

# ConvaLift

FULLBODYPATIENTLIFT



**MODELS** | ConvaLift CL600E  
ConvaLift CL600E-D

## OWNER'S MANUAL

AND INSTRUCTION GUIDE



*Made in China*

*\*ConvaQuip CL600E shown*

PRODUCT  
FEATURES

ASSEMBLY

OPERATING  
INSTRUCTIONS

WARRANTY

### BEFORE USE:



Ensure the product has been assembled according to the instructions in this manual.

All operators should have received or read and understood the instructions for safe and proper operation of the patient lift.

# Thank you for choosing ConvaQuip!

To better serve you, please record  
the following information:

Supplier Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

Serial #: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

## INSPECT YOUR MERCHANDISE

Upon receipt of your ConvaLift, verify that all merchandise is complete and free from any shipping damage. Refuse delivery if the packaging appears to be badly damaged. If the merchandise is received damaged or is missing components, contact the shipping company immediately and file a claim.

# SAFETY INSTRUCTIONS



**The ConvaQuip Series of full body patient lifts reflect innovative state of the art design to increase user mobility. The ConvaLift will provide years of service if it is properly maintained as any electric and/or mechanical equipment requires. Please pay careful attention to the following important information regarding the care, maintenance, and operation of the patient lift. Carefully read these instructions before assembling the lifter, or attempting to lift a user with the device.**

***PLEASE NOTE THE FOLLOWING:***

- Special care must be taken with users/patients who cannot themselves provide assistance while being lifted. (i.e. patients who are comatose, spastic, agitated, or otherwise severely handicapped.)
- The patient lift should be used solely for transferring a user/patient from one utility (beds, chairs, toilets, etc.) to another. The patient lift should not be used for transporting or moving any patient from one location to another location.
- During lifting or lowering, whenever possible, always keep the base of the lift in the widest position.
- The base of the lift should be closed before moving the lift.
- Do not roll casters over any object while the user/patient is in the sling.
- Do not lock casters during lifting.
- While being lifted in a sling, always keep the user/patient centered over the base and facing the caregiver operating the lifter.
- Never leave the user/patient unattended during lifting.

The ConvaLift allows a person to be lifted and transferred safely, with minimum physical effort provided by the caregiver. Before attempting to lift anyone, please practice operating the lift. Also prior to actual lifting, explain the lifting procedure to the user/patient.

# DEFINITIONS & SYMBOLS

In this manual the user refers to the patient or resident and may be used interchangeably at different times. Caregiver refers to the operator or person who is assisting with the transfer.

Symbols used in this manual and their meanings:



Warning! Failure to heed this warning may result in damage to the product or serious injury to the operator and/or user.



Important instructions follow. Read and understand the instructions in the manual before using the product.



Note! Important information concerning the product and/or its correct and proper usage follows.

# PRODUCT FEATURES

## DESCRIPTION & APPLICATIONS

Designed to provide the perfect combination of patient safety, weight capacity and maneuverability. This lift is manufactured to meet the needs of the general patient population in hospitals and nursing homes. Caregivers appreciate the ease of operation and patients are reassured by the stability and overall comfort provided.

- 600 Lb. safe working loads
- Heavy duty multi tilt spreader bar
- Low base
- Digital scale accessory
- Emergency lowering device

# SPECIFICATIONS & OPTIONS

PRODUCT  
FEATURES


## CONTROL BOX      CL600E / CL600E-D

Input Voltage	220-240VAC 50Hz / 110-120VAC 60Hz
Output Voltage	24 VDC
Battery Pack	24 VDC 5AH
Control	Panel and Handset
Protection Class	IP65 / IP54
Over-duty alarm	by LCD
Battery Status	by LCD

	CL600E
Maximum Safe Load Capacity	600 Lb.
Max. height of spreader bar	81"
Min. height of spreader bar	37"
Base closed external width	27.6"
Base open external width	38"
Base height clearance	4.5"
Mast height	50.1"
Overall length	49.6"
Dual front casters	Yes
2 Point Spreader Bar	Optional
6 Point Spreader Bar	Yes
Emergency Release	Yes
Weigh Scale	Optional

*\*ConvaQuip is committed to continuous improvements of our products therefore the specs, dimensions, and features listed above are for guidance only and subject to change without prior notice.*

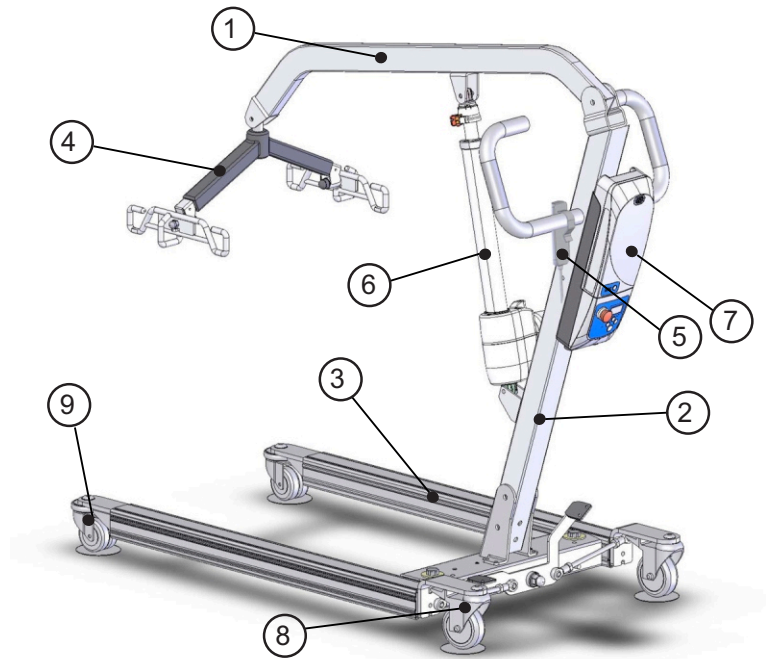
# ASSEMBLY

 Prior to assembly, unpack all parts from the shipping carton and check for any missing parts. Contact you dealer immediately if a part is missing.

ASSEMBLY

## Parts List for CL600E / CL600E-D

1. Boom
2. Mast
3. Base
4. Spreader bar w/ Sling hooks
5. Pendant / Hand Control
6. Actuator
7. Control box and Battery Pack
8. Rear Caster w/ Brake
9. Front dual casters

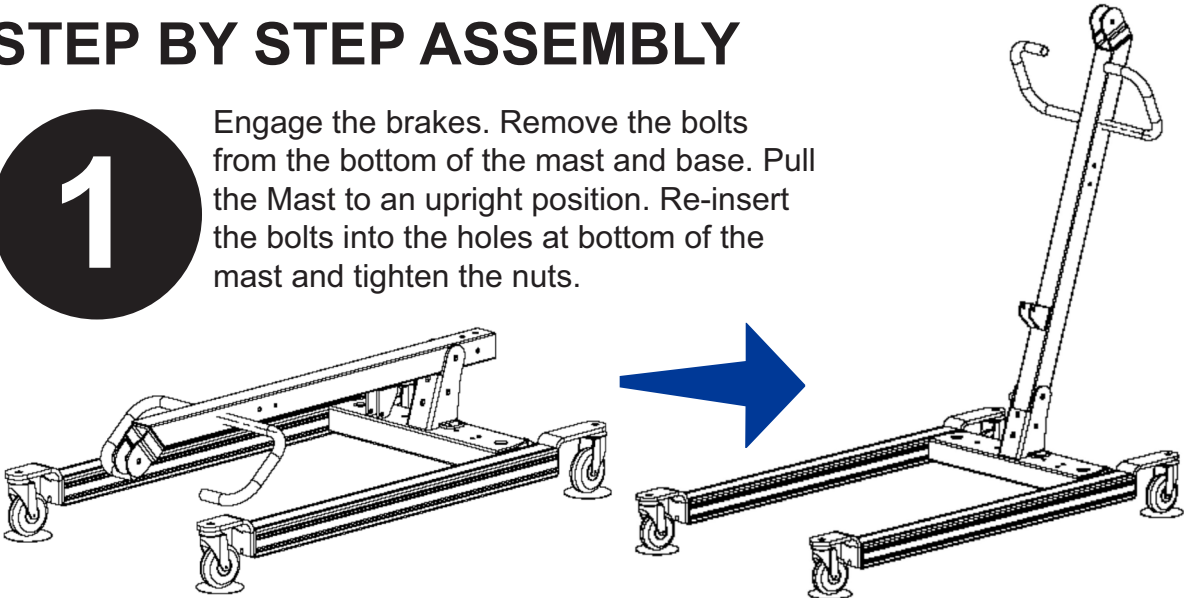


# ASSEMBLY

## STEP BY STEP ASSEMBLY

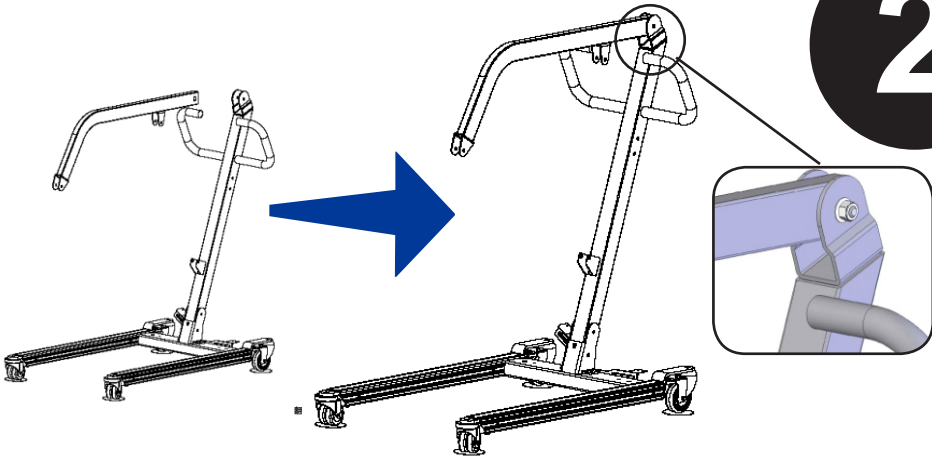
1

Engage the brakes. Remove the bolts from the bottom of the mast and base. Pull the Mast to an upright position. Re-insert the bolts into the holes at bottom of the mast and tighten the nuts.



2

Attach boom to top of mast. Re-insert the bolts into the holes at bottom of the mast and tighten the nuts.



ASSEMBLY

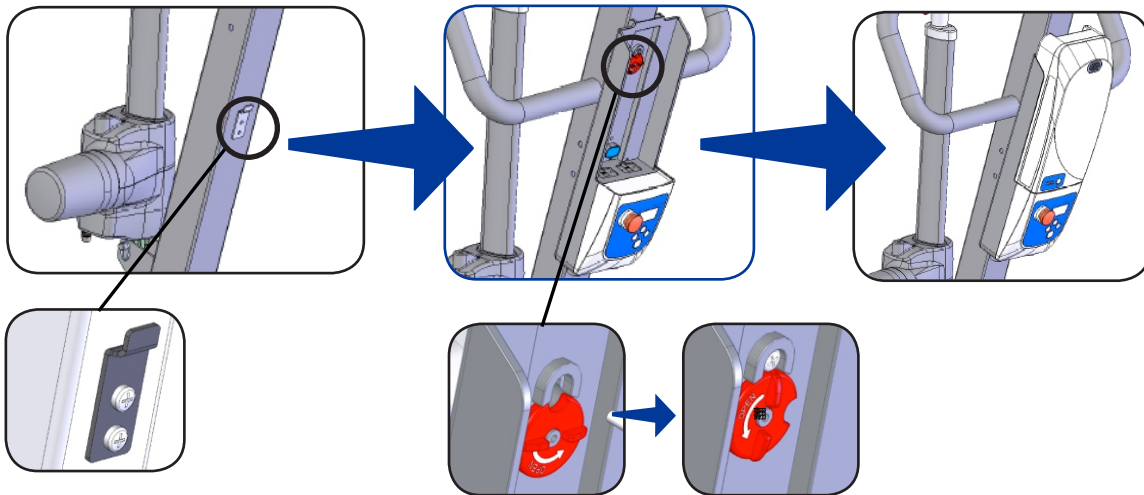


# ASSEMBLY

## 3

### BATTERY ASSEMBLY FOR CL600E / CL600E-D

Install the control box. Slide the control box over and onto the metal tab mounted at the bottom of the Mast. Line up the control box with the hole at the top of the mast and insert the screw to hold the control box in place. Secure the control box by turning the lock mechanism into the lock position.



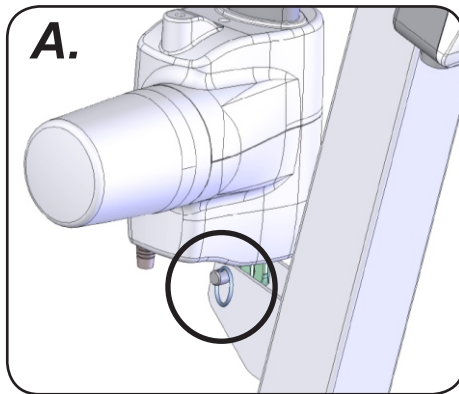
ASSEMBLY

# ASSEMBLY

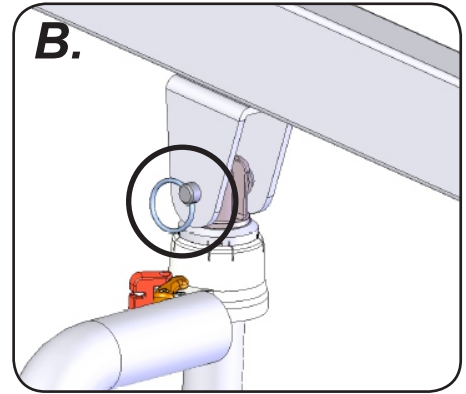
## 4

### ACTUATOR ASSEMBLY FOR CL600E / CL600E-D

**A.** Attach the bottom of Actuator to the bracket on the Mast and insert pin. Insert keeper ring through hole in pin to secure base of actuator.



**B.** Attach the top of the Actuator to the bracket on the Boom and insert pin. Insert keeper ring through hole in pin to secure actuator to upper bracket.

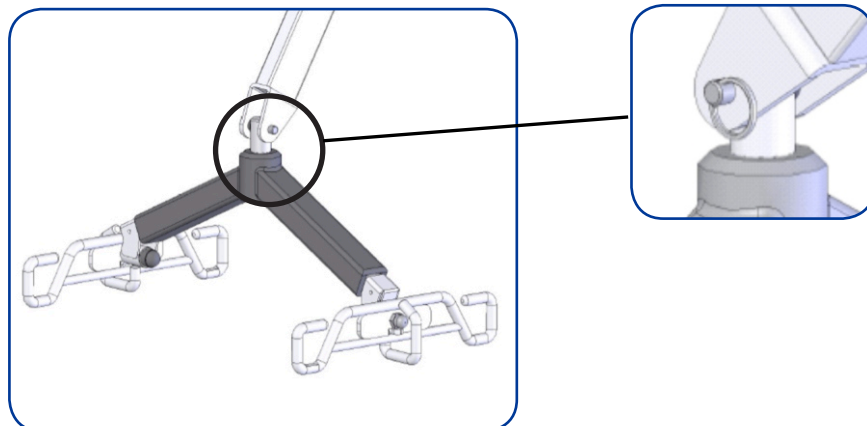


ASSEMBLY

## 5

### SPREADER BAR ASSEMBLY FOR CL600E / CL600E-D

Attach the spreader bar to the boom and insert pin. Insert keeper ring to secure spreader bar to boom.



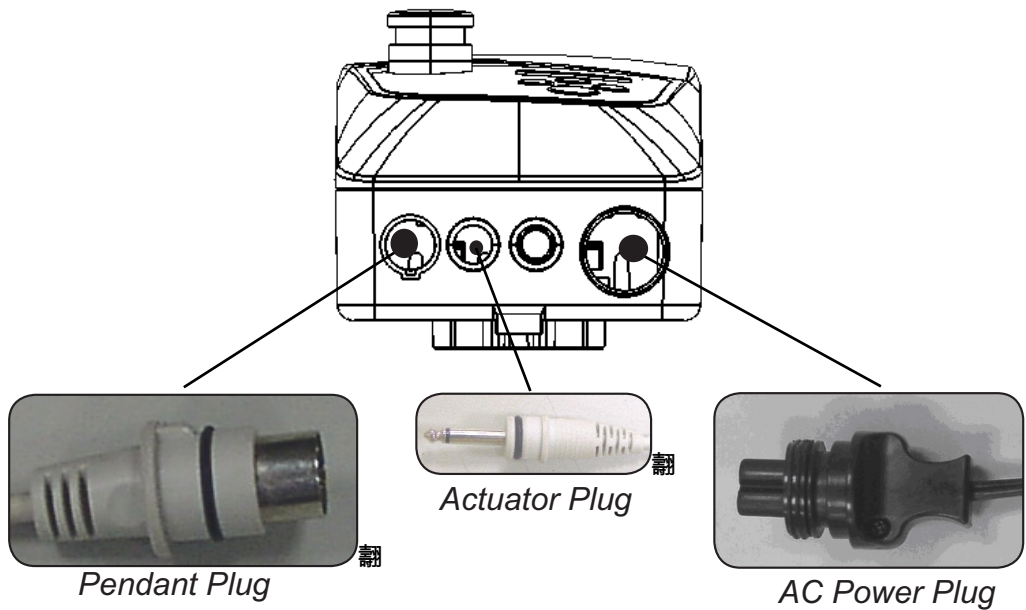
# ASSEMBLY

6

Attach actuator and pendant to the control box.

\* refer to page 14 for charging instructions

## BATTERY PLUG-INS FOR E-series



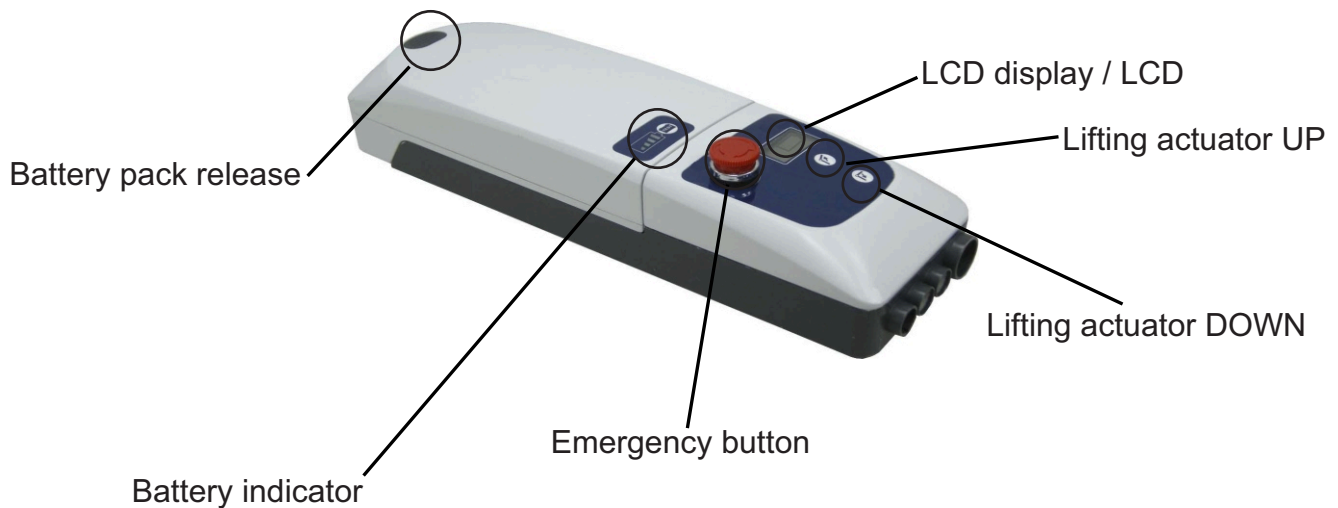
7

Tighten all nuts and make sure lift is sturdy before use.

# CONTROL BOX INSTRUCTIONS



The following instructions apply to ConvaQuip **CL600E / CL600E-D**.



## **FEATURES:**

- Smart charging function for longer battery life
- Battery capacity indicator on battery pack
- Soft start and stop for lifting actuator
- Soft and Hardware over-current protection
- Actuator's Over-duty protection with sign on LCD
- Emergency stop button interrupts the power supply to the actuators and makes the actuators stop immediately in case of sudden danger
- Control panel with two buttons (except handset)
- Internal charger
- LCD-display showing battery capacity and indication when the battery needs recharging.
- Audible alarm for low battery capacity.
- Standard protection class: IP 65
- Pulling-proof design to lock the AC plug

# LCD INDICATORS

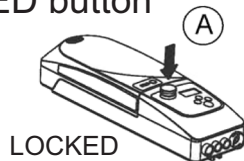
	Low Batt.
	overload
	battery volume
	overused
low battery	battery low (blinking)

	Capacity	Function
	90%	Battery is charged to around 90%
	70%	Battery is charged to around 70%
	50%	50% Battery Capacity Remaining Charge batteries immediately.
	25%	25% Battery Capacity Remaining Charge batteries immediately.
	10%	Battery is charged to around 10% Buzzer Beeps / Only lowering possible
	0%	Power off

## EMERGENCY STOP

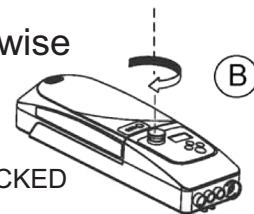
Emergency stop button interrupts the power supply to the actuators and makes the actuators stop immediately in case of sudden danger.

press RED button



LOCKED

turn RED button clockwise



UNLOCKED

**\*IT'S STRONGLY RECOMMENDED THAT THE BUTTON IS PRESSED DOWN WHEN THE LIFT WILL NOT BE USED FOR OVER 3 DAYS TO MAINTAIN OPTIMAL BATTERY LIFE AND PERFORMANCE.**



**PATIENT LIFT WILL NOT OPERATE WHILE CHARGING**

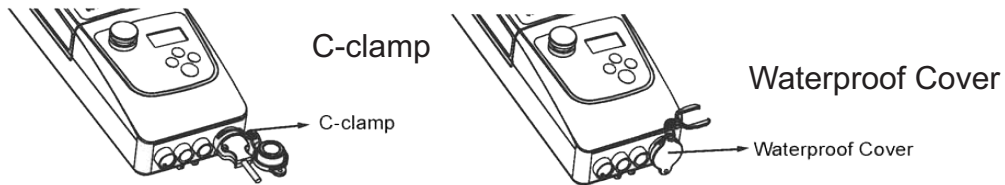
## **FEATURES OF POWER PLUG:**

### **C-CLAMP :**

- when the battery is being charged, insert this C-clamp to secure the power plug.

### **WATERPROOF COVER:**

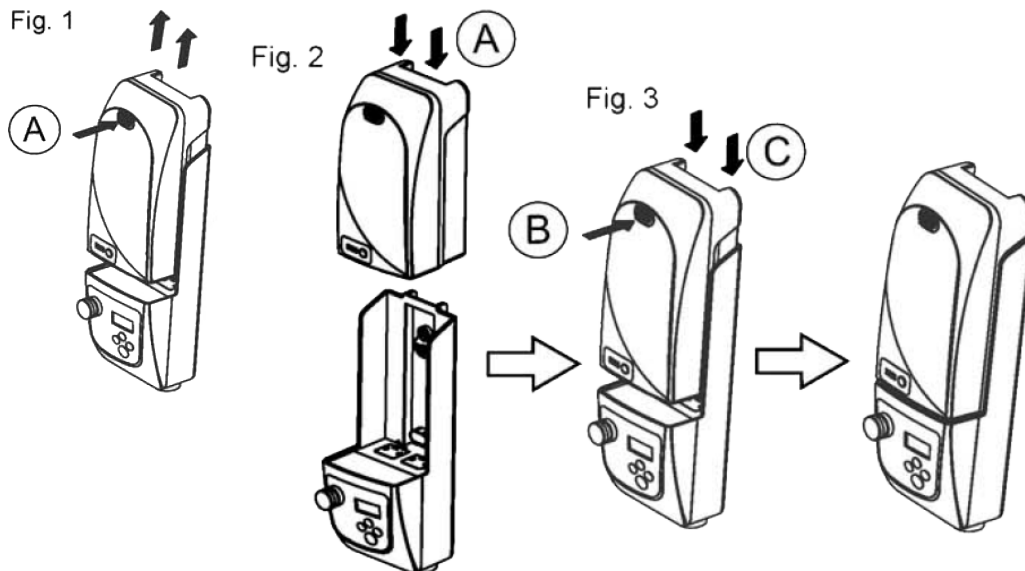
- when control is being used, this cover can be used to prevent water ingress.



## **REMOVE AND INSERT BATTERY PACK:**

**REMOVE :** press button A and pull out in the up direction (Fig.1)

- INSERT:**
- put the battery pack all the way down to position as (Fig.2).
  - while pressing the release button (A), slide into control box according to the down arrow directions.
  - make sure the battery pack won't slide back off by pulling the battery pack without pressing the release button.



# OPERATING INSTRUCTIONS



***Double check all assemblies for tightness and read operating instructions carefully prior to use.***

***Do not attempt to use patient lift unless the patient exhibits control over the upper body, strength to grasp the handles, ability to bear some weight and flexibility in knees, hips, and ankles.***



## PREPARATION BEFORE LIFTING

- Turn on the power by twisting the RED RESET BUTTON clockwise.
- Press the UP or DOWN button on the hand control once. Check if the battery indicator lights are on.
- Position the base of the lift around or under the object.
- Widen the base and engage the caster brakes.



Do not attempt to transfer a patient without prior approval of the person's nurse. Also, do not transfer without having studied the instructions and performed several practices in operating the product. Together (with the patient's doctor, nurse, or medical attendant) select a sling that is both practical and comfortable. The sling selected should be one that serves the needs of the patient, while providing the patient with optimal safety. Never interfere with the lift, unless instructed by the attendant. Have a doctor, nurse, or medical attendant (experienced in the use of the ConvaLift) present during the first few times the lift is used to transfer a new user.



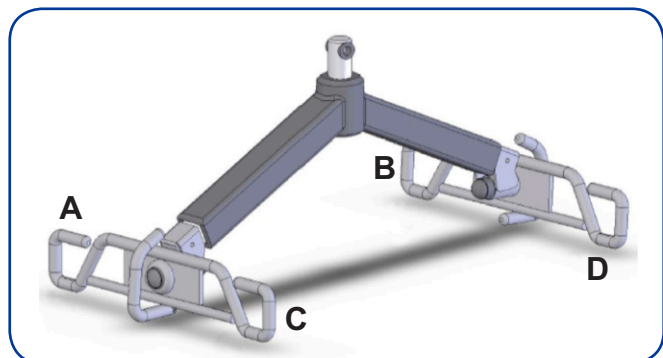
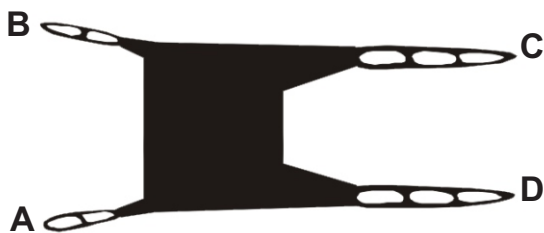
**Turn the lift “ON” by turning the red “RESET” button clockwise. Turn the lift “OFF” by pressing down the “RESET” button.**

## TRANSFER FROM BED

- User/patient should be in the center of the bed.
- Position user onto his/her side by rolling user towards you.
- Roll the sling in half, approximately. The handle on the back section should face outward when the sling is fitted.
- Position the sling under the user/patient so the commode aperture aligns with the base of the spine and top of the sling close to the neck.
- Roll user onto the opposite side and position him/her on the flat section of the sling. This will allow you to unroll the remainder of the sling from the other side of the user.
- Once the sling has been positioned centrally, feed the leg sections under the thighs and draw them up between the thighs.
- Raise the head of the bed if this function is available.
- Move the lift slowly towards the user and position the spreader bar over the user’s/patient’s chest.

## SLING ATTACHMENT INSTRUCTIONS FOR THE 6-POINT SPREADER BAR

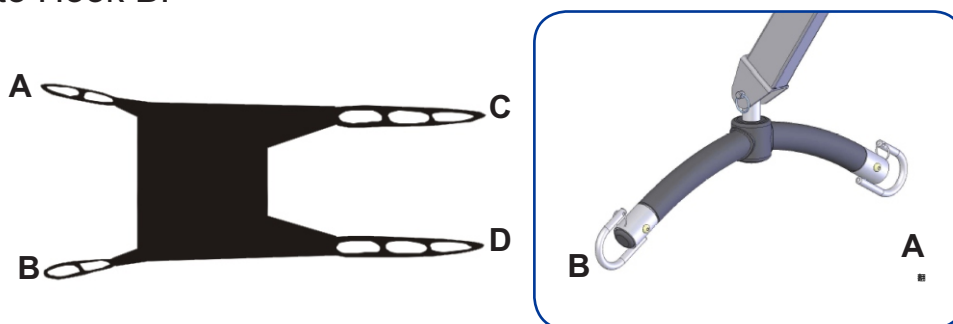
Attach Loop A of the sling to Hook A on Spreader Bar; attach Loop B to Hook B; attach Loop C to Hook C; attach Loop D to Hook D.





## SLING ATTACHMENT INSTRUCTIONS FOR THE 6-POINT SPREADER BAR

Attach Loop A and D of the sling to Hook A on Spreader Bar; attach Loop B and C to Hook B.



- Lift the user above the bed by using the hand control.
- Pull lift away from bed. Position user over the wheelchair or chair then lower the patient onto the surface.

Note: Reverse the above procedures when returning the user/patient to bed.

# MAINTENANCE & INSPECTION



- The operator of the lift shall inspect the ConvaLift before each use. Check all bolts for tightness. Make sure the base can be easily widened, and that all lift parts are in place. Make sure that casters can be turned freely, and that caster brakes can be engaged. Make certain all necessary items (i.e. slings, and wheelchairs, etc.) are ready for use.
- At least once a month, the lift should be thoroughly inspected by a person qualified to recognize any signs of wear and tear, and looseness of bolts or parts. Replace any worn parts immediately.
- To lubricate, put a drop of oil on the following points when the ConvaLift is placed into service and every month thereafter: Top of Mast, Spreader Hinge, and Caster Axles.

	FIRST RECEIVED	MONTHLY	EVERY 3 MONTHS
<b>BOOM &amp; SPREADER BAR</b>			
Check connections between Boom and Spreader Bar for improper connection, looseness, or wear	●	●	
Check connections between Boom and Mast for improper connection, looseness, or wear.	●	●	
Check the Boom for bending and deflection.		●	
<b>MAST</b>			
Check the Mast for bending or deflection.	●	●	
<b>BASE &amp; FOOT PEDAL</b>			
Check bolts and nuts for looseness..	●	●	
Check casters and axle bolts for tightness.	●	●	
Check rubber parts on the casters for deflection	●		●

	FIRST RECEIVED	MONTHLY	EVERY 3 MONTHS
<b>BASE &amp; FOOT PEDAL</b>			
Apply grease to caster ball bearings if needed.			●
Check welding joints for rust and crack.		●	●
<b>CLEANING</b>			
AS NEEDED			
<b>ACTUATOR &amp; CONTROL BOX</b>			
Make sure the control box is firmly affixed to the mast.	●	●	
Make sure the actuator is secured to the Boom and mast with pins and key rings	●	●	
Make sure actuator plug into control box is not loose.	●	●	
<b>SLINGS &amp; SLING HARDWARE</b>			
Check sling for wear.	●	●	
Check sling hardware every time before use.	●	●	

# TROUBLESHOOTING GUIDE

The following list of encountered problems and solutions will assist you in determining what may be causing your patient lift not to function as designed. If you have a problem occurring which is not listed below please contact your dealer or technical support for help. Do not attempt to repair or replace components or parts on your ConvaLift as this may void your warranty or cause further problems that may result in patient injury. Stop using your lift immediately if it is not functioning correctly or any warning beeps are heard.

## ***I need to re-charge my batteries often or they fail to hold a charge when I charge them.***

- Replace the batteries or battery pack as they are at the end of their life cycle
- Batteries should be changed every 18-24 months depending on usage

## ***The actuator will either go up or down but not both***

- Replace your hand control as it is at the end of its life cycle
- Your control box may be malfunctioning

## ***There is a grinding sound inside the actuator when lifting***

- Replace your actuator as the internal gears are stripped

## ***The actuator stops and starts while lifting or lowering***

- Replace the batteries or battery pack as they are at the end of their life cycle

## ***My lift will not operate even though it shows the batteries are charged***

- Unplug the AC power cord from the control box as the lift will not work when the control box/charger is connected to AC Power.
- Check to make sure the hand control is properly inserted all the way into the control box port.
- Check to make sure the actuator plug is properly connected and inserted all the way into the control box
- Your hand control needs to be replaced as it is at the end of its life cycle

***If there is problem you could not correct, please contact the dealer for assistance.***

# EMERGENCY LOWERING MECHANISM

In case there is a failure with the actuator or electronics and the user is left suspended in mid-air, please follow the procedures below to safely lower the user to a safer position.

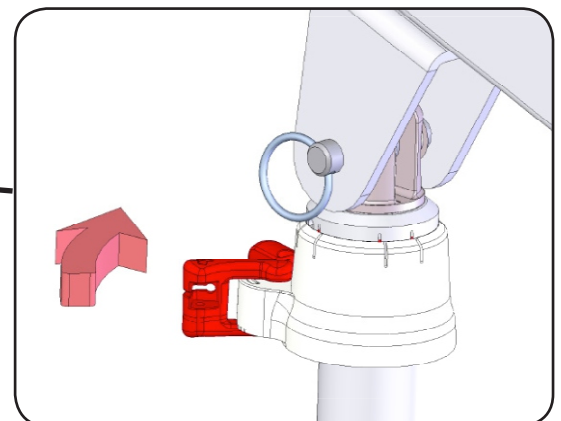
Contact your dealer immediately if standard troubleshooting techniques do not correct the failure. Do not attempt to lift until all failure and safety issues have been resolved.

The following instructions apply to the CL600E / CL600E-D

The Quick Release is implemented by a spring loaded lever mounted at the top end collar of the actuator shaft. DO NOT attempt to turn the Quick Release mechanism like a knob. This will damage the Quick Release mechanism and actuator. Manually activate Quick Release by pulling the RED lever with the arrow symbol in the direction indicated by the arrow towards the opposite red tab. This will de-clutch the actuator and lower the user safely down.

Note! When the Quick Release is activated, the boom will not lower itself unless there is weight or force applied in the downward direction.

## CL600E / CL600E-D



**Pinch pinion red tabs together**

### **NOTE:**

**THE EMERGENCY LOWERING DEVICE IS INTENDED FOR USE DURING LIFT FAILURE. THIS DEVICE WILL ALLOW LOWERING OF PATIENTS ONLY. PLEASE CONTACT YOUR DEALER IMMEDIATELY IN CASE OF FAILURE.**

# NOTES

ConvaQuip Ind., Inc.  
**WARRANTY AND RETURN GOODS POLICY**

**WARRANTY POLICY:**

ConvaQuip offers a limited warranty on ConvaLifts, slings and accessories to be free of defects in workmanship and product performance. This warranty is extended only to the original purchaser/user and is therefore non transferrable. Any warranty claims must be submitted through an authorized dealer or distributor that sold the original product with proper proof of sale and serial number supplied. Prior authorization from ConvaQuip is required for any warranty replacement and we reserve the right to replace parts and or accessories in lieu of sending complete new patient lifts. Dealers and distributors will be billed for any advance warranty replacement items shipped and credited at 100% only when the defective items have been returned to ConvaQuip and proven defective. Product returned without a ConvaQuip return authorization will be refused. Returns received 30 days after the issuance of a return authorization will also be refused as the authorization will have expired. The final disposition of warranty claims will be subject to our inspection of the returned items. ConvaQuip has the right to determine valid claims based on the individual circumstances of each claim. Warranty claims will be denied should evidence of the following be determined:

- Misuse of product , modification of product or failure to maintain as per the owner's manual
- Serial number removed or defaced
- Normal wear and tear

ConvaQuip warrants the following products and components for the time period specified:

- Lift frames and spreader bar: 3 years
- Actuator: 2 years
- Parts including casters, control box, PCB, pendant, charger: 2 years
- Batteries: 1 year
- Weigh Scale: 2 years
- Hydraulic pumps: 1 year
- Reusable slings: 6 months

ConvaQuip Single Patient Slings are designed for limited use with one patient and may not be washed. ConvaQuip will replace any disposable slings found to have a manufacturing defect. Normal wear and tear will not be covered under warranty.

**RETURN GOODS POLICY:**

ConvaQuip will allow goods to be returned only with prior authorization and a valid RA number issued by the RA coordinator. RA's will only be provided for items invoiced within 30 days of the initial RA request. All returns must be received at ConvaQuip within 30 days or the RA will expire. The returning package must be clearly marked with the RA number or the shipment will not be received or any credit issued. When a part is returned to ConvaQuip for warranty inspection a \$50 service charge will apply if the part is not defective. Returns are subject to a minimum re-stocking fee of 20% or more depending on the condition of the returned items. Where an item was ordered incorrectly according to your purchase order or the customer no longer wants the item(s) returning freight is the responsibility of the dealer/customer not ConvaQuip.

Patient lifts may not be returned unless the following has occurred:

- The wrong lift was shipped in error by ConvaQuip
- The lift is heavily damaged or defective out of the box

Please note that lifts being returned must be in the original carton and all parts and components included with the return. Failure to comply with this requirement will incur higher restocking fees or a rejection of the return. Slings, parts and accessories may only be returned if they have not been used. There are no exceptions to this provision. ConvaQuip reserves the right to issue credit amounts based on strict adherence to this policy.

