Power Amplifier, Integrated Amplifier

POA-1003 Power Amplifier

POA-1003 was introduced to do away with unnecessary decoration with the sole object of listening to music. Simple in design, with no distortion, it offers quick responding transparent sound by providing circuitry for DC amplifiers. Left and right completely monaural constitution. Either side is provided with an excessive power circuit, highly accurate peak meter allowing ultra wide, and low distortion. • DC power amplifier with features of cascade coupling at the first stage low noise FET differential amplifier, a stage of current mirror differential amplifier with emitter follower predriver, bipolar type power transistor of a class with a collector loss of 100 W in a novel circuitry of pure complementary ICL OCL, producing a wide band, low distortion, and high S/N ratio. • A stable DC drift of 1.6 mV/°C. • Exceptional damping factor of 200. • Highly stabilized constant voltage circuitry use in the first stage power section, oversized capacitor 88,000 µF, left and right independent transformer.

**SPECIFICATION**

- **Type:** Single transistor, DC power amplifier
- **Rated output (Both channel driven):** 20 Hz – 20 kHz (0.01%)
- **20 Hz – 20 kHz (0.05%):** 100 W rms at each channel
- **T.H.D. (at rated output):** 20 Hz – 1 kHz, 0.005%, 20 kHz 0.03%
- **Intermodulation distortion:** 20 Hz – 4 kHz, 4 kHz: 0.03%
- **Power bandwidth:** 3 Hz – 70 Hz
- **Frequency response:** DC 0 Hz – 2 kHz, – 1 dB
- **Input sensitivity/impedance:** 1 V /5kΩ
- **Output impedance/damping factor:** 110 (B 1) (0)
- **S/N ratio:** 110 dB
- **Low filter:** 20 Hz (0 dB, opt)
- **Power supply and power consumption:** AC 220/115V, 250 W
- **Power supply:** AC 220/240 V, 50/60 Hz
- **Dimensions:** 410 (W) × 200 (H) × 280 (D) mm
- **Weight:** 18 kg

POA-1001 Power Amplifier

Usually, for large output power amplifiers, a large number of power transistors are used in parallel, making it difficult to bring out its characteristics. POA-1001, for the first time, was able to realize 100 W + 100 W by a single push-pull, proving that good sound reproduction is an absolute condition.

• To the last stage transistor, which constitutes a decisive factor in the performance of a power amplifier, a newly developed bipolar power transistor with a collector loss of 150 W was used after making every possible improvement in the switching characteristics. • Balance drive system by 2-stage differential amplifier current mirror circuit. • Independent left and right power transformers, rectified circuitry, completely monaural constitution. • Oversized capacitor 88,000 µF. • Oversized heat sink.

**SPECIFICATION**

- **Type:** Single transistor, DC power amplifier
- **Rated output (Both channel driven):** 20 Hz – 20 kHz (0.01%)
- **20 Hz – 20 kHz (0.05%):** 125 W rms at each channel
- **T.H.D. (at rated output):** 20 Hz – 20 kHz, 0.005%
- **Intermodulation distortion:** 20 Hz – 4 kHz, 4 kHz: 0.03%
- **Power bandwidth:** 3 Hz – 70 Hz
- **Frequency response:** DC 0 Hz – 2 kHz, – 1 dB
- **Input sensitivity/impedance:** 1 V /5kΩ
- **Output impedance/damping factor:** 110 dB
- **S/N ratio:** 110 dB
- **Low filter:** 10 Hz (18 dB, opt)
- **Power supply and power consumption:** AC 120/240 V, 50/60 Hz
- **Power supply:** AC 220/240 V, 50/60 Hz
- **Dimensions:** 410 (W) × 200 (H) × 280 (D) mm
- **Weight:** 22 kg

PMA-850 Integrated Amplifier

A new series of DENON amplifiers, incorporating a wide dynamic range, low noise MC amplifier. It reaches the highest class in the most fundamental characteristic of amplifiers both in distortion factor and S/N separation. By coupling all stages with a pure complementary circuit from MC amplifier to power amplifier using both PNP, NPN transistors, an ultra low distortion rate of 85 W + 85 W was achieved. • An DC power amplifier placing importance on a quick build-up characteristic by incorporating, a new amplifying element. Distortion factor less than 0.01% (20 Hz – 20 kHz). • Toroidal core power transformer which has an independent coil for left and right channels for exceptional regulation. • Employment of an ultra low noise transistor permits a high S/N ratio, head amplifier for MC type cartridge (74 dB IHF-A), and equalizer amplifier (88 dB IHF-A). Provided with direct couple switch for direct connection of equalizer amplifier and power amplifier. • A unique design of two tone color, imparting a sense of high class structural grace.

**SPECIFICATION**

- **Type:** All stage pure complementary pushpull system
- **Rated output (Both channel driven):** 110 W rms at each channel
- **Harmonic distortion (at rated output):** 20 Hz – 20 kHz
- **Intermodulation distortion:** Less than 0.01%
- **Power bandwidth:** 5 Hz – 100 kHz
- **Frequency response:** 5 Hz – 100 kHz
- **Input sensitivity/impedance:** 1 V rms/50 kΩ ± 10%
- **Output Impedance:** Less than 0.01Ω
- **Signal to noise ratio IHF-A. At a network of input terminal absorbed:** 122 dB
- **Pre amplifier section:** 1 V rms/50 kΩ
- **Input sensitivity/impedance:** 2.5 W rms/50 kΩ
- **Maximum allowable input PHONO:** 200 mV rms ± 1 kΩ
- **Turn control/ frequency response:** Bass: 100 Hz ± 9 dB, Treble: 10 kHz ± 9 dB
- **Power source:** AC 110/220 V, AC 220/240 V 50/60 Hz
- **Dimensions, Weight:** 434 (W) × 194 (H) × 400 (D) mm, 17 kg
PMA-701 Integrated Amplifier
The 3 power transformer system and power amplifier section which have raised the dynamic and static characteristics to a high level. By employing a can type power transformer, the improvement in the distortion of high frequency waves has been extended to an exceptionally wide range.

- PCC installation
- Direct coupled phono input
- Improved function with function switch exclusively for recording
- Continuous variable 2 dB ± 5 stage tone circuit with defeat switch
- LOW, HIGH filter
- Pure complementary direct coupled differential amplifier two power supply type OCL power circuitry

A new series of DENON amplifiers. A 3 power supply transformer employed to obtain a low distortion factor, high S/N, and high separation.

PMA-501 Integrated Amplifier
Direct coupled phono input.

The section of the cartridge terminal and equalizer amplifier is directly coupled in a single body. Since there is no shield wire to circumvent the function switch, there is no degradation of the high frequency area characteristics bringing about the cartridge characteristics in the original form.

- Incorporates a PCC installation
- Direct coupled phono input
- Equipped with a function switch exclusively for recording
- 2 power supply transformer
- Pure complementary, direct coupled at stages, differential amplifier 2 power supply OCL power circuitry. Continuous variable 2 dB ± 5 stage tone circuit with defeat switch
- Designed for a high S/N, ultra low distortion function.

PCC-1000 P.C.C Unit
A World of 40 dB which DENON has Developed

The stereo separation of phono cartridges is only about 25 to 30 dB (1 kHz).

No matter how superior an amplifier may have been, it was not possible to avoid the 25 to 30 dB crosstalk when a record was reproduced. The PCC, which DENON alone can offer, has been able to take the lead in music records by a separation of 40 dB. A new world of 40 dB never before experienced. When used with a separate amplifier or preamplifier you possess, it will reduce the cartridge crosstalk by about - 40 dB, the sound image localization becomes clear, and it further reduces the sense of distortion.

SPECSIFICATION

- Type: Alacron transistor stereo pre-main amplifier
- Power amplifier section
  - Rated output (Both channels driven) 20 Hz to 20 kHz (THD 0.06%, 4 Ohm): 88 W rms at each channel
  - 20 Hz to 20 kHz (THD 0.06%, 8 Ohm): 70 W rms at each channel
  - Harmonic distortion (at rated output, 20 Hz to 20 kHz): Less than 0.05%
  - Intermodulation distortion: 60 Hz to kHz 6.1 (at rated output): Less than 0.05%
  - Power bandwidth (Both channels driven, 8 Ohm): 5 Hz to 50 kHz
  - Frequency response: 5 Hz to 100 kHz
  - Input sensitivity/impedance: 0.5 W output, 1 dB: 1 W at 50 Ohm
  - Output impedance: 0.1 W at 50 Ohm
  - Signal to noise ratio (IHF A network) at input terminal biased: 104 dB
  - Pre amplifier section
    - Rated output/impedance: 0.1 W at 50 Ohm
    - Input sensitivity/impedance: Phone: 2.5 mV/m 1 kHz
    - Maximum allowable input PHONO (1 kHz): 230 mV rms
    - Signal to noise ratio (IHF A network) at input terminal biased: Better than 80 dB
    - Phone: 10 kOhm 10 kHz
  - Power source and power consumption:
    - AC 120/240 V 50 Hz, 450 W (max., output power)
    - AC 100/200 V 60 Hz, 350 VA
    - (at 1/3 output power)
  - Dimensions, weight:
    - 430(W) x 105(H) x 260(D) mm, 13.5 kg

SPECIFICATION

- Type: Alacron transistor stereo pre-main amplifier
- Power amplifier section
  - Rated output (Both channels driven) 20 Hz to 20 kHz (THD 0.06%, 4 Ohm): 88 W rms at each channel
  - 20 Hz to 20 kHz (THD 0.06%, 8 Ohm): 70 W rms at each channel
  - Harmonic distortion (at rated output, 20 Hz to 20 kHz): Less than 0.05%
  - Intermodulation distortion: 60 Hz to kHz 6.1 (at rated output): Less than 0.05%
  - Power bandwidth (Both channels driven, 8 Ohm): 5 Hz to 50 kHz
  - Frequency response: 5 Hz to 100 kHz
  - Input sensitivity/impedance: 0.5 W output, 1 dB: 1 W at 50 Ohm
  - Output impedance: 0.1 W at 50 Ohm
  - Signal to noise ratio (IHF A network) at input terminal biased: 104 dB
  - Pre amplifier section
    - Rated output/impedance: 0.1 W at 50 Ohm
    - Input sensitivity/impedance: Phone: 2.5 mV/m 50 kHz
    - Maximum allowable input PHONO (1 kHz): 230 mV rms
    - Signal to noise ratio (IHF A network) at input terminal biased: Better than 80 dB
    - Phone: 10 kOhm 10 kHz
  - Power source and power consumption:
    - AC 120/240 V 50 Hz, 350 W (max., output power)
    - AC 100/200 V 60 Hz, 350 VA
    - (at 1/3 output power)
  - Dimensions, weight:
    - 430(W) x 147(H) x 321(D) mm, 13.5 kg

The stereo separation of phono cartridges is only about 25 to 30 dB (1 kHz).

No matter how superior an amplifier may have been, it was not possible to avoid the 25 to 30 dB crosstalk when a record was reproduced. The PCC, which DENON alone can offer, has been able to take the lead in music records by a separation of 40 dB. A new world of 40 dB never before experienced. When used with a separate amplifier or preamplifier you possess, it will reduce the cartridge crosstalk by about - 40 dB, the sound image localization becomes clear, and it further reduces the sense of distortion.

Connection should be made to the equalizer amplifier output terminal or either preamplifier or premain amplifier, or between the TAPE-REC output terminal and TAPE-PA input terminal. The TAPE terminal of the amplifier can be used safely for this model because this model incorporates its own terminal and tape monitor SW enabling a tape recording of sound, cancelling phone crosstalk.

Specification

- Gain: 0 ± 0.2 dB
- Output level: 150 mVrms
- Load impedance: 50k Ohm (4 kHz)
- Frequency response: 20 Hz ~ 20 kHz
- S/N ratio: Total harmonic distortion: 60 Hz to kHz 6.1 (at rated output) 0.1 W at 50 Ohm 0.1 W at 10 kHz
- Power consumption: 6 W
- Dimensions: 414(W) x 81(H) x 190(D) mm
- Weight: 3.1 kg
Control Amplifier, FM Tuner

**PRA-1003 Control Amplifier**

PRA-1003 was introduced as a control amplifier for the new era, bringing into full play the operation factors of a tape deck which has come to assume an important position as the program source. By introducing new circuitry, it incorporates a high S/N ratio equalizer amplifier, low distortion, and wide range flat amplifier.

- **Input capacitorless (ICL)**.
- **Low noise FET parallel differential amplifier circuitry in the first stage, current mirror differential preamplifier**.
- **Preamplifier on one channel, high S/N 86 dB, and equalizer amplifier**.
- **PHONO** is provided with an impedance change-over switch which will bring out the full performance of the cartridge. Input terminals are all gold plated.
- **Simultaneous recording of 3 tape decks & tape copy possible. REC FUNCTION to meet the era of real recording.**

**SPECIFICATION**

- **Type**: All-silicon transistor stereo control amplifier
- **Input sensitivity/input impedance**: PHONO 1.25 mV/50 kΩ
- **Max. allowable input**: PHONO 2.5 mV/30, 50, 100 kΩ
- **Max. allowable input**: 320 mV (1 kHz)
- **RIAA deviation**: ± 0.2 dB 120 Hz - 20 kHz
- **Max. output/total output**: 0.003% 20 Hz - 20 kHz, 3 V
- **Frequency response**: PHA A network better than 86 dB
- **Gain control**: 0.003% 20 Hz - 20 kHz
- **Filter**: 0 - 20 kHz (6 dB/cut)
- **Corner frequency**: High 8 kHz (6 dB/cut)
- **Power supply and power consumption**: AC 120 V 60 Hz 350/450 V 50/60 Hz, 10 W
- **Dimensions**: 410 x 170 x 325 (H x W x D) mm
- **Weight**: 7 kg

**PRA-1001 Control Amplifier**

Pursuing the fundamentals of control amplifiers, this product is a result of looking into their functions, performance, design, and other related problems. All the functions are incorporated.

- **A 7 transistor equalizer amplifier with 2-stage differential amplifier, current mirror circuit, last stage Class A pure complementary push-pull coupling**.
- **Low distortion tone control circuit of the NF type by means of passing through a complementary push-pull buffer with differential and inverted amplifier circuits**.
- **Unique low distortion filter circuit capable of changing the cut-off frequency by change-over to an independent filter amplifier**.
- **Distinct localization of the sound image with separation characteristics of 80 dB (20 Hz to 20 kHz).**

**SPECIFICATION**

- **Type**: All-silicon transistor stereo control amplifier
- **Input sensitivity/input impedance**: PHONO 1.25 mV/50 kΩ
- **Max. allowable input**: PHONO 2.5 mV/30, 50, 100 kΩ
- **Max. allowable input**: 300 mV (1 kHz)
- **RIAA deviation**: ± 0.2 dB 120 Hz - 20 kHz
- **Max. output/total output**: 10 V/1 V
- **Frequency response**: 10 Hz - 100 kHz - 0.1 dB, - 1.5 dB
- **Gain control**: 0 - 20 dB
- **Filter**: 10 Hz & 40 Hz (18 dB/oct) 7 kHz & 14 kHz (18 dB/oct)
- **Crosstalk**: - 88 dB (1 kHz, + 20 kHz, PHONO IN - output, defea)
- **Power supply and power consumption**: AC 230 V 50 Hz, 220/240 V 50/60 Hz, 18 W
- **Dimensions**: 410 (W) x 152 (H) x 275 (D) mm
- **Weight**: 8 kg

**TU-950 FM Tuner**

5 gang variable capacitor, a complete front end incorporating MOS FET.

- **Low distortion, high selectivity 3 system IF Section**.
- **PLL IC stereo demodulation circuit**.
- **Unique design and high precision tuning system**.
- **Incorporates a recording level check**.
- **Equipped 2 large size multifunctioning level meters capable of measuring amplifier output.**

**SPECIFICATION**

- **Tuning frequency**: 88 to 108 MHz
- **Usable sensitivity (S/N)**: 1.7 V (8 dB)
- **Effective selectivity**: 65 dB
- **Signal to noise ratio**: 94 dB
- **Total harmonic distortion**: N50 0.05% STEREO 0.03%
- **Capture ratio**: 0.3 dB
- **AM suppression**: 65 dB
- **Image rejection**: 120 dB
- **IF rejection**: 110 dB
- **Exposure**: 90 dB (1 kHz)
- **Level meters**: 0.1 dB (Enc. A, - 10 - 30 dB) kHz
- **Frequency response**: 20 Hz - 15 kHz, ± 0.2 dB - 1 dB
- **Power source, power consumption**: AC 200 V 60 Hz, 12 W
- **Dimensions**: 434 x 164 (H) x 400 (D) mm
- **Weight**: 8.9 kg
**FM, AM/FM Tuner, Speaker**

**TU-701 FM Tuner**
High S/N 82 dB attained. Designed to match PMA-701/501 as a sole FM model. Rotating drum type long scale precision tuning system. Incorporates a large size multi-function meter which can measure amplifier output. Variable output VR in front. 5 gang variable capacitor MOS FET incorporated. Differential amplifier equipped 2 system IF section construction.

**TU-501 AM/FM Tuner**
Elegant design for suitable combination with PMA-501, PMA-701. Fixed pointer, rotating drum type long scale precision tuning system. Incorporates 2 large size multi-functioning level meters capable of measuring amplifier output. IF interference elimination ratio in the AM section is considerably upgraded (40 dB). Equipped with a test signal oscillator.

**SC-107 Speaker**
Large size enclosure, carefully selected materials. 25 cm woofer, core tweeter, each parallel driven, allowing a dynamic range and increasing the straight line characteristic.

**SC-104 Speaker**
A bookshelf speaker system completely shield type as a result of constant search for the highest degree in transient characteristics, dynamic characteristics and high efficiency.

**SPECIFICATION**

**FM SECTION**
- Tuning frequency: 88 to 108 MHz
- Usable sensitivity (HF): 1.7 μV (9.3 dB)
- Effective selectivity: 85 dB
- Signal to noise ratio: 82 dB
- Total harmonic distortion: MONO 0.1% STEREO 0.15%
- Capture ratio: 1.0 dB
- AM suppression: 60 dB
- Image rejection: 110 dB
- IF rejection: 110 dB
- Separation: 50 dB (1 kHz)
- Level meters: Indication error: ± 0.2 dB (From AMP +10 dB to -10 dB) at 1 kHz
- Frequency response: 20 Hz to 15 kHz ±0.5 dB
- Power source, power consumption: AC 220/240 V 50Hz, 11 W
- Dimensions: 430(W) × 146(H) × 303(D) mm
- Weight: 7 kg

**AM SECTION**
- Tuning frequency: 525 to 1600 kHz
- Usable sensitivity: 700 μV
- Image rejection: 55 dB
- Signal to noise ratio: 55 dB
- Level meters: Indication error: ± 0.2 dB (From AMP +10 dB to -10 dB) at 1 kHz
- Power source, power consumption: AC 220/240 V 50Hz, 10 W
- Dimensions: 430(W) × 146(H) × 303(D) mm
- Weight: 6.8 kg

**SPECIFICATION**

**SC-107**
- Type: 3-way speaker system
- Speaker: Woofer 25 cm cone type × 2
- Middle range 10 cm cone type
- Tweeter: 3.2 cm dome type
- Maximum input power: 80 W (program source)
- Frequency range: 40 Hz - 20,000 Hz
- Impedance: 8 Ω
- Sensitivity: 92 dB (1 mW/W)
- Crossover frequency: 90 Hz, 4 kHz
- T.H.D.: Less than 1.5% (5 W)
- Level control: Variable attenuator
- Dimensions: 305(W) × 700(H) × 347(D) mm
- Weight: 23 kg

**SC-104**
- Type: 3-way speaker system
- Speaker: Woofer 25 cm cone type
- Middle range 10 cm cone type
- Tweeter: 3.2 cm dome type
- Maximum input power: 80 W (program source)
- Frequency range: 50 Hz - 20 kHz
- Impedance: 8 Ω
- Sensitivity: 92 dB (1 mW/W)
- Crossover frequency: 90 Hz, 4 kHz
- T.H.D.: Less than 1.5% (5 W)
- Level control: Variable attenuator
- Dimensions: 305(W) × 590(H) × 296(D) mm
- Weight: 13.8 kg
Wow and Flutter below 0.015%
A system of high precision magnetic speed detection servo mechanism and DENON Quartz.

- High reliability ensured by features similar to those employed in professional equipment.

DP-series incorporates the direct drive servo turntable, which boasts excellent rotational performance. DENON's original high-precision, magnetic recording detection system is employed to control the speed of the turntable. Precision on the internal periphery of the turntable, converting the pulse into voltage corresponding to its frequency. By comparing this voltage with the standard value, the system controls the voltage applied to the motor. The number of pulses is 1,000 and error or the distance between adjacent pulses is held within ±10/100. Thus, highly accurate speed detection and quick response servo control are achieved, while wow and flutter are reduced to 0.015% or less. The rotational speed remains stable even if load conditions change due to alteration of stylus pressure and the like.

- Solid-rotor-type AC servo motor with smooth rotation.

The AC servo motor features smoother rotation, with less vibration, than other types of motors such as synchronous and DC motors. Driven by alternate current whose wave form is accurately regulated, the AC servo motor produces almost no ripple, boasting an S/N ratio of 77 dB or better. (DP-5000)

DENON is proud to offer each player to audio enthusiasts and music lovers as the crystallization of its long experience in serving the audio equipment to broadcasting stations. You will find a truth on DENON turntables.

Wow and Flutter is only 0.015%: *Better than a test record!*

In a conventional way of measuring wow and flutter, a test record with a measurement signal recorded on it has been used. This method can be said adequate in two cases: One is, when the test record or test signal is absolutely free from wow and flutter. The other is, when a record player under test has comparatively more wow and flutter than those involved in a test record. Until recently, it's been granted that wow and flutter involved in a test record is small enough and negligible for the measurement.

But, on the way of developing better record players, DENON wondered why this wow and flutter value would not go beyond a certain limit. Finally, we had to discuss about a point where we'd wanted to be very accurate... the test record!

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**DP-6000 Direct Drive Turntable with Quartz Control**

The features of speed detection applied to magnetic recording, a phase lock control which coordinates the high precision quartz oscillation with the phase, making it a high class turntable which has very little fluctuation and speed deviation under any environmental conditions. Newly developed turntable mat as a result of studying the vibration analysis with laser beams. Stroboscope for easy and accurate sighting, lighted by quartz synchronized pulse. Newly developed brake employed.

**SPECIFICATION**

- **Drive system:** Direct drive by AC servo motor
- **Speed:** 33-1/3 rpm, 45 rpm
- **Speed selection:** Electronic switching
- **Speed adjustable range:** ±3% of specified speed
- **Wow/flutter:** Less than 0.015% W/W
- **Starting time:** Less than 1.2 seconds
- **Turbulence:** Aluminum alloy die-cast diameter 31.2 cm
- **Moment of inertia of 223 kg-cm²**
- **Power supply:** AC 220/230/240 V 50/60 Hz
- **Power consumption:** 15 W
- **Dimensions:** 334 (W) x 182 (H) x 378 (D) mm
- **Weight:** 8.1 kg
- **Suitable cabinet:** DC-200

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**DP-2000 Direct Drive Turntable with Quartz Control**

By utilizing the know-how from DENON's record reproducer for professional use, now playing an active part in places such as broadcasting stations, quartz control was added to our unique speed servo system to bring down the deviations of rotation to below 0.002%. In addition, the employment of a smooth, specially designed brake function and smooth rotating AC motor effects can be seen at various points.

**SPECIFICATION**

- **Drive system:** Direct drive by AC servo motor
- **Frequency detection servo system phase locked to a quartz crystal oscillation**
- **Speed:** 33-1/3 rpm, 45 rpm
- **Speed selection:** Slide switching
- **Speed adjustable range:** Less than 0.005% W/W
- **Wow/flutter:** Over 75 dB (3% W)
- **Starting time:** Aluminum alloy die-cast. 30 cm diam.
- **Moment of inertia of 200 kg-cm²**
- **Power supply:** AC 220/230/240 V 50/60 Hz
- **Power consumption:** 15 W
- **Dimensions:** 375 (D) x 146 (H) mm
- **Weight:** Approx. 7 kg
DP-6700 Direct Drive Player with Quartz Control and Dynamically Damped Mechanism Tonearm

A high performance record player with DENON quartz turntable DP-6700, boasting a turntable mat resulting from the holographic analyis by laser beams, Stroboscope for easy and accurate viewing of the lighting of the quartz synchronized pulse, employment of an automatic resting type brake with no reverse rotation, dynamically damped tonearm DA-307, 63 mm thick laminated veneer cabinet with a leather.

SPECIFICATION

Phono motor section refer to DP-6000
Tonearm Type: Static balance S-type with dynamically damped construct
Effective length: 244 mm (max.)
Overhang: 14 mm
Tracking error: 2.5±1 mm
Acceptable weight of cartridge: 5-10 g
Tracking force adjustment: 0.5 g
Casing: ODIP damping system
Inside force canceller: Magnetic control type
Head shield: Magneto alloy casting
Dimensions: 527 W x 155 H x 423 D mm
Weight: 17 kg

DP-1800 Direct Drive Player

A high performance player. For the tonearm, the idea similar to the DA-307, whose dynamic damping mechanism has been realized, is employed. A cabinet is made of a natural marble and laminated plywood. For the phono motor, a motor inheriting the basic performance of DP-series is employed.

SPECIFICATION

Drive system: Direct drive by AC servo motor
Speed: 33 1/3 rpm, 45 rpm
Speed selection: Slide switched
Speed adjustable range: ±3% of specified speed
Wow/flutter: Less than 0.018% (W max)
Starting time: Less than 1.8 sec
Turntable: Aluminum alloy diecast diameter: 300 mm
Weight: 1.1 kg
Tonearm type: Static balance S-type with dynamically damped construct
Effective length: 244 mm
Overhang: 14 mm
Acceptable weight of cartridge: 1-11 g
Casing: ODIP damping system
Power supply: AC 220/230/240 V 50/60 Hz
Power consumption: 6 W
Dimensions, Weight: 485 W x 172 H x 408 D mm, 17.6 kg

DP-2500 Direct Drive Player with Quartz Control

A product resulting from DENON's second bid for a quartz player by accumulating the techniques for building record players. A DENON quartz controlled turntable DP-2500 with a dynamically damped mechanism tonearm built to suppress arm resonance, encased in newly designed cabinet fully insulated against vibration and provided with an acrylic resin cover.

SPECIFICATION

Phono motor section refer to DP-2000
Tonearm Type: Dynamically damped, static balance type
Effective length: 244 mm
Overhang: 14 mm
Tracking error: Less than 2.5±1 mm (max.)
Acceptable weight of cartridge: 5-11 g
Head shell: Aluminum alloy (POL-3)
Other facilities: ODIP damping system
Dimensions: 485 W x 175 H x 405 D mm
Weight: 12 kg

DP-2550 Consists of phono motor (DP-2000) and wooden cabinet (DK-77F)

DP-1700 Direct Drive Player

The DP-1700 employs a magnetic speed detection system in the servo mechanism. This phone motor is designed to offer high performance of DP-series, and it is equipped with a simple, easy-to-handle S-shaped tonearm. The direct drive player greatly enhances cost performance. The unit is designed especially to eliminate bowing.

SPECIFICATION

Drive system: Direct drive by AC servo motor
Speed: 33 1/3 rpm, 45 rpm
Speed selection: Slide switched
Speed adjustable range: ±3% of specified speed
Wow/flutter: Less than 0.015% (W max)
Starting time: Over 76 dB (D/N: 8)
Turntable: Aluminum alloy diecast diameter: 300 mm, 1.1 kg
Weight: 1.1 kg
Tonearm type: Static balance S-type
Effective length: 244 mm
Overhang: 14 mm
Acceptable weight of cartridge: 5-11 g
Casing: ODIP damping system
Power supply: AC 220/230/240 V 50/60 Hz
Power consumption: 16 W
Dimensions, Weight: 485 W x 170 H x 408 D mm, 12 kg

DP-1500 Consists of phono motor and wooden cabinet
DP-1200 Direct Drive Player
The DP-1200 is provided with automatic arm lift for the ease of operation without deteriorating its performance. The DP-1200 is a high performance record player with the unique DENON technology realized on such parts as the non-contact type record clamp, the adjustable tone arm height, the stand-by switch for starting after a cueing, and howling prevention.

SPECIFICATION
- Drive system: Direct drive by AC servo motor
- Speed control: Frequency detection servo system
- Speed: 23/1/2 rpm, 45 rpm
- Speed adjustable range: Over 2.5% specified speed
- Wow/flutter: Less than 0.016% W rms
- S/N ratio: Over 75 dB (DIN-B)
- Starting time: Less than 1.5 sec (23/1/2 rpm)
- Turntable: Aluminum alloy die-cast, 30 cm diam.
- Tone arm type: Static balance type
- Effective length: 244 mm
- Overhang: 14 mm
- Acceptable weight cartridge: 5 g ~ 11 g
- Coating: Oil damped system
- Power supply, Consumption: AC 220/230/240 V 50/60 Hz, 12 V, 48 W
- Dimensions, Weight: 415 (W) x 303 (H) x 226 (D) mm, 12.8 kg

DP-790 Direct Drive Player
A magnetic signal detecting system and high precision servo phon motor is employed and uses a tone arm whose effective length is 24 m/m which is regarded as the longest in this class. The greater consideration is given to the howling. Insulator leg for preventing acoustic feedback. Anti-skailing mechanism.

SPECIFICATION
- Drive system: Direct drive by AC servo motor
- Speed control: Servo system with frequency detection
- Speed: 33/1/2 rpm, 45 rpm
- Speed adjustable range: ±3% of specified speed
- Wow/flutter: Less than 0.016% W rms
- S/N ratio: Over 75 dB (DIN-B)
- Starting time: Over 1.8 sec
- Turntable: Aluminum alloy die-cast, 30 cm diam., 300 mm, 11
- Tone arm type: Static balance type
- Effective length: 244 mm
- Overhang: 14 mm
- Acceptable weight cartridge: 5 g ~ 11 g
- Coating: Oil damped system
- Power supply, Consumption: AC 220/230/240 V 50/60 Hz, 12 V, 48 W
- Dimensions, Weight: 415 (W) x 170 (H) x 406 (D) mm, 10.7 kg

DP-755 Consists of phone motor and wooden cabin

DR-750 Stereo Cassette Tape Deck
DENON has researched on better tonal quality through a tape transport mechanism, the head, and the amplifier to design the DR-750 cassette tape deck. The tonal quality depends on the characteristics and the construction of the tape transport mechanism and the head. Recording and playback heads consist of unique Sendust tip developed by DENON, so that it records with a wider dynamic range together with a superior recording linearity and the lowest distortion at a high level. Combined with the DENON high quality head, model DR-750 achieved an excellent tonal quality and the performance of tape transport which is superior to a 3-head system.

SPECIFICATION
- Type: 4-track 2-channel stereo cassette tape deck
- Motor: Dolby noise reduction system
- Speed: DC constant motor 1 pc.
- Tape speed: 4.8 cm/sec
- Wow/flutter: Less than 0.048% W rms
- Fast forward time: Approx. 70 sec (1st tape)
- Head: R/P: Sendust ferrite
- Erase: Better than 35 dB (1 kHz)
- Channel separation: Better than 66 dB (1 kHz)
- Crosstalk: Better than 66 dB (CCIR W rms)
- S/N ratio: (Dolby NR SW ON C40, tape 1 kHz)
- Frequency response: CA, tape 35 Hz ~ 16,000 Hz, ±3 db
- Power supply, Consumption: AC120 V 60 Hz, 110/220/230/240 V 50/60 Hz, 43 W
- Dimensions, Weight: 415 (W) x 303 (H) x 226 (D) mm, 12.8 kg

DR-350 Stereo Cassette Tape Deck
In the DENON stereo cassette deck, an emphasis is placed on a tape transport system and on an optimum recording performance which are the basic performance of the tape deck. And adequate countermeasure against operational fault and the protection of tape is provided by permitting ease of operation. The accuracy of the cassette holding position is increased, and self-centering hub drive assures a tape transport with a high precision.

SPECIFICATION
- Type: 4 track 2-channel stereo cassette deck, Dolby noise reduction system
- Motor: Electrical control DC motor
- Tape speed: 4.8 cm/sec
- Wow/flutter: Less than 0.06% W rms
- Fast forward time: Approx. 90 sec (1st tape)
- Fast rewind time: Approx. 75 sec (1st tape)
- Head: R/P: Ferrite
- Erase: Better than 35 dB (1 kHz)
- Channel separation: Better than 66 dB (1 kHz)
- Crosstalk: Better than 66 dB (CCIR W rms)
- S/N ratio: (Dolby NR SW ON C40, tape 1 kHz)
- Frequency response: C40, tape 35 Hz ~ 16,000 Hz, ±3 dB
- Power supply, Consumption: AC120 V 60 Hz, 110/220/230/240 V 50/60 Hz, 17 W
- Dimensions, Weight: 434 (W) x 182 (H) x 292 (D) mm, 8 kg