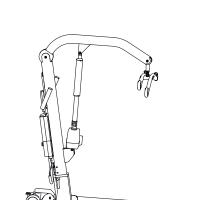
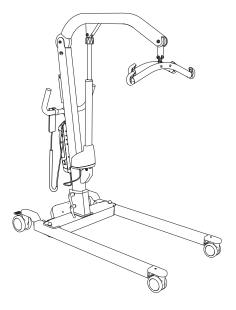
Viking™ XL Mobile Lift

Service Manual

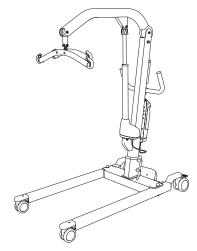


Prod. No. 2040003 S/N 800 001 - 890 000 DISCONTINUED 2013



Prod. No. 2040033 S/N 9 100 001- 9 200 000 DISCONTINUED 2017





Prod. No. 2040013 S/N 7 900 001 - 8 000 000 DISCONTINUED 2017



Prod. No. 2040043 S/N 9 600 001 - 9 700 000

 Δ In this document, this warning symbol indicates that special care should be taken. If instructions are not followed there is a risk of serious injury to patient or caregiver.

Spare part statement

Liko AB will as a manufacturer of overhead & mobile lifts keep spare parts available for 10 years after the last manufacturing date of the product.

Spare parts are available in the spare parts list or in the Service Manual for each model of lift.
Components (manufacturing parts) are not available after last manufacturing date.

Repairs and maintenance may only be performed by personnel authorized by Hill-Rom and using original Liko™ spare parts.

For information regarding Service and Maintenance education, contact your Hill-Rom representative.

For contact information please visit our website: www.hill-rom.com | www.liko.com

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1.1 Technical Data Viking™ XL mobile lift, 2040003

Lifting speed: 2.5 cm/s (0.98 inch./s) without load

Batteries: Two 12 V, 2.9 Ah, valve-regulated

lead-acid gel-type batteries. New

batteries are provided by the supplier.

Battery char- Built-in charge

Built-in charger, 100-240 VAC, 50-60 Hz, max 400 mA

Motor (mast): 24 V, 10.8 A, permanent magnetic

motor with mechanical safety mecha-

nism, safety nut and outer tube.

Motor (base): 24 V, 5.5 A, permanent magnetic

motor.

Material: Aluminium

Emergency

ger:

lowering: Mechanical and electrical

Wheels: Standard front: 100 mm (3.9 inch.)

dual.

Standard rear: 125 mm (4.9 inch.)

dual with brake.

Alt. front: 75 mm (3.0 inch.) dual. Alt. rear: 100 mm (3.9 inch.) single

wheel w. brake.

Intermittent Int. Op 10/90, active operation max operation: 2 min. Out of a time of 100, active

2 min. Out of a time of 100, active must be less than 10, though not

more than 2 min.

Degree of

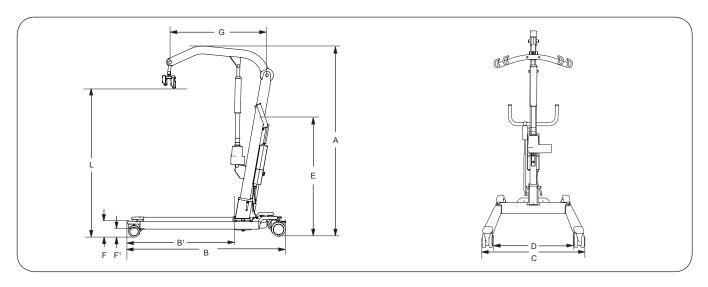
protection: IP 43

Built for indoor operation.

Type B according to the degree of protection

against electric chock.

Class II equipment.



Max. load and Weight in kg. Measures in mm.

Model	Wheel diameter	Max. load	L* Max	L* Min	A* Max	A* Min	В	B¹	С	D	E*	F	F¹	G	Weight tot	Weight part	Turning diameter
Viking XL	100/125**	300	1870 1820 1770	610	2110 2060 2010	1610 1560 1510		960	770-1160	640-1040	1140 1090 1040	140	45	900	42	23	1510
Viking XL	75/100	300	1860 1810 1760	650 600 550	2100 2050 2000	1600 1550 1500		960	770-1160	640-1040	1130 1080 1030	120	35	900	42	23	1510

Max. load and Weight in lbs. Measures in inches.

		_															
Model	Wheel diameter	Max. load	L* Max	L* Min	A* Max	A* Min	В	B¹	С	D	E*	F	F¹	G	Weight tot	Weight part	Turning diameter
Viking XL	3.9/4.9**	660	74 72 70	26 24 22	83 81 79	63 61 59	56	38	30-46	35-41	45 43 41	5.5	1.8	35	93	51	60
Viking XL	3.0/3.9	660	73 71 69	26 24 22	83 81 79	63 61 59	56	38	30-46	35-41	44 43 41	4.7	1.4	35	93	51	60

^{*} These measures depend on which hole the mast is levelled and secured in. See assembly instructions page 5.

** Standard for Viking XL.

1.2 Technical Data Viking™ XL mobile lift, 2040013

Maximum load: 300 kg (660 lbs)

Material: Aluminium

Weight: Total weight: 38.3 kg (84 lbs)

Heaviest part: 21.3 kg (47 lbs)

Wheels: Front: 100 mm (4 in) twin wheels.

(Or 75 mm* (3 in) twin wheels). Rear: 125 mm (5 in) twin wheels.

(Or 100 mm (4 in) single castors with

brakes).

Turning diameter: 1570 mm (61.8 in)

Emergency

lowering device: Mechanical and electrical

Lifting interval: 1370 mm (54.0 in)

Lifting Speed 21 mm/s and 13 mm/s (0.8 in/s and 0.5 in/s)

Sound Level: 51 dB(A)
Protection Class: IP X4

Operating Forces of HandControl: 4 N
Controls: Operation Panel: 4 N

HandControl: Batteries: 2 AAA LR03 1.5 V.

IR: Reach: 2 m (80 in)

Electrical Data: 24 V

Intermittent power: Int. Op 10/90, active operation max 2 min. Only

10% of a given length of time may be active, yet no more than 2 min.

Batteries: NiMH cells, 2.2 Ah. New batteries provided by the

supplier.

Battery CBL20001, built-in, 100-240 V AC,

Charger: 50-60 Hz, max 600 mA.

Lift Motor: Permanent magnet motor with mechanical safety

mechanism 24 V, 8.0 A

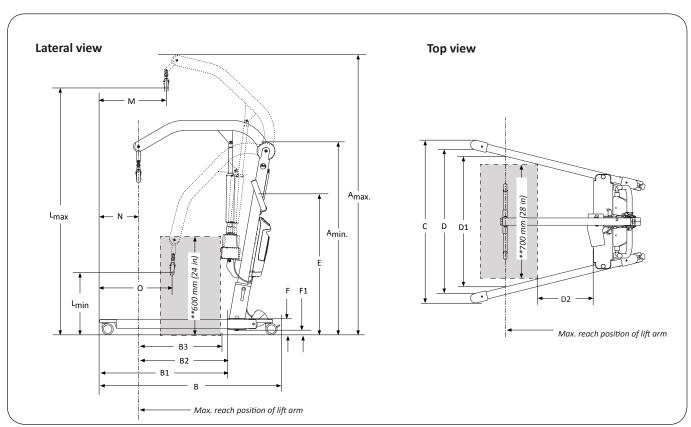
Motor for base-width Permanent magnet motor

adjustment: 24 V, 6 A

The device is intended for use indoors

Type B, in accordance with the electrical shock protection class.

☐ Class II equipment.



Measures in mm

Δ.	Δ.	P	D1	B2	D2**	(C	L)	D2**	F	-	E1	,		М	N	
Amax.	Amin.	В	D1	DZ	B3**	тах.	min.	max.	min.	DZ	E	r	LI	∟max	Lmin	IVI	/V	0
2110	1500	1420	960	600	560	1130	815	1015	605	145	1010	170	40	1910	540	557	365	665

Measures in inch.

4	Δ.	P	B1	В2	B3**	(5	L)	D2**	E	_	E1	,		М	Α,	
A max	A min	В	DI	DZ	ВЭ	max	min	max	min	DZ	E	<i>r</i>	LI	Lmax	∟min	IVI	/٧	
83.1	59.1	55.9	37.8	23.6	22.0	44.5	32.1	40.0	23.8	5.7	39.8	6.7	1.6	75.2	21.3	21.9	14.4	26.2

Note: The measurements are based on the lift being equipped with standard sling bar and standard wheels. When changing to other lifting accessories, or other wheels, check that the lift still achieves desired lifting height.

^{**} Reference measurement according to Standard EN ISO 10535:2006.

1.3 Technical Data Viking™ XL mobile lift, 2040033

Maximum load: 300 kg (660 lbs)

Material: Aluminium

Weight: Total weight: 40,6 kg (89.5 lbs)

Heaviest part: 23,6 kg (52.0 lbs)

Wheels: Front: 100 mm (4 in) twin wheels.

Rear: 125 mm (5 in) twin wheels.

Turning diameter 1570 mm (61.8 in)

Emergency

lowering device: Mechanical and electrical

Lifting interval: 1370 mm (54.0 in)

Lifting speed 21 mm/s and 13 mm/s, respectively (no load) (0.8 in/s and 0.5 in/s, respectively)

Sound level: 51 dB(A)

Protection class: IP X4

Operating Forces of HandControl: 2.4 N **Controls:** Operation Panel: 4 N

Electrical data: 24 V

Intermittent Int. Op 10/90, active operation power: max 2 min. Only 10% of a given

length of time may be active, but no

more than 2 min.

Batteries: NiMH cells, 2.2 Ah. New batteries

provided by the supplier.

Battery charger: CBL20002, built-in, 100-240 V AC,

50-60 Hz, max 600 mA.

Lift motor: Permanent magnet motor with

mechanical safety mechanism

24 V, 8.0 A

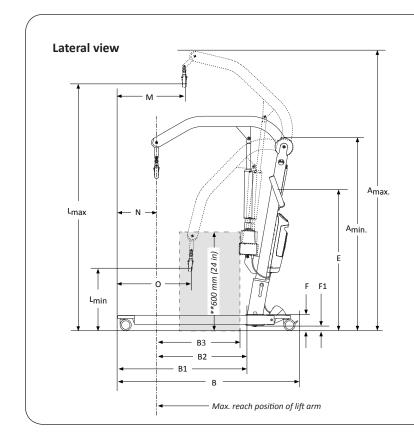
Motor for base-width Permanent magnet motor

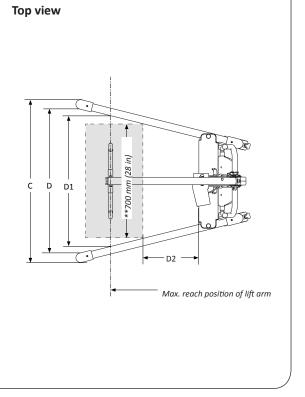
adjustment: 24 V, 6 A

The device is intended for use indoors

↑ Type B, in accordance with the electrical shock protection class.

☐ Class II equipment.





Measures in mm

4	Δ.	D	B1	B2	B3**	(2	L)	D2**	E	_	E1	,	, .	М	A	
A _{max} .	Amin.	D	БІ	DZ	ВЗ	тах.	min.	max.	min.	DZ	E	Г	LI	∟max	∟min	IVI	/٧	
2110	1500	1420	960	600	560	1130	815	1015	605	145	1010	170	40	1910	540	557	365	665

Measures in inch.

4	Δ.	P	B1	В2	B3**	(S	L)	D2**	_	_	E1	,	, .	М	A/	
A max	A min	В	DI	DZ	В3	max	min	max	min	DZ	E	<i>-</i>	LI	∟max	∟min	IVI	/4	
83.1	59.1	55.9	37.8	23.6	22.0	44.5	32.1	40.0	23.8	5.7	39.8	6.7	1.6	75.2	21.3	21.9	14.4	26.2

Note: The measurements are based on the lift being equipped with standard sling bar and standard wheels. When changing to other lifting accessories, or other wheels, check that the lift still achieves desired lifting height.

^{**} Reference measurement according to Standard EN ISO 10535:2006.

1.4 Technical Data Viking™ XL mobile lift, 2040043

Maximum load: 300 kg (660 lbs)

Material: Aluminium

Weight: Total: 39,9 kg (88.0 lbs)

Heaviest part: 23,6 kg (52.0 lbs)

Wheels: Front: 100 mm (4 in) twin wheels.

Rear: 125 mm (5 in) twin wheels.

Turning diameter: 1570 mm (61.8 in)

Emergency

lowering device: Mechanical and electrical

Lifting interval: 1370 mm (54.0 in)
Lifting speed 23 mm/s and 17 mm/s (no load) (0.9 in/s and 0.7 in/s)

Sound level: 51 dB(A)
Protection class: IP X4

Operating Forces

of Controls: Handcontrol: 5 N

Electrical data: 24 V

Intermittent Int. Op 10/90, active operation max 2 min. Only power: 10% of a given length of time may be active, but

no more than 2 min.

Batteries: Lead-acid gel, valve-regulated battery

24 V 2.9 Ah Prod. No. 2006106.

Weight: 2,8 kg (6.2 lbs.)

Li-ION battery

25.6 V, 3.3 Ah Prod. No. 2006110.

Weight: 1,4 kg (3.1 lbs.)

Battery charger: Internal charger, 100-240 V AC, 50-60 Hz, max.

400 mA.

Lift motor: Permanent magnet motor with mechanical

safety mechanism. Viking XL: 24 V, 9.0 A

Motor for base- Permanent magnet motor

width adjustment: 24 V, 5,5 A

Surrounding Temperature:

functional $+10^{\circ}$ C to $+40^{\circ}$ C, $(50^{\circ}$ F to 104° F)

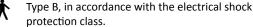
environment: Humidity: 20% to 80% at 30°C non-condensing,

Air pressure: 800HPa to 1060HPa, Altitude: max.

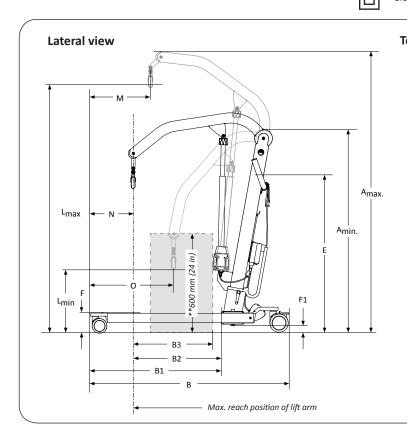
2000m.

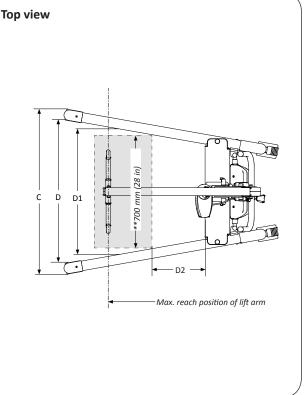


The device is intended for use indoors



Class II equipment.





Viking XL C D C D C

^		D D	B1	B2	B3**	(2	[)	D2**	_	г	г1	١.	l	М	N	
A _{max} .	Amin.	В	BI	BZ	B3	max.	min.	max.	min.	DZ	Е	F	LI	Lmax	Lmin	IVI	IN .	U
2110	1500	1420	960	600	560	1130	815	1015	605	145	1010	140	40	1910	540	557	365	665
83.1	59.1	55.9	37.8	23.6	22.0	44.5	32.1	40.0	23.8	5.7	39.8	5.5	1.6	75.2	21.3	21.9	14.4	26.2

Note: The measurements are based on the lift being equipped with standard sling bar. When changing to other lifting accessories, check that the lift still achieves desired lifting height.

^{**} Reference measurement according to Standard EN ISO 10535:2006.

2.1 Trouble Shooting Viking™ XL mobile lift, 2040003

The lift does not work up/down. Width adjustment does not work in/out.



- 1. Check that the emergency stop button is not pushed in.
- 2. Check that the cables are correctly connected.
- 3. Check that the charger cable is not connected to the wall socket.
- 4. Check that the battery is charged.
- 5. Check that the contact plates of the battery are not defective or broken off.
- 6. If the lift still does not work satisfactorily, contact Hill-Rom.

Battery charging does not work.



- 1. Check that the emergency stop button is not pushed in.
- 2. Check that the contact plates of the battery box are not defective or broken off.
- 3. If the lift still does not work satisfactorily, contact Hill-Rom.

The lift stops in the elevated position.



- 1. Check that the emergency stop button is not pushed in.
- 2. Use the electrical emergency lowering to safely lower the patient .
- 3. Use the mechanical emergency lowering (marked) to safely lower the patient .
- 4. Check that the battery is charged.
- 5. If the lift still does not work satisfactorily, contact Hill-Rom.

If you hear unusual sounds.



2.2 Trouble Shooting Viking™ XL mobile lift, 2040013

The lift does not work up/down with the HandControl IR.

The base-width adjustment doesn't work (in/out) with the HandControl IR.



- 1. Make sure that the emergency stop is not engaged.
- 2. If the lift has not been used for 24 hours, enable the system.
- 3. Check that the HandControl IR is enabled.
- 4. Check that the charger cable is not connected to an electric outlet.
- 5. HandControl IR indicates battery change.
- 6. If the lift works via the operation panel, change the HandControl IR.
- 7. If the lift motion is stopped during raising maximum load, and then won't raise, try to lower the lift and then raise again.
- 8. If the problem persists, please contact Hill-Rom.

The lift does not work up/down with the operation panel.

The base-width adjustment doesn't work (in/out) with the operation panel.



- 1. Make sure that the emergency stop is not engaged.
- 2. Make sure that the cables to the control box are connected correctly.
- 3. Check that the charger cable is not connected to an electric outlet.
- 4. Check the battery capacity.
- 5. Check that the battery's contact plates are not defective or broken.
- 6. If the problem persists, please contact Hill-Rom.

The charger doesn't work.



- 1. Make sure that the emergency stop is not engaged.
- 2. Check that the charging cable is correctly connected.
- 3. Make sure that the battery is properly attached.
- 4. Check that the battery's contact plates are not defective or broken.
- 5. If the problem persists, please contact Hill-Rom.

The lift is stuck in the high position.



- 1. Make sure that the emergency stop is not engaged.
- 2. Check the battery capacity.
- 3. HandControl IR indicates battery change.
- 4. Use the electrical emergency lowering device to lower the patient onto a firm surface.
- 5. Use the manual emergency lowering device to lower the patient onto a firm surface.
- 6. If the problem persists, please contact Hill-Rom.

If you hear unusual sounds.



2.3 Trouble Shooting Viking™ XL mobile lift, 2040033

The lift doesn't work up/down with Hand Control.

The base-width adjustment doesn't

work (in/out) with the Hand Control.



1. Check that the emergency stop button has not been pressed.

- 2. Check the battery capacity.
- 3. Check that the charger cable is not connected to an electric outlet.
- 4. Check that the hand control cable is correctly connected.
- 5. If the lift works via the operation panel, change the Hand Control.
- 6. If the problem persists, please contact Hill-Rom.

The lift does not work up/down with the operation panel.



The base-width adjustment doesn't work (in/out) with the operation panel.



- 2. Check that the cables to the control box are connected correctly.
- 3. Check that the charger cable is not connected to an electric outlet.
- 4. Check the battery capacity.
- 5. If the problem persists, please contact Hill-Rom.

The charger doesn't work.



- 1. Check that the emergency stop button has not been pressed.
- 2. Check that the charger cables are connected correctly.
- 3. Make sure that the battery is properly attached.
- 4. If the problem persists, please contact Hill-Rom.

The lift is stuck in the high position.



- 1. Check that the emergency stop button has not been pressed.
- 2. Check the battery capacity.
- 3. Check that the hand control cable is connected correctly.
- 4. Electrical emergency lowering, use the operation panel to lower the patient onto a firm surface.
- 5. Use the mechanical emergency lowering device to lower the patient onto a firm surface.
- 6. If the problem persists, please contact Hill-Rom.

If you hear unusual sounds.



2.4 Trouble Shooting Viking™ XL mobile lift, 2040043

The lift do not work up/down with Hand Control.

The base-width adjustment doesn't work (in/out) with the Hand Control.



- 1. Make sure that the emergency stop button has not been activated (shall not be pressed in).
- Check the battery capacity.Check if the Li-ION battery has been set in to sleep mode, see chapter "Operation".
- 3. Make sure that the battery is properly seated in the control box.
- 4. Check that the charger cable is not connected to an electric outlet.
- 5. Check that the handcontrol cable is correctly connected to the control box.
- 6. Check that the lift arm actuator cable is correctly connected to the control box.
- 7. Check that the base width actuator cable is correctly connected to the control box.
- 8. If the problem persists, please contact Hill-Rom.

The charger doesn't work.



- 1. Check that the charger cables are connected correctly.
- 2. Make sure that the battery is properly seated in the control box.
- 3. Try an alternative mains outlet.
- 4. If the problem persists, please contact Hill-Rom.

The lift is stuck in the high position.



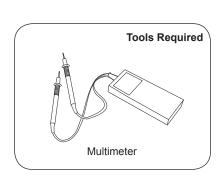
- 1. Make sure that the emergency stop button has not been activated (shall not be pressed in).
- 2. Make sure that the battery is properly seated in the control box.
- Check the battery capacity.
 Check if the Li-ION battery has been set in to sleep mode, see chapter "Operation".
- 4. Check that the handcontrol cable is connected correctly.
- 5. Electrical emergency lowering, use the operation panel to lower the patient onto a firm surface, see chapter; Operation.
- 6. Use the mechanical emergency lowering device to lower the patient onto a firm surface, see chapter; Operation.
- 7. If the problem persists, please contact Hill-Rom.

If you hear unusual sound from the lift.

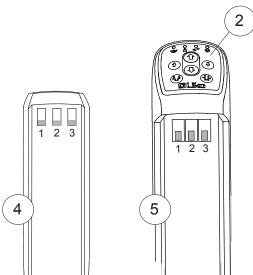


2.5 Trouble Shooting CBL 20

Note! Begin with Simple trouble shooting from Service manual for the actual product. If problem remains continue as described below.







Check point:

- **1.** Make sure that:
 - the emergency stop (1) is not activated.
 - the battery is assembled correctly.
 - the charging cable is not connected to mains.
- Check operation panel function's for actuator and base motor Push control buttons on operation panel (2) at control box
 - If both actuator and base motor functions response, continue to step 5.
 - If no function, continue to step 3.
 - If only one of either the actuator or base motor function response: change position on actuator and base motor cables then check control function of operation panel, to see if fault is on output channels or the motors. If control box function is ok! Continue to step 5.
 If control box is faulty. Replace the control box.
- Check battery capacity
- 3a) Push in the battery capacity button (3):
 - If <u>any</u> of the three LED's on the battery start's the battery is OK, continue to step 4.
 - If not, continue to step 3b.
- 3b) Measure battery voltage: release battery, (4) measure on contact 1 and 3:
 - If voltage over 0V the battery is ok! Continue to step 4.
- **4.** Verify contact between control box and battery.
- 4a) Remove the battery and wait for green LED to turn off.
- 4b) Put back the battery and see if green LED start automatically.
 - If green LED starts, battery contact is ok!
 - If not, try to ensure that the battery's contact plates are not defective or broken and try to bend them out carefully, then repeat step 4.
 - If still no contact, continue to step 5.
- 5. Check charging function
- 5a) Connect the charging cable to mains
 - If charging starts within 1 minute, charge and then continue to step 6.
 - If charging doesn't start, continue to step 5b.
- 5b) Measure output voltage on the control box (5) on contact 1 and 3.
 - If voltage is 3-4V charging is OK! Replace the battery, continue to step 6.
 - If voltage is 0V when the charging cable is connected to mains the control box needs to be replaced! Replace the control box.
- **6.** Charge the battery until green LED is flashing, on the battery.
 - Check that all function's on the control box is ok! If not , **Replace control box**.

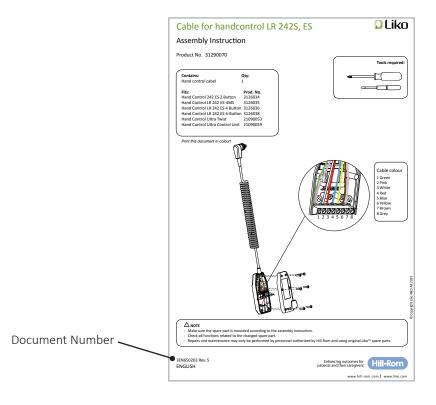
Customers FAQ:

- The liftarms up/down function or base width in/out function doesn't work?
- a) Change position on actuator and base motor cables.
- b) Perform step 2 and see if fault is on output channel or motors.
- The control panel function's on controlbox is ok, but the hand control has no function?
- a) Check to ensure that battery contact plates in the hand control are not defective or broken.
- There's no charging function?
- a) Verify contact between control box and battery. Perform step 4.
- b) Check charging function. Perform step 5.

Assembly Instructions to Liko™ spare parts are attached with the products.

The assembly instructions are also available in Agile and on the Partner Web.

Document number to spare parts assembly instructions can be found in the spare parts list.



\triangle NOTE

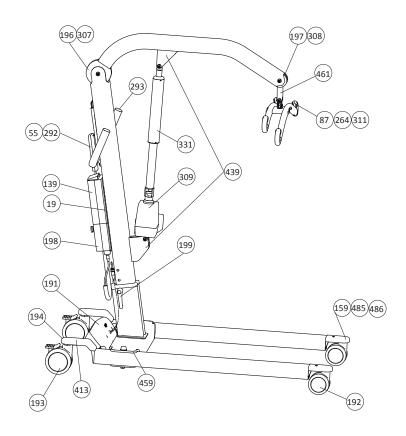
- Always make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Hill-Rom and using original Liko™ spare parts.

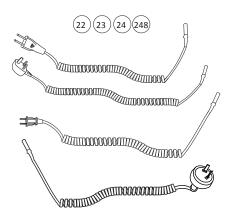
Liko™ technical documentation can be found under "My information" - "Documents" on the Partnerweb: https://partner.liko.com/ If you don't have access, contact Ann-Christin Sundström for registration: E-mail: ann-christin.sundstrom@hill-rom.com, Tel: +46 (0)920 - 47 47 10

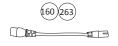
PROD. NO.	PRODUCT	
2040003	Viking XL <i>(Discontinued 2013)</i> (S/N: 800 001- 890 000)	



There are four models of Viking™ XL mobile lift; Prod. No. 2040003, 2040013, 2040033, 2040043. One spare parts list for each model. Make sure to order correct spare part.





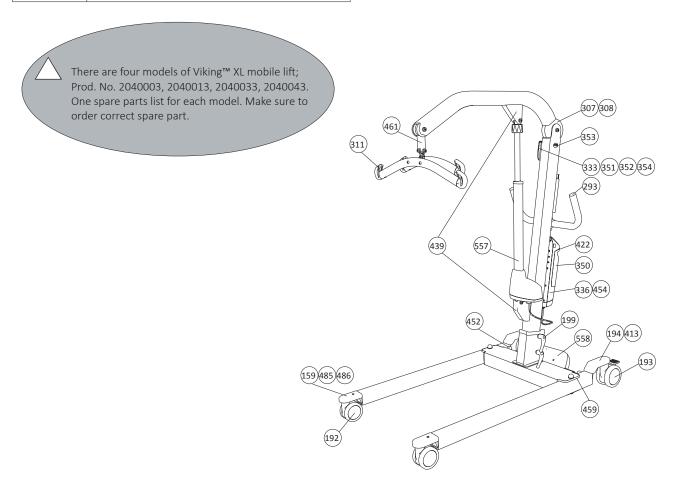


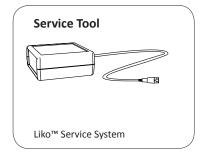
PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.
20490009	198	Control Box Viking L/XL	pce		3SE630223
20490009US	198	Control Box Viking L/XL, US only for the US market	pce		
20090023	19	Attachment for Control Box	pce	111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3EN630238
20090026	22	Cable for Charging, EU	pce		3EN630237
20090027	23	Cable for Charging, UK	pce	G	
20090028	24	Cable for Charging, US	pce	43	
20190017	55	Hand Control EE 4-Button	pce		3SE630204
31190018	87	Latch	pair		3EN640271
2006106	139	Battery Lead Acid	pce		3EN630224
20390006	159	Fork Cover	pair		183916
21090001	160	Extension Cable	pce		3EN630225
20490002	191	Base Motor Viking XL complete	pce	0000	3SE640291
20490003	192	Front Wheel 100 mm We recommend replacing both wheels, as there are two different versions that can vary in appearance. (dimension is the same)	pce		3SE630293
20490004	193	Rear Wheel 125 mm We recommend replacing both wheels, as there are two different versions that can vary in appearance. (dimension is the same)	pce		3SE630294
20490005	194	Rear Fork Cover	pair		3SE630295

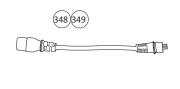
PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.
20490007	196	Lift Arm Plastic Cover S/N 801196-801999	set	0-00	3SE630240
20490008	197	Overhead Beam Restoration set S/N 801196-801999	set		3SE630228
20490010	199	Locking Handle Viking XL from S/N 800987	pair		3SE630244
20090050	248	Cable for Charging AU/NZ	pce		3EN630237
21090011	263	Extension Cable US	pce		3EN630218
31590011	264	Latch Universal SlingBar	pair		3SE630229
20090058	292	Hook for Hand control 2,4,6	pce		3SE630210
20090066	293	End Cover Handle/Arm Support grey, 4 pce	set		3SE630271
20490023	307	Lift arm plastic cover Viking XL 2040003: fr. S/N 802000	set	000000000000000000000000000000000000000	3EN630250
20490024	308	Overhead beam restoration set Viking XL 2040003: fr. S/N 802000	set	X2 X3 X6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3EN630251
20490025	309	Actuator Viking XL	pce		3SE640241

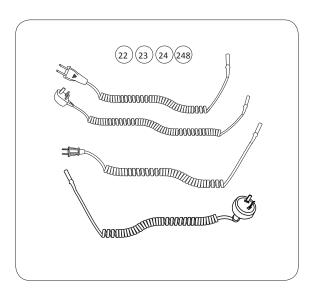
PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.
31590014	311	Latch, composite Fits Universal SlingBar from S/N 1299511	pair		3SE640242
20490030	331	Outer Tube	pce		3SE640260
20490037	413	Rear Wheel fork	pair		3SE650264
20490040	439	Bracket Cover	set		3SE650273
20490047	459	Leg Cover L&XL	set		3EN650294
20490049	461	Flexlink	set	0 = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3SE650295
20090080	485	Fork locking attachment, 4 pair	set		3SE690208
20090081	486	Wheel Fork	pair		3SE690209
20490060	512	Front Wheel Fork Fits Viking XL 2040003L	pair		3SE690221

PRODUCT	
Viking XL (intelligent control box) (S/N: 7 900 001 - 8 000 000)	
,	Viking XL (intelligent control box)







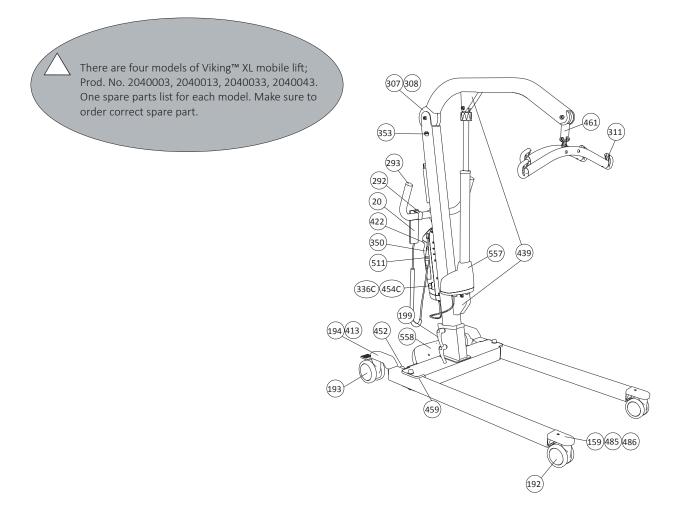


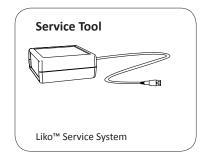
PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR
20490039	336	Control Unit CBL, by S/N Can only be ordered if S/N (serial number) can be provided to Liko™ Customer Service. Will be programmed at Liko™ before delivery. 2 weeks delivery time from Hill-Rom/Liko™ Alvik, Sweden	pce		3SE650270
20490044	454	Control Unit CBL Viking XL Before use; requires Software and, needs to be programmed with Liko™ Service System, Prod. No. 21090024	pce		3SE650290
2000000				n	251152222
20090026	22	Cable for Charging, EU	pce	72. mmm000000mmmamm000	3EN630237
20090027	23	Cable for Charging, UK	pce		
20090028	24	Cable for Charging, US	pce	-B	
20390006	159	Fork Cover	pair		183916
20490003	192	Front Wheel 100 mm We recommend replacing both wheels, as there are two different versions that can vary in appearance. (dimension is the same)	pce		3SE630293
20490004	193	Rear Wheel 125 mm We recommend replacing both wheels, as there are two different versions that can vary in appearance. (dimension is the same)	pce		3SE630294
20490005	194	Rear Fork Cover	pair		3SE630295
20490010	199	Locking Handle Viking XL	pair		3SE630244
20090050	248	Cable for Charging AU/NZ	pce		3EN630237
20090066	293	End Cover Handle/Arm Support grey, 4 pce	set		3SE630271

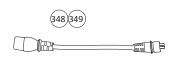
PROD. NO.	POS. NO	. NAME	UNIT		ASSEMBLY INSTR.
20490023	307	Lift arm plastic cover	set	0 0000	3EN630250
20490024	308	Overhead beam restoration set	set	x6	3EN630251
31590014	311	Latch, composite Fits Universal SlingBar from S/N 1299511	pair		3SE640242
20490031	333	Wireless hand control HBL20	set		3SE640298
21090018	348	Extension cable CBL20	pce	The second of th	3SE650216
21090019	349	Extension cable CBL 20 US,	pce		
2006107	350	Extra battery box	pce	Const.	-
21090020	351	Beltclip HBL20	pair		3SE650217
21090021	352	Clips with hook HBL20	pair		3SE650218
21090022	353	Charge cable hook , 10 pce	set		3SE650219
21090023	354	Hand control hanger, 10 pce	set		3SE650220
20490037	413	Rear Wheel fork	pair		3SE690221

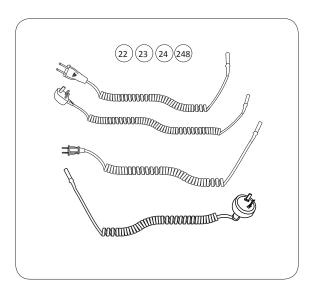
PROD. NO.	POS. NO	. NAME	UNIT		ASSEMBLY INSTR.
20090077	422	Locking device CBL20, 10 pce	set		3SE640217
20490040	439	Bracket Cover	set		3SE650273
20490042	452	Restoration set motor attachment	set	# x2	3SE650288
20490065	557	Actuator LA44	set	COMP COMP	3EN690287
20490047	459	Leg Cover L&XL	set		3EN650294
20490049	461	Flexlink	set		3SE650295
20090080	485	Fork locking attachment, 4 pair	set		3SE690208
20090081	486	Wheel Fork	pair		3SE690209
20490066	558	Base Motor, wide	pce		3EN690288

PROD. NO.	PRODUCT
2040033	Viking XL (intelligent control box and cable hand control) (S/N: 9 100 001- 9 200 000)









PROD. NO.	POS. NO.	NAME	UNIT	ASSEMBLY INSTR.
20490054	336C	Control Unit CBL by S/N, Cable Can only be ordered if S/N (serial number) can be provided to Liko™ Customer Service. Will be programmed at Liko™ before delivery. 2 weeks delivery time from Hill-Rom/Liko™ Alvik, Sweden	pce	3SE690227
20490056	454C	Control Unit CBL Viking XL, Cable Before use; requires Software and, needs to be programmed with Liko™ Service System, Prod. No. 21090024	pce	3SE690229
20090089	20	Hand control 6-Button	pce	3SE690232
20090026	22	Cable for Charging, EU	pce	3EN630237
20090027	23	Cable for Charging, UK	pce	
20090028	24	Cable for Charging, US	pce	
20390006	159	Fork Cover	pair	3EN380202
20490003	192	Front Wheel 100 mm We recommend replacing both wheels, as there are two different versions that can vary in appearance. (dimension is the same)	pce	3SE630293
20490004	193	Rear Wheel 125 mm We recommend replacing both wheels, as there are two different versions that can vary in appearance. (dimension is the same)	pce	3SE630294
20490005	194	Rear Fork Cover	pair	3SE630295
20490010	199	Locking Handle Viking XL	pair	3SE630244

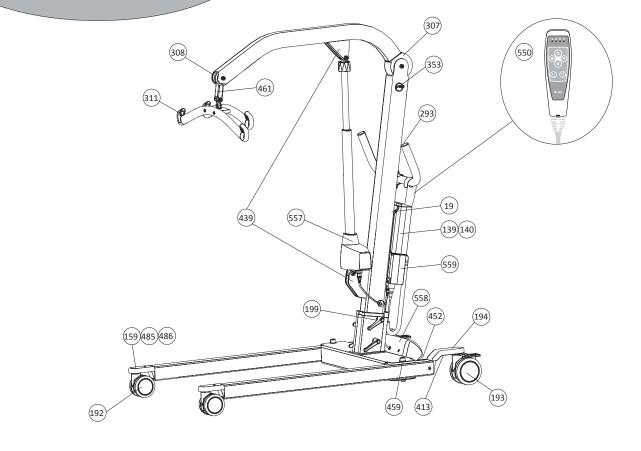
PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.
20090050	248	Cable for Charging AU/NZ	pce		3EN630237
20090058	292	Hook for Hand control 2,4,6	pce		3SE630210
20090066	293	End Cover Handle/Arm Support grey, 4 pce	set		3SE630271
20490023	307	Lift arm plastic cover	set	0 0000	3EN630250
20490024	308	Overhead beam restoration set	set	X2 X3	3EN630251
31590014	311	Latch, composite Fits Universal SlingBar from S/N 1299511	pair		3SE640242
21090018	348	Extension cable CBL20	pce	Control 1	3SE650216
21090019	349	Extension cable CBL 20 US,	pce	Const II	
2006107	350	Extra battery box	pce		-
21090022	353	Charge cable hook , 10 pce	set		3SE650219
20490037	413	Rear Wheel fork	pair		3SE690221
20090077	422	Locking device CBL20, 10 pce	set		3SE640217
20490040	439	Bracket Cover	set	(i) :	3SE650273
				(i) s = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

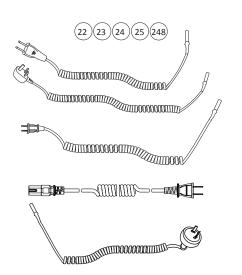
PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.
20490042	452	Restoration set motor attachment	set	- X2	3SE650288
20490065	557	Actuator LA44	set		3EN690287
20490047	459	Leg Cover L&XL	set		3EN650294
20490049	461	Flexlink	set		3SE650295
20090080	485	Fork locking attachment, 4 pair	set	9999	3SE690208
20090081	486	Wheel Fork	pair		3SE690209
20490057	511	Locking Ring CBL, 10 pce	set		3SE690231
20490066	558	Base Motor, wide	pce		3EN690288

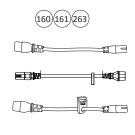
PROD. NO.	PRODUCT
2040043	Viking XL jumbo care control box and LED hand control (S/N: 9 600 001 - 9 700 000)



There are four models of Viking™ XL mobile lift; Prod. No. 2040003, 2040013, 2040033, 2040043. One spare parts list for each model. Make sure to order correct spare part.







PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR
20090023	19	Attachment for Control Box	pce	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3EN630238
20090026	22	Cable for Charging, EU	pce		3SE630237
20090027	23	Cable for Charging, UK	pce		-
20090028	24	Cable for Charging, US	pce	*************************************	
20090029	25	Cable for charging JP	pce		
2006106	139	Battery Lead Acid	pce	DLO O	3EN630224
2006110	140	Battery Lithium Ion	pce		User Manual 7EN140108
20390006	159	Fork Cover	pair		3SE380202
21090001	160	Extension Cable	pce		3EN630225
21090000	161	Extension Cable JP	pce		3EN630225
20490003	192	Front Wheel 100 mm We recommend replacing both wheels, as there are two different versions that can vary in appearance. (dimensions are the same)	pce		3SE630293
20490004	193	Rear Wheel 125 mm We recommend replacing both wheels, as there are two different versions that can vary in appearance. (dimensions are the same)	pce		3SE630294
20490005	194	Rear Fork Cover	pair		3SE630295

PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.
20490010	199	Locking Handle Viking XL	pair		3SE630244
20090050	248	Cable for Charging, AU/NZ	pce	20000000000000000000000000000000000000	3SE630237
21090011	263	Extension Cable US	pce		3SE650216
20090066	293	End Cover Handle/Arm Support grey, 4 pce	set	8	3SE630271
20490023	307	Lift arm plastic cover	set	0 000 000 0000	3EN630250
20490024	308	Overhead beam restoration set	set	X2 X3	3EN630251
31590014	311	Latch, composite Fits Universal SlingBar from S/N 1299511	pair		3SE640242
21090022	353	Charge cable hook , 10 pce	set		3SE650219
20490037	413	Rear Wheel fork	pair		3SE690221
20490040	439	Bracket Cover	set		3SE650273
20490042	452	Restoration set motor attachment	set	x2	3SE650288

PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.
20490047	459	Leg Cover L&XL	set		3EN650294
20490049	461	Flexlink	set		3SE650295
20090080	485	Fork locking attachment, 4 pair	set	9999 9999	3SE690208
20090081	486	Wheel Fork	pair		3SE690209
20090098	550	Hand Control 6 button, LED	pce		3EN690283
20490065	557	Actuator LA44 Replaces 20490045	set		3EN690287
20490066	558	Base Motor, wide	pce	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3EN690288
20490067	559	Control Box XL Jumbo Care	pce		3EN690289

5.1 Control Unit CBL, Parameter Code Key

Liko™ Diagnostic System™ (operating data) is stored in Control Unit CBL

Parameter:	Information:
TAAxT [Ah]	Totally Accumulated Amphours (current x time)
TAAxTR [Ah]	Totally Accumulated Amphours, resetable (current x time) Can be reset by the manufacturer.
PAAxT [Ah]	Periodically Accumulated Amphours (current x time) Calculated continuously from the moment the lift is used until the first service.
PAKT [Months]	Periodically Accumulated Calendar time. Calculated between services.
TADT [Hours]	Totally accumulated drive time.
AAS [Starts]	Accumulated starts. The number of lifting motions counted from the moment the lift was used the first time.
ASERV [Services]	Accumulated services Number of performed service events made using LSS or LDS.
IMED [A]	Average power consumption during TADT. Overall accumulated operating time.
ALA [Charges]	Accumulatet number of started chargings.
AALA [Charges]	Accumulated number of completed chargings
AOLA [Charges]	Accumulated numbers of not completed charging. Counts each disrupted charging event.
AABT [Removals]	Accumulated number of battery replacements. Counts each battery replacement where a used battery is replaced.
AEUP [Endpos. up]	Accumulated number of end positions during lifting motion up.
AFSERV [Services]	Accumulated number of reset Service Number of "Clear Service" performed manually.
AEDWN [Endpos. down]	Accumulated number of end positions during lifting motion down.
SFSTAT	N/A (This funktion is not in use)
IDNR	Identity number of the control box.
AOLUP [Overloads]	Accumulated number of stops due to overload.
PADT [Hours]	Periodically accumulated operating time.
IMED 20 [A]	Average current consumption. Recounted for each lifting motion (up) which lasts more than 20 seconds.
ELT [Ah]	TAAxTR limit (constant) for ELT indication.
ELTCNT [Commands]	Number of ELT resets (only performed at replacement of actuator).
CLIM_1 [A]	Current limit for lifting motion (up).
CLCT [ms]	Maximum allowed time to override CLIM_1 before cut-off
CLIM_2 [A]	Current limit for widening motion (base-width adjustment).
SINTT [Months]	Indicates service intervals in calendar months.
SINTAS [Ah]	AxT limit for service event. (current x time)
CYCLET [Hours]	Cycle time is a constant for a medium driving cycle.
PAOLUP [Overloads]	Periodic accumulated number of stops due to overload.



Control Unit CBL

- The information listed above is stored in the Control Unit CBL.
- Replacing the Control Unit CBL without using the LSS may cause some data loss as this data is recordable by LSS and a computer. When data is stored in Liko™ database it can be retrieved if needed.
- Resetting the Service Interval using the LSS, LDS or Manually, will reset the Accumulated Amp-hours (PAAxT),
 Accumulated Time (PAKT), Accumulated Operating Time (PADT) and Accumulated number of stops due to overload (PAOLUP).

5.2 Control Unit CBL, Reset Service Interval Parameters

CBL RESET SERVICE INTERVAL PARAMETERS

After the Periodic Inspection has been performed Service Light and Service Interval Parameters* in the Liko™ Diagnostic System™ has to be reset. Reset can be done <u>using **one** of the following</u> Service Tools/Methods:

Prod. No. 21090024	1. Liko™ Service System, LSS (Requires a computer) Read and store the data from the Control Unit CBL into a computer. Data can also be transfered to a Liko™ Server. Can also reset the ELT-light (Expected Life Time). Use when Periodic Inspection or Preventative maintenance is performed. Service Documents for the lift can be printed. Use for tracking and and transfer data when Spare Parts are changed.	
-	3. Manual Service Resets the Service Interval Parameters*. △ Service Interval Parameters should only be reset after a complete Periodic Inspection Use the following combination of buttons on the control panel: A: Press and hold button 1 & 2 B: While holding 1 & 2, press button 3, and hold all three buttons for three seconds. Works from Item No: CBL20001-05, see label on CBL	J. J

INPACT ON PARAMETERS

Changes of parameters when LSS, LDS or Manuel Service <u>reset</u> has been used:

Parameter:	1. LSS:	2. LDS:	3. Manual Service:	Check Points in PM ***
Service Light *	Unlit	Unlit	Unlit	
TAAxT	unchanged	unchanged	unchanged	X ***
TAAxTR	unchanged	unchanged	unchanged	
PAAxT **	0	0	0	x ***
PAKT **	0	0	0	
TADT	unchanged	unchanged	unchanged	
AAS	unchanged	unchanged	unchanged	x ***
ASERV	+1	+1	unchanged	x ***
IMED	unchanged	unchanged	unchanged	x ***
ALA	unchanged	unchanged	unchanged	x ***
AALA	unchanged	unchanged	unchanged	x ***
AOLA	unchanged	unchanged	unchanged	x ***
AABT	unchanged	unchanged	unchanged	x ***
AEUP	unchanged	unchanged	unchanged	x ***
AFSERV	0	0	+1	x ***
AEDWN	unchanged	unchanged	unchanged	x ***
SFSTAT	N/A	N/A	N/A	
IDNR	unchanged	unchanged	unchanged	x ***
AOLUP	unchanged	unchanged	unchanged	x ***
PADT **	0	0	0	x ***
IMED20	unchanged	unchanged	unchanged	
ELT	unchanged	unchanged	unchanged	
ELTCNT	unchanged	unchanged	unchanged	
CLIM1	unchanged	unchanged	unchanged	
CLCT	unchanged	unchanged	unchanged	
CLIM2	unchanged	unchanged	unchanged	
SINTT	unchanged	unchanged	unchanged	
SINTAS	unchanged	unchanged	unchanged	
CYCLET	unchanged	unchanged	unchanged	
PAOLUP **	0	0	0	x ***

^{*} Indicates Service Periodic Inspection interval reached.

^{**} Service Interval Parameters (the PAAxT, PAKT, PADT and PAOLUP are all used to determine Service intervals)

^{***} Parameters to use in the Preventative Maintenance

5 3 Control Unit Jumbo Care

Control Box operation and information

- 1. Emergency Stop button
- 2. Electrical emergency lifting.
- 3. Electrical emergency lowering.
- 4. "ON" lights up green when the charger is connected to mains.
- 5. "CHARGE" lights up yellow constantly during charging and will turn off when charging is completed.
- 6. Display Pop-up information:



Battery power (100-50 %)



Battery power (50-25 %) Battery needs charging.



Battery power (Less than 25 %) battery needs charging. A buzzer will sound when pressing a push button.



Charge the lift immediately! A buzzer will sound when pressing a push button. The remaining battery power can only make the lift arm go down.



The lift is connected to the mains.



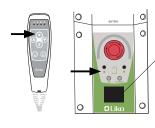
Short circuit warning! Check cables and connections. Warning is shown until repaired!



Overload! Too much load is applied to the lift.



Service indicator. The Jumbo Care control box will be pre-set with a service interval of 12 months / 8000 cycles, whichever comes first. When it is time for service the display will show the service symbol and one single beep will tell that it is time for Periodic Inspection. To get the service data on the display, press "lifting arm up" button (short press ½ sec.) on the hand control or on the control box.







Total lifting actuator cycles



Total lifting actuator work (As)



Total number of overloads



Days since last service/ days between services One cycle is defined as: Driving with load up for a minimum of 5 seconds, following by driving down for a minimum of 2 seconds.

Total work made by the lifting actuator.

Recommended max use of As/year: 367 200 As

Counts the number of time the actuator (up/down) has been overloaded.

Service Counter shows days since last service/days between services (360).

RESET SERVICE COUNTER

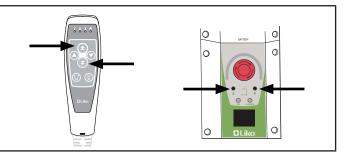
After the Periodic Inspection has been performed the Service Counter (days and cycles until next service) has to be reset.

Before resetting the counter:

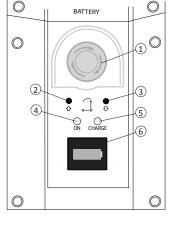
It is important to write down the values from the control units in the Periodic Inspection Protocol (3EN371001).

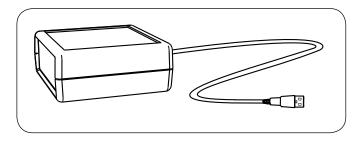
Press the "fast speed" up and down buttons on the hand control or up and down buttons on the control box for 5 seconds.

An audio signal will confirm the resetting.

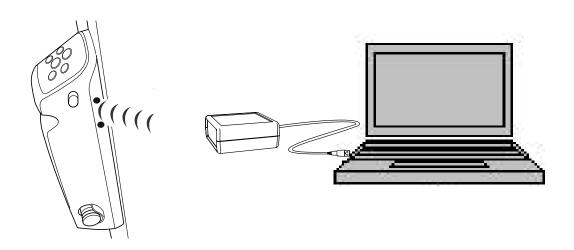


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Prod. No. 21090024



Product Description

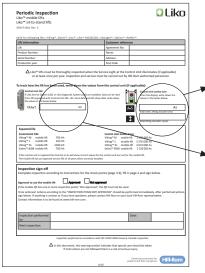
Liko™ Service System (LSS) is a soft ware developed to enable service technicians to conduct service in an easy way on all lifts equipped with the control unit CBL 20.

It also gives the service technician the possibility to program the spare part on the field.

Detailed information can be found in the instruction guide supplied with the product.

7.0 Periodic Inspection Information, Viking™ XL mobile lift

According to ISO 10535:2006 Annex B, Periodic Inspection of medical device Liko™ mobile lift should be performed at least once a year. For Liko™ mobile lifts Periodic Inspection Liko mobile lifts 3EN371001 is available on the Partner Web (and internally in Agile)



NOTE!

 Δ Periodic Inspection shall be performed at least once per year.

Viking™ XL mobile lift 2040043:

The accumulated use of the lift (As) and total lifting actuator cycles should be logged at each Periodic Inspection!

➤ Viking[™] XL mobile lift 2040013 and 2040033: The accumulated use of the lift (Ah) should be logged at each Periodic Inspection!

Liko™ technical documentation can be found under "My information" - "Documents" on the Partnerweb: https://partner.liko.com/ If you don't have access, contact Ann-Christin Sundström for registration: E-mail: ann-christin.sundstrom@hill-rom.com, Tel: +46 (0)920 - 47 47 10

Periodic Inspection may only be performed by personnel authorized by Hill-Rom and using original Liko™ spare parts.

Available Liko™ Periodic Inspections:

- 3EN371001 Periodic Inspection Liko™ Mobile lifts
- 3EN111001 Periodic Inspection Liko™ OH Rail system
- 3EN191001 Periodic Inspection Overhead Lifts
- 3EN301001 PI Freespan Freestand
- 3EN601001 Periodic Inspection Liko™ accessories

Also available is Periodic Inspection Slings. This inspection should be performed by a person who is suitable, has good experience and sufficient knowledge about design, use and maintenance of the sling.

7EN160834 General Periodic Inspection Protocol Liko Slings and Sabina SupportVests

8.0 Preventive Maintenance, Viking™ XL mobile lift

Expected Life Time

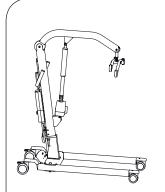
The expected life time of a Viking™ XL mobile lift is 10 years of normal use or 1020 Ah (Prod. No. 2040013 and 2040033) or 3 672 000 As (prod No 2040043) (which comes first) provided that required Periodic Inspection and Preventive Maintenance is performed by personnel authorized by Hill-Rom and using original Liko™ spare parts. However certain parts have a shorter life cycle and will need to be replaced in order for the mobile lift to meet its expected life time. They are listed below:

Parts that needs to be replaced:

Part		Part No.	Replacement interval:	Replacement:
Leg Covers	II	20490047	6 years or 612 Ah or 2 203 200 As	Can be used more than 6 years if no malfunction is detected.
Battery Lead Acid		2006106	3 years or 1 101 600 As	Can be used more than 3 years if no malfunction is detected.
Battery Li- Ion		2006110	3 years or 1 101 600 As	Can be used more than 3 years if no malfunction is detected.
Battery (to CBL)		2006107	4 years or 408 Ah	Can be used more than 4 years if no malfunction is detected.
Hand Control	OL BO	20190017	2 years	Can be used more than 2 years if no malfunction is detected.
Hand Control	00000	20490031	2 years or 204 Ah	Can be used more than 2 years if no malfunction is detected.
Hand Control	1100	20090089	2 years or 204 Ah	Can be used more than 2 years if no malfunction is detected.
Hand Control		20090098	2 years or 734 400 As	Can be used more than 2 years if no malfunction is detected.

Expected Life Time	Product No.	Year	Work
Viking™ XL mobile lift	2040003	10	-
Viking™ XL mobile lift	2040013	10	1020 Ah
Viking™ XL mobile lift	2040033	10	1020 Ah
Viking™ XL mobile lift	2040043	10	3 672 000 As

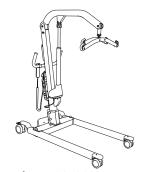




Prod. No. 2040003 S/N 800 001- 890 000 (*Discontinued 2013*)



Prod. No. 2040013 S/N 7 900 001 - 8 000 000 (*Discontinued 2017*)



Prod. No. 2040033 S/N 9 100 001- 9 200 000 (*Discontinued 2017*)



Prod. No. 2040043 S/N 9 600 001 - 9 700 000

Changes	Model 2040043 from S/N	Model 2040033 from S/N	Model 2040013 from S/N	Model 2040003 from S/N	Project
2017					
Start of production Viking™ XL mobile lift, Prod. No. 2040043 equipped with Jumbo Care Control Box (CBJ-C) and Hand Control HB30. It is replacing 2040013 and 2040033.	9 600 001	-	-	-	SUS002056
Viking XL, Prod No. 2040013 and 2040033 are discontinued.		-	-	-	MOD005718

2013

Viking XL, Prod No. 2040003 is discontinued.	-	-	-	1740
Start of producing Viking XL (Prod. No. 2040033), with intelligent control	9 100 001	-	-	1707
unit and fixed hand control.				

2011

Start of producing Viking XL (Prod. No. 2040013), with intelligent control unit and IR	7 900 001	-	932
hand control.			

2008

4 mm shorter middle beam. Link attachment for base motor adjusted.	803 000	671





2007

New version of arm. New pivot point and covers between arm and mast. Outer tube on actuator.	802 000	521
Old latch back.	801 668	619
New latch of composite at the slingbar.	801 647	

Changes	Model	Project
	2040003	
	S/N	

2006

Hook composite with latch composite.	801524	467
New version of actuator.	801300	432
901890122 Screw M6S M10x40 GL=15 mm change to 930000040 screw M6S	801196	
M10x40.		
New pivot points between Arm-Mast, Actuator-Arm, Mast-Actuator, Arm- Link and	801196	
Link-Slingbar.		

2005

New screwthread on bolts M6S M10x80 och M6S M10x65 and 3pce schims.	801152	
New adjustable mast and foot.	800987	
New Locking handles.	800987	
Emergency guard.	800987	
New design on mast, foot, slingbar etc.	800925	270
New diagonal profile inside the Middle Beam.	800911	257

2004

New Slingbar "Universal Twinbar 670".	800774	
New diagonal profile inside the Middle Beam.	800700	
New version of base motor same as L, M.	800635	
Change of name: Viking 300 to Viking XL.	800509	159

Enhancing outcomes for patients and their caregivers:





Changes	Model 2040003 S/N	Project
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2003

Casing was earlier welded into arm, but is fixed with Vikings own construction. The	800396	
casing (and bolt) are covered by liftarm plastic cover.		
The holes for attaching the handles and armrest on Viking 300 has been moved up	800364	
8 cm/ 3.15 inches.		
Serial number decal have ETL-mark.	800352	
Upgrade front fork and new style on front fork cover.	800331	
New serial number decal.	800277	





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