Instructions for Use

KINGKRAFT EASIBATH

Model.....

Serial No.....

Delivery / Installation date.....

IMPORTANT SAFETY INSTRUCTONS

Please read these instructions carefully before first using your Kingkraft product, and then keep them safely for future reference. Please also make sure that each person and any carer who uses the bath is also aware of their contents and follows the instructions each time they use the unit.

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Kingkraft

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THE KINGKRAFT EASIBATH

Intended Use

The Kingkraft Easibath is intended to be used in Hospitals, Nursing and Residential Homes and Domestic properties by Occupational Therapists, Carers and the General Public.

The Easibath Range of Products are aids to assist in the bathing of injured, disabled or handicapped persons up to 133Kg (21 Stone)

The Easibath Range of Products are intended to be used to assist a Carer in the bathing, Showering and changing of a person who generally has some reduction in mobility by raising and lowering the Bath to a convenient height for the Carer(s) and also using the opening side for easy access and use as a showering or changing surface.

The Easibath is not intended for the dependent Bather to be left unattended in the Bath.

The standard Easibath is available in a choice of three standard models of 1700, 1900 and 2100.

There is an option of an integral shower with a 2m hose, or a restricted shower hose / head system. Please note different shower options are available to comply with local water regulations and bye laws. (for further advice please consult Water Regulations Advisory Scheme, WRAS, www.wras.co.uk)

Intended Use of Accessories / Options

Only specific Kingkraft accessories are intended to be used in the Easibath Range.

Cushioning and polypropylene Backrest and Kneerest accessories are for use in positioning the user in the Kingkraft Easibath. BSW120, BSW180, HS20 and HS25 cushioning may be used in other baths following a safety assessment by a competent person. (e.g. an Occupational Therapist).

IMPORTANT SAFETY INSTRUCTIONS

***WARNING:* Any person who is incapable of fully helping themselves must NEVER be left alone in the bath even for the shortest of periods.**

This manual contains information for all standard versions of the Kingkraft Easibath. Special design baths manufactured by Kingkraft may differ to those described herein. Separate instructions for these models may be required. Please consult Kingkraft Ltd. These instructions also cover the whirlpool hydrotherapy system and alternative base frame versions which are available as options. Please make sure you read all the sections relevant to your particular model of bath.

If you have any doubt about the safe operation of the bath, please contact Kingkraft immediately for advice.

- Do not stand in the bath at any time
- Kingkraft products are intended for domestic and commercial use only.
- Kingkraft baths are intended only for bathing people.
- Do not exceed the maximum loading marked on the unit.
- Only one person should be in the unit at any one time.
- Only kingkraft manufactured accessories have been tested by Kingkraft for the safe use with this bath under normal conditions of use.
- If fitted, the raise/lower control handset is waterproof but should not be put into the bath water. However, if it is accidentally dropped remove it immediately and wipe dry. Do not leave the handset underwater.

Note that UK regulations require that, in general, no person should lift a mass of greater than 25kg unaided. Use appropriate lifting equipment if this is required to help disabled people to get in and out of the bath.

Your bath must be installed by competent installers. If you have to move or re-install the bath for any reason, please take care to read the requirements given in the installation section. Contact Kingkraft for advice if you need any further information or assistance.

Your Kingkraft bath should be serviced at least once per year by a competent individual. The bath and the whirlpool (if fitted) must be cleaned and disinfected regularly according to the instructions given herein.

Ensure that the safety notices / instructions which accompany your bath are properly displayed at all times. Make sure they are replaced if they become damaged or defaced. Contact Kingkraft if you need further supplies of laminated notices.

DANGER - RISK OF SCALDING:

Your Kingkraft product is manufactured using top quality components and assemblies. As an option, in order to minimise the risk of scalding, a Thermostatic Mixer Valve (TMV) can be fitted between your hot water supply and the shower (optional) and bath inlets. THESE ARE NOT FITTED AS STANDARD – PLEASE CHECK THE SPECIFICATION OF YOUR BATH AND IF IN ANY DOUBT CONSULT KINGKRAFT FOR ADVICE. The operation of these TMV's should be regularly checked, especially after any maintenance. See the section below on maintenance of your unit for further instructions. The safe temperature of the mixed water must be checked prior to bathing on each occasion – see section of filling the bath.

The standard Easibath has a mains electrical connection to power the lifting mechanism and whirlpool system (if fitted). There is a risk of electrocution if any wires become damaged and a potential fire risk if the mechanisms fail and overheat. Your bath should only be used if any powered equipment on it (eg. Whirlpool, raise/lower system etc.) is connected to a suitable power supply protected by an earth leakage circuit breaker. The electrical requirements are contained in the pre-installation instructions available from Kingkraft. Test the earth leakage circuit breaker which supplies power to your bath regularly (at least once a week), and if you are in any doubt about its operation, consult a qualified electrician before using the bath.

WARNING

RISK OF SCALDING

Although safety devices can be fitted as an option to minimise any risk of scalding, users must be aware that these are not necessarily fail safe. The temperature of the water in the bath MUST BE INDEPENDENTLY VERIFIED ON EVERY OCASION it is used and before an incapacitated person comes into contact with the water. Ideally a calibrated thermometer should be used. Please check if your bath specification includes for these mixer valves.

If thermostatic mixer valves are fitted, please refer immediately to the manufacturer if the water is too cold or too hot and do not use the bath until the problem is corrected.

If conventional hot and cold taps are fitted, please ensure that the bath water is fully mixed by hand (if cool enough) or mixer paddle to a safe temperature, prior to using the bath. WARNING! With no thermostatic valve attached there is the danger of scalding!

Certain bath additives may damage the bath, if they contain bleach or other corrosives. Use only water, normal soaps and approved cleaning agents. If in doubt, please contact Kingkraft for advice about the suitability of the additives you wish to use. Kingkraft recommend Chemgene.

Under no circumstances must acid or bleach based cleaners be used. To do so invalidates your guarantee. We recommend that your Kingkraft Bath should be cleaned with Chemgene which is available from us. See the section on cleaning below for instructions on how to safely clean your unit.

If your unit has any electrical controls, switch off the supply at the wall isolator (mains units) or disconnect and remove the battery pack (battery units only) before attempting any maintenance, including cleaning.

Do not use pressurised water jets to clean the bath and keep water jets away from the controls, pumps and the bath chassis when cleaning around the bath. Do not steam clean.

If your Easibath is fitted with a whirlpool hydrotherapy system, use only low foaming bath additives. Normal bubble baths will froth excessively with whirlpools and must not be used as they pose a serious risk of drowning / suffocation / asphyxiation to the user and many cause damage to property.

Do not attempt maintenance unless the bath is empty.

Check the Easibath frequently for damage, especially the mains lead and earth wire. If you find signs of damage, do not use the bath and contact Kingkraft as soon as possible to arrange for service and repair.

GENERAL DESCRIPTION

Bathing should be a relaxing and enjoyable process. Your Kingkraft product has been developed over a number of years and is specifically designed to be “User and Carer Friendly”.

The Easibath is designed for use as an assisted bathing bath with an optional variable height function to ease the risk of back strain for the carers and incorporating a unique fold-down side for easy access.

The fold side also allows the Easibath to be used as a general purpose changing table and a shower platform. Bathers can be undressed on the platform prior to bathing and also dried and dressed afterwards, thus minimising moving and handling.

The folding side is load bearing, and on the Hi-lift model, it is set at wheelchair height when the bath is at its lowest level. This allows direct transfer to and from a wheelchair. The Fixed height model should be installed at a height pre-determined by the customer.

The Easibath is designed to be used in conjunction with some types of mobile and over-head track hoist systems.

WARNING!

Provision MUST be made to be able to remove the user from the bath safely and quickly in case of an emergency or power failure to the bath. This must be feasible when the bath is in any of its raised positions.
(E.g. providing a floor mobile hoist in case the ceiling track hoist system fails, or to be able to hoist the user out of the bath if there is a fault / power failure when the bath is in its highest position.

The variable height adjustment (if specified) allows the bath to be raised to working heights suitable for most carers, which minimises the risk of back-strain and fatigue.

For positioning and supporting bathers, Kingkraft produce a range of quickly interchangeable inserts and supports to cater for a variety of different users. Details can be supplied by Kingkraft. These accessories must be specified following an assessment of the bathing needs of the user. Most supports can usually be trialled in the Easibath on request to Kingkraft.

With Easibaths that have the option of thermostatic mixer valves, the maximum bath and shower water temperature are pre-set and regulated by thermostatic mixer valves, incorporating over - temperature shutdown protection. Please check whether your Easibath has this option. If in any doubt, contact Kingkraft for assistance. These mixer valves may be separate discrete units positioned under the bath or they may form part of a mixer tap unit mounted on top of the bath. (A further option is for digital mixer valves which control the temperature of the water to the bath and optional shower from ‘off’ through to ‘cold’ and then to a maximum preset temperature).

Also to be enclosed with this manual are waterproofed operating and cleaning instruction sheets for wall fixing adjacent to your Easibath. Please ensure these are available for all users and that their contents are understood and the instructions are followed by all carers and users of the bath.

Optional Bather Supports and Cushioning

To ensure that the bathing process is as relaxing and enjoyable as possible whilst maintaining bather safety it is important that the correct use of bather supports is made.

Each bather's needs may be entirely different and an assessment by an Occupational Therapist should be undertaken for each user of the bath and the correct supports used. Kingkraft manufacture a range of standard and custom-built supports, some of which may have been supplied with this Easibath. Their aim is to position the bather comfortably yet securely.

Some supports rely on suckers to hold them in position.

WARNING!
The bathing cushions are made from PVC.
Please make sure the user will not have any allergic reactions to this material before use.

Some supports are attached to the base of the bath by suckers.
In all cases these suckers should be attached to the bath itself and not to any other mattress or support.

The use of suckers is designed to allow the support to be removed.
This also means that the support may move inadvertently if subjected to sufficient force by the user or if excess air appears in the PVC cover.

Extreme care is needed to ensure the supports are correctly specified and used.

The supports will also have a tendency to float.

The bather must never be left unattended in the bath, especially if using supports and cushioning.

If in any doubt about their safe use, or the degree of secure support required do not attempt to use. please contact kingkraft immediately for advice

OPERATING INSTRUCTIONS

The Easibath is mains powered and has a short life battery backup system in the event of mains power failure. This is for a one time emergency use only. The bath moves very slowly when in battery mode and should not be used until mains power is restored. (The control box is mounted underneath the middle of the bath tub, and the green power light on the control box shows if the mains power is present)

To raise bath

First check that raising the bath will not cause damage to persons or surrounding property. Then if all clear press the up button on the control panel.

To lower bath

First check that lowering the bath will not cause damage to persons or the surrounding property. If all clear press the down button.

If the unit fails to operate, check the electrical isolator switch is activated. If the isolator trips subsequently on operation then there is likely to be a fault and the bath raise/lower function should not be used further until an engineer has checked the installation and rectified any fault.

To lower bath side / door

- Turn locking handle to unlocked position
- Turn opening handle
- Push the bath side down

To lift bath side / door

- Push or pull the bath side up
- Turn opening handle to the fully closed position
- Turn locking handle to the fully locked position

Bath mattress (if supplied) -

Mattresses manufactured by Kingkraft are made from PVC with either a PVC foam filler or in the case of some cushions these may be filled with polystyrene beads.

There is a risk of floating of cushions and supports if they are not secured properly.

To secure mattress

a) Ensure that the bath bottom and mattresses / suckers are clean

b) Place mattress on bottom of bath

c) Run a small amount of water into the bath

d) Press the mattress firmly on to the bottom of the bath

When removing the mattress for cleaning take care that each sucker is prised carefully away from bottom of bath to avoid a tearing action.

Easibath backrests do not as standard have suckers attached to them. These sit on top of the base mattress as standard, and the back of the backrest 'hooks' under the lip of the top panel of the Easibath tub end.

Knee Rests are provided with suckers for attachment directly to the bath tub base. They must not be placed on any other material such as another mattress, the suckers will not secure the support properly / safely.

The Bathing Process

Before using the bath / the bather getting into the bath, the water should be turned on as described below and allowed to flow into the bath with the pop-up waste(s) open to allow any cold water to flow away. This process should be continued until the water temperature is perceived to be constant. This operation will allow the mixed water temperature to increase to the required level (if the mixer valve option is specified) and permit the carer and/or user to check that the maximum temperature is safe prior to the bather entering the bath. If the water temperature does not achieve a comfortable level there may be a fault and the bath should not be used until the fault is rectified. Turn off the water, and allow any residual water in the bath to drain. If the temperature achieved was satisfactory, the bath is now ready for filling. Close the pop-up waste by operating the push-pull lever or depress the plug itself depending on which type is fitted.

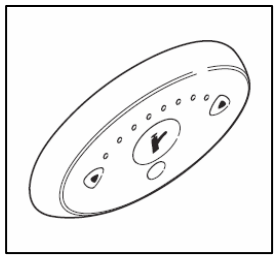
Tap / Control and Shower Options -

Hot and Cold taps:

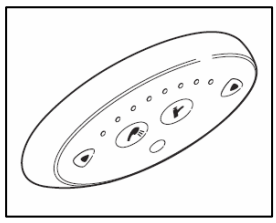
Reliance Caremix H3 Thermastatic Mixer tap:

Rada Autotherm-3 Thermastatic Mixer tap + Shower:

Rada Sense System – Bath Fill only:



Rada Sense System – Bath Fill and Shower:



CAT 3 Shower Option:

CAT 5 Shower Option:

To fill the bath

If the bath has been supplied with a *Reliance Caremix H3 Thermostatic Mixer Tap* -
Turn the mixer tap lever to start the flow of water, and leave in the desired temperature open position until the bath is full to the level required. To stop the flow turn the lever in the anticlockwise direction until the water stops.

If the bath has been supplied with a *Rada Authomerm-3 Thermostatic Mixer Tap* -
Turn the main flow lever to the right hand side of the unit, which will begin the water flow from the tap spout. To stop the flow, turn the lever to the middle position, above the spout. The temperature can be adjusted by using the temperature control knob on the top of the mixer tap.

If the bath has been supplied with a Rada Sense Digital Adjustable Mixer Valve System -
The control panel can be mounted on the bath tub, a bracket or wall mounted near to the bath.
Move your hand in front of the 'bath fill' symbol / sensor to start the flow of water. The temperature of the water can be increased by holding / waving a hand in front of the red 'hot' sensor on the right of the control panel. The temperature of the water can also be reduced by holding / waving a hand in front of the blue 'cold' sensor on the left of the control panel. Lights will indicate where between the minimum and maximum temperature the water temperature is currently set. To stop the bath filling, hold / wave a hand in front of the 'bath fill' symbol.
Care must be taken to not accidently activate the sensors when not wanted / required.

The above bath fill options should be set to a maximum temperature of 43°C when the valve control is fully turned / set at its maximum. Always allow time for the mixed water to run through the systems.

If the bath has the pre-set temperature On-Board Valves, simply open the tap on the bath to start the flow.

If the bath has conventional hot and cold taps, simply turn them both on as required to get the desired mixed temperature.

REMEMBER: THE TEMPERATURE OF THE WATER MUST BE CHECKED ON EVERY OCCASION BEFORE A PERSON IS PLACED IN THE BATH OR THE SHOWER USED.

To use the optional hand shower unit

If the bath has been supplied with a Rada Authomerm-3 Thermostatic Mixer Tap -
Turn the main flow lever to the left hand side of the unit, which will begin the shower flow. The lever automatically reduces the maximum hot water temperature by 3 degrees from the bath fill maximum temperature. The temperature can be adjusted by using the temperature control knob on the top of the mixer tap.

If the bath has been supplied with a Rada Sense Digital Adjustable Mixer Valve System -
The control panel can be mounted on the bath tub, a bracket or wall mounted near to the bath.
Move your hand in front of the 'shower' symbol / sensor to start the flow of water. The temperature of the water can be increased by holding / waving a hand in front of the red 'hot' sensor on the right of the control panel. The temperature of the water can also be reduced by holding / waving a hand in front of the blue 'cold' sensor on the left of the control panel. Lights will indicate where between the minimum and maximum temperature the water temperature is currently set. To stop the shower, hold / wave a hand in front of the 'shower' symbol.
Care must be taken to not accidently activate the sensors when not wanted / required.

The above shower options should be set to a maximum temperature of 39°C when the shower valve control is fully turned / set at its maximum.

Be aware at first that the water may be quite cold; let it run for a short time to determine the steady temperature. Always allow time for the mixed water to run through the systems.

If the bath has the pre-set temperature On-Board Valves, simply open the shower tap to start the flow.

Cleaning your bath

The Easibath is made from polypropylene plastic and requires only a very mild non-abrasive cleaning agent to keep it clean. Fitted backrests and other supports can be simply removed for cleaning. Other supports if supplied may also simply be lifted clear after sliding it and lifting off the location pegs.

Under no circumstances must acid or bleach based cleaners be used to clean this bath. To do so invalidates the guarantee

Kingkraft recommend that your Easibath should be cleaned with Chemgene® / Trigene® which is available from Kingkraft in ready to use 500ml trigger sprays or concentrated in 1ltr. and 5ltr. sizes. Always follow the instructions of the Chemgene containers.

General cleaning / disinfection:

- Use Chemgene® trigger spray pre diluted to 1:10 or any other dilution level specified on the bottle.
- As Chemgene® is considered safe and non-corrosive it can be used on every area of the Easibath and accessories. Chemgene® presents no hazard to the user in normal use.
- Leave for five minutes before rinsing off.

Mains Powered Easibath

General
The raising / lowering system uses electrical actuator mechanisms / lifting columns located under the bath powered via a controller which is connected directly to the mains power supply. A handset is provided which operates at low voltage for safety. Each pair of columns are fitted to a base plate that must be fixed to the floor.

If there is any doubt about the safety of the unit or if any cabling appears damaged, do not use it and contact Kingkraft immediately.

The handset must not be submerged or subjected to pressurised water cleaning.

If the bath is a static / fixed height version there will be no active lifting system, but a mains cable / current may still be present if the bath is fitted with a whirlpool option. If the lifting frame is battery powered, then an older design of frame will be fitted which will use a single linear actuator and not four lifting columns. Please carefully read the instructions which apply to your model.

When the lifting frame / columns are moving, the maximum load noise, 1 metre away, does not exceed 65 dBA. Maximum working load is 130Kg, including water, patient, mattress and other accessories.

Care of the unit
The system must not be overloaded by trying to raise more than one person at a time. Should overload occur, damage may be caused to the unit and it may fail to operate.

The unit is designed to operate in a bathing area but it should not be submerged and pressurised water must not be used in cleaning the components.

If any physical damage to the actuator mechanisms under the bath or cabling occurs then do not use the unit until it has been examined and rectified by a competent person and declared as safe.

Fault finding
The unit must be installed by a competent person who must connect it to a circuit breaker mechanism provided by others to ensure safety. If a fault has occurred in the electrical supply the circuit breaker is designed to cut out. The fault must be traced and rectified by a competent person before the reset switch on the circuit breaker is operated. The lifting mechanism and control system itself should not be tampered with as it is designed only for repair by a competent person. In all cases, advice should be sought from Kingkraft.

Battery Powered Frame models

General

The battery powered system uses a 24 Volt rechargeable battery which drives a linear actuator. A removable battery is supplied with the system together with a wall mounted charger which is to be installed by a competent person in a safe dry area.

To operate the raise/lower function

Firstly check that the proposed operation will not cause damage to nearby equipment or injury to personnel. Press the buttons on the hand set to raise or lower the unit as required. Releasing the button will stop the operation. (If the unit is fitted with the additional feature of a red emergency stop button, this may also be activated to cause an immediate stop. The unit will not operate until the emergency stop button has been reset) - this is done by twisting it until it clicks out.

To remove and recharge the battery

The battery clips on and off the mounting bracket on the frame by means of a release lever at the end of the battery. When the battery charge level falls to approximately 50% a warning buzzer may sound each time the unit is operated. At this stage the battery must be removed and recharged. This will ensure maximum battery life. To recharge the battery, simply unclip it and attach it to the wall mounted battery charger well away from the wet area and free from interference. A light will illuminate when the battery is charging and extinguish when charging is complete. (A further light on the charger indicates that it is connected to the mains).

Care of the unit

The system must not be overloaded. It is designed to operate with only one person at a time. Should overload occur, a cut-out may operate and the unit will not operate until the overload has been removed and the system has automatically reset itself, normally within a few seconds. Should gross overload occur, physical damage to the actuator or the bathing unit may occur and the unit may descend to its lowest point.

The unit should not be used if cabling or other components appear damaged.

The system is designed to operate in a bathing/showering area, but the components should not be submerged in water or subjected to pressure washing. Kingkraft recommend Chemgene® for disinfection of the surfaces. The components should be dry before reusing.

Fault finding
If the system doesn't operate, please check as follows.

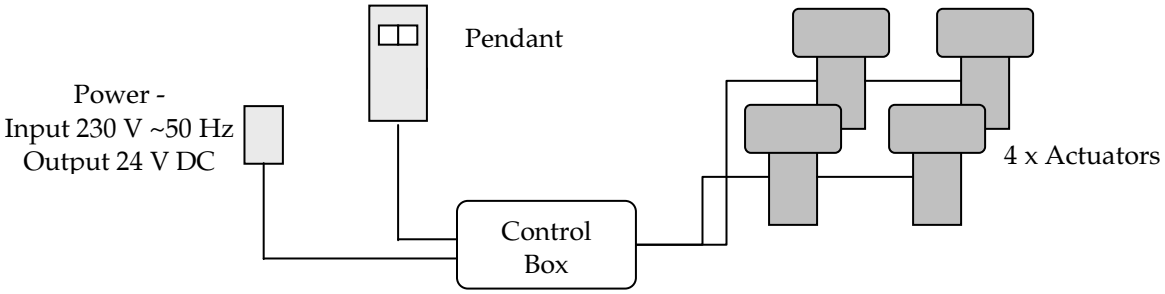
- Is the battery charged?
- Are all leads and connections fully engaged?
- Is the battery securely clamped in place?
- Has the emergency stop button been activated (if fitted)?

Should the above fail to correct the problem, please contact Kingkraft.

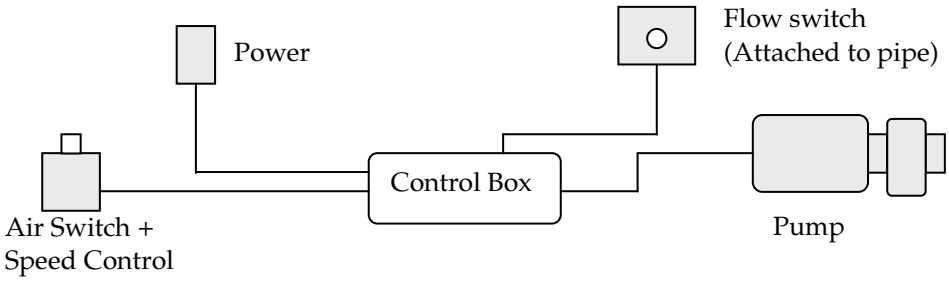
Below are diagrams representing all possible basic electrical circuits incorporated into the Bath.

Do not open the electrical boxes, unless advised by a Kingkraft engineer. Fuses should be changed by Kingkraft Engineers or qualified electricians and replaced with the correct specified fuse.
Do not immerse the power cord in water or run over it /trap it with mobile devices.

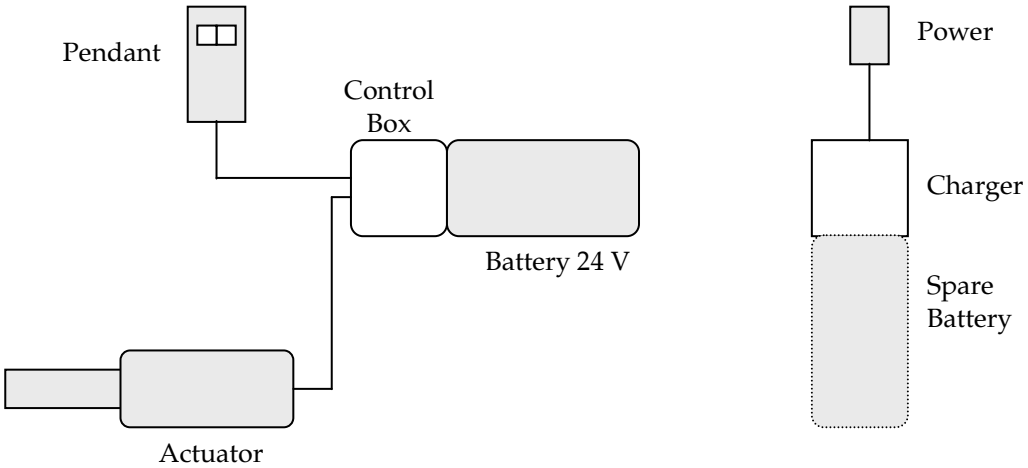
Lifting Mechanism:



Whirlpool system:



Battery Lifting Frame:



Whirlpool System Option

The whirlpool system circulates the bath water around the system producing turbulent flow in the bath. It is vital for safety and comfort that the operating, cleaning and disinfection procedures contained in these instructions are followed. Some people with heart and other medical conditions may be at increased risk when using the whirlpool. Qualified medical opinion should be sought prior to use.

Kingkraft do not recommend a whirlpool in multi-user environments due to the risk of cross infection unless a strict management and cleaning protocol is in place to ensure the system is maintained correctly.

To fill the bath
Fit the plug into the waste fitting or operate the pop-up waste mechanism. Turn open the bath filling tap and fill the bath until the water level is at least 25mm (1") above all the outlet jets in the side of the bath.

To start the whirlpool pump
To start the whirlpool pump, simply press and hold down the on/off control button which is mounted next to the head end of the bath tub.

To vary the amount of turbulence in the bath, turn the control button on the bath either clockwise to increase or anti-clockwise to decrease the turbulence.

To adjust the eyeball jets
The direction of the eyeball jets can be adjusted by placing a finger in the jet hole and turning to the desired position.

To switch off
Simply press the on/off button again, at the head end of the bath tub.

Whirlpool pump protection
Should the whirlpool system be accidentally operated at any time with insufficient water, the dry-run protection unit will automatically switch off the pump. The whirlpool system can only then be started when there is sufficient water in the bath. The Whirlpool will automatically shut off after 20 minutes. You may restart it if so required.
Always have regard to the user's medical condition and state of health when operating the whirlpool.

WARNING

Use only low foaming bath lotions. Normal bubble baths will froth excessively with whirlpools and can pose a major safety risk to the user and potentially cause damage to surrounding fittings.

Cleaning your whirlpool hydrotherapy system

It is recommended that the whirlpool system is disinfected frequently.

Kingkraft can supply 6 month 'Care Packs' whirlpool cleaner, which may be used to clean the whirlpool system. Instructions are given on the package. Other whirlpool cleaning liquids and tablets can be used.

Kingkraft also recommend Chemgene® / Trigene®, which is available from Kingkraft.

Alternative special preparations may be available from either your bathroom centre or plumbers' merchant - be sure to follow the manufacturers instructions carefully.

Please note these instructions refer only to new installations and installations that have been frequently cleaned.
It is essential that frequent regular cleaning is undertaken to help prevent the growth of organisms within the whirlpool system. The frequency of cleaning is dependent on the amount the system is used. If the system is regularly heavily soiled it may need cleaning after every use.

Chemgene® / Trigene® is used in the diluted form for general disinfection of the bath surfaces only.

As an alternative, Chemgene® / Trigene® in its concentrated form it can be used for disinfection of the whirlpool system as follows:

1. Remove all cushions, supports, backrests and mattresses from the bath.

2. Rinse any debris from the bath using a shower.

3. Close drain by operating pop-up waste control

4. Turn thermostatic mixer temperature setting to minimum.

5. Fill bath with water to a level of 25mm (1") above the whirlpool jets.

6. 2100 Model add 2.5 litres (2500ml) of Chemgene® / Trigene® cleaner

   1700/1900 Models add 2.2 litres (2200ml) of Chemgene® / Trigene® cleaner

   2300 Model add 2.7 litres (2700ml) of Chemgene® / Trigene® cleaner

7. Turn whirlpool aerator adjuster to minimum setting and run the whirlpool system for 20 minutes.

8. Drain bath.

9. Fill bath with clean water to 25mm (1") above whirlpool jets

10. Run whirlpool for 5 minutes.

11. Drain bath

12. Chemgene® / Trigene® is also recommended for general cleaning of the bath surfaces as per instructions on the pack

EASIBATH INSTALLATION

Your Kingkraft product should be only installed by competent installers. However, if you have to move or re-install the bath for any reason, please take care to read the requirements given in the Pre-Installation and Installation Instructions and the installation section below. Great care must be taken not to damage the lifting column mechanisms if moving the bath. These are easily damaged if the bath is lifted or slid from the original bath installation position incorrectly, never attempt to move the bath when the columns are in an extended / raised position. Please contact Kingkraft for advice if you need any further information or assistance.

Units with electrical services must only be wired in accordance with the IEE Wiring Regulations, especially as regards zoning and equipotential bonding. Kingkraft products are intended for operation only in a bathroom type location where exposed mains connections and unsealed switches etc. are not permitted.

The unit must not be connected via a plug and socket

The power supply to the Easibath (if powered version) must be wired into the supply via an isolator which supplies only the bath and must have double pole switching with contact separation of at least 3mm. If the isolator is not within sight of a person maintaining the bath unit, it must be lockable in the 'off' position.

We recommend that your Easibath is connected via a Residual Current Circuit Breaker (RCD/RCBO) with an operating current of not greater than 30mA

With the exception of the control handset, all parts of the bath control system which are connected to any electrical supply must be inaccessible to any person in the bath and must be fixed firmly into position.

Take care to ensure that the floor on which the bath is to be placed can withstand the full weight of the loaded bath (up to 500kg for standard specification Easibath).

Separate full Pre-Installation and Installation Instructions are available from Kingkraft.

MAINTENANCE

Issued to: KK LINAK	LINAK-UK LTD Initialisation Procedure KingKraft CU20 Software (Ref. MA-T9-00-030-rev G)	KK-IP-070226 Issue No A Issue Date 26/02/2007 Raised By JT Pages 1 of 1

This Initialisation Procedure is concerning the lifting mechanism on the following products:

Kingkraft Variable Height Easibath

If the bath will not respond to the pressing of the raise or lower buttons on the handset / membrane switch, and you can hear a beeping sound coming from the bath, you will have to follow this initialisation sequence to re-set the bath.

Failure of the mains power to the bath, or running the bath off the back-up battery only could lead to the synchronisation of the lifting columns becoming compromised, causing the system to stop working until it is reset.

Initialisation Procedure

1. Press both up and down button at the same time for at least 5 seconds. This will activate the new manual mode. The Buzzer will beep.
2. After the 5 seconds the beep will change to a shorter/different kind of beep. Release the up and down button and then press the down button only (this has to be done within 5 seconds. If not then the beep will stop and you have to start all over again from point 1).
3. During pressing the down button all columns will drive inwards. The beep will be continuous as long as the columns are driving inwards. Columns have to be driven all the way down after which the beep will stop. The System is then initialized and ready for use.

Most maintenance required by Kingkraft products is simply a visual inspection to check that the unit is in safe working order. A check-list for these items may be found below.

If you find any faults with the unit, ensure they are rectified immediately and in any event before the bath is next used. If in doubt about any repair procedure, please contact Kingkraft for advice or to arrange a service visit.

The Easibath tub and panels are constructed from white polypropylene and also uses a fire retardant GRP / gel coat as a baseboard. All cushioning PVC outer material and filler foam is also fire retardant. No naked flames are to be in the vicinity of the bath.

Thermal mixer valves (TMVs) if fitted require special maintenance and testing to ensure they are safe and continue to operate effectively. These requirements are set down in the Department of Health guidance document *'Safe' hot water and surface temperatures*, published by HMSO, ISBN 0-11-322158-4. Under special circumstances, for example in a domestic dwelling, if specified by the user, the thermostatic mixing valves used by Kingkraft may not be tested to the DO8 standard or may be omitted.

The maintenance procedure for TMV's is as follows. This procedure should be carried out at least annually for baths in domestic premises, and more frequently where the bath is used by more than one person or in hard water areas.

1. Check the temperatures of the inlet and outlet for the TMV as follows:

1.1 Record the temperature of the hot and cold water (inlet) supplies;

1.2 Turn the bath fill control, to fill the bath, so the water flow is at maximum and record the temperature of the water flowing into the bath.

1.3 Set the bath fill control so that the flow of water into the bath is at a minimum and that the water temperature as it flows into the bath is as high as possible. Record the temperature of the water flowing into the bath. (N. B. do not set the flow of water so slow as to allow it time to cool down before it reaches the measuring apparatus).

1.4 While measuring the temperature of the water flowing into the bath, turn off the cold water supply to the mixer valve and record the maximum temperature reached.

1.5 Continue to monitor the temperature of water flowing into the bath after the cold water supply to the TMV has been switched off and record the final temperature reached.

1.6 Compare the temperatures measured with those recorded during the last maintenance checks on the mixer valve / tap (or with the initial commissioning temperatures which are recorded in the documentation accompanying your new bath)

1.7 If any of the temperatures has altered by more than 1°C, or if the maximum temperature recorded exceeds 43°C, the TMV requires maintenance as in section 2 below.

1.8 Retain the records of temperature measured for future reference (a sample record sheet is provided below.)

2. *Checks on the TMV*

2.1 Check all in-line and integral strainers are clean.
2.2 Check all in-line and integral check-valves and anti-back siphonage devices are in good working order.
2.3 Check all isolating valves are fully open.
2.4 Repeat stages 1.1 to 1.6. If the temperatures measured have not stabilised within a degree or two of those recorded on the last maintenance check, the valve / tap must be removed for specialist servicing. Contact Kingkraft for further advice.

Maintenance Check List / Record Bath No: _____

	Operation	Tick OK	Comments
1.	Check water path(s) clean		
2.	Fill bath with water and check for adequate operation of drain.		
3.	Check presence/legibility of warning notices		
4.	Check all labels on bath intact and legible		
5	Check frame for excess corrosion		
6	Check operation of TMV (S)		
7.	Check earth bond for metal frame		
8.	Check power supply cord for damage		
9.	Check operation of RCD		
10	Check all other wires and electrical enclosures for damage		
11.	Check pipes etc. for leaks		
12.	Check all knobs and handles securely attached		
13.	Check all controls easily operated (i.e. not too stiff).		
14.	Fill bath with water and check operation of lifting mechanism to top and bottom of travel.		
15.	Check for unusual noises or vibration when lifting/lowering bath		
16.	With bath empty and at top of travel, rock bath from side to side gently to check for loose fittings and instability.		
17.	Record date maintenance carried out		
18.	Record name of person carrying out inspection		

Record of maintenance of Thermostatic Mixer Valve(s) Bath No._____

1.	Bath/shower/basin controller? Specify	
2.	Type/model of TMV	
3.	Pre-set temperature limit	
4.	Location/access to TMV	
5.	Location of hot and cold water isolation valves	
6.	Hot water supply pressure	
7.	Cold water supply pressure	
8.	Hot water supply temperature	
9.	Cold water supply temperature	
10.	Outlet temperature at maximum flow	
11.	Maximum outlet temperature at minimum flow	
12.	Difference between maximum temperature recorded on this occasion ands at last maintenance	
13.	Date of inspection	
14.	Name of inspector	

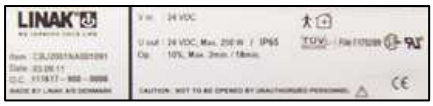
Record and maintenance action taken in the box below.

SAMPLE BATH MARKINGS

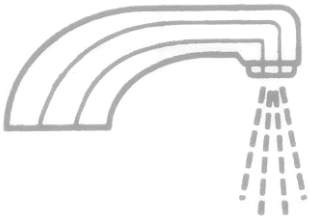
The following are examples of markings found on the Easibath.

Bath identity label

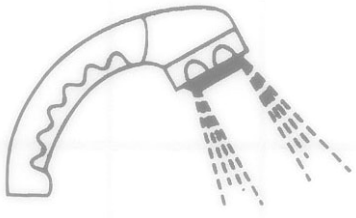
Sample Power / Actuator Labels -
(These may vary according to the specification of the bath)



Bath fill control –



Shower control (option) –



Open / lock handle direction –

GUARANTEE DETAILS

The Easibath and its accessories are guaranteed in the U.K. for a period of twelve months from the date of delivery against defects arising from faulty material, inferior workmanship or construction.

The result of incorrect handling of the bath shall not be covered by the guarantee.

In line with the company's policy of continual product improvement, we reserve the right to carry out improvements to the specification without notice.

WEEE (Waste Electrical and Electronic Equipment Regulations 2006)

The aim of this Directive is to minimise the impact of electrical and electronic equipment on the environment when products become waste. All electrical components on this product must be disposed of in accordance to the WEEE 2006 regulations, either through reuse, recovery, recycling or environmentally sound disposal.

If this Kingkraft product is at the end of its life or electrical parts are replaced during its life-cycle by people other than Kingkraft Engineers, please contact Kingkraft to discuss arrangements regarding the disposal of any of the electrical equipment.

WE PLAN + WE MANUFACTURE + WE INSTALL + WE MAINTAIN

Kingkraft

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