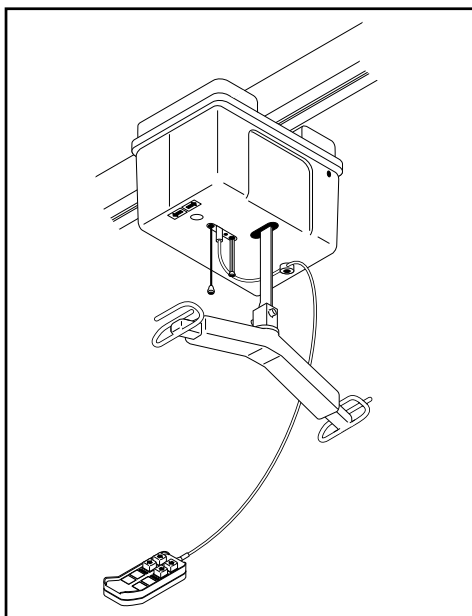


Overhead Hoists

user guide

Series 100



Wispa Hoist Models
100 Series


Invadex
Solutions for Living



Overhead Hoists

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These products have been designed to the highest standards with safety, strength and quality in mind.

Follow the recommendations in this guide to ensure maximum benefit from your Overhead Hoist. Should you experience any difficulties please consult the trouble shooting guide, prior to contacting your Overhead Hoist supplier.

Your Chiltern Invadex Hoist has been designed and tested to meet the highest standards of safety. Read the safety section of this guide prior to use. This is contained on page 2.

Intended Use of the Product

The Wispa hoist has been designed to lift and transfer a disabled person with the help of a carer. It should be used with a Wispa sling or other lifting accessories from the Chiltern Invadex range, as assessed by a trained person.

Note: Not all slings and accessories are compatible with this hoist. If you are unsure please contact your nearest Chiltern Invadex regional office.

The correct and appropriate use of this product will reduce the risks associated with manual patient handling. The lifting/transferring task should be assessed and planned by a trained person.

Safety Considerations

Safety

- Ensure that all users read this guide before operating the hoist.
- Do not operate the Overhead Hoist without training in the safe operation of the hoist and slings.
- Only use slings which have been assessed as suitable by a trained person.
- Read the relevant Sling User Guide, which is provided with each sling. It explains in detail how to use slings correctly.
- Do not use the hoist if there is any doubt about wear to the carry bar or there is fraying or stitch damage to the lifting tape or slings, or if the hoist itself is damaged in any way.
- Before using the hoist for the first time ensure the batteries are fully charged (Battery models only).
- Do not exceed the Maximum load of the hoist.
W, WB, WL, WLB models 130kgs (20 stone)
WT, WLT, WTB, WLTB models 190kgs (30 stone)

When using the Overhead Hoist

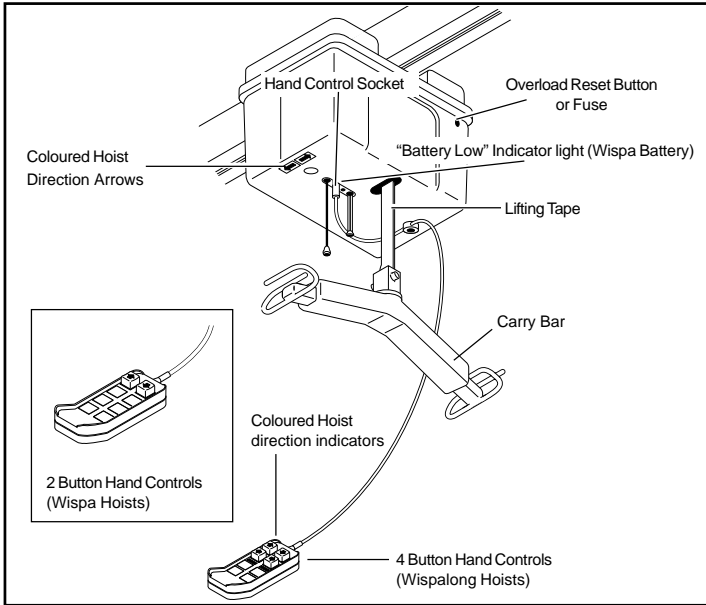
- Ensure when the hoist is in use that the surrounding area is clear and the person being lifted is clear of all objects.

- Hoists should only be used to lift vertically. Lifting at an angle will wear the lifting tape prematurely.
 - Do not leave a user unattended in the sling.
- After use
- Return the hoist to the charging position when not in use (Battery models only).
 - The outer case, mechanical parts and track should only be removed by a qualified service engineer.
 - Do not touch any of the moving parts in the hoist unit or in the track. Contact Chiltern Invadex for assistance.
 - Take care when attaching or removing a sling as the carry bar could cause injury if the user is hit in the face.
 - Do not try and lift using the emergency lowering device as this can damage the hoist.

Powered Traverse Models

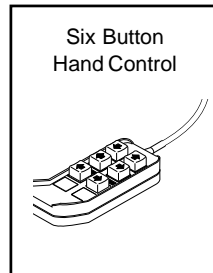
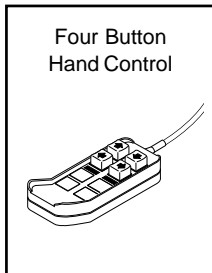
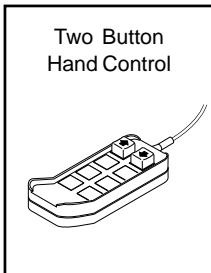
- For maximum comfort, always move the user in one movement and avoid stop/starting the hoist. Some occupants are reassured if the carer holds them whilst the hoist is traversing.

Using the controls



Hand controls

The controls use air to operate the hoist and are therefore completely safe to use with wet hands.



Please Note: The handset is the correct way round when the buttons are at the top.

Two Button Hand control used on Wispa Hoist Models

The two button hand control is used to control the lifting and lowering of the carry bar on Wispa hoist models. The lifting and lowering are controlled by the **↑** or **↓** buttons.

Four Button Hand Control used on 'Wisपालong' Hoist Models

The four button handset is used to control the raising and lowering of the carry bar and the powered traversing along the ceiling track on Wisपालong models.

The traversing function is controlled by the ← or → buttons, on the handset. The buttons are colour coded with blue and yellow. These colours correspond to the blue and yellow direction travel arrows on the underside of the hoist case.

To control the direction of the hoist, view the coloured direction arrows mounted on the hoist and press the button on the hand control which corresponds in colour to the arrow on the hoist.

The hoist must be moved away from the charging point at the end of the track before the lifting and lowering functions will operate.

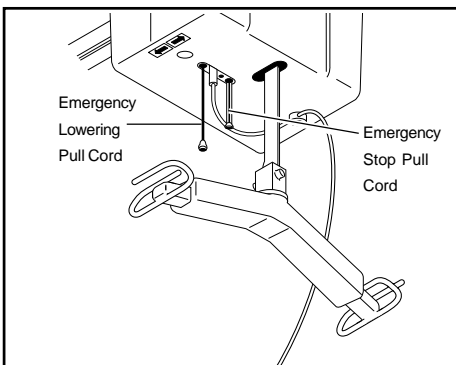
Six Button Hand Control used on X-Y Models

The 6 button hand control has the same function buttons as the four button hand control, with the addition of the tracking for the X-Y system.

The tracking X-Y function is controlled by the bottom buttons on the handset. The buttons are colour coded with blue and yellow. These colours correspond to the blue and yellow direction travel arrows on the underside of the track ends.

To control the direction of the hoist, view the coloured direction arrows mounted on the hoist and track ends and press the button on the hand control which corresponds in colour and direction to the arrows.

Emergency Stop



To operate in case of an emergency, pull the red cord to switch off the hoist completely.

To reset the emergency switch, slide the plastic tube on the red cord upwards through the hole in the case and push to reset the switch.

Emergency Lowering

In the unlikely event of a power failure or hoist malfunction the hoist occupant may be lowered using the emergency lowering cord.

To operate, pull the cord gently until 2 clicks are heard/felt. The occupant will then be slowly lowered. In certain circumstances the cord may need to be pulled more gently for just one click, to lower the occupant. If this occurs refer to the troubleshooting guide on page 8.

Do not try and lift using the emergency lowering device as this can damage the hoist.

Charging Wispa Battery Hoists

When not in use it is VERY important to return Wispa Battery hoists to the end of the track where the charging unit for the batteries is housed. To engage the hoist with the charger, simply push or traverse the hoist to the end of the track. Correct engagement is signalled when the charging light glows green. Once the hoist is engaged, charging is automatic. No further actions are required to charge the batteries. The batteries cannot be overcharged. When the Hoist is on charge the lifting and lowering functions will not operate.

Testing the Emergency Lowering Device

Please Note: The emergency lowering device uses a small battery to allow the occupant of the hoist to be lowered in the event of an emergency. Frequent testing of this device in non-emergency situations will quickly discharge the battery. The battery should be renewed at each service and after use.

Battery Low Indicator Light (Wispa Battery Hoists Only)

The battery low indicator light will glow red when the hoist's batteries are in need of charging. This is unlikely to happen unless the hoist is used for long periods of time (approximately 60 lifts) without charging, or the hoist has not been properly 'parked' in its charger, to recharge the batteries.

Battery Low Warning Buzzer (Wispa Battery Hoists Only)

If the battery low warning buzzer sounds, then the batteries need recharging before use.

Overload Reset Button

This device safeguards the hoist against overload. Should the hoist not respond to the handset controls and the battery warning light is not illuminated (Wispa Battery models), press the overload button to reset. If the hoist fails to respond contact a Chiltern Invadex regional office or your supplier.

Servicing and maintenance

European standard EN10535 requires that hoists shall be serviced every 12 months. LOLER regulations require an additional Inspection every 6 months. All inspection and maintenance work must be conducted and certificated by a competent person.

Daily checks (or before use, if used infrequently)

Chiltern Invadex and its Authorised Dealers are able to carry out all aspects of servicing or maintenance work.

Keep the service record (at the back of this booklet) up to date.

DO NOT USE IF:

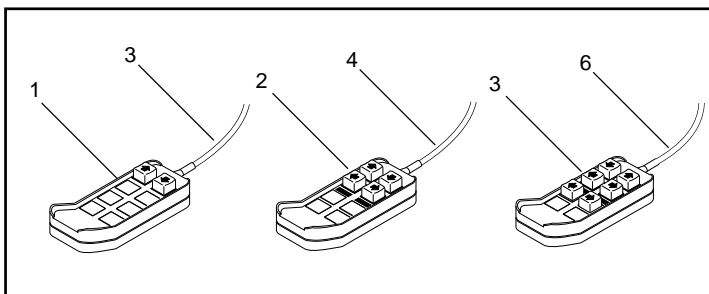
1. There is any damage to the hoist.
2. There is fraying or stitch damage to the lifting tape, or slings.

To ensure maximum cleanliness

Slings should be washed in accordance with the instructions on the label, sewn into the sling.

Parts

item	description	qty	part no
1	2 Button Hand Control	1	OHHS100
2	4 Button Hand Control	1	OHHS101
3	6 Button Hand Control	1	OHHS112
4	Airline (2 button version)	1	OHHS123
5	Airline (4 button version)	1	OHHS124
6	Airline (6 button version)	1	OHHS125



Troubleshooting

Battery models only

symptom	suggested cause	solution
Hoist lacking power	Battery power is low	Batteries need charging
Hoist makes beeping sound	Battery power is low	Batteries need charging
Red light shows on the Hoist	Battery power is very low	Batteries need charging
Green light on hoist does not work at point of charging	No power	Ensure that the power is switched on at the mains

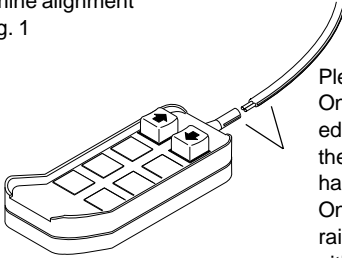
Models powered via a white curly cable only

symptom	suggested cause	solution
Hoist will not function at all	No power	Ensure that the power is switched on at the mains

All models

symptom	suggested cause	solution
Hoist will not function at all	Overloaded	Press reset button on side of hoist case (models with a fuse will require a service call at this point). Reset, see page 5.
	Emergency cords pulled	
Hoist cuts out whilst lifting	Twisted tape	Ensure that tape is not twisted and that the tape is vertical
Hoist lifts when down button is pressed	Airline connected incorrectly	Check that the top and bottom airline connections are aligned as illustrated see fig.1 on page 9. To correct this press the up button to lower the carry bar, whilst pulling down gently on the lifting tape to the end of its travel. The tape will then rewind itself correctly, or the lower cutout will operate. If the lower cutout operates the tape is wound correctly.
	Lifting tape may be reversed on the spool.	

Airline alignment
Fig. 1



Please Note:

On two button handsets the raised edge on the airline must align with the raised edges on the hoist and handset connections.

On four and six button handsets the raised edges on the air line fall either side of the raised edge on the handset.

Further assistance

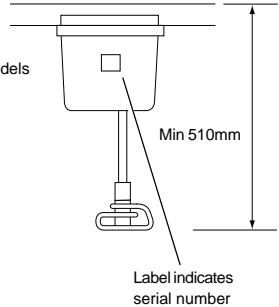
Please telephone any Chiltern Invadex regional office for further assistance.

Remember that service calls made after the guarantee period will be chargeable. If the maintenance of the equipment is the responsibility of a third party, for example the Social Services, please contact them in the first instance.

Hoist Specification

<p>Lifting capacity</p>	<p>W, WB, WL, WLB models 130 Kg (20 stone) WT, WLT, WTB, WLTB models 190 Kg (30 stone)</p>
<p>Case construction</p>	<p>Vacuum moulded Flame Retardant ABS</p>
<p>Lifting Range</p>	<p>Approximately 2000mm**</p>
<p>No of Lifts per Charge</p>	<p>60* (Battery models)</p>
<p>Battery voltage</p>	<p>24 vdc</p>
<p>Overload cut out</p>	<p><150% maximum load (All models)</p>
<p>Hand control</p>	<p>Pneumatic hand control</p>
<p>Track</p>	<p>Aluminium extruded track</p>
<p>Low battery indication</p>	<p>Audible and visual warning device on hoist (On battery models only)</p>
<p>Clearance dimension</p>	<p>Top of track to bottom of carry bar hook at max height is 510mm (see Fig A)</p>

Fig A



*600mm up and down cycle with average 70kg (11.3 stone) patient weight.

**This is adjustable and should be set by the installer to meet the requirements of the user. Typically the carry bar would stop about 300mm from the floor.

CE MARK

The Chiltern Invadex Wispa Hoist carries the CE mark and complies with EC Directives:

Medical Device Directive(93/42/EEC)

EMC Directive (89/336/EEC)

Low voltage Directive (73/23/EEC)

Warranty

Your Chiltern Invadex Overhead Hoist carries a 12 month warranty from the date of purchase, subject to the following :-

1. Should you experience any problems with our workmanship or materials within the first 12 months period please contact your point of purchase.
2. Repairs made during the warranty period will be carried out free of charge, provided the product has been used strictly in accordance with the guidelines set out in this user guide.
3. Our warranty does not cover replacements, adjustments or repairs which may be required as a result of normal wear and tear, wilful or accidental damage, misuse, neglect or any other cause which is beyond the control of Chiltern Invadex.
4. Modifications and repairs made to this product by unauthorised persons will render the warranty void.
5. Only parts manufactured or approved by Chiltern Invadex shall be used to repair this product. Use of unauthorised parts will invalidate all warranties and remove all liability from Chiltern Invadex for the safety of this product.
6. Chiltern Invadex shall in no event be liable for any damages, costs or expenses arising from any claim made under this warranty (save for any legal liability of Chiltern Invadex for death or personal injury resulting from the company's negligence in respect of its products).
7. This warranty does not affect your statutory consumer rights.

Wispa Hoist Service Record

Serviced By
(company)

address

..... post code

Engineers Name (please print) Signature

.....

Date: Load Tested To:Kgs

Comments.....

.....

Serviced By
(company)

address

..... post code

Engineers Name (please print) Signature

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Date: Load Tested To:Kgs

Comments

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(company)

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Date: Load Tested To:Kgs

Comments

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Serviced By
(company)

address

..... post code

Engineers Name (please print) Signature

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Date: Load Tested To:Kgs

Comments

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Models covered

Please fill in the information below for future reference

Dealers Name

.....

Address

.....

.....

..... Post Code.....

Telephone

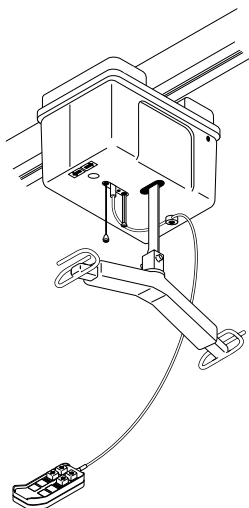
Your Serial Number is

.....

Date of purchase

.....

W
WL
WB
WLB
WT
WLT
WTB
WLTB



Overhead Hoists



Chiltern Invadex Ltd
6 Wedgwood Road
Bicester Oxfordshire
OX26 4UL

Tel: 01869 246470
Fax: 01869 247214

Web: www.chilterninvadex.co.uk
E-mail: sales@chilterninvadex.co.uk

Overseas Enquiries:
Tel: +44 (0) 1869 365545
Fax: +44 (0) 1869 365567

Chiltern Invadex (NI) Ltd
5 Balloo Way
Balloo Industrial Estate
Bangor County Down
BT19 7QZ

Tel: 028 9145 0497
Fax: 028 9127 0046

Chiltern Invadex Ltd
Unit 16 Evans Business Centre
68-74 Queen Elizabeth Avenue
Hillington Industrial Estate
Glasgow G52 4NQ

Tel: 0141 880 9986
Fax: 0141 880 9990



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