



LINN KABER AKTIV

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



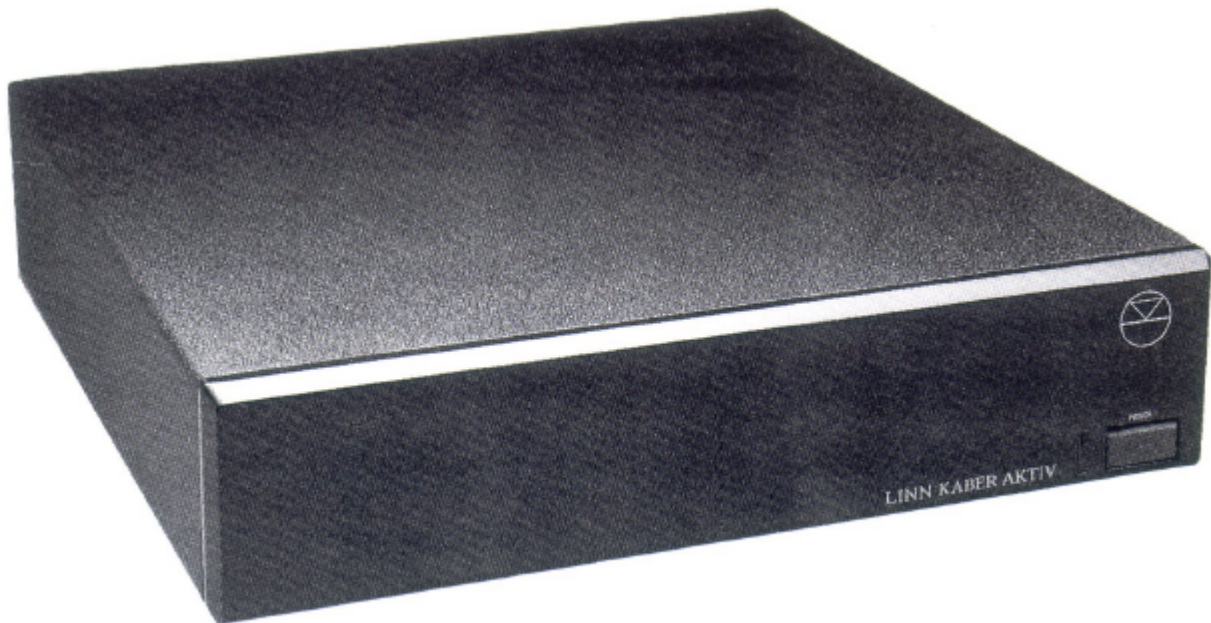
MUSIC is very important for people. It stimulates the imagination, helps them relax, can change their mood, and of course provides entertainment and pleasure.

A good hi-fi works well enough to deliver these benefits. It also helps you appreciate music you never thought you would.

At Linn we devote our energy to improving standards of music reproduction, because we know that the better the sound the more you'll enjoy music at home.

The addition of any Linn component will improve the sound quality of your system. Linn has a policy of continuously improving, its equipment allowing customers to retro-fit most product upgrades.

INTRODUCTION The KABER AKTIV system provides outstanding performance in a compact package. It will perform at its best when used with the highest quality source. The better the sound from your turntable, tuner or CD player the better the sound you will hear from your KABER AKTIV system.



In the passive KABER, the signal from the amplifier is divided into three frequency bands, (bass, bass/mid and treble) by a passive filter built into the loudspeaker cabinet. This crossover filter is powered by the signal itself, absorbing some of the amplifier power. Even with the finest components, which can handle high power without distortion, there is a limit to passive crossover performance and some fine details of music are still compromised.

An active crossover allows a degree of precision control of the signal and the drive units not possible in a passive crossover. It accurately divides the signal from the preamplifier into three frequency bands, and feeds each to its own power amplifier. The loudspeaker drive units are directly controlled by the power amplifiers. By processing the music signal at low power the active crossover allows better filtering, and more accurate amplitude and time response correction for the loudspeaker.

The KABER AKTIV has been specifically optimised for the KABER loudspeaker. It cannot be used with other loudspeakers. Linn strongly recommends that it be used in conjunction with Linn power amplifiers to provide the best possible sound.

INSTALLATION Unpack the KABER AKTIV and retain the packing for future transportation.

Your Linn Dealer is responsible for ensuring correct installation of the KABER AKTIV system. He is best placed to provide information, address your queries and resolve any problems. If this is not possible, please contact the Linn Products factory in Scotland, or your national distributor. For your information some tips regarding positioning, electrical supplies and interconnections are listed below.

CONTENTS

KABER AKTIV Crossover Unit
6 Power Amplifier Connection leads (1 Phono to 1 XLR connectors)
LK1 Pre-amplifier Connection Lead (2 Phono to 1 XLR connector)
2 KAIRN Pre-amplifier Connection leads (1 Phono to 1 Phono connectors)
Mains Lead
Spare Fuse
Owner Manual and registration card
Set of Labels
Resistor Pack (for installation use only)

WARNING Use the earth moulded mains lead supplied. Never use an unearthed plug or adapter.

WARNING THIS APPLIANCE MUST BE EARTHED

IMPORTANT

The wires in this 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 lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

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

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

SITING

In general, the power amplifiers should be positioned at least one metre away from the pre-amplifier or turntable.

The KABER AKTIV may be positioned by the pre-amplifier or near (but not on top of) the power amplifiers.

NOTE With LK280/SPARK amplifiers, the KABER AKTIV may be positioned on top of an LK280, but not on top of a SPARK power supply.

Both the LK1 and the KABER AKTIV can drive up to 10 metres of Linn interconnect cable, so that the power amplifiers may be sited near the loudspeakers allowing flexibility in locating this equipment.

Wherever the power amplifiers are situated it is essential to ensure adequate ventilation. Do not expose to strong direct or radiated heat.

ELECTRICAL SUPPLIES

WARNING Under no circumstances wire multiple cables into one plug. If there are not enough mains outlets, use high quality approved mains extension units. If possible, feed each power amplifier directly from the mains. If not, use one extension for the pre-amplifier, the crossover and the sources, and another for the power amplifiers.

If all the power amplifiers are run off an extension from one mains outlet, it is good practice to switch the power amplifiers on one at a time, to avoid the enormous surge current which would occur if they were all switched on at once.

SIGNAL INTERCONNECTIONS

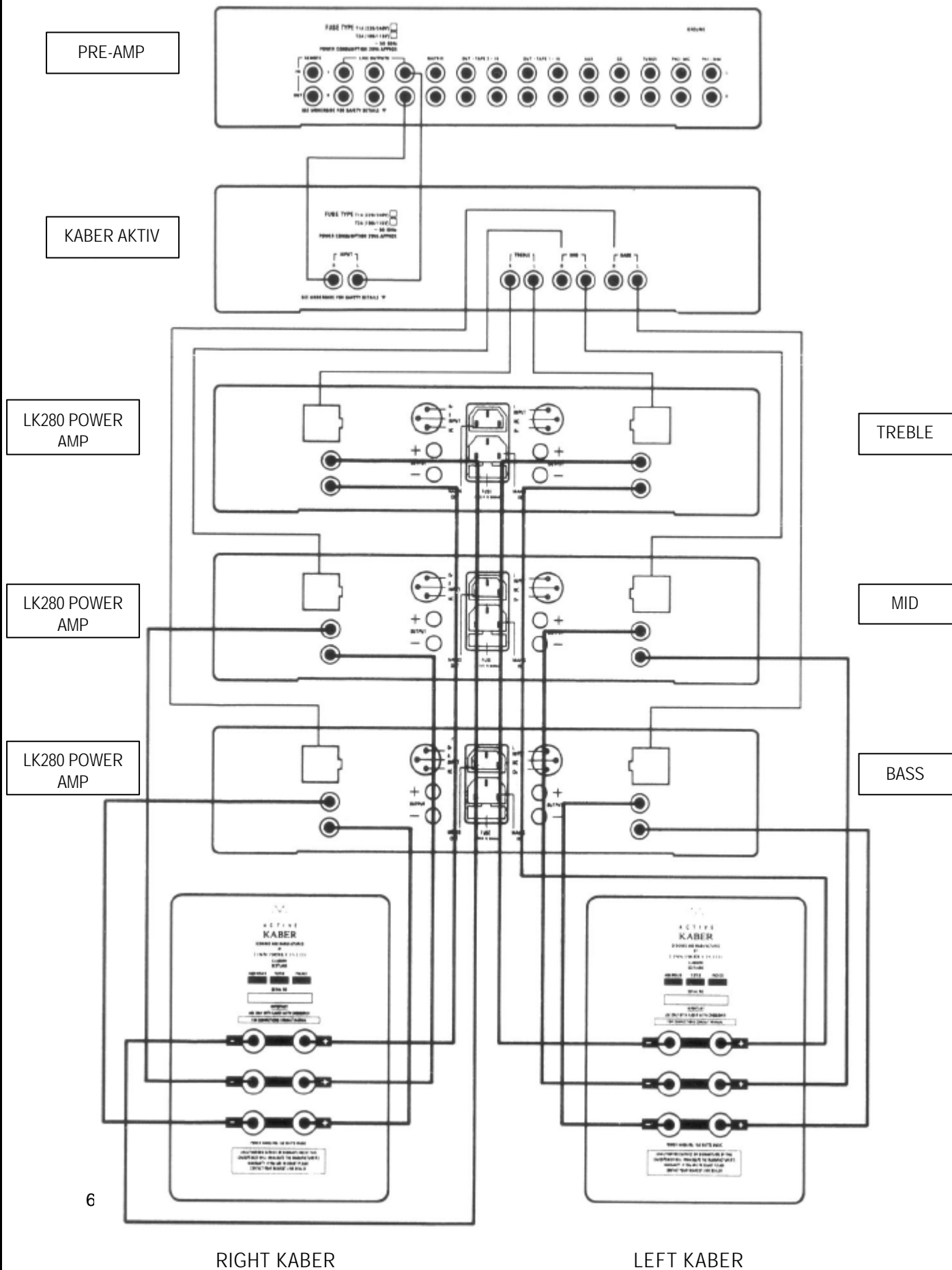
It is worth ensuring that all cables are labelled at installation to avoid potential errors if the system is ever moved or disconnected. Labels for this purpose are provided. Double check all connections, especially loudspeaker phase, before powering up for the first time.

NOTE When using a Linn pre-amplifier, connect the positive output of the power amplifier to the negative loudspeaker terminal, and the negative output to the positive loudspeaker terminal, as Linn pre-amplifiers invert the signal phase to their main output.

The leads provided allow for the KABER AKTIV to be sited a short distance from the pre-amplifier and power amplifiers. If this does not suit your installation, your dealer will supply the necessary length of cable.

INTERCONNECTIONS

NOTE: INVERT THE PHASE BETWEEN THE POWER AMPLIFIERS AND THE SPEAKERS



LEVEL ADJUSTMENTS

The KABER AKTIV system is pre-set at the factory for an acoustically correct on-axis frequency response and this will suit most environments. However the bass and/or treble may require adjustment to suit some rooms. A resistor pack is provided with the product to allow the dealer to carry out any necessary adjustments at installation.

OPERATION The KABER AKTIV has no operational controls, apart from the on/off switch. It will be correctly set to suit your listening environment by the Linn dealer on installation, and needs no further adjustment. If you move the system to another room, or move house, your Linn dealer will be pleased to advise on transfer and set it up in the new position.

GENERAL SYSTEM INSTALLATION

TURNTABLES For best results a turntable should be placed on a small, light, rigid table, or alternatively wall mounted on a 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 hum if positioned too close together. For minimum hum experiment by moving the components with the system at full volume 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 very close to the wall.

CLEAN CONTACTS It is important that the electrical contacts in a hi-fi system are kept mechanically sound and clean. Occasionally unplugging and replugging all the connectors 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 interconnect leads and advise 4mm² 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

The KABER AKTIV normally needs no maintenance.

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

WARNING Disconnect the mains supply first,

FUSE If the fuse in the mains inlet connector should blow, replace it with the correct type only. To replace the fuse, first switch off and disconnect the mains lead. Open the door on the mains inlet connector by inserting a small flat-blade screwdriver in the slot at the top and levering it open. **DO NOT REMOVE OR TURN THE VOLTAGE SELECTOR BARREL.** Pull out the fuse-holder and replace the blown fuse with the spare fuse provided. Replace the fuse-holder, with the arrow pointing right, and snap the door shut.

If the new fuse blows there is a fault and the complete unit should be returned to your Linn dealer.

GUARANTEE & 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 that 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 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.

LINN PRODUCTS LIMITED, FLOORS ROAD, WATERFOOT, EAGLESHAM,
GLASGOW G76 OEP, SCOTLAND.
TELEPHONE: ++44(0)141 307 7777.
FACSIMILE: ++44 (0)141 644 4262.

SPECIFICATIONS

DIMENSIONS

Width - 320mm Depth - 326mm Height - 80mm

Weight - 4kg

ELECTRONIC

Input impedance:	10 Kohms
Maximum source impedance:	600 ohms
Output impedance:	600 ohms
Typical load impedance:	5 Kohms
Minimum load impedance:	2 Kohms and 10nF in parallel
Nominal input level:	1 Vrms
Distortion:	< 0.05%
Connections:	Phono sockets
Power consumption:	15 Watts

ACOUSTIC (of AKTIV LK500 and KABER LS500a)

Crossover frequencies	<i>mid to bass:</i> 80Hz, acoustic 2nd order
	<i>mid to treble:</i> 2800Hz, acoustic 4th order
Frequency response:	56Hz to 20kHz +/- 3dB