Technical manual Molift Quick Raiser





Møller Vital

patient lifter
14,4V NiCd

Caution! Read the technical manual before unpacking, assembling and usage of the patient lifter.

Molift Quick Raiser is manufactured in Norway by Møller Vital AS - Gjøvik , Hadelandsveien 2, N-2816 Gjøvik. Phone: (+47) 61

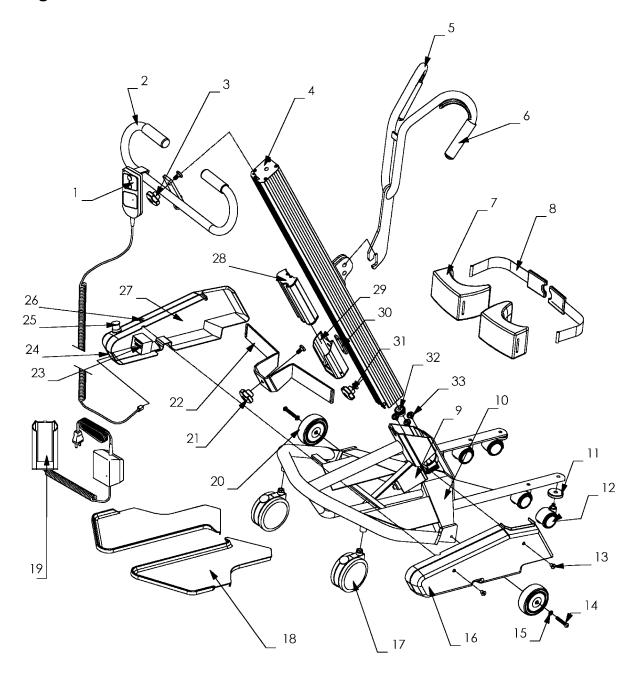
Design: Hans Kasper Andresen

Fig. 1



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Fig. 2



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Fig. 3

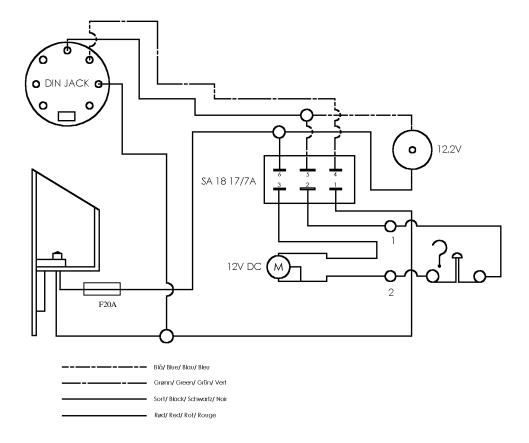
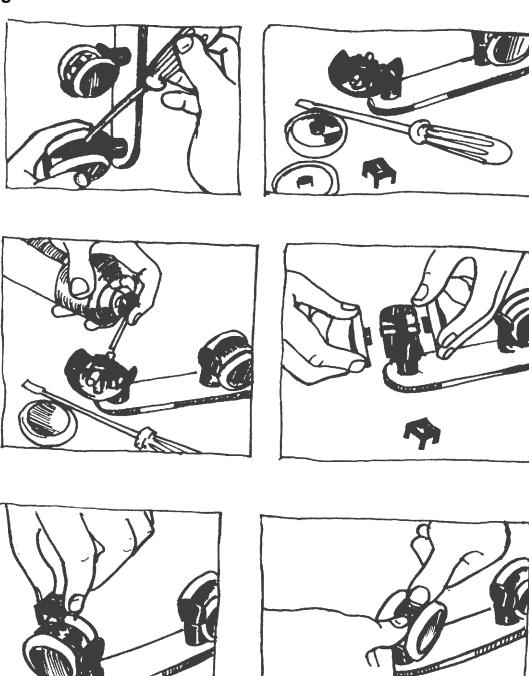
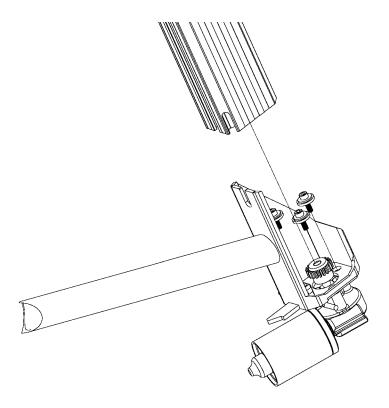


Fig. 4



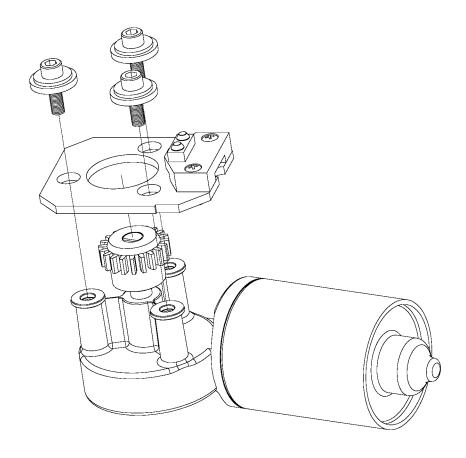
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Fig. 5



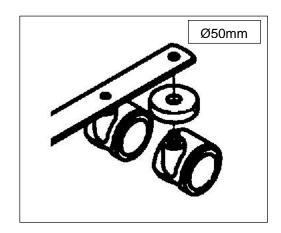
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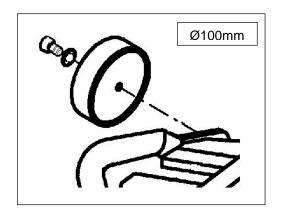
Fig. 6

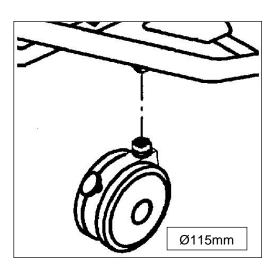


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Fig. 7







DESCRIPTION, MAINTENANCE AND ASSEMBLING - MOLIFT QUICK RAISER

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Enclosure:

EMERGENCY LOWERING PROCEDURE
DECLARATION OF CONFORMITY, charger
DECLARATION OF CONFORMITY, Molift Quick Raiser
Procedures for service, maintenance and safety control

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1. MAIN COMPONENTS MOLIFT QUICK RAISER

1.1. The chassis, description

The chassis is made of a steel tube/steel plate frame covered with polyester paint, the side cover is made of vacuum formed ABS.

The chassis contain: The motor with coupling, (male)

The electronic governor

Connection terminals for battery power

Emergency stop

Charging indication lamp Socket for hand control

Wheels Side covers

The motor with coupling

The motor with worm gear, (12 V DC), is mounted inside the chassis. The coupling on the motor and the lifting column is connection with each other when the red arrow on the lower part of the lifting column is pointing exactly at the edge of the base. It is not necessary to lubricate the motor.

The electronic motor governor

The motor governor is protecting the motor against overload by cutting the power supply. The power supply is cut at a load corresponding to a current of 17A trough the motor upwards and 7A downwards. In other words, the motor stops automatically at a load of approx. 120kg.

Emergency stop

The emergency stop button is cutting the motor power supply when it's operated. The button is placed on top of the chassis cover's left side, (figure 1 and 2). The button is pushed straight downwards to operate, and is twisted to be released.

NB! Do not use your foot to operate the emergency stop. This might damage the button and will make the lifter impossible to use.

Charging indicator lamp

A charging indicator lamp, (diode), is placed on top of one of the sidecovers, (fig. 1 and 2). The lamp will illuminate when the current of the battery decreases below 12.2V and the batteries must then be charged. Anyway there will always be sufficient power left to lower the patient. Normally the lamp will flash at start and stop and this is not indicating need for charging.

Socket for hand control

The socket for the remote control is modular Jack, (telephone socket). The socket is placed in one of the side covers, (figure 1 and 2).

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Wheels

Ø50mm: Four wheels, diameter Ø50mm. The wheels are mounted to the chassis with a screw stud.

Ø115mm: one wheel on each side, diameter Ø115mm. The wheels are mounted to the chassis with a screw stud. The wheels have brakes, which can be operated by using your foot.

Ø100mm: One wheel on each side of the lifter, diameter Ø100 mm. The wheels are mounted to the chassis with screws into the steel tube frame. None of the wheels need supplementary lubrication.

1.2. The lifting column, description

The lifting column contains: Aluminium profile

Lifting screw protective brushes

Ball screw Ball nut

Carrier with wheels Bearing and housing Motor coupling, (female).

Connection terminals for the power supply

Battery holder in aluminium Fixing wheel with screw

The motor transfers power to the lifting screw trough the motor coupling. A ball nut runs on the screw. The carrier is mounted to the ball nut. When the motor turns the screw, the screw leads the ball nut and the carrier upwards or downwards depending on which of the buttons on the remote control is operated. In the profile there is a guiding slide where the carrier runs. The ball nut is lifetime lubricated by the manufacturer, and does not need to be lubricated again. The ball nut is protected against dirt and dust by two protective brushes.

Battery holder and batteries

One 14,4V NiCd 1,3Ah battery is placed in a separate aluminium battery holder on the lifting column. For further instructions, see charger instructions.

1.3. Push bar, description

One push bar made of steel tube. It's up- and downwards adjustable to fit different operator heights by using the wheel and nut connected.

1.4. Remote control, description

The remote control have one "up" and one "down" button.

The enclosed protection bag for the remote control must be used when used in moist areas. In addition a little Vaseline may be added to the outside of the hand control socket on the chassis to protect it from moist or water.

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1.5 Part list Molift Quick Raiser with Møller Vital AS - Gjøvik part number

Pos		Møller Vital AS - Gjøvik part number
1.	Remote control	20 13 002
2.	Push bar, complete	02 35 000
3.	Wheel nut for push bar with screw	02 35 510
4.	Lifting column 1200mm complete	04 12 000
5.	Aktiv Raiser Arm, complete	04 58 000
6.	Hand grip for Aktiv Raiser Arm	04 58 101
7.	Pad for knee support	02 51 105
8.	Strap for knee support	02 01 100
9.	Motor	02 20 110
-	Chassis	04 20 100
-	Protection wheel	02 20 146
	Wheels Ø50mm, colour red	02 20 107
12.	Wheels Ø50mm, colour grey	02 20 207
13	Nut M6 for side cover	04 20 104
-	Screw with lens head for side wheels	04 20 106
	Disc for side wheel	03 10 114
_	Side cover in ABS	04 20 101 (specify side)
-	Wheels with brakes Ø115mm, colour red	02 20 108
	Wheels with brakes Ø115mm, colour grey	02 20 208
18	Foot support in ABS	04 20 103 (specify side)
	Battery charger 14,4V, NiCd, 230 V AC	05 40 001
10.	Battery charger 14,4V, NiCd, 240 V AC, UK	05 43 001
	Battery charger 14,4V, NiCd, 115V AC, USA	05 42 001
20	Wheels Ø100mm, (side)	04 20 102
	Wheel nut and screw for knee support	02 35 510
	Knee support, complete	04 55 000
	El. motor governor	04 20 212
	Socket for hand control, (DIN), and fastener	11 01 408
	Emergency stop complete	02 20 200
	Charging indicator, diode	02 20 140
	Cable set for the motor and chassis	04 20 116
	Battery Molift 14,4V NiCd	05 40 000
	Battery holder Molift 14,4V NiCd with cables and	00 40 000
20.	power supply connector for the lifting column	05 10 500
30	Mounting plate for battery holder	05 40 117
	Wheel nut and screw for the lifting column	04 20 501
	Coupling for the motor , (male)	02 20 111
	Screw kit with discs for motor	02 20 111
<i>3</i> 3.	Sciew kit with discs for motor	02 20 321
Misc	c. parts	
Mult	ti stick for the el. motor governor	02 20 113
	als, complete kit	04 20 530
	ch up paint, 12ml Red	02 20 401
	150ml Red, spray	02 20 405

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2. ASSEMBLING THE LIFTER, (se Figure 1 and 2)

Unpacking

- 1. The lifter is shipped in a cardboard box. Please check the packaging to see if there is any damage. If it's damaged, contact your Molift dealer immediately
- 2. The cardboard box contains the chassis, lifting column, knee support, Activ Raiser arm, push bar, remote control, battery and battery charger.

Assembling

- 1. First take out the wheel nut and screw from the T-slide of the lifting column. Then mount the knee support by leading the head of the screw upwards into the T-slide at the lower end of the lifting column. When the desired position is found, tighten the wheel nut properly. (Fig 1a).
- 2. Find the attachment plate and screws first removed. Lead the plate into the T-slide at the lower end of the column and gently fasten it approx. 25cm from the edge of the column end. The column is now lead into the base and pushed gently downwards. The lifting column will find it's right position. If not, take out the column, turn the motor coupling a little and try again until you succeed. Se too that the red arrow at the lower end of the column is pointing exactly at the edge of the base. Loosen the screw and lead the screws into the slit in the base and tighten properly with a 8-mm allenkey. (Fig 1a/d/e/f/g). CAUTION! The battery must not be connected during assembling!
- 3. Mount the push bar on the lifting column by leading the head of the screw downwards into the T-slide at the upper end of the lifting column. The push bar's opening must be pointing upwards. When the desired position is found, tighten the wheel nut properly. (Fig 1b)
- 4. Lead the remote control's electrical wire through the ring on the push bar, and plug it into the socket on the lifter's side cover. The remote control has a hook so it can be left on the push bar.
- 5. The Aktiv Raiser Arm is mounted to the carrier. The Aktiv Raiser Arm is mounted by hooking it from above and down to the two bolts in the carrier. The Aktiv Raiser Arm might be pushed away from the patient in a resting position. (Fig 1c).
- 6. Place the battery in the holder at the lifting column. The two poles must be pointing downwards. Run the lifter up and down for a couple of times without any load and check if it's working properly. (The batteries must be charged before the lifter is put into normal use). (Fig 1h).

Møller Vital AS - Gjøvik are testing all lifter's before they are shipped. The tests are performed both with and without load to ensure you that the product was in perfect condition when it left the manufacturer. But - if any of our products have damages or by any reason fail to work after assembling, this must be reported to your Molift dealer without any further delay.

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3. CHARGER AND BATTERY

The most modern battery- and charger technology is used in your new Molift Quick Raiser. The Battery is NiCd and the easy to reach outside placement makes battery changes easy and fast. At normal use the lifetime is determined to be approx. 2 to 3 years given that the charging routines are followed. New and fully charged batteries are able to supply the lifter with power for approx. 30 normal cycles. In other words, thirty times 50 cm up and down carrying a person of 75kg.

3.1. Mounting of charger and wall mounted battery holder

The charger is a "plug in" type made to fit your wall socket. The charger's battery station is equipped with fastening screws for wall mounting. It's recommended mounting the battery station at least 110cm above floor level.

3.2. Charging of batteries and use of charger

It's recommended always keeping the charger connected to the wall socket, (checking that the charger to ensure that the specifications are right for your required voltage capacity). The battery will be charged when it's placed from above and downwards into the charger station with the two poles of the battery pointing down. It is recommended to discharge the battery as much as possible before charging. The steady red charging indicator on the lifter indicates when the battery is due for charging. It is not possible to over-charge the batteries due to the charger technology. Charging time of a totally empty battery will be approx. 2-3 hours. If the battery runs out of power during the day its recommended having a supplementary battery as a reserve to ensure the lifter always to be operative.

If the charging indicator illuminates in the middle of an operation, there will always be enough power left to lower the patient.

Green light on charger, (Mascot 9315/9815), and how it's working

The green light is constant when the charger is connected to the wall socket and the power supply is OK. The green light is steady under normal charge, but turns into a blinking green light when the battery is fully charged and is now only giving a trickle charge to the battery. A full charge takes approx. 2-3 hours.

The green light does not light up when the following situations occur:

- When the charger is connected to the wall socket and a battery is not present for charging.
- When the charger is connected to the wall socket, a battery is present for charging, but the power supply to the wall socket is down.
- When the charger is connected to the wall socket, a battery is present for charging, but the charger's fuse is broken due to an overload or short circuit.

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4. TROUBLE SHOOTING, CORRECTION AND REPAIR

If the lifter is not working its important first of all to check the power supply, (battery). The battery indicator on the side cover of the lifter will be lighting with a steady light if the battery is due for charging. The three points below will help you to continue the trouble shooting if the battery indicator doesn't give you any information:

- 1. Check that the emergency button is released.
- 2. Check that the column is fixed correctly to the chassis.
- 3. Check the remote control. If it has no visible damages try to change it with another lifter's remote control if possible and try if the lifter is working now.
- 4. Measure the battery power reserve.
- 5. Check if the charger's green light is on and measure the charging output.

If you have access to other lifters of the same model, it might be useful to try parts from this one to se if you can locate the problem. If you are expecting the failure to be in the column, a column from the other lifter can be used in the lifter not working to se if the problem is solved.

Below you can see some possible problems that might occur and how to solve them:

Lifter only works either up or down

Possible problem: One of the relays is not working. Correction: Change the electrical motor governor.

Possible problem: Remote control failure.

Correction: Try another remote control of the same model and

tvpe.

Lifter does not work both up and down

Possible problem: The emergency stop button is activated. Correction: Release the button by twisting the head.

Possible problem: Battery is discharged.

Correction: Charge the battery, and measure the battery

voltage. If the battery is impossible to charge,

replace it with a new one.

Possible problem: Remote control failure.

Correction: Try another remote control of the same model and

type.

Possible problem: The motor coupling is damaged or loosened.

Correction: Replace the coupling or just tighten the screw if

there is no damage.

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The lifter runs by itself

Possible problem: The remote control has a malfunction. Correction: Change the remote control with a new one.

Possible problem: Short circuit in the remote control, in the wire or in

the socket on the side cover.

Correction: Clean the socket with alcohol to remove grease. If

this is not working try another remote control of same type and model. If the problem still is present,

change the remote control with a new one.

Possible problem: One or both of the relays have a malfunction.

Correction: Change the electrical motor governor.

If none of the above corrections solves the problem present, contact your Molift dealer for service.

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5. TECHNICAL SPECIFICATIONS

Material: Lifting column in aluminium.

Chassis and suspension in steel.

Motor: 12 V DC with worm gear.

Mechanism: Linear ball screw actuator

Battery: 14,4V NiCd 1,3Ah

Lifting capacity: 120 kg, (maximum patient load = 160kg)

Lifting height: 830mm

Lifting speed: 50-60 mm/second for a normal cycle with fully charged batteries.

Wheels Ø50mm: 4 double, Ø50mm, polyurethane.

Wheels side: 2 single, Ø100mm, rubber.

Wheels Ø115mm: 2 double, Ø115 mm with brakes, rubber.

Legs height: From floor to top of legs: 70mm.

Total with: 610mm

Total length: 1020mm with the lifting column mounted.

Total height: 1220mm to top of the lifting column

Washing/cleaning: Wash on the outside with ordinary household cleaning chemicals.

The lifter is splash proof. Protective bag for remote control must be used in moist and wet areas. Do not point the shower directly towards the lifter, and the lifter is not constructed for permanent use in moist or wet areas and will lead to corrosion inside the lifter. Careful, cleaning and maintenance of the lifter must follow using the lifter in moist and wet

areas.

Weights:

Chassis: 15,20 kg

Lifting column 1150 mm: 6,60 kg with battery holder

Battery: 0,90 kg
Push bar: 1,65 kg
Suspension: 2,50 kg
Knee support w/strap: 1,80 kg
Remote control: 0,13 kg
Charger: 0,80 kg

Technical specifications may be changed without any preliminary information.

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6. CLEANING THE WHEELS, (See figure 4)

- 1. Remove the clip supporting the wheels by using a screwdriver.
- 2. Pull out the wheels and remove possible dust, fibres from carpets etc.
- 3. The axle might be lubricated with just a little of oil if the originally added lubricant gets wiped off.
- 4. Mountings are done in the opposite order and remember to fasten the clip

7. MAINTENANCE/SERVICE

The following must be done once a year or more often when required:

- 1. Remove hair, dust and fibre coming from carpets from the wheels. Also check that the wheels are running and turning smoothly. If required, the wheels can be cleaned as shown in figure 4.
- 2. Se to that the remote control and the charger contacts are in good condition and connected properly.
- 3. Clean the socket and plug for the remote control with alcohol to remove grease.
- 4. Se to that the remote control's and the charger's electrical wire are in good condition and without any visible damage.
- 5. Perform a charging test of the charger and battery.
- 6. Run the lifter upwards and downwards to check that the lifter is running smoothly without any noise, vibration or any other problems.

8. SAFETY CONTROL

The following must be done at least once a year:

Testing of the lifters functions with maximum load, (120kg), as described below:

- 1. Test lifter by procedure with a load of 120kg.
- 2. Rolling and stability test with a load of 120kg.
- 3. Test the suspension and connection to carrier with a load of 120kg.

Molift recommend the safety control and testing to be done by an authorised dealer.

9. REPLACEMENT OF PARTS

Caution: An authorised dealer only must do replacement of parts!

9.1. Dismantling the motor, (See figure 5)

- 1. Remove the lifting column
- 2. Remove the side covers
- 3. Remove the three supporting screws and disc's supporting the motor to the plate inside the chassis.
- 4. Disconnect the el. cables from the motor.
- 5. Pull the motor down and down to take it out of the chassis.

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9.2. Mounting the motor, (See figure 6)

- Follow the procedure above in the opposite order. Add some Loctite 243 on the
 three supporting screws to secure them. Se to that the rubber discs are in the same
 position as before, (fig. 6). Before the three screws are tightened align the motor to
 the column by connecting the column to the chassis and run the lifter a couple of
 times up and down.
- 2. The new motor is marked with date and signature of service person.

9.3. Wheels, dismantling and mounting, (See figure 7)

(Cleaning the wheels is described in figure 4).

Ø50mm wheels:

Remove the grey protection film on the legs upper side. The screw supporting the wheel is removed by using an ordinary screwdriver. Mounting is done in the opposite order. Remember to mount the grey protection wheel. Use a little of Loctite 270 to secure the screw and add on a new protection film on the leg's upper side.

Ø100mm wheels:

Dismantle the wheel by using a 5mm-hexagon key, (umbraco), to remove the screw. Mounting is done in the opposite order. Remember the discs, and use a little of Loctite 270 for securing the screws.

Ø115mm wheels:

Using a 19mm open-end spanner dismantles the Ø115 wheel. Mounting in opposite order. Use a little of Loctite 270 to secure the screw.

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<u>NØDSENK - EMERGENCY LOWERING -</u> NOTSENK - DESCENTE MANUELLE

Molift Partner, Partner2, Quick Raiser

Brukerveiledning:

- 1. Kjør pasienten til et sted hvor han/hun trygt kan settes ned/legges.
- 2. Ta nøkkelen løs fra toppen av løftesøyle.
- 3. Stikk nøkkelen gjennom sentrum av dekal, på toppen av løftesøylen, fig.1.
- 4. Drei nøkkelen til pasienten er plassert på ønsket sted.
- 5. Send pasientløfteren til reparasjon.

Emergency lowering:

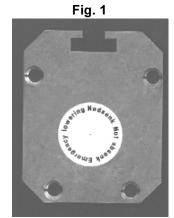
- 1. Place the patient somewhere he/she may be put down safely.
- 2. Disengage the allen key from the top of the column.
- 3. Stab the allen key through the centre of decal, on top of the lifting column, fig.1.
- 4. Turn the allen key until the patient is placed in a chair/bed.
- 5. Send the patient lifter for repairs.

Bedienungsanleitung:

- 1. Finden Sie einen Platz, wo der Patient sicher abgesenkt werden kann.
- 2. Lösen Sie den Schlüssel von der oberen Ende der Säule.
- 3. Drücken Sie den Schlüssel durch die Mitte des Aufklebezettels, am oberen Ende der Säule, fig. 1
- 4. Drehen Sie den Schlüssel, bis der Patient abgesenkt ist.
- 5. Senden Sie den Patientenlifter zur Reparation.

Manuel D'Utilisation:

- 1. Trouver une place pour descendre progressivement le patient.
- 2. Detacher la clé au sommet du mãt.
- 3. Appuyer le clé en traversant le centre de l'etiquette, au sommet du mât.
- 4. Faire tourner la clé en descendant progressivement le patient sur le lit/dans le fauteuil.
- 5. Faire réparer le lève-malade



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DECLARATION OF CONFORMIT

We,

Mascot Electronic A/S

P.O.box 177

Mosseveien 109

N-1601 Fredrikstad

Ørebekk - Gressvik

declare under our sole responsibility that the product:

Batterycharger

Type:

Data:

9315

Input:

0.4A 230VAC 50/60Hz CI.II

Output: max. 6 cells 3A

or

max. 7 cells 3A

max. 8 cells 2A

or

max. 10 cells 1.7A

max. 12 cells 1.5A

is in conformity with the following standard(s) or other normative documents(s):

Electrical Safety:

EN 60 950:1992 + /A1:1993 & /A2:1993

EMC: Emission:

EN 50 081-1 (EN 55 022B:1988 and EN 60 555-2:1987)

Immunity:

EN 50 082-1 (IEC 801-2:1993, -3:1984, -4:1988)

following the provisions of:

Low Voltage Directive (73/23/EEC)

EMC Directive (89/336/EEC + 92/31/EEC)

CE Directive (93/68/EEC)

and is produced under a quality system according to EN 29001 (ISO 9001) certified by:

TI Sertifisering AS, Norway, ref.no. 044

Fredrikstad, 5 June, 1996

Place and date of issue

Trygve Moc. Trygve Moe, R&D Manager Signature

Mascot Electronic A/S

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Enterprise no.: 917471851

VAT no.: 10 32 00 38





Manufacturer:

Møller Vital AS HADELANDSVN. 2 2816 GJØVIK Norway Tel.: + 47 61 13 88 20

hereby declare that:

MOLIFT PARTNER 680mm/1200mm, MOLIFT PARTNER 800/1200mm MOLIFT PARTNER 800/1350mm, MOLIFT PARTNER 2/1200mm MOLIFT PARTNER 3/1200mm, MOLIFT QUICK RAISER, MOLIFT QUICK MOVER MOLIFT HI-TRAC 2002, -2002Plus, -2004, -2004Plus, -Trapeze, - rail system, - free standing frame, Molift Standing Table, MOLIFT Swing, Molift SwingPool and Molift Smart

and that the following accessory used only together with Molift patient lifters Molift Partner suspension, adjustable foot rest for Molift Quick Raiser, Molift Aktiv Raiser 1, Molift Aktiv Raiser 2, Molift Aktiv Walker arm, Molift Aktiv Walker 2. Molift Scale (SR Scale). Molift Stretch. Molift Flatlifter. Molift Power Pac charger and battery, Molift charger for Hi-Trac, Molift Easy sling and strap, Molift U-sling, Molift safety belt, Molift walking/security strap, Molift Aktiv Raiser strap, Molift strap for Walker, Molift Easy fabric-sling

> Year: 2002 Are in conformity with:

The Council Directive concerning medical devices (93/42/EEC) The Council Directive of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility (89/336/EEC) Was manufactured in conformity with the following national or international standards that also might implement a harmonised standard: ISO 10535 Hoists for the transfer of disabled persons - Requirements and test methods.

IEC 60601-1-2 / EN 55022B & IEC 60601-1

Notified body:

Hjelpemiddelinstituttet **NEMKO AS DELTA El. Test** Gregersensvej Gaustadalleen 30 Gjerdrumsvei 16 DK-2630 Taastrup N-0314 OSLO N-0801 OSLO Denmark Norway Norway

Tel: + 45 43993322 Tel: + 47 22960342 Tel: +47 22239080

Technical director Position: Name: Lennart Solli Company: Møller Vital AS

22.02.05

Date Signature

Tech. manual QUICK RAISER14,4V Page 23 of 24 Date: 17.06.1996

NiCd, English version

Rev. date: 23.08.01 Rev. no.: 10

Procedures for service, maintenance and safety control of MOLIFT Quick Raiser

Revision 02. Date of revision 2000-06-26

Servic	e/maintenance: (To be carried out once	a year or more often when necessary).
		and without severe play. Remove hair and dust from the icate according to instructions in technical manual.
	Check the battery power contacts in the	chassis, column, on battery holder, charger and and are correctly fastened. Damaged parts must be
	Inspect plug and socket of hand control	for damage. Damaged parts must be changed. Clean cohol. It removes grease and prevents contact
	Control that hand control and charger w changed.	ires are not damaged. Damaged parts must be
	Test output of the charger with a voltme with lower output must be changed to property Run the lifter fully up and down a couple	ter. Output level is printed on the charger. Chargers rovide optimal charging of the batteries. It of times with and without load to check that the lifter lifter doesn't work smoothly, it may be due to a
Safety	control: (To be carried out once a year	or more often when necessary).
	damages or malfunction. Make sure that Replace damaged or worn out parts if no with maximum load, (120 kg), on a plant designed test hoop to the lifters knee sustrong rope. The weights, (i.e. sandbage hoop by using strong ropes. See to that the test. After the test inspect the chassing damage or deformation. If necessary, restricted the lifter is functioning correctly. Pull and push the lifter on a plane floor of the legs. The lifter shall be rolling stable Inspect all slings and straps present. All	rrier with bolt, and Raiser arm with hooks visually for the column is correct mounted to the chassis. ecessary. Run the lifter up and down several times effloor as described below: Attach the special pport bracket. Hook it on to the Raiser arm by using a sor steel weights), are then hooked on to the test the weights do not touch the column or chassis during is, wheels, column, carrier and Raiser arm again for eplace the damaged parts and do the test again until with approx. 75kg load hanging approx. 60cm above in the desired direction without vacillation. damaged or worn out slings/straps must be replaced.
The sa	no. The operator shall sign the safety co	
	Customer:	Identification lifter:
	Date :	_Signature :

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