

TAURUS 200

MOBILE STANDING TRANSFER HOIST

USER MANUAL



IMPORTANT:

Do not use the **TAURUS 200** STANDING TRANSFER HOIST
Without having first read this manual.

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TAURUS 200

Overview

The **TAURUS 200** mobile standing hoist is designed to assist the less than able person transfer from a seated position to a supported standing position.

The **TAURUS 200** whilst being compact and manoeuvrable has a safe working load (SWL) of 200kg. This lifter is suited to the home environment.

The **TAURUS 200** is an electric operated hoist with ergonomic features designed with the patient and carer in mind.

An ALLEGRO standing sling specifically designed for the **TAURUS 200** is available. This sling provides maximum support and comfort for the patient.

The ALLEGRO CONCEPTS range of patient lifting equipment, including lifters, slings and accessories, has been designed and tested to comply with AS ISO 10535 – 2011, (Hoists for the transfer of disabled persons – Requirements and test methods)

IMPORTANT SAFETY CONSIDERATIONS

INTENDED USE OF THE PRODUCT

The **TAURUS 200** compact mobile patient standing / transfer hoist has been designed to lift and transfer a less able person with the assistance of a carer.

The **TAURUS 200** should be used with one of the **ALLEGRO** range of patient slings, as assessed by a competent trained person.

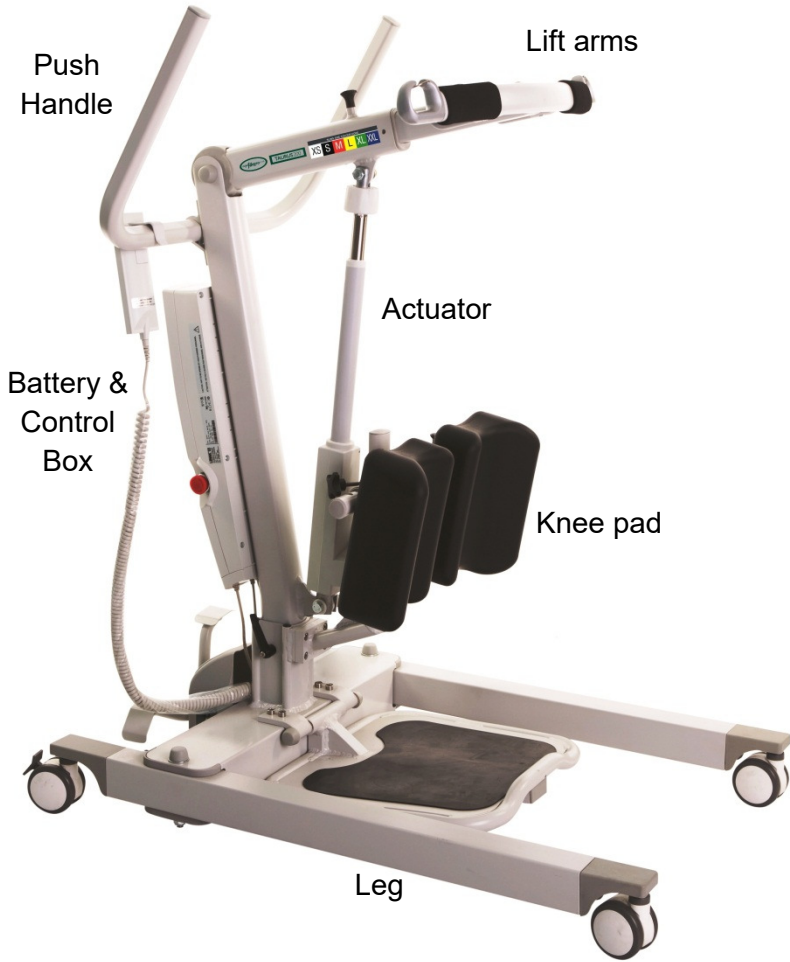
*NB. Not all slings and accessories are compatible with this hoist. If you are unsure please contact **ALLEGRO CONCEPTS**.*

The correct and appropriate use of the **TAURUS 200** hoist will reduce the risks associated with manual patient handling. The lifting / transferring task should be assessed & planned by a trained user.

SAFETY CONSIDERATIONS

- ✓ Ensure that all users read this guide before operating the hoist.
- ✓ Do not operate the hoist without training in the safe operation of hoists & slings. **IF IN DOUBT DO NOT USE.**
- ✓ Only use slings which have been assessed as suitable by a competent trained professional.
- ✓ Read the relevant sling users guide which is provided with each sling, before use.
- ✓ Do not use the hoist if there is any doubt about wear or damage to the unit.
- ✓ Do not use the hoist if there is any fraying or stitch damage to the sling or if the sling is damaged in any other way.
- ✓ **DO NOT EXCEED THE SAFE WORKING LOAD OF THE TAURUS 200 HOIST – 200kg**
- ✓ Ensure when the hoist is in use that the surrounding area is clear and the person being lifted is clear of all obstructing objects.

*The **TAURUS 200** standing / transfer hoist is not designed or intended to use with **NON WEIGHT BEARING** patients.*



Direction of Travel 

ASSEMBLY INSTRUCTIONS **TAURUS 200**

The entire **ALLEGRO** range of patient lifting and transfer hoists are fully assembled, load tested and certified at the factory before being partially dismantled for packing and shipping.

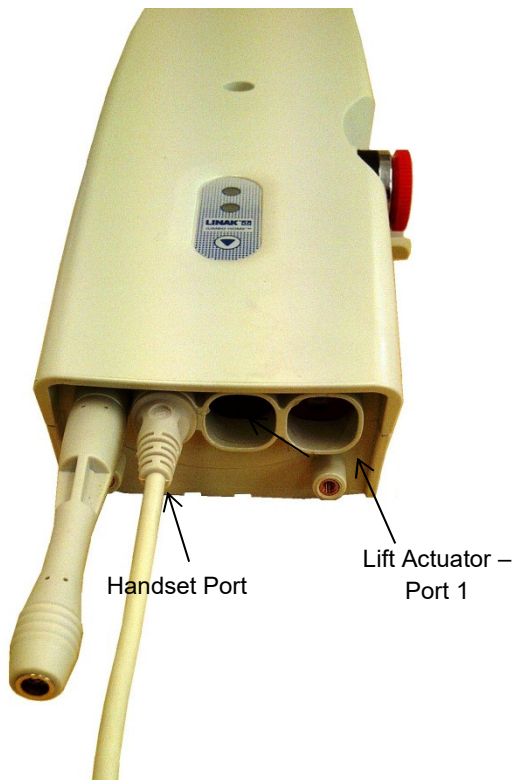
Use the instructions below as a guide to assemble your **TAURUS 200** hoist.

1. Remove lifter components from protective packing and lay out on a smooth surface to prevent damage to powder coating on lifter sub assemblies.
2. Lift the mast assembly and slide into mast holder receiving socket on base chassis. Ensure the mast assembly is completely engaged in the mast socket. Insert the locating bolt through the chassis and base and tighten the locking levers to prevent movement between mast and base chassis.
3. Attach lift actuator to jib, by aligning actuator clevis with actuator mount bracket. Insert bolt and tighten nylock nut.
4. Attach push handle assembly with bolts supplied with handle assembly.
5. Plug the lift actuator cable into port 1 positioned on the underside of the control box, ensuring it is driven firmly home in the socket.
6. Your **TAURUS 200** hoist uses a manual leg adjustment via a foot pedal. This leg adjuster does not need any further assembly.
7. Plug the handset lead into the large socket on underside of control box. (diagram 2) ensure alignment of tongue on handset plug with groove in control box handset connection port. When aligned press home firmly. A smear of Vaseline on the o ring may assist if plug is tight.
8. Check operation of lifter via handset, ensuring that the **RED EMERGENCY STOP BUTTON ON THE CONTROL BOX IS RELEASED**. Turn the knob quarter turn clockwise to release.

HOIST OPERATION AND CHARGING

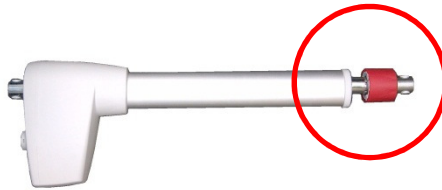
HANDSET

- ✓ The handset activates the lift actuator by the use of two low pressure buttons, protected by a strong plastic cover. These are symbolised by arrows (diagram). The arrows indicate the direction of travel to raise or lower the hoist jib. When either button is released the jib will remain in position.
- ✓ The handset is also fitted with a battery indicator light. This will flash when the batteries reach a maximum discharge of 18 volts. NB the light will only flash when the hoist is under load.
- ✓ The connection for the handset is located on the underside of the control box.



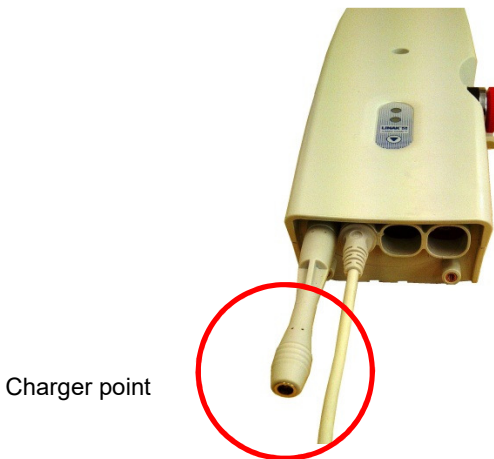
ACTUATOR

The **TAURUS 200** mobile patient lifting hoist uses a LINAK single speed actuator with an emergency controlled lowering release handle. (Twist red collar located at top of actuator shaft clockwise). This allows the patient to be lowered in the event of a fault in the hoist or deep discharged batteries.



CHARGING

The **TAURUS 200** is supplied with a power supply battery charger. This is powered by plugging the 3 pin plug into a standard 240V ac outlet and plugging cord into the control box. (refer below diagram)



CHARGING DOs & DON'Ts

DO

Do charge the battery whenever possible. This will extend the battery life. A large number of cycles can be obtained from operating on the batteries, but battery lifetime is reduced with frequent discharging.

- ✓ Do inspect all cables particularly the mains power cable on the charger for any damage; replace where necessary.
- ✓ Do stow the handset and if fitted with charger, the mains power cable when transporting the hoist.
- ✓ Do clean the actuators, control box, charger, battery and handset at regular intervals to remove dust and dirt.

DON'T

- ✓ Don't allow the batteries to fully discharge before connecting to charger. The batteries are a lead acid gel type that can be trickle charged continuously and have a high current discharge capacity. The batteries are not the nickel cadmium type and must not be periodically fully discharged. Battery life is greatly reduced by deep or complete discharging of the batteries. Longer lifetime is obtained by maintaining fully charged batteries.

LIFTING PROCEDURES

- ✓ Carer should be fully conversant & trained in the use of lifter & sling. This will decrease patient apprehension & increase their co-operation and overall safety of the lifting process.
- ✓ If possible, always pull the lifter for max safety and comfort.
- ✓ Move the hoist slowly to avoid patient swing whilst standing.
- ✓ The hoist should not be used on uneven surfaces or on an incline greater than 5 deg.
- ✓ Never leave a patient in a sling unattended.
- ✓ Ensure brakes of the chair, bed, trolley that the patient is being lifted from are locked.
- ✓ The braking castors on the lifter should be off. This allows the lifter to create its own centre of gravity (C.G.) over the weight of the patient. N.B. This action may result in the lifter moving slightly during the initial phase of the lift.

GENERAL LIFTING PROCEDURE

The information supplied below is not intended to be construed as a training manual but as a general guide to lifting procedure only.

- ✓ The **TAURUS 200** hoist utilises a special type of padded sling designed to fit around the patients lower back. It utilises a restraint belt to help prevent the sling from slipping or riding up the patients back. The restraint belt is adjustable and fastens with either a buckle or velcro flap around the chest area.
- ✓ Fit sling to patient (REFER TO SLING INSTRUCTION FOR USE).
- ✓ Manoeuvre the hoist around the patient, adjusting the legs to fit around chair, wheel chair etc. If lifting from a bed ensure under bed clearance is sufficient to manoeuvre the lifter legs.
- ✓ Lower the spreader bar sufficiently to allow fitting of sling attachment loops onto the spreader bar hooks. Ensure spreader bar does not contact with patients face or body.
- ✓ Use the handset to raise the hoist boom enough to take up the patient's weight. At this point stop the lift, check all sling attachments are secure and that the sling is positioned correctly. Check patient comfort. Lower and realign sling if necessary.

GENERAL MAINTENANCE

To prolong the working life of the lifter and for trouble free operation it is recommended that periodic inspections should be performed routinely and as often as necessary. Periodic inspections should be performed by a person who is suitably qualified and well acquainted with the design, use and care of patient lifting hoists.

If inspection reveals that the safety of the hoist is jeopardised in any way the hoist should be *IMMEDIATELY WITHDRAWN FROM SERVICE*, tagged as such and the owner notified.

MAINTENANCE GUIDE & CHECK LIST

- ✓ General visual inspection of lifter.
- ✓ Check castors are tightly attached to legs.
- ✓ Check castors run & swivel freely, remove any hair & fluff from axle.
- ✓ Check castor brakes operate efficiently.
- ✓ Over haul castors & pack with grease.
- ✓ Inspect surfaces for scratches & chips
- ✓ Clean surfacers with a neutral detergent; remove any adhesive tape with orange or eucalyptus oil.
- ✓ Examine all moving parts and fasteners for wear and fatigue, lubricate and /or adjust as required.
- ✓ NB leg pivot bushes incorporate a Teflon coated pivot bush which requires minimal lubrication.
- ✓ Check tightness of bolt in leg bushes.
- ✓ Check linkages are secure in leg adjuster ball joints.
- ✓ Check all electrical components for correct operation.
- ✓ Check battery charger operation.
- ✓ Remove dirt & dust from actuator.
- ✓ Wipe actuator shaft with oiled rag (DO NOT use WD40 or equivalent.)
- ✓ Check SPACE LINK pivot link and regrease.
- ✓ Check spreader bar/tilt frame attachment to SPACE LINK. Remove bolt & regrease. Ensure SPACE LINK and attachments move freely.
- ✓ Check mast to boom pivot point, remove bolts and lightly regrease bush and retighten, ensuring free movement at pivot.

A MAJOR SERVICE SHOULD BE CARRIED OUT EVERY 12 MONTHS AS A MINIMUM REQUIREMENT.

IMPORTANT: An annual load test to the safe working load (swl) is required for compliance with AS ISO 10535 – 2011

TROUBLE SHOOTING

WARNING TROUBLE SHOOTING SHOULD ONLY BE CARRIED OUT BY ALLEGRO CONCEPTS AUTHORISED PERSONNEL FAMILIAR WITH BOTH USE, ELECTRICAL AND MECHANICAL FEATURES OF PATIENT LIFTING HOISTS.

The following is a guideline only to general trouble shooting.

Before carrying out any trouble shooting ensure that.

- ✓ Red emergency stop button is released.
- ✓ Maintenance procedures checked & followed.
- ✓ All cable connections are secure.
- ✓ Battery is fully charged.

	POSSIBLE FAULT	ACTION
Warning buzzer sounds within control box	Flat battery pack. Faulty battery pack.	Recharge battery. Replace battery.
Battery charger power indicator LED does not light up.	No mains connection. Internal fuse blown. Battery chargers is defective.	Plug into mains. Replace fuse. Repair/replace charger.
Actuator will not run and no relay click is heard from control box.	Control box is defective. Handset defective	Replace control box.
Actuator will not run via handset but control box relays click.	Actuator plug not pushed in to control box, Actuator defective. Control box defective.	Push firmly into correct port. Replace actuator or control.
Actuator cannot lift full load or runs slow.	Batteries not charged / defective. Load too high for lifter. Actuator motor damaged.	Charge/replace batteries. Replace actuator.
No response from control box, no clicking of relays is heard.	Emergency stop button engaged. Hoist battery completely flat. Blown fuse in battery pack. Faulty control box.	Release emergency stop button. Charge battery. Replace/repair control box.
Actuator works in one direction only	Handset defective. Control box defective.	Replace handset. Repair/replace control box.

TAURUS 200 SPECIFICATIONS

Safe working load (SWL)	200kg	
Base length	980mm	
External base width	595mm	
Internal base width closed	490mm	
Internal base width open	790mm	
Base width adjustment	Manual Adjustment	
Base height / under bed clearance	110mm	
Minimum height of lift arm	890mm	
Maximum height of lift arm	1400mm	
Lifter weight	30kg	
Kneepad	Adjustable	
Footplate	Removable	
Handle height	1000mm	
Electrical approval	EN 60601-1	
Sound level	< 40Db @ 1m	
Electrical approval	EN 60601-1	
Operation force -	Finger	< 4N
	Hand	< 50N
	Foot	< 50N

WARRANTY

ALLEGRO CONCEPTS PTY LTD warrants its products to be free from defects in materials and workmanship under normal use and service and will within the period stated below, from the date of purchase, repair or replace without cost to the original customer, any part assembly or portion thereof which shall be returned to **ALLEGRO CONCEPTS PTY LTD** and from OUR inspection shows to be defective.

- ✓ Patient lifter including electronics 2 years
- ✓ Accessories on lifter 2 years
- ✓ Patient slings 1 year
- ✓ Weighing devices 1 year
- ✓ Batteries 3 months

ALLEGRO CONCEPTS PTY LTD cannot be held responsible for any personal injury, damage to the hoist or damage to property as a result of the improper or unsafe use of the product.

No warranty claim shall apply where the product or any part thereof has been modified, varied, altered or damaged either accidentally or through improper or negligent use

No warranty claim shall apply where the hoist is repaired or serviced by any persons not accredited by the authorised distributor.

Warranty does not extend to items or components which may require replacement due to normal wear and tear (e.g. castors, mouldings and paint work) for which **ALLEGRO CONCEPTS PTY LTD** nor its distributors can be held responsible.

BATTERIES

Batteries carry a limited warranty from the original manufacturer which is subject to a stringent wear and tear clause. Any battery faults due to defect in original manufacture will normally become apparent within the first two months of use.

Any gradual deterioration in performance after this period is normally associated with fair wear and tear, misuse and accidental damage, and as such is not covered by the manufacturers warranty.

SLING MAINTENANCE AND CARE

WARNING: Prior to use, inspect slings including webbing, straps and key hole buckles for wear. Examine stitching for fraying, breakage and unravelling.

DAMAGED SLINGS SHOULD NOT BE USED.

PARTS LIST AND DESCRIPTION

A full parts list is available on request

LOG BOOK

Service Type	Condition Report
Date:	
Inspected by:	
Signature:	
Action taken:	Date:

Service Type	Condition Report
Date:	
Inspected by:	
Signature:	
Action taken:	Date:

Service Type	Condition Report
Date:	
Inspected by:	
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Distributed By:



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