

LINN

WAKONDA
OWNERS MANUAL

IMPORTANT SAFETY INFORMATION

Explanation of symbols used in this manual and on the product:



This symbol is intended to alert the user to the presence of uninsulated dangerous voltages within the enclosure of sufficient magnitude to cause electric shock.



This symbol is intended to alert the user to the presence of important maintenance and servicing information in the instruction and service manuals.

CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE THE COVER.
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: SHOCK HAZARD. DO NOT OPEN.
AVIS: RISQUE DE CHOC ELECTRIQUE. NE PAS OUVRIR.

CAUTION: REPLACE FUSE WITH SAME TYPE AND RATING.
ATTENTION: UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE.

DISCONNECT SUPPLY CORD BEFORE CHANGING FUSE.
ATTENTION: DEBRANCHER AVANT DE REMPLACER LE FUSIBLE.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

MAINS PLUGS

This appliance is supplied with a non-rewireable mains plug for the intended country. Replacement mains leads can be obtained from your Linn retailer. Should you need to change the plug please dispose of it carefully. A plug with bared conductors is dangerous if engaged in a live socket. The Brown wire must be connected to the Live (Line) supply pin. The Blue wire must be connected to the Neutral supply pin. The Green/Yellow wire must be connected to the Earth (Ground) supply pin. Please contact your retailer or a competent electrician if you are in any doubt.

GENERAL SAFETY INSTRUCTIONS

1. Read instructions. Read the safety and operating instructions before operating the appliance.
2. Retain instructions. Retain the safety and operating instructions for future reference.
3. Heed warnings. Observe all warnings on the appliance and in the operating instructions.
4. Follow instructions. Follow all operating and use instructions.
5. Water and moisture. Do not use the appliance near water, for example near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool and the like.
6. Carts and stands. Use only with a cart or stand that is recommended by the manufacturer.
- 6a. An appliance and cart combination should be used with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. Wall or ceiling mounting. Mount to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation. Site the appliance so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat. Site the appliance away from heat sources such as radiators, heaters, stoves, or other appliances (including amplifiers) that produce heat.
10. Power sources. Connect the appliance to a power supply only of the type described in the operating instructions or marked on the appliance.
11. Grounding or polarisation. Do not defeat the safety purpose of the polarised or grounding type plug. A polarised plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

12. Power cord protection. Route power cords so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, power sockets, and at the point where they exit from the appliance.
13. Protective attachment plug. As a safety feature the product is equipped with an attachment plug containing overload protection. See the instruction manual about resetting or replacing the plug. Should the plug need replacing ensure that a replacement is used which has the same overload protection as the original.
14. Cleaning. Disconnect the unit from the power supply before cleaning. Remove dust and fingerprints with a soft, dry cloth. Avoid using domestic cleaning products on the unit.
15. Power lines. An outdoor antenna should be located away from power lines.
16. Outdoor antenna grounding. If an outdoor antenna is connected to the tuner/receiver, ensure that the antenna system is grounded to provide some protection against voltage surges and static build up.

In the USA see article 810 of the National Electrical Code ANSI/NFPA 70 concerning installation requirements.

17. Lightning storms. Unplug this apparatus during lightning storms or when unused for long periods of time.
18. Objects and liquid entry. Do not let objects or liquids fall into the product. Do not expose the product to dripping or splashing. Do not place a vessel containing liquid on top of the product.
19. Damage requiring service. The product should be serviced by qualified personnel if:
 - a) The power cord or plug has been damaged.
 - b) Objects or liquid have fallen into the product.
 - c) The product has been exposed to rain.
 - d) The product does not appear to operate normally or exhibits a marked change in operation.
 - e) The product has been dropped or the enclosure damaged.
20. Servicing. Don't attempt to service the product beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

UK USERS PLEASE READ THIS IMPORTANT SAFETY INFORMATION.

FUSE REPLACEMENT

This appliance is fitted with a non-rewireable 13 Amp mains plug. The plug contains a 5 Amp fuse.

If the fuse has blown it can be replaced :

- a) pull out the red fuse cover/carrier.
- b) remove and dispose of the blown fuse.
- c) fit a new 5 Amp BS1362 approved fuse into the carrier and push the carrier back into the plug.

Always ensure the fuse cover is fitted. If the fuse cover is missing do not use the plug. Contact your Linn retailer to obtain a replacement fuse cover. Fuses are for fire protection and do not protect against electric shock.

MAINS PLUG REPLACEMENT

Should your mains plug need replacing and you are competent to do this proceed as follows. If you are in doubt contact your Linn retailer or a competent electrician.

- a) Disconnect the plug from the mains supply.
- b) Cut off the plug and dispose of it safely. A plug with bared conductors is dangerous if engaged in a live socket.
- c) Only fit a 13 Amp BS1363A approved plug with a 5 Amp fuse.
- d) The cable wire colours or a letter will be marked at the connection points of most quality plugs.

Attach the wires securely to their respective points. The Brown wire must go to the Live pin, the Blue wire must go to the Neutral pin and the Green/Yellow wire must go to the Earth pin.

- e) Before replacing the plug top ensure that the cable restraint is holding the outer sheath of the cable firmly and that the wires are correctly connected.

MUSIC enriches your life. It can stimulate you, relax you, change your mood and provide entertainment and pleasure.

A good hi-fi plays recorded music well enough to give you these benefits, and it will broaden and deepen your appreciation of music.

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

The addition of any Linn component will improve the sound quality of your system.

We have a policy of continuously improving our products and, wherever possible, make these improvements available as upgrades.

INTRODUCTION The Linn WAKONDA pre-amplifier uses microprocessor control, Linn's solid state input switching and volume control technology, and the latest surface mount manufacturing techniques to deliver unprecedented audio performance and ease of use.

The WAKONDA accommodates six input sources, has two line-outputs and provides outputs for two tape decks. You may record any source while listening to the same or any other source.

Expansion options include multi-room modules and a tuner which will simply plug into the internal expansion port.

Like any electronic product, the WAKONDA 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 the other components in the system.

INSTALLATION Your Linn retailer will install your WAKONDA for you if you wish and help you with any problems, or you can install it yourself. If you are in the UK and want some advice you are welcome to phone our Customer Services on:

FREEPHONE 0500 888 909.

If you are installing your WAKONDA yourself, proceed as follows.

Unpack the WAKONDA and retain the packing for future transportation.

Check the contents are as follows:

WAKONDA Pre-amplifier	Remote handset
Owner's manual	Mains lead
1 spare fuse (located in the mains inlet connector).	
1 pair of phono interconnect cables.	

WARNING: THIS APPLIANCE MUST BE EARTHED.

WARNING: USE THE EARTHED MOULDED MAINS LEAD SUPPLIED. NEVER USE AN UNEARTHED PLUG OR ADAPTOR.

IMPORTANT NOTE FOR UK USE: The wires in this mains lead use the following colour 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 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.

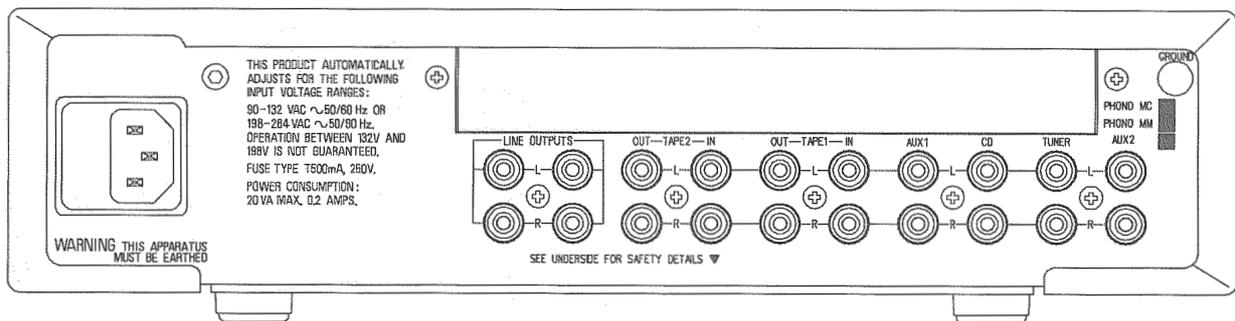
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

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

POSITIONING

You can put your WAKONDA more or less anywhere you find convenient, but there are a few considerations which may affect your choice. Turntables have short signal leads, so the WAKONDA will need to be close to your turntable. However, if they are too close together the cartridge may pick up hum from the amplifier, especially if it is a moving coil cartridge. 30cms between the amplifier and the cartridge is usually enough to avoid such problems. Some cassette decks may also pick up hum if they are too close to the WAKONDA.

The Linn remote control system is exceptionally sensitive - you should be able to put your WAKONDA almost anywhere in a room. Keep it out of direct sunlight, and don't obscure the control window. Smoked glass cupboard doors usually present no problems.



CONNECTIONS

Connect your WAKONDA to a mains supply using the supplied mains cord. Turn it on to see it light up!

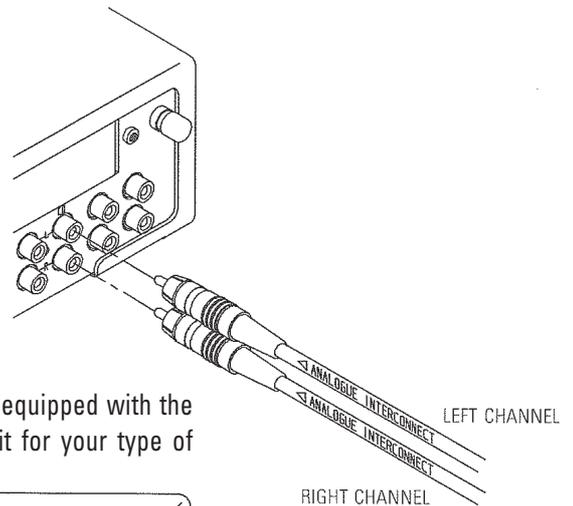
Now you know it works, you have to connect it up to everything else, so turn it off again. All the connections (except headphones) are made at the rear panel, as illustrated above.

WARNING: THE WAKONDA MUST BE SWITCHED OFF BEFORE CONNECTING OR DISCONNECTING ANY OF THE PLUGS ON THE REAR PANEL.

CONNECTING THE SOURCES Your WAKONDA has six inputs and we would like to encourage you to use as many as possible. So don't just connect up your CD player, record player and tuner, but also connect your television, video recorder and satellite receiver. The difference this will make to your enjoyment of TV is fantastic. Your Linn retailer will provide all the necessary leads.

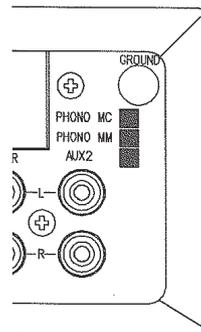
All the input connections on the Linn WAKONDA are RCA phono, except for the multi-room options.

For all connections, ensure that the left channel of the source is connected to the left (upper) channel of the WAKONDA and the right channel of the source is connected to the right (lower) channel of the WAKONDA. We recommend using high-quality leads such as Linn interconnect cable. Linn interconnect cable is directional and should be connected such that the arrow points from the source component towards the WAKONDA.



CONNECTING A TURNTABLE If your WAKONDA is equipped with the optional phono stage, your retailer will have set it for your type of cartridge. The back panel will be marked MM for moving magnet cartridges, or MC for moving coil cartridges. If you change your cartridge type the WAKONDA can be easily modified by your retailer.

Attach the earth connection of the tonearm lead to the binding post above the phono inputs. Connect the tonearm lead phono plugs to the phono inputs.



If your WAKONDA is not equipped with a phono stage, it will be marked AUX2.

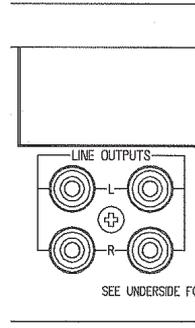
CONNECTING OTHER SOURCES The WAKONDA has either five or six identical line-level inputs, depending on whether the optional phono stage is present. They are marked TUNER, CD, AUX1, TAPE1 IN, TAPE2 IN and AUX2 (if present). Connect them up appropriately, using AUX1 and AUX2 for sources such as TV and video.

CONNECTING TAPE RECORDERS You can connect up to two tape decks to a WAKONDA. The TAPE1 IN sockets on the amplifier should be connected to the output of tape deck 1 (for playback) and the TAPE1 OUT socket should be connected to the line input of tape deck 1 (for recording). Tape deck 2 should be connected to the TAPE2 sockets in the same way.

OUTPUT CONNECTIONS

LINE OUTPUTS The WAKONDA has two identical stereo line-outputs to enable the connection of up to two power amplifiers in your hi-fi system, thereby avoiding the need for adaptor cables.

Select a line-output and, using the interconnect leads provided, connect the left output of the pre-amplifier to the left input of the power amplifier, and the right output of the pre-amplifier to the right input of the power amplifier. Additional power amplifiers should be connected the same way using the other line outputs.



CONNECTING HEADPHONES The headphone socket on the front panel is fed from a dedicated headphone amplifier. The line outputs to the power-amplifier may be muted when you just want to listen to headphones. To do this, press the two centre keys.

CONNECTING POWER Connect the mains lead to the WAKONDA and plug it into a suitable power outlet.

MULTI-ROOM CONNECTIONS

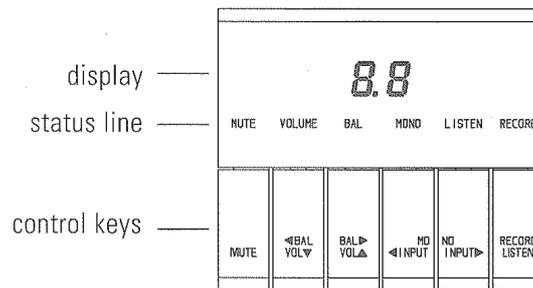
If you have a multi-room system based on the WAKONDA amplifier, please refer to the Linn KNEKT multi-room system manual. With the multi-room option fitted, some details of the operation of the WAKONDA are different from those described in this manual. Where such difference arise, they are indicated by this symbol



in the margin. Refer to the Linn KNEKT manual for more information.

OPERATION We designed the WAKONDA to be as simple as possible to operate. It has a clear display, a simple front panel and full remote control.

The control area looks like this:



Although there are many sophisticated features, all commonly used functions require only one key press. To access the less commonly used functions, such as balance, two keys must be pressed at the same time. The status of the WAKONDA is always indicated through the row of indicator lights.

If you find that your WAKONDA does not respond to the controls as you expect, please refer to the GETTING UNSTUCK section on page 15.

POWER



TO TURN THE WAKONDA ON press the POWER button. A green light will appear next to it. In about three seconds, the LISTEN indicator will light, and the display will show "Cd". (When distributed audio input is fitted the display will show "dA"). The WAKONDA selects the input shown and volume 30.

TO TURN THE WAKONDA OFF press the POWER button again.

If you get lost in some of the advanced features while learning to use your WAKONDA, just turn the POWER off and back on. We recommend you turn the WAKONDA off when it is not in use.

Notice that whenever you don't do anything to your WAKONDA for about 30 seconds, the display will turn off to save power, showing only two dashes.

◀ INPUT INPUT ▶

TO SELECT AN INPUT to listen to press the ◀ INPUT OR INPUT ▶ keys to step through the inputs, or hold the key down to step through several.

If your WAKONDA has a phono input, these are the inputs available:

- Cd CD player input
- Au Aux input
- t1 Tape deck 1
- t2 Tape deck 2
- dA distributed audio (when multi-room option is fitted)
- Ph Phono input
- tu Tuner input



Alternatively, if your WAKONDA is not fitted with a phono input, these are the inputs that will be available:

- Cd CD player input
- A1 Aux input 1
- A2 Aux input 2
- t1 Tape deck 1
- t2 Tape deck 2
- dA distributed audio (when multi-room option is fitted)
- tu Tuner input



The display will show the input you have selected and the LISTEN indicator will light. There is a short delay as you step through inputs while the volume fades down and then up again between inputs. While the volume is fading, the LISTEN indicator dims. The lower the volume control setting the shorter this delay will be.

VOL▼▲VOL

TO CHANGE THE VOLUME press and hold the ▲VOL or VOL▼ Keys until the desired volume level is reached. The VOLUME indicator will light, and the volume will be displayed as a number from 0 to 60. Above step 4, each volume step is 1 dB.

MUTE

TO MUTE the WAKONDA press the MUTE key. The music will fade out and the MUTE indicator will light.

TO UNMUTE the WAKONDA press the MUTE key again. The previous volume setting will be displayed, the music will fade up and the MUTE indicator will go out. Pressing either of the ▲VOL or VOL▼ keys will also unmute the WAKONDA.

LISTEN

TO DISPLAY THE CURRENT INPUT when the display is asleep or is showing the volume, press the LISTEN key once. The LISTEN indicator will light and the current input will be displayed. Pressing ◀INPUT or INPUT ▶ will also display the current input, if it is not already displayed.

RECORD

TO SELECT AN INPUT TO RECORD press the RECORD key. If the LISTEN indicator lights, press RECORD again. The RECORD indicator will light, and the display will show the input currently selected for recording. Select the input you want to record by using the ◀INPUT or INPUT ▶ keys. The selected input is now fed out of both tape outputs. You can listen to one source while you record another. ◀INPUT and INPUT ▶ will continue to control the input you are recording until you

press LISTEN again, or ▲ VOL or VOL ▼, when they will revert to controlling the input you are listening to

The remaining functions, which are less commonly used, involve pressing two keys at the same time. These functions are printed in darker grey on the pairs of keys involved, apart from line output mute which is activated by pressing the two centre keys.

◀ BAL BAL ▶

TO CHANGE THE LEFT/RIGHT BALANCE press the pair of keys marked ◀ BAL and BAL ▶ at the same time. The BAL indicator will light, and the balance is displayed below.

Fully Left	Left	Centre	Right	Fully Right
9-	1-	00	-1	-9

To change the channel balance, press and hold ◀ BAL or BAL ▶ as required. To return these keys to controlling the volume press ◀ BAL and BAL ▶ at the same time. The BAL indicator will go out and the VOLUME indicator will light. Pressing LISTEN, ◀ INPUT or INPUT ▶ will also return these keys to controlling the volume the next time they are pressed.

MONO

TO PLAY A MONO SOURCE press the pair of keys marked MONO. The MONO indicator will light. The WAKONDA will remain in mono until you press the pair of MONO keys again.

LINE OUTPUT MUTE

TO SWITCH OFF THE SPEAKERS WHILE YOU LISTEN TO HEADPHONES press the two centre keys at the same time. The MUTE indicator will flash softly. The speakers will stay off until you press the two centre keys again.

RECORD LOCK

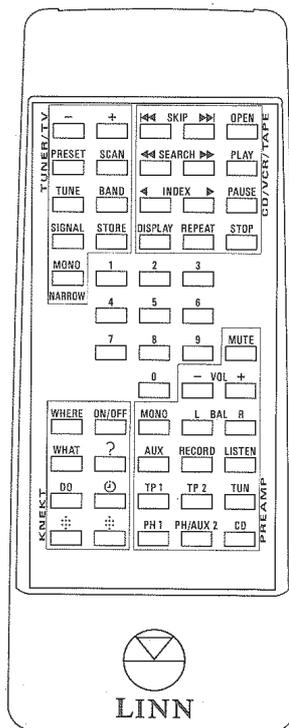


TO LOCK THE RECORD INPUT if a KNEKT multi-room line driver option is fitted press the **INPUT** ► and **RECORD** keys at the same time. This will stop remote control commands from other rooms in the house affecting your WAKONDA and potentially disrupting the recording. The **RECORD** light will flash softly to indicate that the record input has been locked. When you have finished recording, press this pair of keys again to enable remote control from other rooms. The **RECORD** light will stop flashing. Without the line-driver fitted, this pair of keys has no effect.

USING THE REMOTE CONTROL

The WAKONDA is supplied with a standard handset which controls the amplifier and provides basic control for other Linn source components and the Linn KAIRN. The larger handset supplied with the other Linn products may also be used with the WAKONDA.

Using the handset is very simple and gives you single key selection of listen and record sources, balance mono and mute.



GETTING UNSTUCK

Occasionally you may find that your WAKONDA fails to respond the way you expect when you press a key. This will often be because you have pressed a key you didn't intend to which makes your WAKONDA behave in an unfamiliar or unexpected way. You can, of course, just turn it off and start again but, as so often, a little patience, some intuition and, when all else fails, real understanding, will be amply rewarded.

The WAKONDA can be in one of four control modes - VOLUME, BALANCE, LISTEN or RECORD. In any of these modes it can be fully MUTED or speaker MUTED. It can also be in MONO or not. All you have to do to understand the current control mode of the WAKONDA is check the row of indicator lights.

MUTE If this indicator is on, the WAKONDA is fully muted. No sound will come from the speakers or the headphones. To unmute the WAKONDA, press the **MUTE** key.

If the **MUTE** indicator is flashing, the line outputs are muted (although the headphone socket is not). You can unmute the line outputs by pressing the two centre keys.

VOLUME When this indicator is lit the WAKONDA is in VOLUME control mode, and pressing the **▲VOL** or **VOL▼** keys will display and control the volume. If the WAKONDA is muted, pressing either of these keys will cause it to unmute and return to the previously set volume.

BAL When this indicator is lit, the WAKONDA is in BALANCE control mode and pressing **◀BAL** or **BAL▶** will control and display the left/right channel balance. If the WAKONDA is muted, pressing either of these keys will cause it to unmute.

To get out of BALANCE mode press ◀BAL and BAL▶ at the same time, and the WAKONDA will revert to VOLUME mode. Or to get to LISTEN mode, press LISTEN, ◀INPUT or INPUT▶

LISTEN When this indicator is lit, the WAKONDA is in LISTEN control mode, and pressing ◀INPUT or INPUT▶ will change the input that you are listening to. If you press RECORD while already in LISTEN control mode the WAKONDA will enter RECORD control mode.

RECORD When this indicator is lit, the WAKONDA is in RECORD control mode and ◀INPUT or INPUT▶ will display and control the input that is being sent out of the TAPE-OUT sockets.



If the RECORD light is flashing, this means the WAKONDA is in RECORD-LOCK mode and will not respond to remote control commands from other rooms. To cancel RECORD-LOCK mode, press INPUT▶ and RECORD simultaneously.

MONO When this indicator is lit the WAKONDA is operating in MONO. To get back to stereo, press the pair of keys marked MONO

-- -- When no keys have been pressed for around 30 seconds, the WAKONDA will go to standby and the display will show two dashes. To awake up the WAKONDA the best thing to do is press either ▲VOL or LISTEN and then check the display to see what state the WAKONDA is in.

USEFUL INFORMATION

CUSTOMISING YOUR WAKONDA There are two ways your retailer can vary the behaviour of your WAKONDA from standard:

- the display can be set to remain on all the time
- the start-up volume can be set to 15 instead of 30

Please contact your Linn retailer for any of these simple internal modifications.

PHASE The WAKONDA preamplifier preserves the phase of the signal to the power amplifier. Therefore the wiring from the power amplifier to the speakers does not need its polarity inverted.

EXPANSION We designed your WAKONDA to last you for many years and to give you unique opportunities to extend its capabilities as your needs evolve and your resources allow. At the rear of the WAKONDA, there is an expansion slot into which one of a range of SNEAKY add-on modules may be fitted. So, you could add a SNEAKY KUDOS tuner module for a high-quality radio reception. Or you could add a SNEAKY KNEKT Line Driver module to expand your WAKONDA into the heart of a multi-room system feeding other rooms in your house. Or you could fit a Local Receiver module so that the WAKONDA can integrate with a Linn multi-room system elsewhere in your house. Your Linn retailer will be happy to demonstrate the possibilities.

PROBLEMS Rarely, some kinds of computer monitors and high-frequency or low-energy fluorescent lights can effect the infra-red control range of the WAKONDA, or make it behave erratically. Such problems are very rare and your retailer will advise on a solution.

CE Declaration of Conformity

Linn Products Ltd declare that this product is in conformance with the Low Voltage Directive 73/23/EEC and Electromagnetic Compatibility 89/336/EEC as amended by 92/31/EEC and 93/68/EEC. The conformity of the designated product with the provisions of Directive number 73/23/EEC (LVD) is proved by full compliance with the following standards:

Standard number	Date of issue	Test type
EN60065	1998	General requirements Marking Hazardous radiation Heating under normal conditions Shock hazards under normal operating conditions Insulation requirements Fault conditions Mechanical strength Parts connected to the mains supply Components Terminal devices External flexible cords Electrical connections and mechanical fixings Protection against electric shock Stability and mechanical hazards Resistance to fire

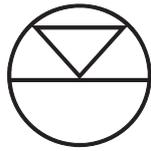
The conformity of the designated product with the provisions of Directive number 89/336/EEC (EMC) is proved by full compliance with the following standards:

Standard number	Date of issue	Test type
EN55013	2001	Conducted emissions
EN55013	2001	Absorbed emissions
EN55020	2002	Immunity

FCC notice

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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