



IO LTD PSU

MOVING COIL CARTRIDGE
POWER SUPPLY

OWNER'S INFORMATION



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! IMPORTANT SAFETY INFORMATION !



RISK OF SHOCK OR ELECTROCUTION! INTERNAL OPERATING VOLTAGES ARE LETHAL!

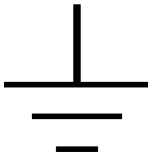
Do not remove top cover, unless specifically instructed to do so in the user manual.

This unit contains fuses and other safety components in accordance with BS60065 requirements.

In the event of failure, replacement fuse or safety component must be of the same part type and value.

SUCH REPLACEMENT MUST ONLY BE CARRIED OUT BY A QUALIFIED SERVICE TECHNICIAN.

Do not attempt to replace any fuses without first disconnecting the unit from the mains electricity supply.



This product must be earthed – ensure that the mains supply cable earth / ground is correctly connected.



This product generates high levels of heat. Adequate ventilation must be provided. Do not restrict airflow through any ventilation slots or place the unit on any surface that may restrict airflow.

Valve equipment operates at extremely high temperatures;
KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS.



Do not store or operate this unit in areas of high humidity or in close proximity to water / moisture.

Do not expose or immerse the unit in liquid of any kind.

OTHER SAFETY PRECAUTIONS: -

Never touch the power cord with wet hands.

Always remove the power cord by grasping the plug, not the cable.

Never expose the unit to excessive heat or magnetism.

Never let an inexperienced person repair or reassemble the unit.

Never put anything, especially metal objects, inside the unit.

Never place excessive weight on the unit.

CE DECLARATION OF CONFORMITY



We declare under our sole responsibility that this product is in conformity with the following standards or standardized documents:

BS EN 60065 in accordance with the regulations 73/23/EEC, 89/336/EEC (from 1 January 1997)

CE 94

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DISPOSAL

This product must not be disposed of as normal household waste. To prevent possible harm to the environment please separate the product from other waste to ensure that it can be recycled in an environmentally safe manner. Please contact your retailer or the appropriate local government office for collection facilities.

POWER REQUIREMENTS

Power requirements for electrical equipment vary depending on your geographical location. Please ensure that your unit meets the power requirements in your area. The power requirement for your unit is marked on the serial number plate, located on the rear panel.

If you are in doubt, please contact your dealer before plugging the unit into the mains supply.

INTRODUCTION

Thank you for purchasing this Audio Note (UK) product. With the correct care it should give you many years of pleasure and enjoyment.

Please take the time to read all of the information in this manual before connecting your new component to an electrical supply or your system, to ensure both your safety and satisfaction.

Please note that due to our desire to continually improve products, specifications are subject to change without notice. Therefore it is important to refer to the manual that is supplied with your product for the most accurate information; manuals downloaded from our website or obtained from other sources may no longer fully apply to your product.

If you have any questions regarding the information contained within this document or your new component, please feel free to contact us: -

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IO LTD MOVING COIL CARTRIDGE PSU

Congratulations on your purchase of the Audio Note (UK) IO Ltd Moving Coil cartridge Power Supply Unit. It is intended to be used with the Audio Note (UK) IO Ltd cartridge only.

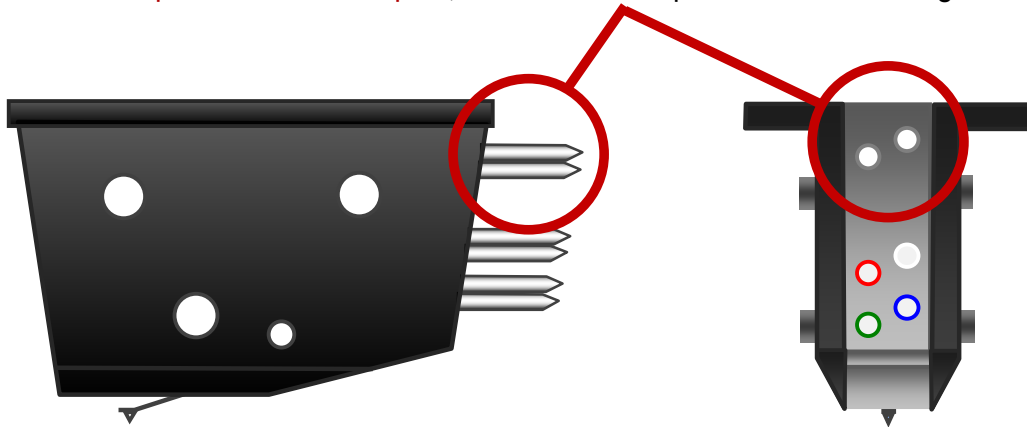


UNPACKING AND INSTALLATION

Please take care when unpacking your IO Ltd Power Supply Unit. Choose a clean, clear location to unpack the device. We recommend that you retain and carefully store all of the original packing materials, in case transportation / shipping is required at a later date.

CONNECTION TO IO LTD CARTRIDGE

As the IO Ltd is a field coil design, it requires a DC voltage to generate the internal magnetic field. To receive this voltage from the PSU, the cartridge is equipped with an **additional pair of connection pins**, located at the top / rear of the cartridge body: -



To connect these pins to the external power supply unit, an additional pair of internal (or external) arm wires and a two core / twisted pair external arm cable of suitable length (to reach the external power supply unit) will be required.

PLEASE REMEMBER THAT THE POWER SUPPLY UNIT CONNECTION CABLES MUST BE OF SUITABLE SIZE AND FLEXIBILITY SO THAT THE TRACKING AND OPERATION OF THE TONEARM IS NOT DISRUPTED.

Audio Note (UK) manufacture dedicated versions of their tonearms for the IO Limited, equipped with 6 internal wires and an additional length of external cable from the base of the tonearm. For further information regarding these models, please contact your Audio Note (UK) Dealer, or alternatively please feel free to contact us directly.

IO LTD PSU INITIAL SET UP

WE STRONGLY RECOMMEND THE INITIAL IO LTD POWER SUPPLY UNIT INSTALLATION AND SET UP SHOULD BE CARRIED OUT BY AN APPOINTED AUDIO NOTE (UK) DEALER.

IRREPARABLE DAMAGE NOT COVERED UNDER WARRANTY MAY BE CAUSED TO THE CARTRIDGE AND POWER SUPPLY BY INCORRECT INITIAL SET UP.

Once all cartridge connections have been made, the operating voltage for the cartridge can be set.

ENSURE THE 'CARTRIDGE' SWITCH IS IN THE 'OFF' POSITION (TURNED ANTICLOCKWISE / LEFT).

Connect the power supply unit to the mains supply, via the IEC socket located on the rear / right of the device. Once connected, turn the unit on using the 'Mains On' switch, located on the right hand side of the front fascia. Turn the switch clockwise / right. The red 'power' LED situated below the 'Mains On' switch should glow RED.

Next, switch on the meter using the 'Meter' switch, located on the lower left hand side of the front fascia. Turn the switch clockwise / right.

At this stage the meter on the front of the power supply unit should show a reading of 1.8V DC – 2.0V DC (divide the value on the meter scale by 10).

Turn the cartridge supply on using the 'Cartridge On' switch, located on the left hand side of the front fascia. Turn the switch clockwise / right.

With an accurate voltmeter set to the 2V DC scale, measure the voltage at the PSU connection pins on the cartridge.

BE EXTREMELY CAREFUL, AND DO NOT TOUCH BOTH PINS WITH THE SAME TEST PROBE OR CREATE A SHORT CIRCUIT; THIS WILL POSSIBLY DAMAGE THE CARTRIDGE AND POWER SUPPLY!!

The voltage at the PSU connection pins on the cartridge should be in the region of 1.2V DC to 1.3V DC.

If the voltage is within the required region, proceed to the next section of this manual entitled 'OPERATION'. If it is higher or lower than required, the voltage must be adjusted as follows: -

On the rear of the power supply unit is the cartridge voltage potentiometer. Viewed from the rear of the PSU, turn this switch **ANTICLOCKWISE** to **INCREASE** cartridge voltage and **CLOCKWISE** to **DECREASE** cartridge voltage.

Check the cartridge voltage again, and repeat the above steps until a voltage of between 1.2V DC and 1.3V DC is achieved.

NEVER SET THE CARTRIDGE VOLTAGE TO GREATER THAN 1.3V DC!

OPERATION

Once the initial power supply unit set up has been completed and the IO Limited has been correctly installed in your tonearm, you are ready to begin operation.

Mains On

This switch is used to turn the Power Supply Unit on, and is located on the right hand side of the front fascia. Turn the switch clockwise / right. The red 'power' LED situated below the 'Mains On' switch should glow RED.

THE POWER SUPPLY UNIT SHOULD BE SWITCHED OFF WHEN NOT IN USE FOR AN EXTENDED PERIOD (MORE THAN A FEW DAYS).

Cartridge On

This switch is used to apply the required voltage to the cartridge. When you wish to use the Io Limited (to play music!), turn the switch clockwise / right. There are two reasons for this switch; firstly, it allows the power supply unit to remain polarized even when the cartridge is not in use (Cartridge On switch in the 'OFF' / anticlockwise position), and secondly, it allows the supply to be disconnected when not in use, which prolongs the life of the Io Limited.

THE CARTRIDGE SHOULD ALWAYS BE SWITCHED OFF WHEN NOT IN USE!

Meter On

Located on the lower left hand side of the front fascia, this switch is used to activate the test meter, positioned on the front of the power supply unit. Turn the switch clockwise / right.

Meter

The meter allows the user to monitor the approximate voltage being supplied to the cartridge. With the cartridge turned on (see **Cartridge On** above) and the meter turned on (see **Meter On** above) the meter should read approximately 1.2 V DC to 1.4 V DC. With the cartridge turned off, the meter will show a higher reading.

IF THE METER SHOWS A READING GREATER THAN 1.2V DC TO 1.4V DC WHEN THE CARTRIDGE IS SWITCHED ON, SWITCH THE POWER SUPPLY UNIT OFF IMMEDIATELY AND CONTACT YOUR AUTHORIZED AUDIO NOTE (UK) DEALER.

OPERATION Continued...

Cleaning

No special maintenance is required for the power supply unit. Use a soft, clean lint free cloth to remove any surface marks from the casework. For finger marks / grease, use a soft, clean lint free cloth, lightly moistened with a solution of warm water and mild detergent. Do not use any alcohol or solvent based cleaning products, as they may damage the finish of the amplifier.

ENSURE THAT THE POWER SUPPLY UNIT IS SWITCHED OFF AND DISCONNECTED FROM THE MAINS ELECTRICITY SUPPLY BEFORE UNDERTAKING ANY CLEANING.

TECHNICAL SPECIFICATIONS

POWER SUPPLY OUTPUT VOLTAGE	0.4A, 1.2V DC
POWER SUPPLY WEIGHT AND DIMENSIONS	300mm(w) x 250mm(d) x 100mm(h) Weight 5Kg
NOTE	Due to Audio Note (UK)'s ongoing research and development program, specifications are subject to change without notice.

WARRANTY INFORMATION

Audio Note (UK) warrants this product to be free from defects in materials and workmanship for two years from the original date of purchase from an appointed Audio Note (UK) dealer, and agrees to cover the cost of parts and associated labour required to correct such defects, subject to terms & conditions.

This Warranty is offered to the first purchaser only.

Any valves supplied with the unit are warranted for three months from the original date of purchase.

If the product fails in normal domestic use and during the Warranty period due to the above described faults or defects, Audio Note (UK) will, at its discretion, repair or replace the item free of charge within a reasonable time once it has been returned to Audio Note (UK) or an appointed Audio Note (UK) dealer or service engineer.

Audio Note (UK) is not liable for any shipping charges incurred whilst transporting the product to or from Audio Note (UK) or an appointed Audio Note (UK) dealer or service engineer, should the item require service or repair during or after the Warranty period.

If the product must be shipped, please use the original packaging materials and include a copy of the original sales receipt along with a note explaining, in as much detail as possible, the problems you are experiencing with the unit.

Only use a reputable Courier Service or Shipping Agent, and ensure that your product is insured during transit.

Any servicing, repairs or modifications not authorized by Audio Note (UK), or carried out by persons other than appointed Audio Note (UK) service engineers will invalidate any warranty.

This Warranty does NOT cover: -

Damage sustained whilst in the possession of a shipping agent, retailer or consumer and not caused as a direct result of defects in materials or workmanship.

Damage caused by normal wear and tear.

Damage or defects caused by abnormal or unreasonable use.

Damage caused by accident, acts of nature, misuse or neglect.

Damage caused by a failure to follow the operating and installation instructions supplied with the product.

Damage caused by improper or careless cleaning.

Audio Note (UK) reserves the right to refuse warranty for any component of which the serial number has been removed, defaced or tampered with.

CONTACT INFORMATION

If in the future your Audio Note (UK) product requires servicing, or if you require technical support or have any questions regarding this or any of our other products, please contact your local Audio Note (UK) dealer.

Alternatively, please feel free to contact us directly: -

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