

KH 405 DU EZI-DRIVE



OPERATING, MAINTENANCE & CLEANING MANUAL



A  Hills Company
KEIM - 049



www.evocare.com.au

Phone: 07 33558000 Fax: 07 33555043

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SPECIFICATIONS

<u>DIMENSIONS:</u>	Length	1235mm
	Width	670mm
	Height	1315mm
	Effective lift range	430mm – 1760mm
	Leg gating (inside)	510mm – 1000mm
	Max height of C.S.P	1785mm
	Min Height of C.S.P	595mm
	Hoisting reach @ max height	600mm
	Hoisting reach @ min height	500mm
	Height of C.S.P at Max reach	1070mm
	Max reach	850mm
	Under base clearance	60mm
	Base height	210mm
	Leg height from floor	160mm
	Turning radius	1400mm
<u>LIFT SPEED:</u>	Slow - 38mm per second	
	Fast - 58mm per second	
<u>LIFT DRY WEIGHT:</u>	55 Kg (with batteries)	
<u>LIFT CAPACITY:</u>	Max load - 225kg	
<u>CASTORS:</u>	Ø150 Total lock rear polyurethane castor	
	Ø75 Swivel front polyurethane castor	
<u>FINISH:</u>	Epoxy powder coated	
	Polyurethane legs and yoke	
	PVC cover	
<u>ELECTRICAL ITEMS:</u>	Tested by Linak Australia to standards:-	
	- AS 3108-1990	
	- AS 3200.1-1990	

SAFETY PRECAUTIONS

For safety precautions only properly trained personal should use the hoist.

1. The KH 405DU Ezi-Drive is manufactured and tested to handle a **MAXIMUM** safe working load of **225 Kg.**
2. The KH 405DU Ezi-Drive is manufactured and tested with safety and function for the carer and patients as the utmost importance. No parts should be removed from the hoist without approval this may create an unsafe working condition.
3. **EMERGENCY STOP:**
The KH 405DU Ezi-Drive is fitted with an emergency stop. This is the big red switch, located on the front of the controller. If there is a need to use this, simply depress the switch and it will automatically lock the position and cut all power to the electrical system. To disengage the emergency stop switch after it has been depressed, turn the red switch in a clockwise direction and the switch should return to its original position.
4. **EMERGENCY LOWERING AND RAISING.**
The emergency lowering/raising buttons can be used to lower/raise the lifter if there is an electrical or handset failure. The switches are located on the controller under the big red emergency stop switch. Simply press (using a ballpoint pen or similar object. **DO NOT** use a pin or compass) the button which you require. To halt the process, remove the pressure applied to the switch.
5. **LIFTING OF PATIENTS.**
For safety precautions only properly trained personal should use the lifter. When connecting the sling to the patient, please ensure the fitting instructions are adhered too. (Located on the sling or in the sling instruction brochure).
6. Serial No., Model No., and Date of Manufacture are located on back cover.
7. The hoist should not be used on rough or sloping surfaces. ie. Wheel chair ramps etc and it is not recommended that the hoist be used outdoors.
8. **HOIST USAGE**
This hoist is designed to lift and transfer patients from one area to another used in conjunction with the appropriate Kerry Equipment Sling.
For further instruction consult the sling brochure supplied with your sling(s).
9. While all care has been taken to eliminate all possible trap points on the hoist, there is potential for trapping your feet between the castors and legs, to avoid injury all personnel are to keep feet clear of this area during use.
10. On a daily basis before using the hoist, check over for any damage, cracking etc. and for loose parts. This is to ensure safety for the hoist operator and patient.

OPERATING INSTRUCTIONS



Fig 4

1.1 HANDSET:

1.1a RAISE/LOWER:

The EZI - DRIVE operates via a touch pad hand controller. To raise or lower the hoist, simply press the required switch on the pad. (Fig 4)

There are four switches on the hand controller for raising and lowering.

The top two switches are for slow normal operation (tortoise); the middle two switches are for faster operation (Hare). Simply choose the speed that suits your application.

1.1b LEG GATING:

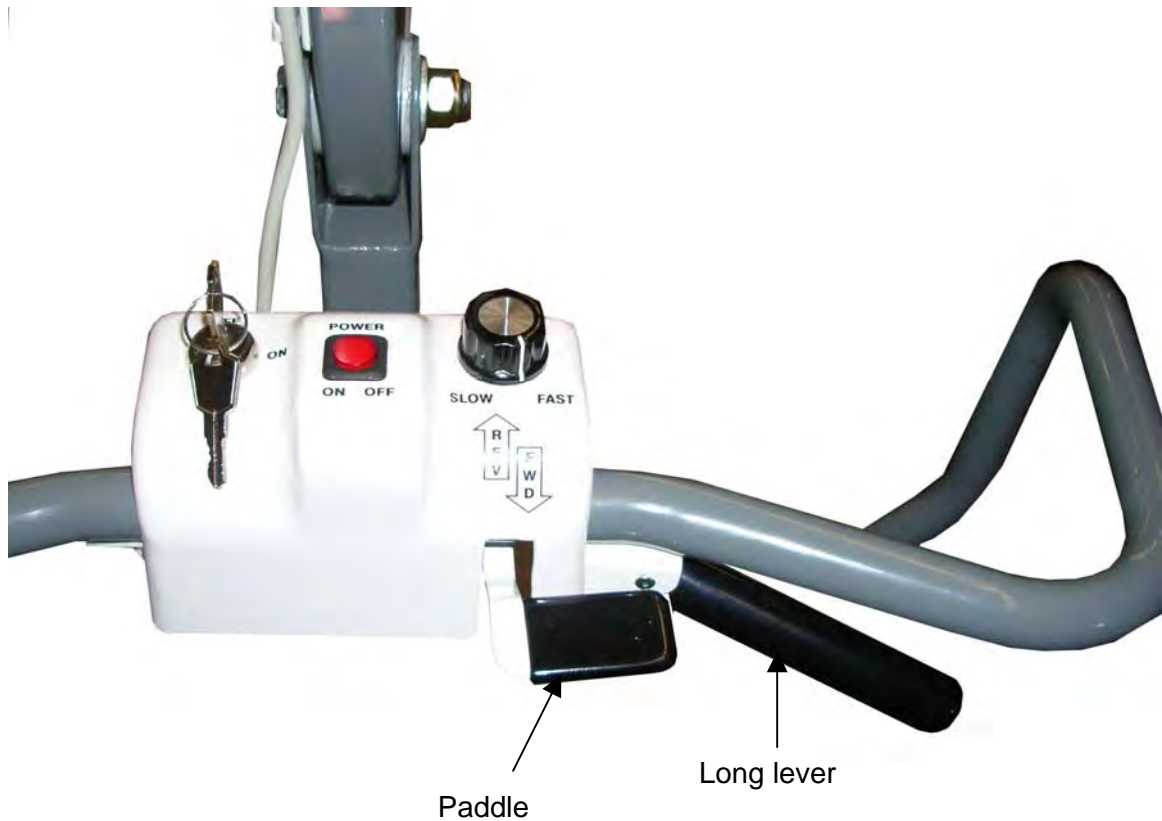
To OPEN or CLOSE the “Gate” on the legs, simply press the touch pad hand controller with the required function. (Fig 4 shows the lower set of switches that operate the leg “gate”). Open on the left, close on the right.

1.2 DRIVING:

To enable the DRIVE unit, operating procedures are as follows:

1. Insert key
2. Turn to ON
3. Push ON/OFF button, red light when on.
4. Turn speed knob to the required speed SLOW/FAST
5. Pull long lever UP onto underside of handle (lever must be enabled to operate)
6. Push paddle UP/REVERSE, DOWN/FORWARD

Red light flashes when charging is required.



1.3 YOKE - SLING MOUNTING POINTS (Fig 5)

Refer to the fitting instructions supplied with your chosen sling.



Fig 5

BATTERY CHARGING AND CARE

1. CHARGING

Before the KH 405 DU can be operated the batteries will need to be charged. Please follow the instructions below.

- 2.1 Plug the charger unit (Fig 6) into the 240-Volt supply outlet. Plug the charger into the recharge socket to start recharging (Fig 7)
- 2.2 The **POWER ON LIGHT (RED)** and **CHARGING LIGHT (ORANGE)** on the front of the charger will be displayed. The battery is fully charged when the **GREEN LIGHT** is on.

NOTE: A battery pack may remain on charge indefinitely without any detrimental effects to the battery or charging unit.



Fig 7: Recharge socket



Fig 6: Charger

3. BATTERY CARE

The KH 405 DU uses fully sealed lead acid batteries. Which are designed to be recharged on a regular basis. To care for your batteries and obtain the maximum life. **DO NOT** allow the batteries to run totally flat before recharging.

The controller is fitted with an **audio low battery warning alarm**. When this warning alarm sounds complete the lift process, then change the battery and recharge. Kerry Equipment recommends that a 2-battery system be used; this allows one battery to always be on charge while the other is in use, and hence the hoist may never be out of service with a flat battery.

MAINTENANCE INSTRUCTIONS

The KH405 DU hoist requires servicing at a recommended period of 6 monthly intervals to ensure optimal operation at all times. If the hoist is subject to large amounts of use, then it is recommended to have the hoist dismantled by a qualified service personnel and inspected for signs of wear at 2-year periods. This is dependant on use.

In the unlikely event of fault or substantial wear contact your place of purchase or Kerry equipment directly.

LUBRICATION

The KH 405 DU EZI-DRIVE require periodical lubrication. These points are:

1. CASTORS

It is always best practice to remove all hair and lint from the castors as soon as possible, always allowing free movement of all the wheels.

The castors need to be lubricated monthly (Use TAC-2 only). This involves: -

- 1.1 The Castor head bearing will need lubricating. Simply spray TAC-2 up into the bearing while rotating the castor (Fig 7).
The wheel also requires lubricating every month. To do this the wheel must be unbolted and removed from the castor frame. TAC-2 can then be sprayed into the hub centre to lubricate the internal bearings (Fig 8).



Fig 7



Fig 8

2. BASE PIVOT POINTS

All pivot points will need to be lubricated with TAC-2 or similar lubricant. Simply spray for 2 seconds on each side of the recommended points monthly.

The hoist has to be turned onto its side for access to the following lubrication points. (To do this 2 people are required.)

Follow the instruction below:

- 2.0.1 Both people are to stand on one side of the hoist. One near the push handle, the other by the side of the hoist.
- 2.0.2 The person near the push handle locks the total lock castors.
- 2.0.3 In conjunction with one another pull the hoist towards the side, lowering the hoist onto its side on the floor.
- 2.0.4 The hoist can lie on its side without damage to the plastic cover, but care must be taken when lowering/raising.

You now have access to ALL the lubrication points. ie: pivot points, leg lever, leg pivot etc.

Simply spray TAC-2 on all the pivot points for 2 seconds.

- 2.1 Leg Actuator Pivots (Fig 9)
- Leg Pivots (Fig 9)
- Tie Rod Pivot Points (Fig 9)

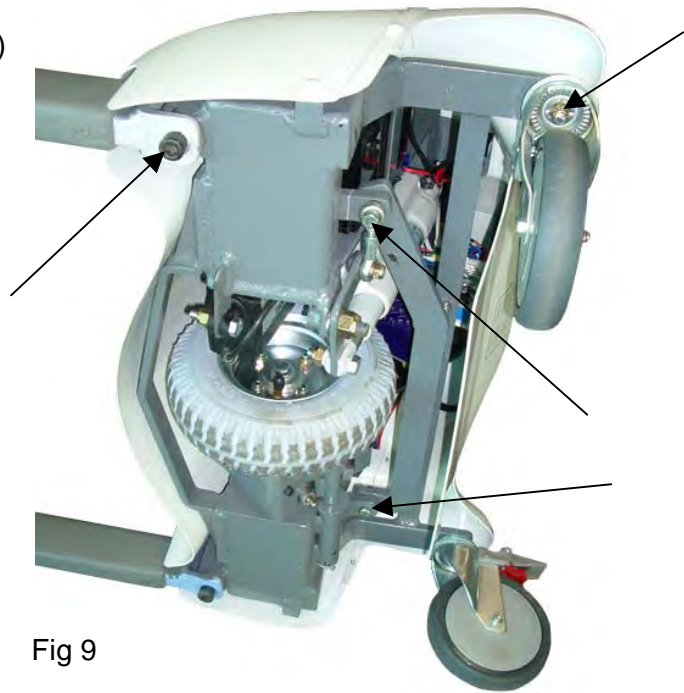


Fig 9

3. ARM AND ACTUATOR PIVOT POINTS

The arm pivot points will need to be lubricated with TAC-2 or similar lubricant. Simply spray for 2 seconds on each side of the recommended points monthly.

- 3.1 Arm Pivot (Fig 10)
- Actuator Pivots (Fig 10)

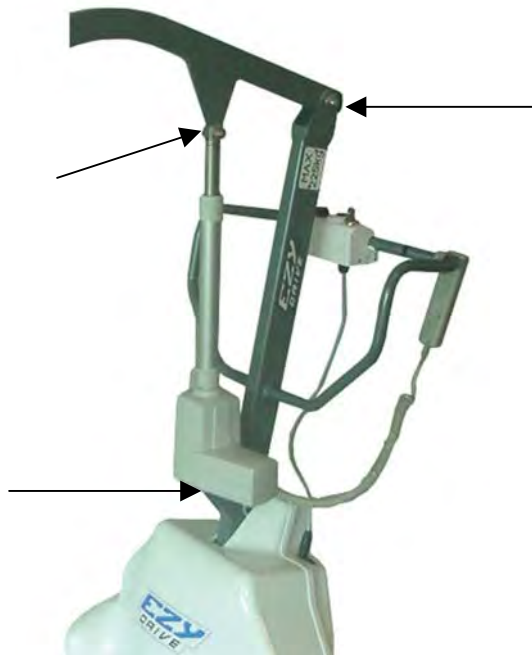


Fig 10

TAC-2 is a CRC product and is available from most automotive outlets or from Kerry Equipment.

TROUBLE SHOOTING/ASSISTANCE

LIFTER & DRIVE UNIT NOT WORKING : Ensure batteries are fully charged

Check that Emergency stop button is not depressed

Ensure key is at on position on hand control

Ensure red light is on and depressed on hand control

Check all visible connections

Check for damage to handset or unit

If problems still persist, please contact your nearest Kerry Equipment distributor or Kerry Direct on the details provided in the rear of this manual. Do not attempt to remove cover.

ASSEMBLY / DISASSEMBLY INSTRUCTIONS

Kerry Equipment fully assembles their hoist prior to delivery. Kerry Equipment only recommends qualified service personal to work or service any of their hoists. Any assembly or disassembly should be checked with Kerry Equipment and or Distributor before commencing with any repair.

GENERAL CLEANING

1. The KH 405DU Ezi-Drive can be cleaned with a low strength detergent, warm water and a soft textured cloth. This includes all Epoxy powder coated framework, PVC cover, polyurethane legs and yoke.
2. **CAUTION**
Do not immerse any parts in water.
Do not allow water/cleaning liquid to enter the battery or controller.
Clean up spills immediately.
3. **SLING CARE**
Protect from direct sunlight.
Repair any cuts or fraying immediately.
Slings are machine washable.
Please refer to care instructions on the sling.

Distributed by: -

EVOCARE AUSTRALIA PTY LIMITED

A.B.N. 98 078 566 604

Trading as **EVOCARE** and **L&M EQUIPMENT**

P.O. Box 1144, Stafford Qld. 4053

Ph: 07 3355 8000 Fax: 07 3355 5043

Website: <http://www.evocare.com.au>

E-Mail: sales@evocare.com.au

workshop@evocare.com.au



Quality
ISO 9001



Kerry Equipment (Aust) Pty Ltd
ABN 71 582 764 147

4 Halley Road
Balcatta, Perth
Australia 6021

A Hills Company

Rev. APRIL 2007

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