# DENON

# FULLY AUTOMATIC DIRECT DRIVE TURNTABLE

# DP-37F

## OPERATING INSTRUCTIONS
## MODE D'EMPLOI
## BEDIENUNGSANLEITUNG

Read instructions before use and retain for future reference.

Afin d'utiliser, lisez ce mode d'emploi. Conservez-le de façon à pouvoir le consulter en cas d'ennui.

Lesen Sie diese Beriebsanleitung vor Inbetriebnahme. Bewahren Sie diese Anleitung auf.




FOR ENGLISH READERS PAGE 2 ~ PAGE 10
POUR LES LECTEURS FRANÇAIS PAGE 11 ~ PAGE 18
FÜR DEUTSCHE LESER SEITE 19 ~ SEITE 26

## IMPORTANT TO SAFETY

**WARNING:**

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

Model No. DP-37F Serial No. _____

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

### IMPORTANT

(BRITISH MODEL ONLY)

The wires in this mains lead are coloured in accordance with the following code:

| | |
|---|---|
| Blue: | Neutral |
| Brown: | Live |

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

### FOR YOUR SAFETY

(AUSTRALIAN MODEL ONLY)

To ensure safe operation, the three-pin plug supplied must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, contact a qualified electrician.

**Note:** Whenever the power switch is in the OFF-state, the apparatus is still connected on AC line voltage.

Please be sure to unplug the cord when you leave home for, say, a vacation.

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## FEATURES

1. **Microprocessor controlled, contactless servo tonearm**
   A unique microprocessor controlled, contactless servo tonearm ensures safe, easy to use automatic operation with no deterioration in sound quality.

2. **Q-damping method (Dynamic servo tracer)**
   Low frequency resonance caused by the cartridge compliance and the effective tonearm mass is electronically damped both horizontally and vertically to effectively suppress crosstalk and inter-modulation distortion. The dynamic servo tracer maximizes the performance of the low mass tonearm and results in a record reproduction of excellent sound image with minimum noise and distortion.

3. **Low mass straight arm**
   Having an outstanding tracing ability, this arm maximizes the performance of the high compliance cartridge to the full extent. Even with the most up-to-date high grade records, its tracing ability is excellent.

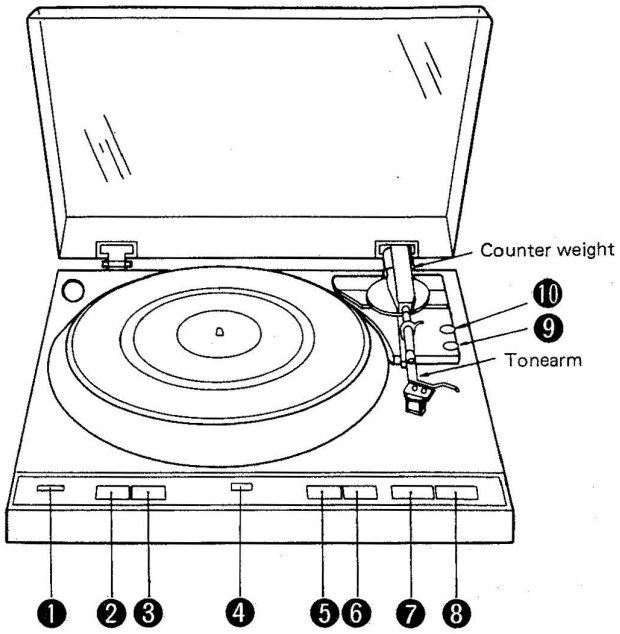
4. **DENON quartz on bi-directional servo**
   The ultimate in rotational accuracy is realized by the combination of a magnetic pulse detector and a quartz lock, with the addition of a bi-directional servo.

5. **Newly developed cartridge**
   The low mass MM type cartridge DL-65 with an elliptically shaped stylus minimizes tracing distortion and contributes to the clarity of the reproduced sound.

6. **Newly developed cartridge (European model only)**
   A high output MC cartridge with an output voltage comparable to MM cartridges.
   The DL-110 is a high output MC cartridge which can be connected directly to the MM position of the amplifier without step-up transformers or head amplifiers.

   **Note: U.S. & Canadian models do not include cartridge.**

## PARTS NOMENCLATURE AND FUNCTIONS




**1 Power switch POWER**

This turns the power supply on and off. Push the button down until it locks. When turning the power off, press the button until the lock is disengaged. Be sure to return the tonearm to the arm rest and hold it in with the clamp.

**2 Size button SIZE**

Before playing a record, press the button corresponding to its record size.
For 30 cm (12 inch) records, the (30) indicator will light.
For 17 cm (7 inch) records, the (17) indicator will light.

**3 Speed button SPEED**

Before playing a record, press the button corresponding to its record speed.
The (33) indicator will light for 33 1/3 rpm records.
The (45) indicator will light for 45 rpm records.

**4 Lock indicator LOCK**

The lock indicator will light when the turntable speed reaches the specified phase-lock state.

**5 Arm Lifter button UP LIFTER**

Press this button to raise or lower the tonearm during play, or when playing records manually. The "UP" indicator will light up.

**6 Repeat button REPEAT**

Press this button for playing the same record repeatedly: the "ON" indicator will light up.

**7 Start button START**

Press this button to start records automatically.

**8 Stop button STOP**

Press this button to stop a record during play.

**9 Tracking force adjustment knob TRACKING FORCE**

This is used to adjust the tracking force. (Refer to page 6)

**10 Q-damping adjustment knob Q-DAMPING**

Refer to page 6.

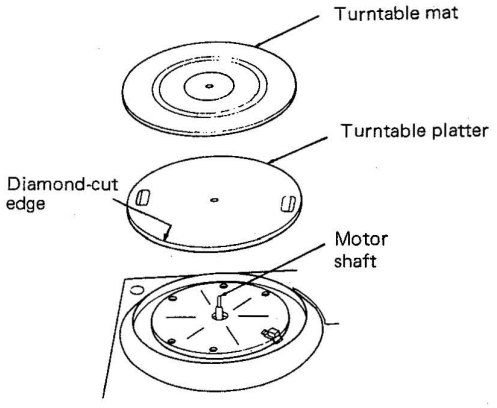
## HOW TO ASSEMBLE

1. **Remove the packing material**
   Remove the packing material (styrofoam) attached to both sides of the cabinet.

2. **Install the turntable platter and the turntable mat**
   Insert the turntable platter onto the motor shaft.

3. **Attaching counterweight**
   Push in the counterweight at the rear end of tonearm. While pushing the counterweight, turn it in the arrow direction. After attaching, make sure that it moves back and forth by turning it.

**Note:** Be careful not to scratch the magnetic coating on the inner surface of the turntable. Further, avoid touching the diamond-cut (shiny) edge of the turntable platter with hands, as this may cause corrosion of the surface.



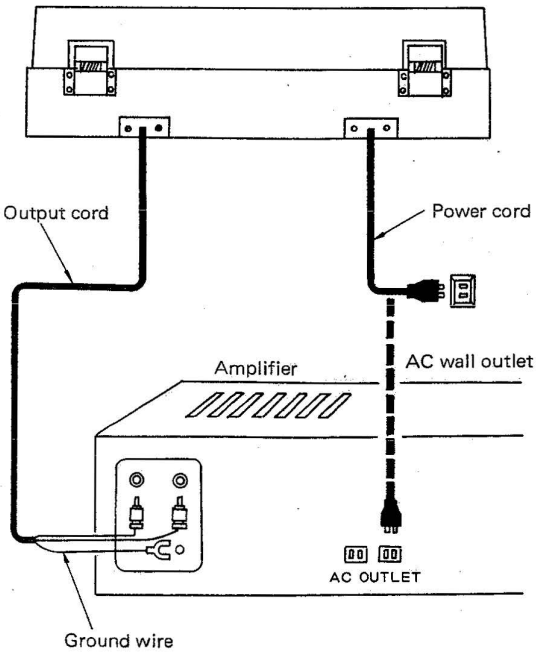

## HOW TO CONNECT

1. Connect the left (L) and the right (R) output wires to the respective "PHONO" input terminals of the amplifier to be used.
   Further, connect the ground wire (which is together with the output wires) to the "GND" terminal of the amplifier.

   **Note:** As the supplied DL-65 cartridge is of the MM (moving magnet) type, be sure to connect the output wires of the turntable to the "PHONO" input terminals for MM type cartridges.

   **U.S. & Canadian models do not include cartridge. See page 8 for mounting cartridge.**

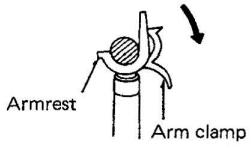
2. Connect the AC power plug to an AC wall outlet.



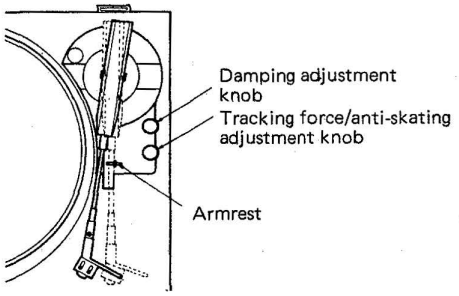
## ADJUSTING THE TRACKING FORCE AND ANTI-SKATING FORCE

### MAKE THE FOLLOWING ADJUSTMENT WITH THE POWER TURNED OFF.

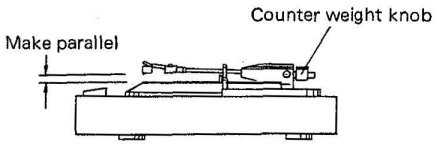
1. **Release the arm clamp**
   Hold the tonearm and lower the arm clamp in the direction of the arrow.

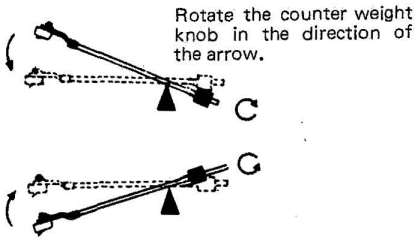



2. **Move the tonearm**
   Take the tonearm off the arm rest and move it to a position between the arm rest and the turntable.

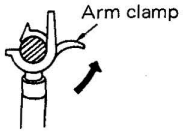



3. **Balance the tonearm horizontally**
   Rotate the counter weight knob until the tonearm remains balanced parallel to the turntable surface.

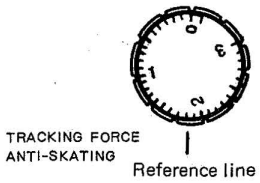



4. **Return the tonearm to the arm rest**
   Return the tonearm to the arm rest and hold it in place with the clamp.




5. **Adjust the tracking force and the anti-skating**
   Since the cartridge supplied with this turntable requires a stylus force of 1.8 g, rotate the stylus force knob and align the number 1.8 with the reference line. The anti-skating is automatically adjusted at the same time.



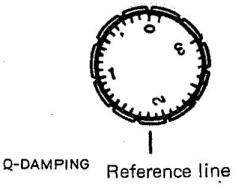

### WHEN ADJUSTING THE TRACKING FORCE AND THE ANTI-SKATING

When using a cartridge other than the one supplied with this turntable, apply the suitable stylus force for it after consulting the cartridge instruction manual. The anti-skating is automatically adjusted at the same time.

## ADJUSTING THE Q-DAMPING

Since the cartridge supplied with this turntable requires a Q-damping value of 1.8, rotate of 1.8, rotate the Q-damping knob and align the number 1.8 with the reference line.

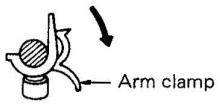
- Although the optimum Q-damping value varies according to the cartridge compliance, this turntable is so designed that the optimum amount of damping can be obtained by setting the knob to the same value as that for the tracking force.



## HOW TO PLAY

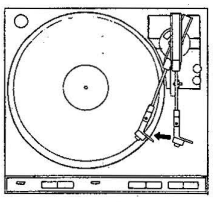
### BEFORE PLAYING

1. Turn the power supply of the amplifier on, and set the selector switch/knob to "PHONO".
2. Place a record on the turntable and raise the stylus cover.
3. Turn the turntable power supply on, and press the speed selector button corresponding to the record speed.
   33 1/3 rpm records . . . . . .
   the (33) indicator will light.
   45 rpm records . . . . . .
   the (45) indicator will light.
4. Release the arm clamp.

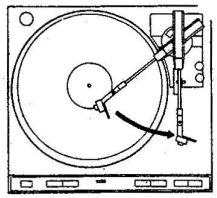


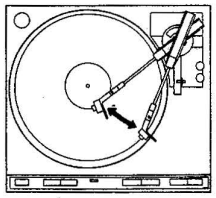

### FOR AUTOMATIC PLAY

1. Press the record size button corresponding to the record size.
   30 cm (12 inch) records . . . . . .
   the (30) indicator will light.
   17 cm (7 inch) records . . . . . .
   the (17) indicator will light.
2. Press the arm lifter button and lower the arm (after varifying that the "UP" indicator is not lit).
3. Press the start button.
   The tonearm will move over to the record and play will begin.



4. When the play finishes, the tonearm will return to the arm rest and the turntable will stop. (When the repeat switch is off). When the repeat switch is on ("ON" is lit), the record will be played again.


Repeat: OFF


Repeat: ON

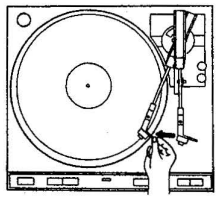
### FOR MANUAL PLAY

- When playing records from the middle
- When playing non-standard size records

It is possible to play the records by the following 2 methods:

**1st method:**

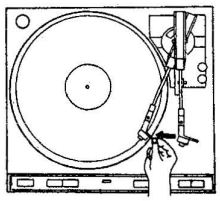
1. Press the speed selector button corresponding to the record speed.
2. Set the arm lifter button to "UP" ("UP" will be lit).
3. Manually move the tonearm to the desired position above the record.



4. The turntable will start to rotate.
5. By pressing the arm lifter button, the tonearm is lowered and play will begin.
6. When play finishes, the tonearm will return automatically as in the automatic play mode.

**2nd method:**

1. Press the speed selector button corresponding to the record speed.
2. Manually move the tonearm towards the record and the turntable will start to rotate.

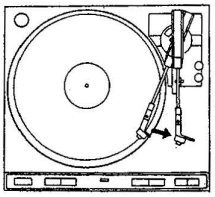


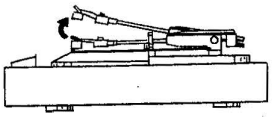
3. Set the stylus down on the record at the desired position and play will begin.
4. When play finishes, the tonearm will return to the arm rest and the turntable will stop.

## REPEATED PLAY

Press the repeat button ("ON" indicator will light). The same record will be played repeatedly until the repeat is cancelled. To cancel the repeat, press the repeat button once more.

- **When stopping during play**
  1. Press the stop button
     The tonearm will return to the arm rest and the turntable will stop.
  2. Or, press the arm lifter button to the "UP" position. The tonearm will rise at the position, while the turntable will keep rotating.



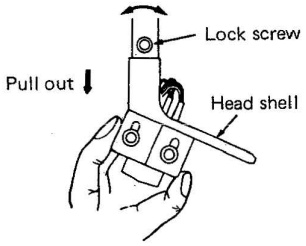


## REPLACEMENT OF PARTS AND READJUSTMENTS

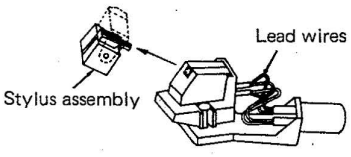
**Stylus replacement (Asian model only)**

The stylus tip life of the attached cartridge is approximately 500 hours. Earlier replacement of the stylus is recommended, as a worn stylus tip may cause distorted sounds and damage to the records.

- Be sure to ask for "DENON DSN-65" when purchasing a replacement stylus. There will be no guarantee on the performance and against malfunctions if a different stylus is used.
- **How to replace**
  1. Loosen the lock screw on the foremost end of the tonearm, and pull the head shell out in the direction of the arrow.
  2. Hold the stylus assembly and gently pull it out diagonally.
  3. Insert a new stylus assembly by pushing it in in as far as it will go.



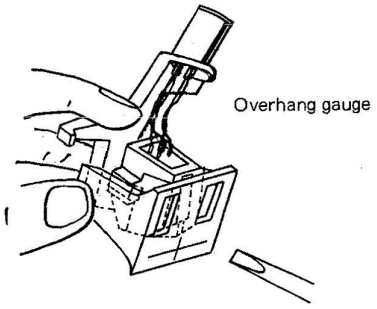

Replacement stylus DSN-65



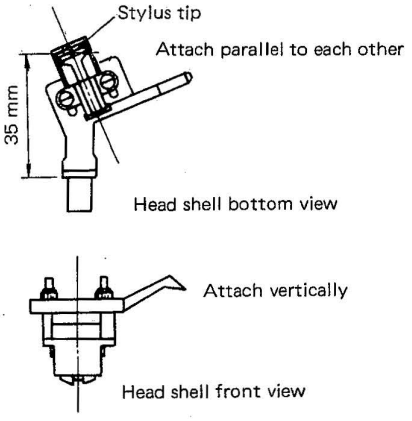

**Cartridge replacement**

A different cartridge with a weight between 4 and 9 g (including screws and nuts) can be attached to the head shell of this turntable unit. (When purchasing only the head shell, ask for the "DENON PCL-30BK".)

- The color designation of the lead wires is as follows. Be careful not to make any errors.
  Red . . . . . right channel (R)
  White . . . . . left channel (L)
  Green . . . . . right channel ground (RG)
  Blue . . . . . left channel ground (LG)
- 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.




**Note:** When the cartridge has been replaced, be sure to readjust the horizontal balance, stylus force and Q-damping.




- **How to raise the stylus cover**
  (For attached cartridge DL-65 or DL-110)
- To protect the stylus tip, lower the stylus cover after use.




Before playing, raise the stylus cover in the direction of the arrow.

## SPECIFICATIONS

### MOTOR

| | |
|---|---|
| **Drive System:** | Servo controlled direct dirve |
| **Turntable Speeds:** | 33-1/3, 45 rpm |
| **Wow & Flutter:** | Below 0.012% wrms (servo system)<br>Below 0.020% (JIS) |
| **S/N Ratio:** | Over 78 dB (DIN-B) |
| **Rise Time:** | Nominal speed within 2 seconds (at 33-1/3 rpm) |
| **Turntable 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 0.01% |
| **Load characteristics:** | 0% (80 g tracking force; outermost groove) |

### GENERAL

| | |
|---|---|
| **Power Supply:** | 50/60 Hz, Voltage is shown on rating label |
| **Power Consumption:** | Approx. 8 W |
| **Dimensions:** | 434 x 145 x 410 mm (W x H x D)<br>17 x 5.7 x 16.1 in |
| **Weight:** | Approximately 7 kg (15 lb) |

### 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) |

| **CARTRIDGE** | **DL-65** | **DL-110 (European model only)** |
|---|---|---|
| **Output Voltage:** | 2.5 mV | 1.6 mV |
| **Frequency Response:** | 20 Hz ~ 30 kHz | 20 Hz ~ 45 kHz |
| **Tracking Force:** | 1.8 ± 0.3 g. MM type | 1.8 ± 0.3 g, MC type |

**U.S. and Canadian models do not include cartridge.**

* For product improvement purposes, the specifications are subject to change without notice.

## TROUBLESHOOTING GUIDE

**When trouble arises, check the following items before you consider any problem as a malfunction.**

**Turntable does not operate when start button is pressed.**

**The tonearm does not move:**

- Is the power switched on?
- Is the arm clamp released? . . . . . Refer to page 6

**The stylus does not lower onto the record:**

- Is a stylus force being applied? . . . . . Refer to page 6

**The stylus does not lower on the desired position:**

- Is the cartridge properly installed on the head shell? . . . . . Refer to page 8
- Is the turntable unit placed horizontally?

**No sound**

- Are the cartridge and the tonearm connected properly? . . . . . Refer to page 8
- Are the output wires properly connected to the amplifier? . . . . . Refer to page 5
- Are the amplifier knobs/switches properly set for record reproduction?

**Hum noise is audible:**

- Is the ground wire of the output wires connected to the amplifier? . . . . . Refer to page 5
- Are the output wires properly connected?
- Is the head shell secured properly with the lock screw? . . . . . Refer to page 8

**The stylus skips/Jumps**

- Is the stylus force applied properly? . . . . . Refer to page 6
- Is the record warped or scratched?
- Is there any large amount of dust on the stylus?

**The arm stops moving forward during play:**

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

**Sound is too weak/strong:**

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

**Noise is picked up by the tuner:**

- Should the tuner pick up noise while the turntable unit is in operation, move the tuner away from the turntable, or relocate the tuner antenna.

**The tonearm moves up and down when power is switched on:**

- The up and down movement of the tonearm when the power is switched on/off is not a defect.