

DENON DP-2700

DENON DP-2700 Direct Drive Player System
Instruction Manual

INTRODUCTION

The DENON DP-2700 is a high-performance direct drive player system designed with a focus on both excellent basic performance and robust operability and durability. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your DP-2700 to ensure optimal performance and longevity.

The direct drive method is employed, where the turntable is directly connected to the motor shaft, eliminating the need for reduction mechanisms like belts or idlers. This design contributes to smoother rotation and reduced vibration.

The servo circuit utilizes DENON's unique high-precision magnetic recording method for speed detection, ensuring highly accurate speed control and excellent wow and flutter characteristics. This system maintains stable rotation speed even under varying load conditions and is unaffected by power fluctuations or temperature changes.

PRODUCT OVERVIEW



Front view of the DENON DP-2700 Direct Drive Player System. It features a white main body with a black platter and a wooden arm board on the right side. Control buttons are located on the front left.



Close-up of the product specification label for the DENON DP-2700, showing model number, serial number, brand, voltage (100V), power consumption (12W), and frequency (50/60Hz).



Cover of the official DENON DP-2700 Servo-Controlled Direct Drive Player instruction manual, featuring an illustration of the turntable.

SETUP

Unpacking and Placement

- Carefully remove all components from the packaging. Retain packaging for future transport or storage.
- Place the DP-2700 on a stable, level surface, away from direct sunlight, heat sources, and excessive vibration.
- Ensure adequate ventilation around the unit.

Assembly

1. Attach the turntable platter to the motor shaft. The direct drive system ensures a direct connection without belts.
2. Mount your preferred cartridge onto the headshell. The tonearm is designed for light stylus pressure cartridges.
3. Connect the tonearm output cable to your amplifier's phono input. The unit uses a special low-capacitance output cord.
4. Connect the power cord to an AC 100V, 50Hz/60Hz power outlet.

Tonearm Adjustment

- **Stylus Pressure Adjustment:** Use the micrometer-type direct reading system to set the stylus pressure between 0-3g (0.5g increments). Refer to your cartridge's specifications for the recommended tracking force.
- **Arm Height Adjustment:** The arm height can be adjusted from 40mm to 50mm to accommodate different cartridges and ensure proper VTA (Vertical Tracking Angle).
- **Anti-Skating:** This model does not feature an inside force canceller, based on DENON's professional use experience.

OPERATING INSTRUCTIONS

Basic Operation

1. Place a record on the 5mm thick rubber mat, which is anti-static treated for easy handling.
2. Select the desired rotation speed (33 1/3 or 45 rpm) using the speed selector switch.
3. Adjust the rotation speed fine-tuning if necessary ($\pm 3\%$ for each speed, independently adjustable).
4. Gently lift the tonearm using the oil-damped arm lifter.
5. Position the tonearm over the desired groove on the record.
6. Lower the tonearm slowly using the arm lifter.
7. At the end of the record, lift the tonearm and return it to its rest.

Speed Control

The DP-2700 employs a voltage servo system based on frequency detection for precise speed control. This ensures stable playback even with variations in stylus pressure or other load conditions. The built-in DC stabilized power supply and temperature compensation further enhance speed stability, making it immune to power frequency, voltage fluctuations, or temperature changes.

MAINTENANCE

- **Cleaning:** Regularly wipe the unit with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth and then dry thoroughly. Avoid abrasive cleaners or solvents.
- **Dust Cover:** Keep the dust cover closed when not in use to protect the turntable from dust and debris.
- **Stylus Care:** Clean your stylus regularly with a soft brush designed for stylus cleaning.
- **Rubber Mat:** The 5mm thick rubber mat has an anti-static treatment. Clean it periodically with a damp cloth if necessary.
- **Bearing Maintenance:** The tonearm's rotation bearing sections are designed for high sensitivity and reliability, similar to broadcast station arms. They are protected by miniature bearings and special elastic materials, requiring minimal user maintenance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No power	Power cord not connected; Power outlet issue	Ensure power cord is securely plugged in; Test power outlet with another device
No sound	Amplifier not on; Incorrect input selected on amplifier; Cartridge/stylus issue; Cables not connected properly	Turn on amplifier; Select correct phono input; Check cartridge/stylus for damage; Verify all audio cables are securely connected
Incorrect playback speed	Wrong speed selected; Fine-tuning adjustment needed	Select correct 33 1/3 or 45 rpm; Use the fine-tuning control to adjust speed
Wow and Flutter (speed fluctuations)	Rare, but could indicate a fault	The DP-2700 is designed for excellent wow and flutter characteristics. If persistent, contact service.
Excessive vibration/noise	Unstable surface; External interference	Ensure unit is on a stable, level surface; Check for nearby sources of vibration or electromagnetic interference. The unit has excellent vibration damping.

SPECIFICATIONS

Feature	Specification
Model Type	Direct Drive Player System (Phono Motor Section)
Drive Method	Direct Drive
Motor	Solid Rotor Type AC Torque Motor
Speed Control	Voltage Servo System by Frequency Detection
Rotation Speeds	33 1/3, 45 rpm
Speed Fine Adjustment Range	±3% (independent adjustment for each speed)
Wow and Flutter	Less than 0.03% wrms (by test record)
S/N Ratio	More than 60dB
Start-up Characteristics	Less than 1/2 rotation (1.8 seconds) at 33 1/3 rpm
Turntable	30cm Aluminum Die-cast, 1.1kg
Inertial Mass	160kg·cm ²
Tonearm Type	Static Balance S-shaped Arm
Effective Length	244mm
Overhang	14mm
Offset Angle	Within 20.5°
Tracking Error	Within ±2°

Feature	Specification
Stylus Pressure Adjustment Range	0-3g (0.5g per graduation)
Compatible Cartridge Weight Range	4g-17g
Headshell Weight	8.5g
Arm Height Adjustment Range	40mm-50mm
Head Connector	EIA Standard 4P Connector
Arm Lifter	Oil Damped Type
Turntable Frame	Aluminum Alloy Die-cast
Arm Board	Wooden Walnut Finish (53mm thick)
Power Supply	AC 100V, 50Hz/60Hz
Power Consumption	12W
External Dimensions (W×H×D)	510×175×430mm
Weight	12kg

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