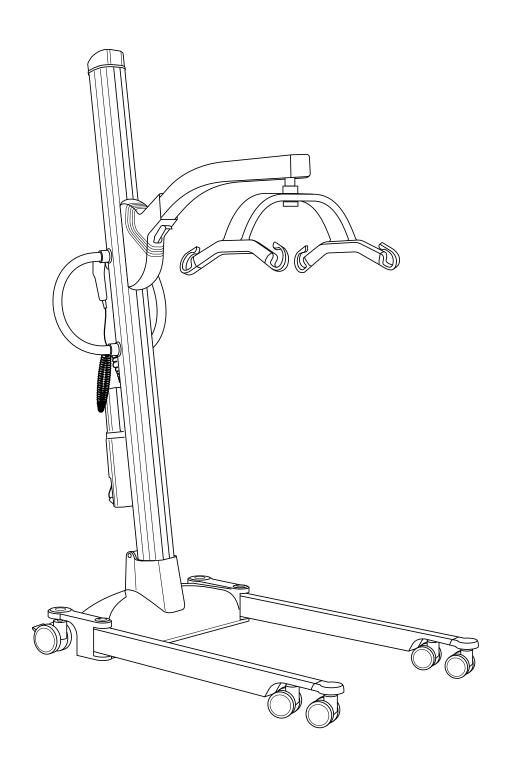
Molift Partner 255



EN - User manual

BM03101 Rev. L 2016-06-14



English Manual

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Important

This User Manual contains important safety instructions and information regarding the use of the lifter and accessories.

In this manual the user is the person being lifted. The assistant is the person operating the lifter.



Warning!

This symbol indicates important information related to safety. Follow these instructions carefully.

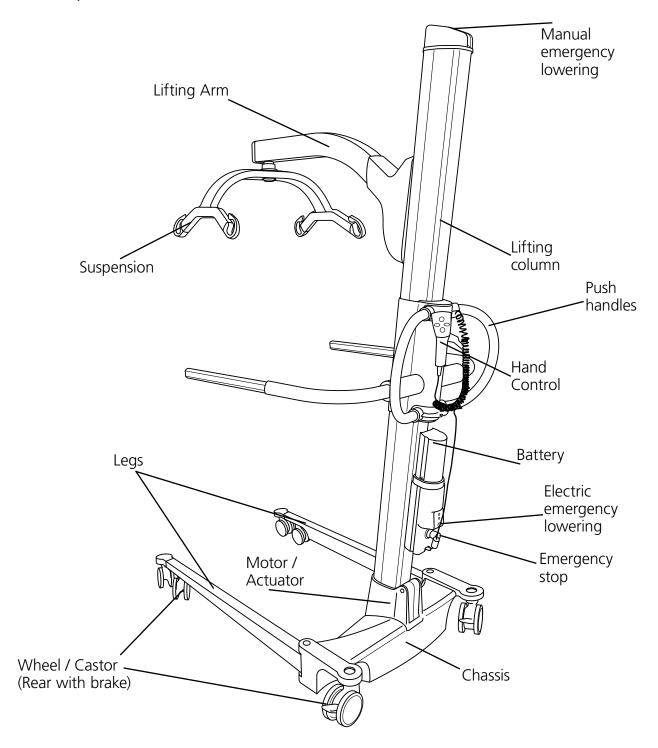


Read User Manual before use! It is important to fully understand the content of the user manual before attempting to use the equipment.

Visit www.etac.com for download of documentation to ensure you have the latest version.

Molift Partner 255

Lifter components:



About Molift Partner 255

Molift Partner 255 provides an ideal solution for hoisting with high complexity situations in acute and critical care areas in both hospitals and care facilities. With an excellent hoisting range: 37–179 cm (14.5–70.4") the Molift Partner 255 allows easy hoisting from the floor as well as high surfaces. The straight vertical column in combination with the fixed suspension provides excellent stability

and maintains the user at a good distance from the column. With a total weight of 42.5 kg (94 lbs) Molift Partner 255 is one of the lightest in its category. Combined with excellent construction design and wheel solution it becomes very easy to manoeuvre with a safe working load of 255 kg (562 lbs). Equipped with environmentally friendly NiMh-battery.

General

Declaration of conformity



The Molift Partner 255 and related accessories described in this operator manual are CE marked in accordance with EU Council Directive 93/42/EEC concerning medical devices, class 1, and has been tested and approved by a third party according to standards IEC 60601-1, IEC 60601-1-2 and NS-EN ISO 10535:2006.

Conditions for Use

Lift and transfer of a person will always pose a certain risk and only trained personnel are allowed to use the equipment and accessories covered by this user manual.

Modifications and use of components made by other manufacturers.

We recommend only using Molift components and spare parts. Declaration of conformity is not valid and Etac is not responsible for warranty if any modifications are made to the product. Etac shall not be liable for faults or accidents that can occur when using components made by other manufacturers.



Only certified personnel are allowed to open lifter or accessories to perform service or repair. Risk of injury from rotating parts and electric shock.

The lifter is not intended to be operated by the person being lifted.

Warranty

2-year warranty against defects in workmanship and materials of our products. For Terms and conditions, see www.etac.com

Product identification

Product label

The Product labels barcode contain article number, serial number and production date.



Warning labels and Symbols Symbols used on the product, explained in more detail:



Type BF applied part



CE marked



Refer to user manual



Indoor Use only



Do not dispose in general waste



Emergency lowering



Service Light



Battery Light



Certification Body mark

Technical Data

Safe Working Load (SWL)

255 kg (562 lbs)

Weight of unit

Excl. battery and suspension:

38.3 kg/84.4 lbs

Chassis: 20 kg/44 lbs

Lifting column: 15 kg/33 lbs Lifting arm: 3.3 kg / 7.3 lbs Battery: 1,6 kg/3,5 lbs

4-point Large Suspension: 3.5 kg/7.7 lbs

Battery:

Art: 1341000

26.4 V NiMH 2.6 Ah

Battery charger:

100-240 V AC, 50-60 Hz

0,9 A output

Lifting speed

42.9mm/second (1.69 inches/second)

with 75kg (165 lbs) load

Protection class

Hand control IP24 Lift motor IP24

Maximum A-weighted sound power level

$L_{WA} = 49,4 \text{ dB}$ Operating forces button

Buttons on handset: 3.4 N

Material:

Aluminum, Plastic

Motor

Lifting motor/actuator: 24 V DC Leg spreading motor: 12 V DC

Turning diameter:

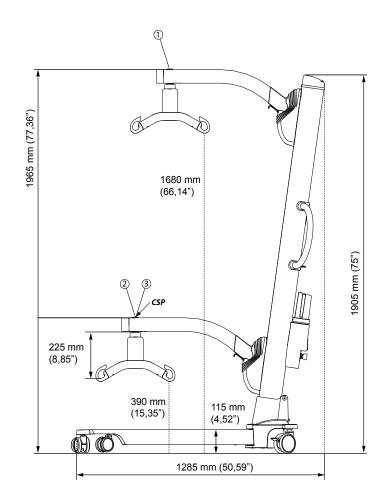
1400 mm (55.1 inches)

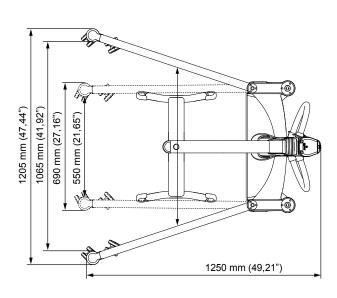
Number of lifts with fully charged battery:

50 lifts (75 kg / 165 lbs, 50 cm / 20 inches)

Expected Lifetime:

The lifter has an expected lifetime of 30 000 cycles or 10 years.





(1) Highest position: 1965 mm (77,36")

(2) Max reach: 615 mm (24,2")

(3) Lowest position: 615 mm (24,2")

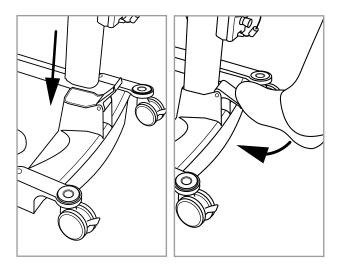
Assembly

Charge the battery. The battery must not be in the battery holder during assembly!

Lifting column

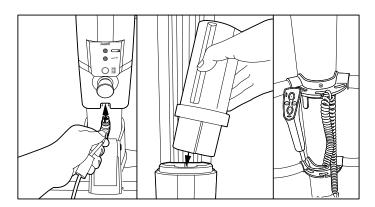
Place lifting column in chassis.

Make sure that the red arrow on the lower part of the column corresponds with the edge of chassis. Make sure screw on column is inside the hole on chassis. This will prevent the column from unintentionally being lifted out of chassis when lock handle is pushed down.



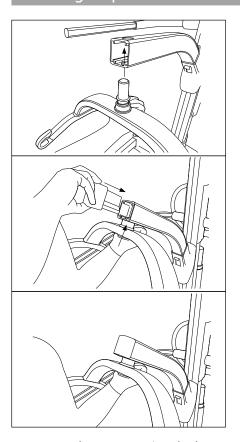
Fix the column by pushing the lock handle on the back all the way down.

Battery and Hand control



- 1. Connect hand control to bottom of battery holder.
- 2. Insert battery with terminals facing down.
- 3. Connect hand control wire to push handle bracket so it does not fall to the floor when dropped.

Mounting Suspension



- 1. Press the suspension bolt up and through the lifting arm.
- 2. Make sure the bolt is correctly alligned befeore pressing the plastic cup back on the arm.
- 3. Make sure suspension is properly fastened

Checklist after assembly



Do not start using lifter before completing control according to checklist after assembly.

Use this checklist to verify that the lifter is properly installed and can operate correctly and safely before use.

- ☐ Ensure that the lifting arm, lifting column and suspension are properly fixed and that there are no loose parts on the lifter.
- ☐ Make sure battery is charged (no lights on the battery lamps).
- ☐ Check that the lifter has no apparent damage or other faults.
- ☐ Perform one lift with load (60-80 kg)

How to use Molift Partner 255

General Safety Precautions

Only use accessories and slings that are adjusted to fit the user, type of disability, size, weight and type of transfer.

Working pause ratio/Duty Cycle.

Molift Partner 255 should not be run constantly for more than 2 minutes (with maximum load), and rest for minimum 18 minutes. Duty Cycle 10%. (Intermittence according to standard ISO-EN 10535)

Safe Working Load

The lifter is marked with Safe Working Load (SWL)



If maximum load (SWL) differs between lifter suspension and body support unit, then the lowest maximum load shall always be used



Molift lifters shall only be used to lift persons. Never use the lifter to lift or move objects of any kind.

Before use / Daily check

Inspection to be performed daily or before use:

- ☐ Make sure lifter has no visible damage, defects or deformations
- ☐ Make sure suspension connection and all detachable parts are properly connected and secured
- ☐ Test emergency stop button and emergency lowering
- ☐ Make sure battery indicator is not illuminated and service light is green

- ☐ Make sure sling strap does not have visible damage or frays.
- ☐ Make sure wheels are rolling freely and lifter is easy to manouvre
- ☐ Test run lifters operation functions and make sure lifter does not make any abnormal sounds

If there are any faults or defects, the lift needs to be taken out of operation and marked "out of order"

Hand control

The Hand control has 4 buttons for lifting and lowering of lifting arm and leg spread mechanism in and out.

The Hand control has an indicator light that will illuminate when battery level is low and the lifter requires charging

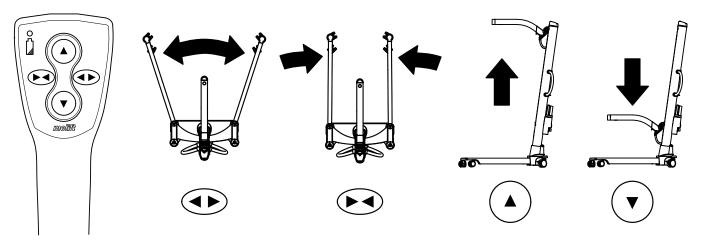
Hand Control 4 buttons Art. no. 2018004

Lifting Arm - Up / Down

NB! The lifter is most unstable in top position.

Legs - In / Out

NB! Spreded legs gives increased stability and better access to chair or toilet.



Safety devices

Molift Partner 255 is equipped with several safety devices, which are intended to prevent damage to personnel and equipment in the case of incorrect use.

The lifter has an overload sensor preventing the lifter to be operated if the load exceeds SWL.

The lifting arm is hinged to prevent the arm and suspension from squeezing the user.

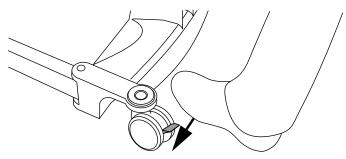
The electronics are disabled if overheated. Wait until the lifter has cooled down before using it again.

Push handles

Use the push handles to move the lifter.

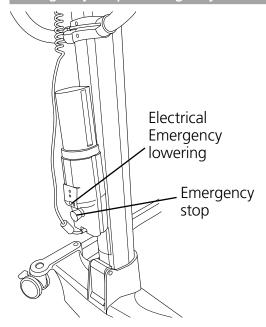
The lifter shall only be used for movement over short distances. It is not a replacement for wheelchair or similar.

Brakes



Rear wheels/castors are equipped with brakes. Step on lever to lock brakes. Flip up to unlock.

Emergency Stop / Emergency lowering



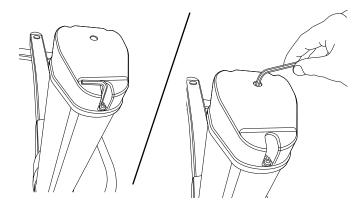
Emergency Stop

The emergency stop shuts off the power when pushed in. Turn clockwise to reset (OK to operate when the green ring is visible).

Electrical Emergency Lowering

Push and hold button for electrical emergency lowering to lower lifting arm. The electrical emergency lowering function does not work when the emergency stop is activated.

Manual Emergency lowering



There is an Allen key situated on the top of the column for the purpose of manually lowering. Push the Allen key through the hole on the top of the column, and turn until the patient is lowered down.

Remember to remove the Allen key from the hole immediately after lowering.

Contact the Molift service partner if the reason for the failure causing an emergency lowering is unknown or if it is a result of failed components or parts.

Electronics

Transport and Operating Conditions

Transport and Storage

For long time storage it is recommended that the emergency stop button is activated (pushed in). The lifter can be stored and transported under temperatures between -25 - 70 °C.

Operating

The lifter is designed for use at standard room temperatures (+5 to +40°C).

Air Pressure: 70 - 106 kPa Relative Humidity: 15 - 93 %

Following storage or transport at other temperatures leave the lifter in a room with a suitable temperature until it reaches a safe operating temperature.



Medical electrical equipment requires special precautions regarding electromagnetic compatibility (EMC). Portable or mobile radio communication equipment may affect the medical electrical equipment, and should be kept minimum 25 cm (10 inches) from the lifters electronics.

Batteries

Molift Partner 255 has a 26.4 V 2.6Ah NiMH battery. The battery has a life expectancy of approx. 500 charge cycles.



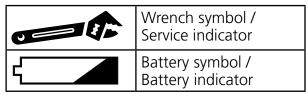
Used batteries must be disposed of as special waste according to local rules and regulations. Do not dispose in general waste



Batteries must be fully charged and depleted completely a couple of times before it achieves full capacity. Also follow this procedure if the lifter has not been in use for a long period (3-4 weeks)

Battery and Service indicator

The lifter has two indicator lights on battery holder.



The electrical system has a power save function which will turn off the electrical system after ten minutes without activity. All lights will turn off. The system is activated when pushing one of the operating buttons

Battery Light

The battery indicator light will illuminate and make a sound when battery level is low and the lifter requires charging. When this occurs the lifter will have sufficient power available for one full lifting cycle with max load. When battery is critically low it is only possible to lower the lifting arm.

Service Light

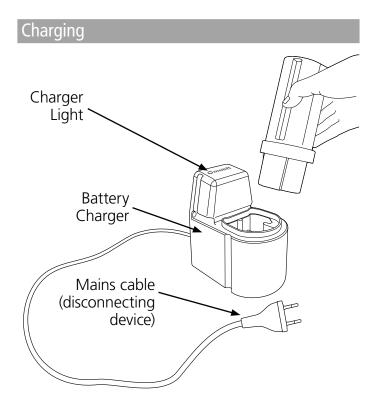
The lifters electronics record the loads lifted and number of lifts. After a certain period of operation a signal is given to indicate that service is required.

Service light	Mode
No light	Power saving (Stand by)
Green	Ready for use
Yellow	Order service
Red	Perform service
Red + sound	Perform service immediately

Service scope

Service involves replacing the lifting motor and inspection/replacement of worn parts. This must be carried out by authorized personnel.

Service is needed when the service light is red (calculated 10.000 lifts in weight class 4), or service is required after 5 years if the service counter not has displayed red yet.



Battery Charger

The battery charger can be used as a tabletop charger or mounted to a vertical wall surface close to a power outlet, minimum 120 cm above the floor. The charger has to be used outside the patient environment. The Charger must be placed or installed in a way that makes it easy to disconnect mains cable plug. Take care not to damage the cable. The charger can be connected to the power outlet at all times.

Battery Charger 12-24V Art. no. 1340100 Battery PowerPac 26,4 V NiMH Art. no. 1341000

Charger Light

Description of charger light:

Charger light	Mode
Yellow	Ready for use, no bat- tery connected
Yellow	Initialization
Red	Fast Charge
Green/Yellow	Top-off charge
Green	Trickle charge
Red/Green	Error

Transfer

Plan the lifting operation in advance to ensure that it is as safe and smooth as possible. Remember to work ergonomically. Assess the risks and take notes. The assistant is responsible for the safety of the user.

Molift Partner 255 can be used with 4-point suspension for different types of transfers; sitting, recumbent or ambulating.

Using Slings

It is important that the sling has been tested with the individual user and for the intended lifting situation.



Read User Manual for the sling prior to use.



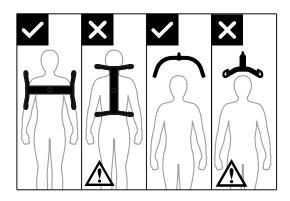
Do not to use damaged or badly worn slings.

Slings made by other manufacturers

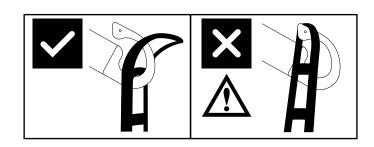
We recommend only using Molift slings. Etac shall not be liable for faults or accidents that can occur when using slings made by other manufacturers.

Lifting and lowering

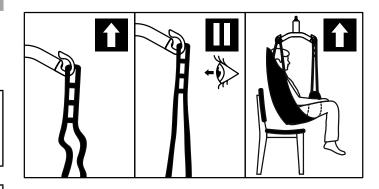
When moving the user, stand to the side of the person you are lifting. Make sure that arms and legs do not obstruct the seat, bed, etc. Keep eye contact with the user to help them feel safe.



The 4-point suspension must always be positioned across the user, to prevent the user from unintentionally sliding out of the sling.



The suspensions hook design prevents sling to be inadvertently detached when mounted correct.



- 1. Check that the sling is correctly fitted around the user and that the strap loops are correctly fitted to the suspension hooks.
- 2. Stretch the sling straps without lifting the user. Ensure that all four loops of the sling are securely fastened to avoid the user slipping or falling.
- 3. Lift user, and perform transfer.

Supporting arms (optional)

The lifter can be used for gait training with supporting arms.



Lifter can be delivered with supporting arms, or complete lifting column with supporting arms can be delivered as an accessory to swap with original lifting column.

Column with supporting arms Art. no. 1511002

Transfei



Try to position the user as low as possible (preferably resting the feet on the chassis) when transferring the lifter with a suspended user. In this way the centre of gravity will be low and reduce the risk of instability.



Never lift the user higher than necessary to carry out a lift. Remember that wheels on a mobile lift must NOT be locked.



Never leave a user unattended in a lifting situation.

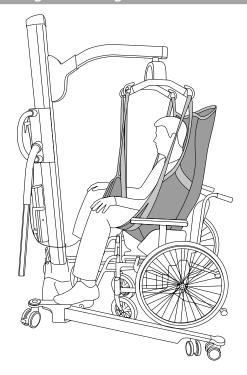
Be careful during movement, the suspended user may swing during turns, stops and starts. Be careful when manoeuvring close to furniture to prevent the suspended user from colliding with these objects.



The lifter shall not be used to lift or move users on sloping surfaces

Avoid deep pile carpets, high thresholds, uneven surfaces or other obstacles that may block the castors. The lifter may become unstable if forced over such obstacles increasing the risk of tipping over.

Lowering into sitting

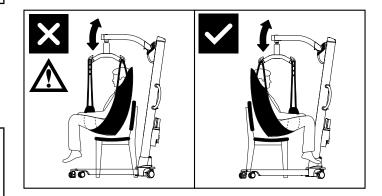


When transferring the user into sitting, the following techniques can be used when lowering the user as far back into the seat as possible:

- A Position the user with the help of the guide handle
- B Push gently on the users knees
- C Tilt the seat backwards



User must be facing lifter when lifting or lowering from or into a chair.



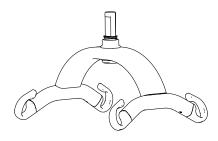
Accessories

Recommended optional equipment and accessories for Molift Partner 255.

Suspensions

Molift Partner 255 can be used with 4 point suspension.

Aluminum suspension



4-point Medium, aluminum, 420 mm,

Art. no.: 1330060

4-point Large, aluminum, 530 mm,

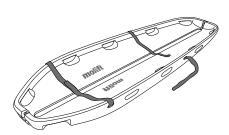
Art. no.: 1330061

8-point Large, aluminum, 1430 mm,

Art. no.: 2140002

Stretcher

The Molift stretcher can be used in combination with all Molift 4-point suspensions



Scoop stretcher MRI compatible (SWL 300 kg) Art. no.: 2150108

Scale

Molift Scale is approved Class III. The scale can also calculate BMI (Body Mass Index).

Molift Scale Set (without Suspension) Art. no.: 1331002

Slings

Etac supplies a wide selection of slings for different types of transfers.

The Molift RgoSling sling series is developed to be combined with a 4-point suspension but the sling also works with a 2-point suspension.

See the combination list in the slings user manual for the correct sling and suspension combination. The Molift RgoSling sling series is available in sizes XXS – XXL, in polyester and polyester mesh.

Rgosling Mediumback Padded (XS-XXL)
Rgosling Highback Padded (XS-XXL)
Rgosling Mediumback Net (XXS-XXL)

Rgosling Highback Net (XXS-XXL)

Rgosling Toilet Lowback (XXS-XXL) Rgosling Toilet Highback (XXS-XXL)

Rgosling Ampu Mediumback (XXS-XXL)

Rgosling Ampu Highback (XXS-XXL)

Rgosling Ambulating Vest

Rgosling Comfort Highback (S-L)

Accessories:

Rgosling Extension Loops Art. no.: 1721600

Rgosling Ambulating Vest Groin strap (XXS-XL)

Maintenance

Cleaning and disinfection

Clean on a regular basis. Clean surfaces with a damp cloth using an appropriate pH-neutral detergent. Do not use solvents or strong liquids, this may damage surfaces on the lifter. For disinfection when needed; use isopropyl alcohol. Avoid abrasive cleaning products. Check emergency stop and emergency lowering after cleaning. The lift should not be exposed to running water.



Make sure not to damage or remove labels when cleaning.

Reconditioning

Follow cleaning and installation procedure, complete periodic inspection and use checklist after installation to recondition the lifter.

Recycling

Refer to "Recycling instructions" for how to properly dispose of product. This can be found on www.etac.com.

Spare Parts

A list of spare parts is available on request.

Periodic Inspection

Periodic Inspection Scope

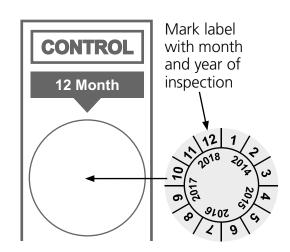
Periodic inspection is a visual examination (particularly of the hoist's load bearing structure and lifting mechanism with attachments, brakes, controls, safety devices and person-support devices) according to Periodic Inspection Report for Molift Air. This can be found on www.etac.com.

Periodic Inspection shall be performed at least once a year or more frequently if required by local requirements. The inspection must be performed by service personnel authorized by Etac. Contact Etac for training and authorization or recommendation of an approved service partner.

When performing a periodic inspection, the inspector shall fill out the inspection report for Molift Air. The reports should be retained by the person(s) responsible for servicing the hoist. If the inspection reveals defects and damages, the owner shall be notified and a copy of the report should be sent to Etac, molift@etac.com.



In the event of danger to safety, the hoist shall immediately be taken out of service and marked clearly with "out of order" and shall not be used until the hoist is repaired When periodic inspection is completed the inspector shall mark the hoist with a sticker on the control label showing the date when periodic inspection is performed. The control label can be found on the inside of the Side cover, and this will then indicate when next service should be performed.



Troubleshooting

Symptom	Possible Cause/Action
The lifting column is wobbly	The lifting column is not correctly positioned in the chassis or the screw in front or back is not properly tightened. Assemble column and chassis, and tighten screws properly.
The lifter moves unevenly on a plane surface	The castors move unevenly because of pile and dust. Clean the castors. Remove hair and dirt.
The lifting arm or adjustable legs moves uncontrolled.	Short circuit between hand control and lifter. Clean hand control plug surfaced with alcohol to remove grease.
	Defective hand control. Replace hand control.
	The control electronics has failed. Contact local representative for service.
The lifter does not respond to Hand control action / The lifting arm or legs does not move.	Emergency stop button is activated. Turn button clockwise to reset emergency stop.
	Battery is empty. Change or charge battery.
	The lifters electronics is overheated. Wait for it to cool down.
	The lifter is overloaded. Make sure the load does not exceed SWL.
	Hand control is not plugged in properly. Plug in Hand control properly. Hand control, plug or cord can be broken an should be replaced.
	Contact between chassis and column has no connection. Column is not correctly mounted in chassis. Assemble column and chassis properly.
	Defective control electronics. Contact local representative for service.
Battery does not charge	Faulty battery. Try another battery.
	Faulty battery charger. Try another charger.



