

**LINN POWERTEK**

O W N E R S M A N U A L

**I****NTRODUCTION** Thank you for buying this Linn product. As with all our products, the Linn POWERTEK power amplifier was designed and manufactured to outperform the competition. You will find that it is capable of excellent sound performance when partnered with other high quality components. The POWERTEK is made with top quality components and is thoroughly tested before it leaves our factory.

The POWERTEK is ideally suited for use with the Linn PRETEK or other high quality preamplifiers. Input/Output facilities are provided that allow convenient use of the POWERTEK in systems that require multiple power amplifiers.

When used with a Linn INTEK integrated amplifier, the POWERTEK provides a convenient and cost effective method of improving system performance through passive bi-amplification.



**INSTALLATION** Unpack the amplifier and retain the packing for future use. Ensure that the amplifier is earthed and that adequate ventilation is provided. Position the amplifier far enough away from the turntable to avoid hum.

## CONTENTS

POWERTEK power amplifier  
Owners manual and registration card  
Mains lead  
2 x single phono-phono leads  
4 x pairs KNEKT loudspeaker plugs  
Spare fuse

### MAINS CONNECTIONS

WARNING – Use the earthed, moulded mains lead supplied. Never use an unearthed plug or adapter.

### WARNING

THIS APPLIANCE MUST BE EARTHED

### IMPORTANT

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

Green-and-yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains load of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire, which is coloured green-and-yellow, must be connected to the terminal in the plug, which is marked with the letter E or by the earth symbol or coloured green or green-and-yellow.

The wire, which is coloured blue, must be connected to the terminal that is marked with the letter N or coloured black.

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

## INPUT CONNECTIONS

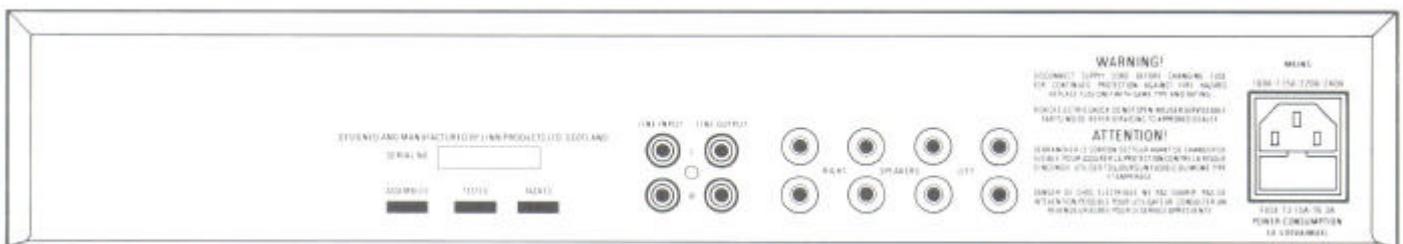
**WARNING** - The pre-amplifier and the power amplifier must be switched off before connecting or disconnecting any of the plugs on the rear panel.

For all the following input connections ensure that the left channel plug from the source is connected to the left channel socket on the pre-amplifier, and likewise for the right channel connection.

Two sets of RCA phono sockets are provided on the rear of the POWERTEK. These are labelled **LINE INPUT** and **LINE OUTPUT** and allow chaining the signal from one Powertek to another in multi-amplifier applications.

In conventional use (in a system with a single power amplifier), the signal from your preamplifier should be routed to the **LINE INPUT** sockets of the POWERTEK. The **LINE OUTPUT** sockets will remain unused.

If you have speakers that allow passive bi-amplification or tri-amplification (or you are using multiple POWERTEKS to drive several sets of speakers), the signal from the preamp is routed to the **LINE INPUT** sockets of the first POWERTEK. The signal is then chained to the second POWERTEK by connecting an RCA phono interconnect cable from the **LINE OUTPUT** of the first POWERTEK to the **LINE INPUT** sockets of the second POWERTEK. This connection procedure is repeated for each POWERTEK in the chain.



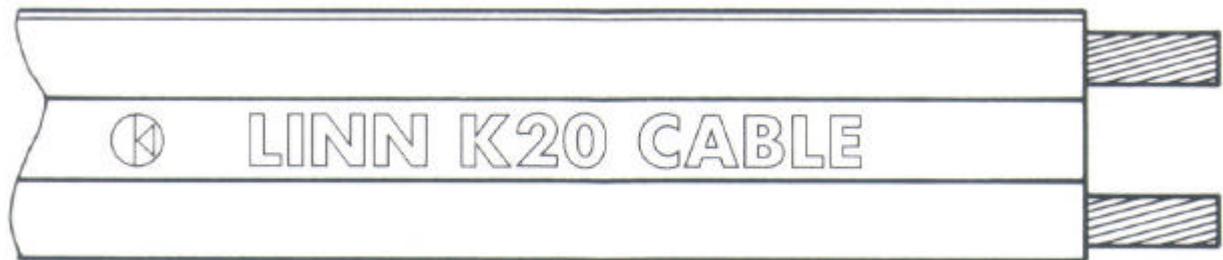
When bi-amplifying with an INTEK integrated amplifier, route the signal from the INTEK **PRE-OUT**, **POWER-IN** sockets to the **LINE INPUTS** of the POWERTEK.

IMPORTANT CAUTION NOTE When passively bi-amping or tri-amping loudspeakers, be sure to remove any connecting links that are at the speaker input terminals. Failure to do so will short the amplifier outputs together and may damage the power amplifiers.

## SPEAKER INPUTS

Two sets of speaker outputs are provided on the rear of the POWERTEK. This simplifies the bi-wiring of speakers such as the INDEX, HELIX, or NEXUS.

Whether you are using single speaker cable, bi-wiring, or tri-wiring, the 4mm plugs supplied should be properly soldered to good quality cable. For best results we recommend Linn loudspeaker cable, which is available through your authorised Linn retailer.



Please note that speaker cable is directional and usually provides slightly better performance when orientated in the proper direction. Linn speaker cable is imprinted with a circular Linn logo followed by the model number of the cable. When the cable is properly orientated, the circular logo will point towards the loudspeakers.

## THE LINN PERFORMANCE ADVANTAGE

For more information on the performance advantages of bi-wiring, tri-wiring, passive bi-amplification, and AKTIV multi-amp systems, consult your local authorised Linn retailer.

AMPLIFIER OVERLOAD PROTECTION. There are two levels of electronic protection in the POWERTEK. One is an over-current sensor, which protects against short circuits or very low impedance loads. The other is an over-temperature sensor which protects against inadequate ventilation. The internal temperature sensor will shut the amplifier down if the sensor reaches 70 degrees centigrade.

To re-set, switch the POWERTEK off for a few minutes and then switch it back on. The amplifier will have re-set itself and will resume working normally.

LOAD IMPEDANCE. The POWERTEK will drive two pairs of 8 ohm loudspeakers, or one pair of 4 ohm loudspeakers without any problems. Two pairs of 4 ohm loudspeakers may cause the over-current protection trip to operate at moderate volume levels. However, no combination of loudspeakers will cause damage to the POWERTEK.

## GENERAL SYSTEM INSTALLATION

TURNTABLES For best results a turntable should be placed on a small, light, rigid shelf.

POWER SUPPLIES Take care not to position too close to signal leads, turntables or pre-amplifier.

AMPLIFIERS Pre and power amplifiers may create hum if positioned too close together. Experiment by moving components when the system is on but not playing music (although it is best to turn the volume down whilst actually moving the components).

LOUDSPEAKERS Loudspeakers should be positioned correctly. They should be mounted on rigid stands, and not subject to any rocking movement. All Linn speakers except NEXUS and HELIX are designed to be placed close to the wall.

CLEAN CONTACTS It is important that the electrical contacts in a hi-fi system are kept mechanically sound and clean. Unplugging and replugging all the connectors occasionally will effectively clean contacts.

WARNING - This should be carried out after the mains supply has been switched off.

INTERCONNECT LEADS Correct cables should be used. We recommend good quality copper cable for interconnects leads and advise 4mm multicore copper cable, such as Linn K20 for speaker leads.

Your Linn Dealer can supply high quality interconnects for linking all your hi-fi components.

## MAINTENANCE

FUSE PROTECTION A fuse is fitted to the power input socket on the rear of the POWERTEK. Please note that the fuse holder also contains one spare fuse.

The Linn POWERTEK power-amplifier is designed for a long life and any servicing should be carried out by an authorised dealer.

Dust or finger marks can be removed by using a soft damp cloth. Avoid the use of domestic cleaning products.

## GUARANTEE AND SERVICE

This product is guaranteed under the conditions that apply in the country of purchase.

In addition to any statutory rights the customer may have, we undertake to replace any parts which have failed due to faulty manufacture. To help us please return your completed registration card to Linn or your national distributor. This will enable you to receive the Linn RECORD Newsletter, containing information on merchandise, the Linn SELEKT record scheme and new developments at Linn.

WARNING – Refer all enquiries to authorised dealers only. Unauthorised servicing or dismantling of the product invalidates the manufacturer's warranty.

If you are in any doubt, please contact your nearest Linn dealer. For information on your nearest Linn dealer contact the Linn factory in Scotland or your national distributor.

### IMPORTANT

Please keep a copy of the sales receipt to establish the purchase date of the product.

Please ensure that your equipment is insured by you during any transit or shipment for repair.

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SPECIFICATIONS all sensitivities for 20 Vrms output at (50w per 8 ohms) at 1Khz

### INPUTS

Input = 741mVrms / 4.7Kohms

### OUTPUTS

Maximum power 50 watts/8 ohms per channel  
80 watts/4 ohms per channel

### MAINS SUPPLY / FUSE

100V - T6.3A, 115V - T6.3A, 220V - T3.15A, 240V - T3.15A  
voltage set by factory fitted transformer option

### POWER CONSUMPTION

300 VA maximum, 15W idling

### DIMENSIONS

Width - 430mm Depth - 350mm Height - 90mm

### WEIGHT

7kg