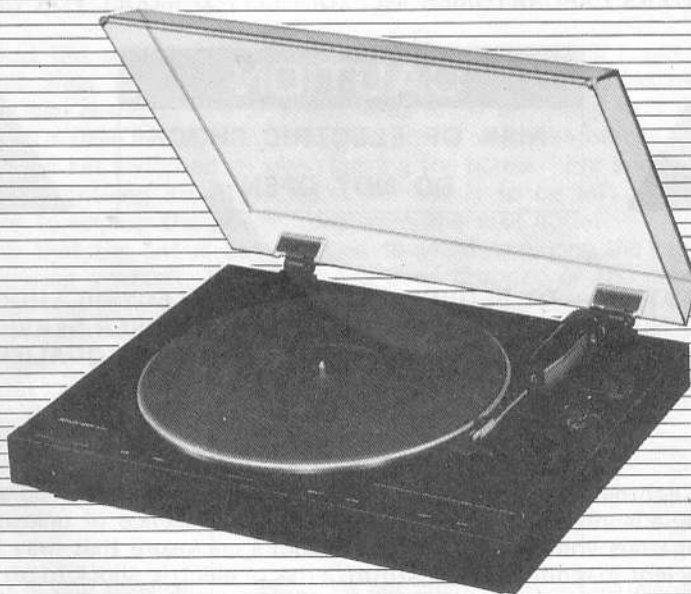
DENON

FULLY AUTOMATIC DIRECT DRIVE TURNTABLE

DP-23F

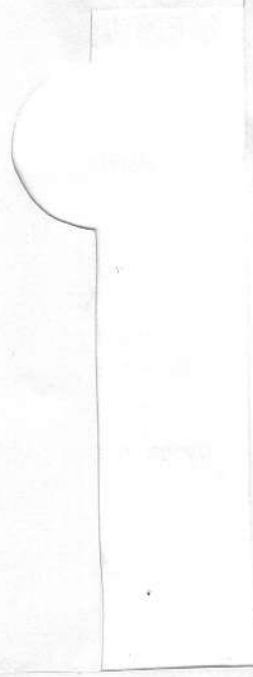
INSTRUCTION MANUAL

Read instructions before use and retain for future reference.



U.S. & Canadian models do not include Cartridge.

TEMPLATE

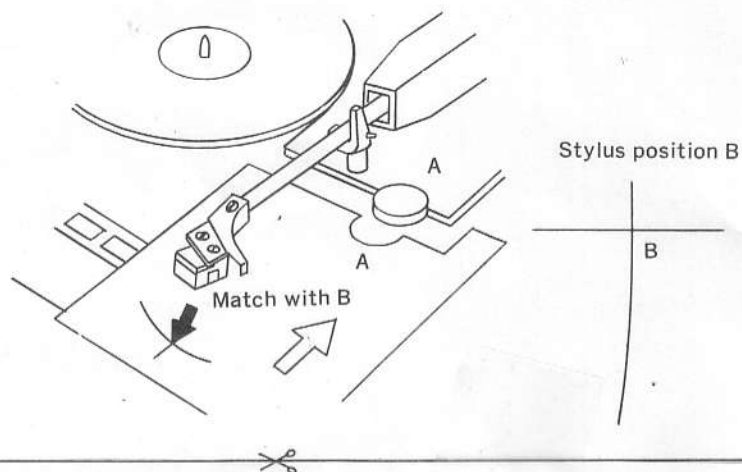


Use this diagram to determine the average position

How to use

1. Remove part "A" by cutting along the lines
2. Put the cut away section to position "A" (position section of the center of the template)
3. Position the spring tip to that it traces back line "B" and tighten the mounting screws

TEMPLATE



Use this diagram to determine the overhang position.

How to use

1. Remove part "A" by cutting along the lines.
2. Set the cut away section to section "A" (protruding section of the cabinet) of the turntable.
3. Position the stylus tip so that it traces along line "B", and tighten the mounting screws.

SPECIFICATIONS

Phonomotor section

Drive system :	Servo controlled direct drive
Turntable speeds :	33-1/3, 45 rpm
Wow & flutter :	Below 0.02% wrms (servo system) Below 0.03% wrms (JIS)
S/N ratio :	Over 75 dB (DIN-B)
Rise time :	Normal speed within 2 second (at 33-1/3 rpm)
Platter :	Aluminum die-cast ; 300 mm diameter
Motor :	Linear drive motor
Speed control system :	Speed servo by frequency detection, phase servo control
Speed deviation :	Below 0.002%
Load characteristics :	0% (80 g tracking force ; outermost groove)

General

Power supply :	50/60 Hz, 120 V
Power consumption :	7 W
Dimensions :	105×434×360 mm (H×W×D)
Weight :	Approximately 5 kg

Tonearm section

Arm Type :	Dynamically balanced, straight tube tonearm
Effective length :	220 mm
Overhang :	16 mm
Tracking error :	Within 3°
Automatic mechanism :	Electronically controlled, fully automatic
Adjustable tracking force range :	0~3.0 g (1 scale=0.1 g)
Suitable cartridge weight range :	Approximately 4.0~9.0 g (including screws, nuts)

Above specifications and outward appearance may be altered in future for improvement.

WHEN TROUBLES ARISE

When troubles arise, check the following items before considering any malfunctions.

The turntable does not start when the start switch is pressed.

The tonearm does not move.

- Is the power switch on (■)?
- Is the arm clamp released?Refer to page 7

The stylus does not lower onto the record.

- Is the arm lifter switch set to "down"?
- Is the proper tracking force being applied?Refer to page 7

The stylus does not lower on the desired position.

- Is the cartridge properly mounted on the head shell?Refer to page 6
- Is the turntable placed horizontally?

No sound.

- Is the tonearm and the cartridge connected properly?Refer to page 6
- Are the output wires properly connected to the amplifier?Refer to page 8
- Are the amplifier knobs/switches properly selected, adjusted?

Hum noises.

- Is the ground wire of the output wires properly connected to the amplifier?Refer to page 8
- Are the output wires properly connected?Refer to page 8

The stylus jumps.

- Is the tracking force set properly?Refer to page 7
- Is the record warped or scratched?
- Are there any considerable amount of dust on the stylus tip?

The arm does not move during play.

- Is the record scratched?
- Is something hitting the arm?

Little sound.

- Is the amplifier switched and connected properly for the type of cartridge (output) being used?

HOW TO PLAY

Before Playing

1. Turn the power supply of the amplifier on, and set the selector switch to "PHONO".
2. Set the record.
3. Turn the power supply of the turntable on (■), and set the speed selector to the desired position.
33-1/3 rpm records "33" (lamp lit)
45 rpm records "45" (lamp lit)
4. Release the arm clamp.

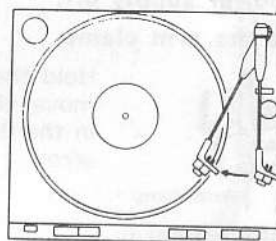


Fig. A

● For automatic play

1. Set the record size selector according to the size of record to be played.
30 cm records "30" (lamp lit)
17 cm records "17" (lamp lit)
2. Set the arm lifter switch to "down".
3. Press the start switch.
The tonearm will move over to the record and play will start. (Fig. A)
4. When the play finishes, the tonearm will return to the arm rest and the turntable will stop. (When the repeat switch is off.) (Fig. B) When the repeat switch is on, the record will be played again. (Fig. C)

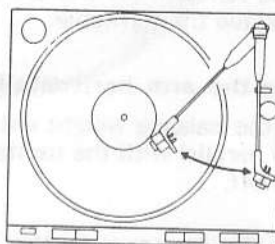


Fig. B

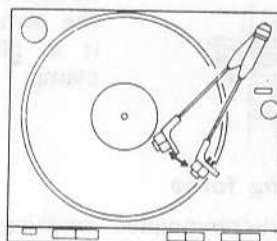


Fig. C

● For manual play

- When playing records from the middle.
 - When the record size is not standard, or when playing 25 cm records.
1. Set the arm lifter switch to "up" (lamp lit).
 2. By hand, place the tonearm over the desired position of the record. (Fig. D) The turntable will start to rotate.
 3. Set the arm lifter switch to "down".
 4. When the play finishes, the tonearm will return automatically as in the automatic play mode.

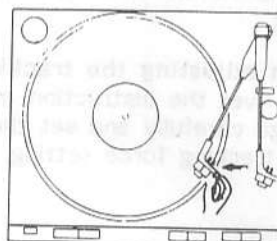


Fig. D

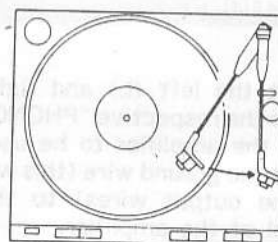


Fig. E

● For repeated play

1. Press the repeat switch on (lamp lit). The record will be played repeatedly until the repeat is disengaged. To disengage the repeat, press the repeat switch again.

● When stopping during play

1. Press the stop switch. The tonearm will return to the armrest and the turntable will stop. (Fig. E)
2. Or else, set the arm lifter switch to "up" (lamp lit)
The tonearm will rise above that position. The turntable will continue to rotate. (Fig. F)

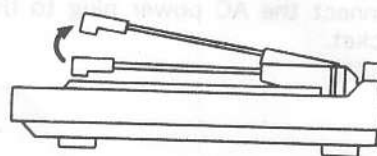
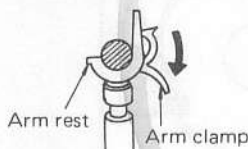


Fig. F

TRACKING FORCE ADJUSTMENT

Turn the power supply off.

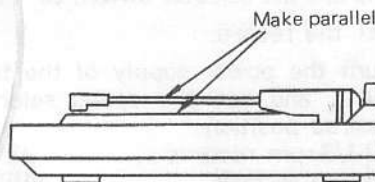
1. Release the arm clamp.



Hold the tonearm and move the arm clamp in the direction of the arrow.

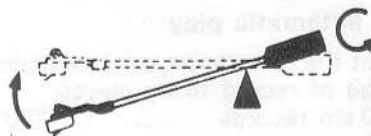
2. Move the tonearm

Take the tonearm off the armrest and position it above the turntable.



3. Balance the arm horizontally

Rotate the balance weight until the tonearm remains parallel with the turntable when your hand is off.

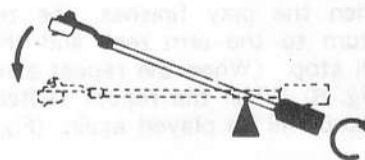


4. Return the tonearm to the armrest

Return the tonearm to the armrest and hold it in place with the clamp.



• Rotate the balance weight in the direction of the arrow.

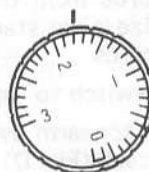


5. Tracking force

If the recommended tracking force of the cartridge is 1.8 g for example, rotate the adjustment knob until "1.8" is aligned with marking.

• When adjusting the tracking force

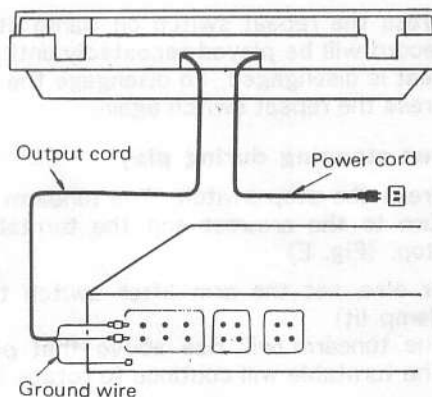
Read over the instruction manual for the cartridge carefully and set the knob to the proper tracking force setting.



Tracking force

CONNECTIONS

1. Connect the left (L) and right (R) output wires to the respective "PHONO" input terminals of the amplifier to be used. Secondly, connect the ground wire (this wire is together with the output wires) to the "GROUND" terminal of the amplifier.
2. Connect the AC power plug to the AC wall socket.



ASSEMBLY

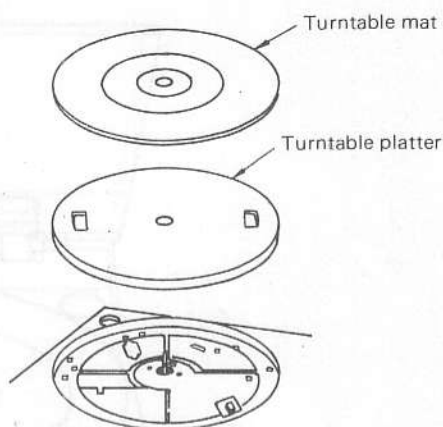
1. Remove the packing material.
2. Install the turntable platter and the turntable mat.

- 1) Insert the turntable onto the motor shaft.
- 2) Place the turntable mat on the turntable.

Caution :

Take caution as not to scratch the magnetic coating on the inner surface of the turntable platter.

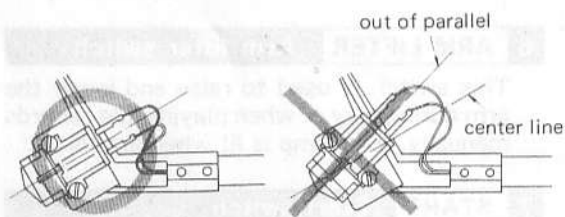
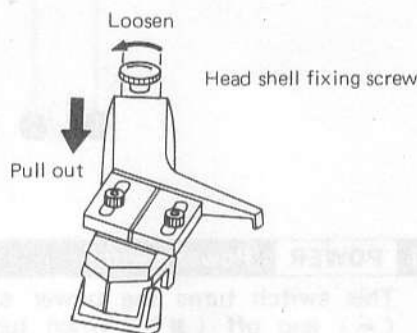
3. Attach the balance weight.



MOUNTING/REPLACEMENT OF CARTRIDGE

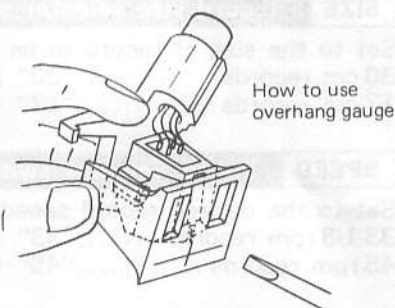
The acceptable cartridge weight for this turntable is approximately 4.0 to 9.0 grams (including the nuts and screws).

- Loosen the head shell fixing screw for about one turn. Then, pull out the head shell toward you.
- Mount the cartridge with the attached fixing screws, loosely at first to allow a slight movement. Fit the attached overhang gauge as illustrated and bring the stylus tip on the cross line of the gauge. Tighten the screws making sure that the cartridge is parallel to the head shell. The proper overhang is thus obtained.



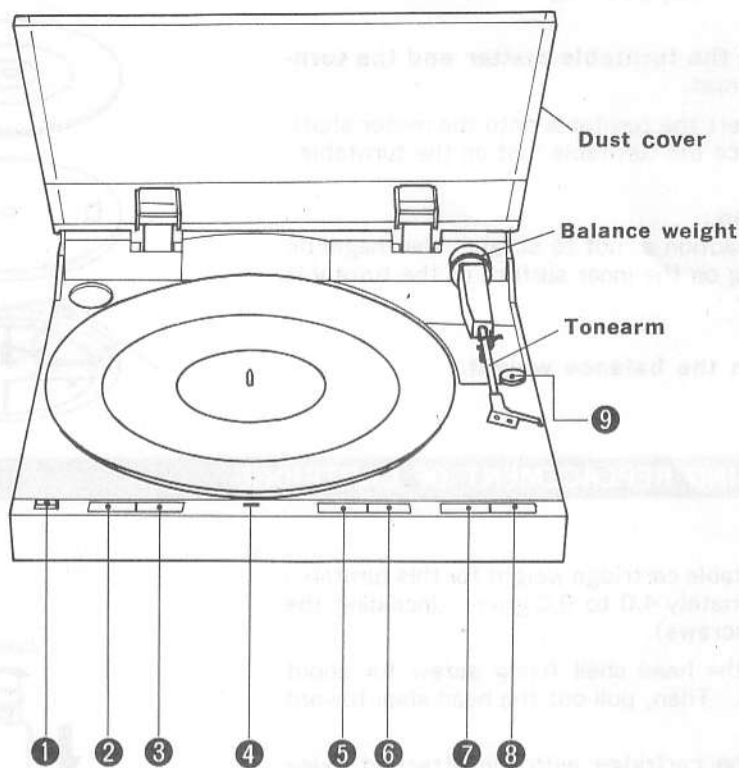
- The color designation of the lead wires are as follows. Refer to the marking on the cartridge or to its instructions and make connections to the proper terminals using tweezers, etc.

RedRight channel (R)
 WhiteLeft channel (L)
 GreenRight channel ground (RG)
 BlueLeft channel ground (LG)



U.S. & Canadian models do not include Cartridge.

PART NAMES OF FUNCTIONS



1 POWER (Power switch)

This switch turns the power supply on (▲) and off (■). When turning the power off, always return the tonearm to the armrest and hold it in place with the clamp.

2 SIZE (Record size selector switch)

Set to the size of record to be played.
30 cm records "30" (lamp lit)
17 cm records "17" (lamp lit)

3 SPEED (Speed Selector switch)

Set to the desired record speed.
33-1/3 rpm records "33" (lamp lit)
45 rpm records "45" (lamp lit)

4 LOCK (Lock indicator)

When the power is turned on, the lamp will light up. During play, the lamp will flicker until the proper turntable speed is reached. Once the proper speed is obtained, the lamp will, again, stay lit.

5 REPEAT (Repeat switch)

When playing the records repeatedly, switch it on (lamp lit).

6 ARM LIFTER (Arm lifter switch)

This switch is used to raise and lower the arm during play or when playing the records manually. The lamp is lit when arm is up.

7 START (Start switch)

Press this switch when starting the records automatically.

8 STOP (Stop switch)

Press this switch when stopping the record during play.

9 TRACKING FORCE (Tracking force adjustment knob)

This knob is used to adjust the tracking force.

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FEATURES

1. Silent, fully automatic operations with the use of a microprocessor controlled contactless servo tonearm.

An innovative microprocessor controlled, contactless servo tonearm ensures safe, easy to use automatic operations with little loss in sound quality.

2. Low mass straight arm

This arm is fully capable of maximizing the performance of high compliance cartridges with outstanding tracing ability. Even with the newest, high grade records, its tracing ability is outstanding.

3. DENON Quartz

The turntable speed is controlled by the "DENON Quartz" which is the combination of the high Precision Magnetic Pulse Detection Method", the most sophisticated method of FG detection, and the "Quartz Lock".

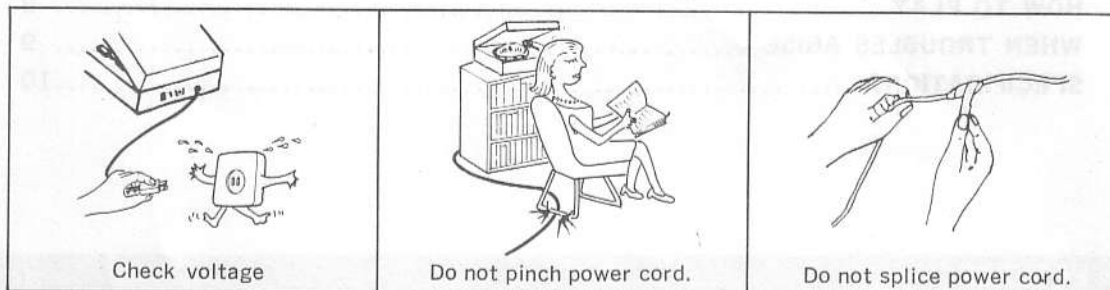
Please check to make sure the following items, aside from the main unit, are packed in the carton.

- | | |
|----------------------|--------------------------|
| 1) Turntable platter | 4) 45 rpm record adaptor |
| 2) Turntable mat | 5) Overhang gauge |
| 3) Balance weight | 6) Instruction manual |

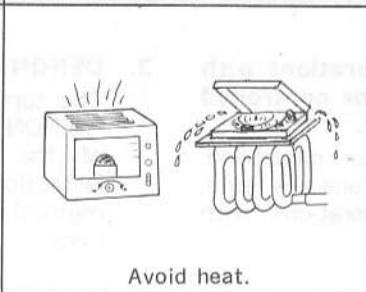
SAFETY INSTRUCTIONS FOR AUDIO SET

■ INSTALLATION

1. Operate the set only from a power source which is indicated on the rating label (indication) at the back of the set.
2. Frayed cords and broken plugs may cause a fire or shock hazard. Do not damage the power cord.
 - Do not cut and splice the power cord.
 - When removing the power cord from wall outlet, be sure to unplug by holding the plug attachment and not by pulling the cord. Do not hold the plug by wet hand.
 - Call your service technician for replacement of damaged cords and plugs.



3. Select a place so that the location or position does not interfere with the proper ventilation of the set for releasing heat generated during operation.
 - Select a flat and level surface allowing enough space for setting up and operation.
 - Never block the bottom ventilation holes placing the set



- on a bed, sofa, rug, etc.
- Never place the set in a "built-in" enclosure unless proper ventilation is provided.
- Never place the set near or over a radiator, heat register or stove.
- Avoid locations where the set is exposed directly to the sun light.

■ USE

1. Do not expose the set to rain or water (liquid). Do not spill liquid or insert metal objects inside the set. Rain, water or liquid such as cosmetics as well as metal may cause electric shorts which can result in fire or shock hazard. If anything gets inside, unplug the power cord and have a **DENON** service technician check your set before further use.
2. Never leave your set switched on when leaving the house. For added protection of your audio system during lightning storm or when the set is to be left unused for a long period of time, be sure to unplug the power cord from the wall outlet.
3. Take care so that the set is not dropped to avoid damaging the cabinet which defeats safeguards or injuring yourself. If the set has been dropped or the cabinet has been damaged, unplug the set and have it checked by a **DENON** service technician to restore the safeguards.



■ SERVICING

1. The servicing of set must not be attempted by yourself beyond that described in the operating instructions. In case of problems that cannot be settled by referring to your operating instructions, unplug the power cord and contact your **DENON** dealer. No user-serviceable parts are inside the set. Only qualified service technician can service inside your set.
2. Refer to the operating instructions for maintenance and cleaning.

IMPORTANT TO SAFETY

WARNING :

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

CAUTION :

1. Handle the power supply cord carefully

Do not damage or deform the power supply cord. If it is damaged or deformed, it may cause electric shock or malfunction when used. When removing from wall outlet, be sure to remove by holding the plug attachment and not by pulling the cord.

2. Do not open cover

In order to prevent electric shock, do not open the cover. If problems occur, contact your DENON dealer.

3. Do not put anything inside

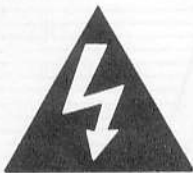
Do not put metal objects or spill liquid inside the record player. Electric shock or malfunction may result.

Model DP. - **23F** _____

Serial No. _____

Please, record and retain the Model name and serial number of your set shown on the rating label.

(UNDERWRITERS LABORATORIES INC. (UL) LISTED MODEL FOR USA ONLY.)



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK). NO USER SERVICE-
ABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.**



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.