

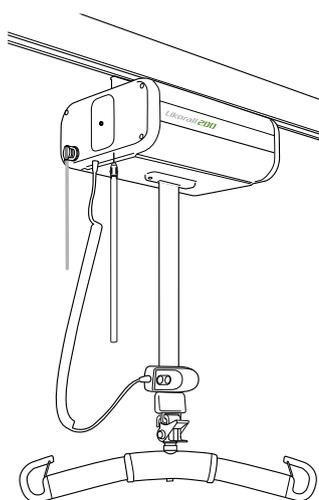
# Likorall

## overhead lift

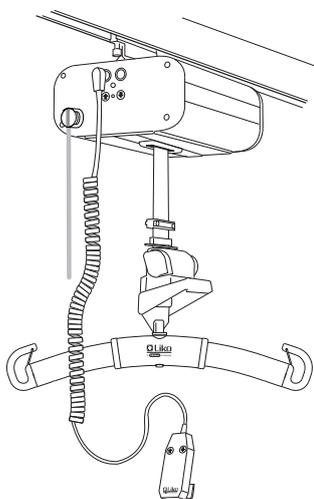
### Service Manual



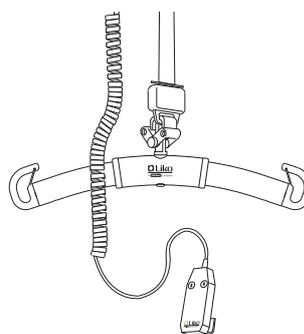
Overhead Lift	Prod. No.
Likorall 200 lift	3121001
Likorall 242 ES lift	3122005-3122006 / NA
Likorall 242 ES R2R lift	3122007-3122008 / NA
Likorall 242 S lift	3122009-3122010 / NA
Likorall 242 S R2R lift	3122011-3122012 / NA
Likorall 243 ES lift, natural	3123001 / NA
Likorall 243 ES lift, white	3123002 / NA
Likorall 250 ES lift, natural	3122501 / NA
Likorall 250 ES lift, white	3122502 / NA / CN
Likorall 250 S IRC lift	3124050



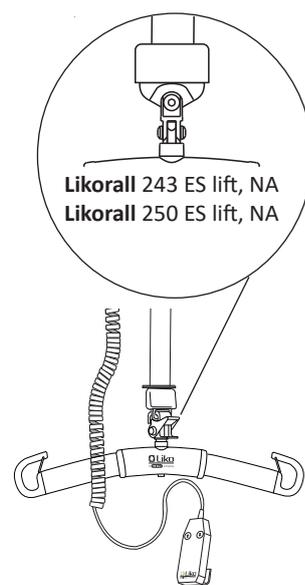
**Likorall 200 lift**



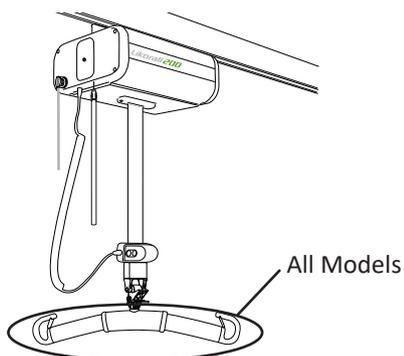
**Likorall 242 S lift  
Likorall 242 ES lift**



**Likorall 242 S R2R lift  
Likorall 242 ES R2R lift**



**Likorall 243 ES lift  
Likorall 250 ES lift  
Likorall 250 S IRC lift**



**All Models**



*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 stationary & 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 Hillrom and using original Liko spare parts.  
For information regarding Service and Maintenance education, contact your local Sales or Service representative.  
For contact information please visit our website: [www.hillrom.com](http://www.hillrom.com)

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# 1.1 Technical Data

## Likorall 200 overhead lift

**Maximum load:** 200 kg (440 lbs.)

**Batteries:** 2 x 12 V 2,4-2,6Ah. Valve-regulated lead-acid gel-type batteries. New batteries are provided by the supplier.

**Battery charger:** CH01 FW7218M/24; 100-240 V AC, 50-60 Hz, max 500 mA

**Lifting speed:** 50 mm/s (2 inch./s)

**Lifting interval:** 2050 mm (80.7 inch.)

**Electrical data:** 24 V, 12 A

**Lift unit dimensions:** 340x250x165 mm (LxWxH) (13.4x9.8x6.5 inch. ,LxWxH)

**Lift unit weight:** 12.5 kg (27.5 lbs.)

**Emergency lowering device:** Electrical

**Intermittent power:** Int. Op 10/90, active operation max 30 seconds.

**Protection class lift motor:** IP 33

**Sound level:** 51 dB

**Protection class hand control:** IP 54

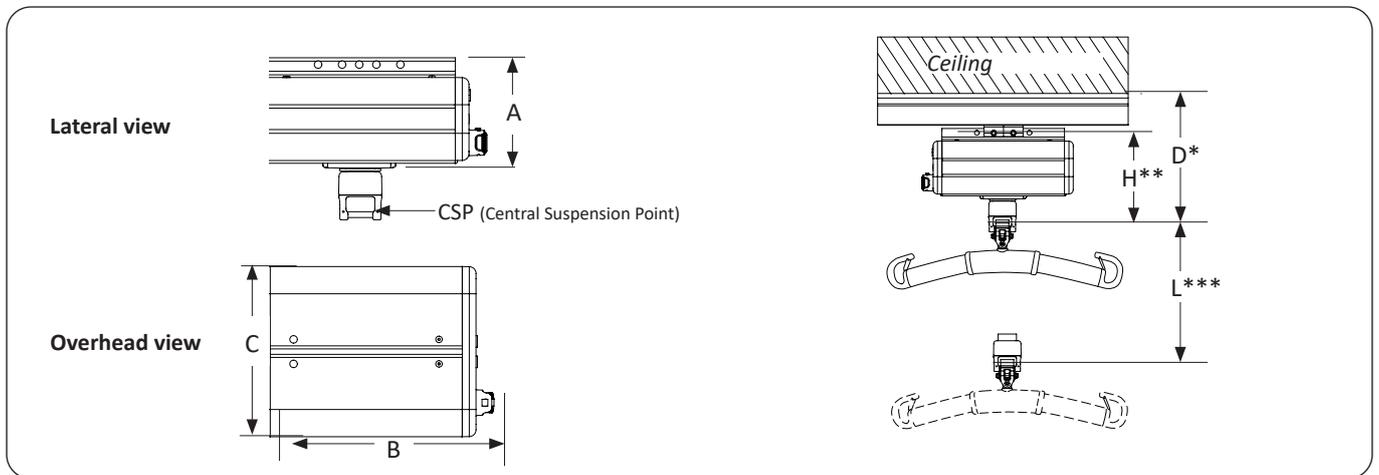
**Operating forces hand control:** 3 N

**Cable length hand control:** 870 mm (34 inch.)

 Intended for indoor use.

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

Likorall overhead Lift is equipped with a SFS (Single Fault Safety) safety drum. This patented safety design provides protection against uncontrolled lowering.



Measurements in mm.

A	B	C	D*	H**	L***
165	340	250	304	221	2050

Measurements in inch.

A	B	C	D*	H**	L***
6.5	13.4	9.8	12.0	8.7	80.7

\* Minimum distance from ceiling to CSP at maximum lifting height.

\*\* Built-in dimension: the distance between the attachment point for the lift unit on the carriage and the CSP at maximum lifting height.

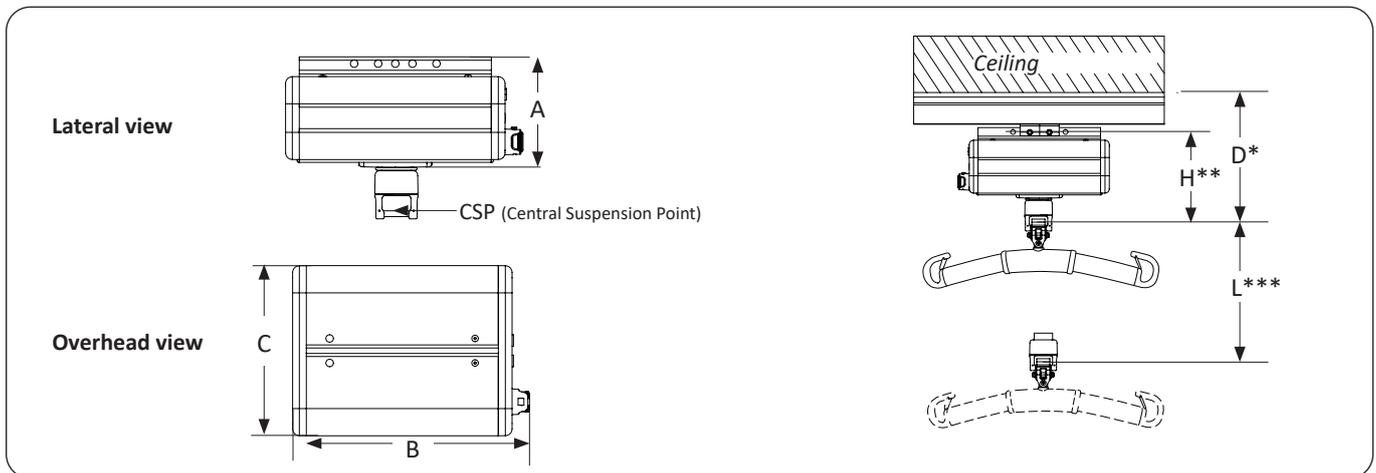
\*\*\* Lifting interval: the distance between maximum lifting height and minimum lifting height measured in CSP.

## 1.2 Technical Data

### Likorall 242 S/ES, 243 S/ES, 250 S/ES overhead lift

<p><b>Maximum load:</b> Likorall 242 lift: 200 kg (440 lbs) Likorall 243 lift: 230 kg (507 lbs) Likorall 250 lift: 250 kg (550 lbs)</p> <p><b>Batteries:</b> 2 x 12 V (2.4 Ah - 2.6 Ah). Valve-regulated lead-acid gel-type batteries. New batteries are provided by the supplier.</p> <p><b>Battery charger:</b> CH01 FW7218M/24; 100-240 V AC, 50-60 Hz, max 500 mA SMP CC-10-43-24; 100-240 V AC, 40-60 Hz, max 600 mA IRC (In-Rail Charging): CH01 FW7218M/24; 100-240 V AC, 50-60 Hz, max 500 mA</p> <p><b>Lifting speed:</b> 50 mm/s (2 inch./s)</p> <p><b>Lifting interval:</b> 2050 mm (80.7 inch.) (242 vertically adjustable)</p> <p><b>Electrical data:</b> 24 V, 12 A</p> <p><b>Lift motor weight:</b> Likorall 242 lift 13.0 kg (28.6 lbs) Likorall 242 R2R lift 12.6 kg (27.7 lbs) Likorall 243 lift 12.6 kg (27.7 lbs) Likorall 250 lift 12.6 kg (27.7 lbs)</p>	<p><b>Emergency lowering device:</b> Mechanical: Likorall 242 lift Electrical: Likorall 242 R2R lift Likorall 243 lift Likorall 250 lift</p> <p><b>Intermittent operation:</b> Int. Op 10/90, active operation max 30 Sec.</p> <p><b>Sound level:</b> 49 dB</p> <p><b>Protection class:</b> IP 43</p> <p><b>Protection class hand control:</b> IP 54 for Prod.No. 3126050 IP 43 for Prod. No. 3126035, 3126036, 3126038, 3126060</p> <p><b>Operating forces of controls:</b> 3 N for Prod.No. 3126050 5 N for Prod. No. 3126035, 3126036, 3126038, 3126060</p> <p><b>Ambient temperature:</b> Min. + 10°C - Max. + 50°C (Min. 50° F - Max. 122° F)</p> <p> Intended for indoor use.</p> <p> Type B, in accordance with the electrical shock protection class.</p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

The Likorall overhead lift is equipped with a SFS (Single Fault Safety) safety drum. This patented safety design provides protection against uncontrolled lowering. The lift strap has a tenfold safety.



Measurements in mm.

A	B	C	D*	H**	L***
165	340	250	304	221 (models: 242 R2R, 243, 250)	346 (models: 242)

Measurements in inch.

A	B	C	D*	H**	L***
6.5	13.4	9.8	12.0	8.7 (models: 242 R2R, 243, 250)	13.6 (models: 242)

\* Minimum distance from ceiling to CSP at maximum lifting height.

\*\* Built-in dimension: the distance between the attachment point for the lift unit on the carriage and the CSP at maximum lifting height.

\*\*\* Lifting interval: the distance between maximum lifting height and minimum lifting height measured in CSP.

## 2.1 Troubleshooting

### Likorall 200 overhead lift

**The lift doesn't work.**



1. Make sure that the emergency stop button has not been activated (shall not be pressed in).
2. Check that the hand control cable is connected correctly.
3. Charge the battery.
4. If the problem persists, please contact your Hillrom representative.

**A repeated signal can be heard from the lift.**



1. Charge the battery immediately.
2. If the problem persists, please contact your Hillrom representative.

**The lift emits a repeated LED signal.**



1. Charge the battery immediately.
2. If the problem persists, please contact your Hillrom representative.

**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. Check that the hand control cable is connected correctly.
3. Use the selected electrical emergency lowering device to lower the patient onto a firm surface.
4. Charge the battery.
5. If the problem persists, please contact your Hillrom representative.

**The lift does not achieve maximum lifting capacity.**



1. Charge the battery.
2. If the problem persists, please contact your Hillrom representative.

**In event of unusual sounds or any leakage from the lift**



Please contact your Hillrom representative.

## 2.2 Troubleshooting

### Likorall 242 S/ES, 243 S/ES, 250 S/ES overhead lift

**The lift doesn't work.**



1. Make sure that the emergency stop button has not been activated (shall not be pressed in).
2. Check that the hand control cable is connected correctly.
3. Charge the battery.
4. If the problem persists, please contact your Hillrom representative.

**A repeated signal can be heard from the lift.**



1. Charge the battery immediately.
2. If the problem persists, please contact your Hillrom representative.

**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. Check that the hand control cable is connected correctly.
3. Use the selected electrical emergency lowering device to lower the patient onto a firm surface.
4. Charge the battery.
5. If the problem persists, please contact your Hillrom representative.

**The lift does not achieve maximum lifting capacity.**



1. Charge the battery.
2. If the problem persists, please contact your Hillrom representative.

**In event of unusual sounds or any leakage from the lift**



Please contact your Hillrom representative.

### 3.1 Spare Parts List (spare parts / model)

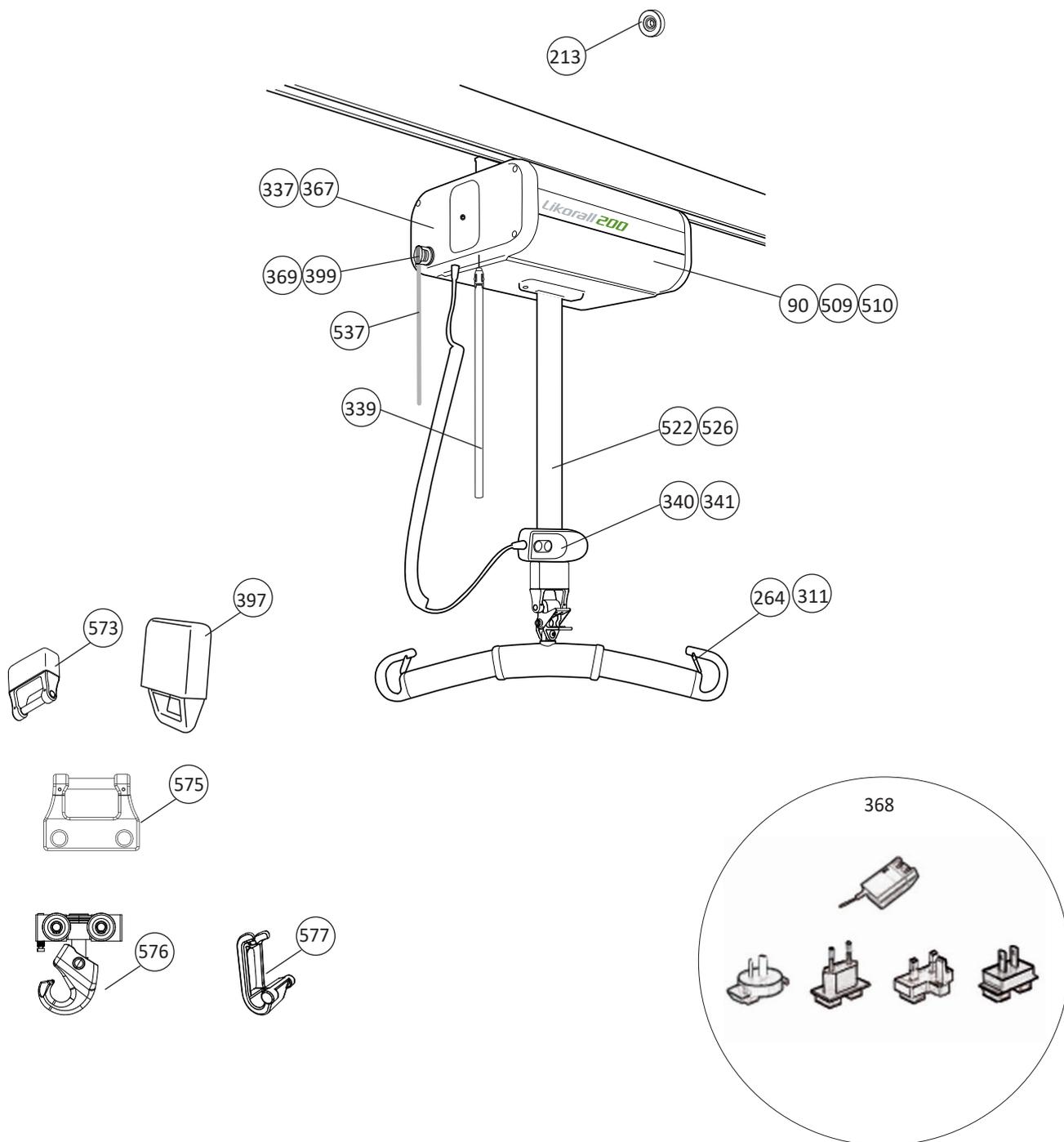
		Likorall									
PROD. NO.	POS. NO.	NAME	200	242 ES	242 ES R2R	242 S	242 S R2R	243 ES	250 ES	250 S IRC	
20090041	36	Spring Magazine		x	x	x	x				
31190007	78	Body/Handle set for Emergency Low. Device		x	x	x	x				
31190018	87	Latch		x	x	x	x	x			
31290007	90	Battery 2.4-2.6 Ah/12 V	x	x	x	x	x	x	x	x	
3106004	130	Parking Bracket (fits Instruction Placard <b>Likorall</b> , 3126003)									
31290056	186	Hook R2R		x	x	x	x				
31290057	203	Strap Stop		x	x	x	x				
31290059	210	Movable Strap Stop		x	x	x	x				
31290060	213	Plastic Wheel with Bearing	x	x	x	x	x	x	x	x	
31190021	252	Body/Handle set for Emerg. Low. Device (Stainless steel)		x	x	x	x				
31590011	264	Latch Universal SlingBar	x	x	x	x	x	x	x	x	
31290070	282	Cable for hand control LR242S/ES w. conn. plug 8-pol		x	x	x	x	x			
31390007	283	Restoration set Limiting switch		x (ES)		x (S)	x (S)				
31590014	311	Latch, composite	x	x	x	x	x	x	x	x	
31290073	337	Electronic card w cover LR 200	x								
31290075	339	Emergency Low.Device LR 200	x								
31290076	340	Hand control LR 200	x								
31290077	341	Hand control hook LR/MR	x	x	x	x	x	x	x	x	
31390009	367	Fuse 10A	x								
21090025	368	Charger CH01	x	x	x	x	x	x	x	x	
31290078	369	Emergency Guard Activator	x	x	x	x	x	x	x	x	
31290079	396	Fuse LR 12.5 A		x	x	x	x	x	x	x	
31590005	397	Q-Link	x	x	x	x	x	x	x	x	
31590025	398	Lift strap joint		x	x	x	x	x	x	x	
31290080	399	Emergency Stop Mk2	x	x	x	x	x	x	x	x	
21090061	415	Key pad Hand control 2-buttons									
31290085	430	Gable LR 250 S IRC								x	

### 3.1 Spare Parts List (spare parts / model)

Likorall										
PROD. NO.	POS. NO.	NAME	200	242 ES	242 ES R2R	242 S	242 S R2R	243 ES	250 ES	250 S IRC
31290086	431	Fuse 12 A		X	X	X	X	X	X	X
31290087	442	Cables, <b>Likorall</b>		X	X	X	X	X	X	X
31290091	494	Cable grommet		X	X	X	X	X	X	X
21090048	503	Long cable for handcontrol (8 pol 180 cm)		X	X	X	X			
31290109	504	Electronic card with cover 242 ES		X	X					
31290110	505	Electronic card with cover 242 S				X	X			
31290111	506	Electronic card with cover 243/250 ES						X	X	
31290092	509	Actuator Restoration set, <b>Likorall</b>	X	X	X	X	X	X	X	X
31290093	510	Electrical Motor, <b>Likorall</b>	X	X	X	X	X	X	X	X
31290098	518	LiftStrap for Easy Strapper, black		X	X	X	X			
31290100	520	LiftStrap for fixed SlingBars , black						X	X	
31290127	521	LiftStrap for Quick-release Hook , black		X	X	X	X	X	X	X
31290128	522	LiftStrap 1800 mm LR 200, grey	X							
31290103	523	Easy Strapper <b>Likorall</b> , black		X	X					
31290104	524	Easy Strapper <b>Likorall</b> , grey		X	X	X	X			
31290105	525	LiftStrap for Easy Strapper, grey		X	X	X	X			
31290129	526	LiftStrap 2000 mm LR 200, grey								
31290130	527	LiftStrap for Quick-release Hook, grey	X	X	X	X	X	X	X	X
31290108	528	LiftStrap for fixed SlingBars, grey						X	X	
31290114	532	Lift Strap 5.0 m, for Easy Strapper, grey: SPECIAL LIFT STRAP ONLY FOR USE WHEN CEILING HEIGHT EXCEEDS 3,5 meter (138 inch)		X	X	X	X			
31290123	537	Emergency Guard Strap	X	X	X	X	X	X	X	X
20090102	554	Snap On Handle		X	X					
31590027	573	Q-Link II	X				X	X	X	X
3126030	575	Carriage adapter <b>Likorall</b> for S65	X	X	X	X	X	X	X	X
3136015	576	Carriage Hook for MR/LR	X	X	X	X	X	X	X	X
3136016	577	Adapter MR/LR	X	X	X	X	X	X	X	X

### 3.2 Spare Parts Positions **Likorall** overhead lift

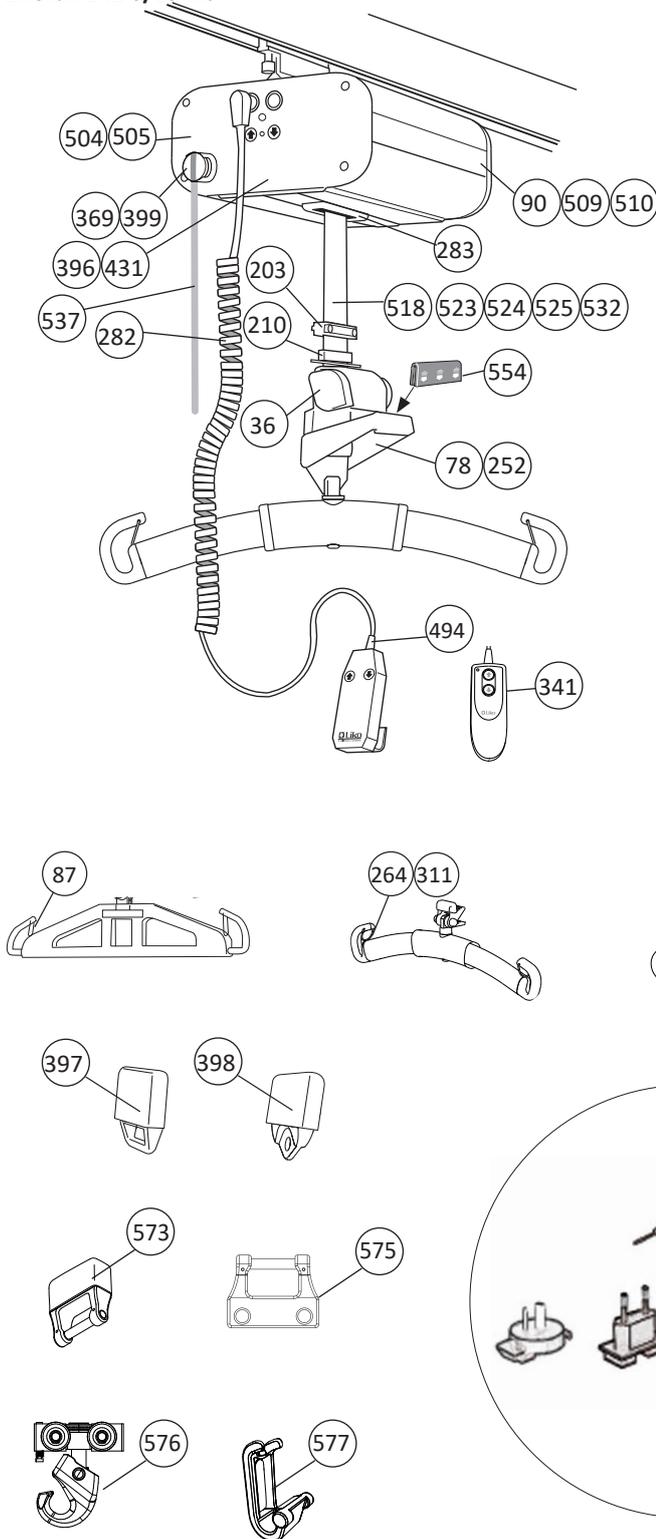
PROD. NO.	PRODUCT
3121001	<b>Likorall 200 lift</b>



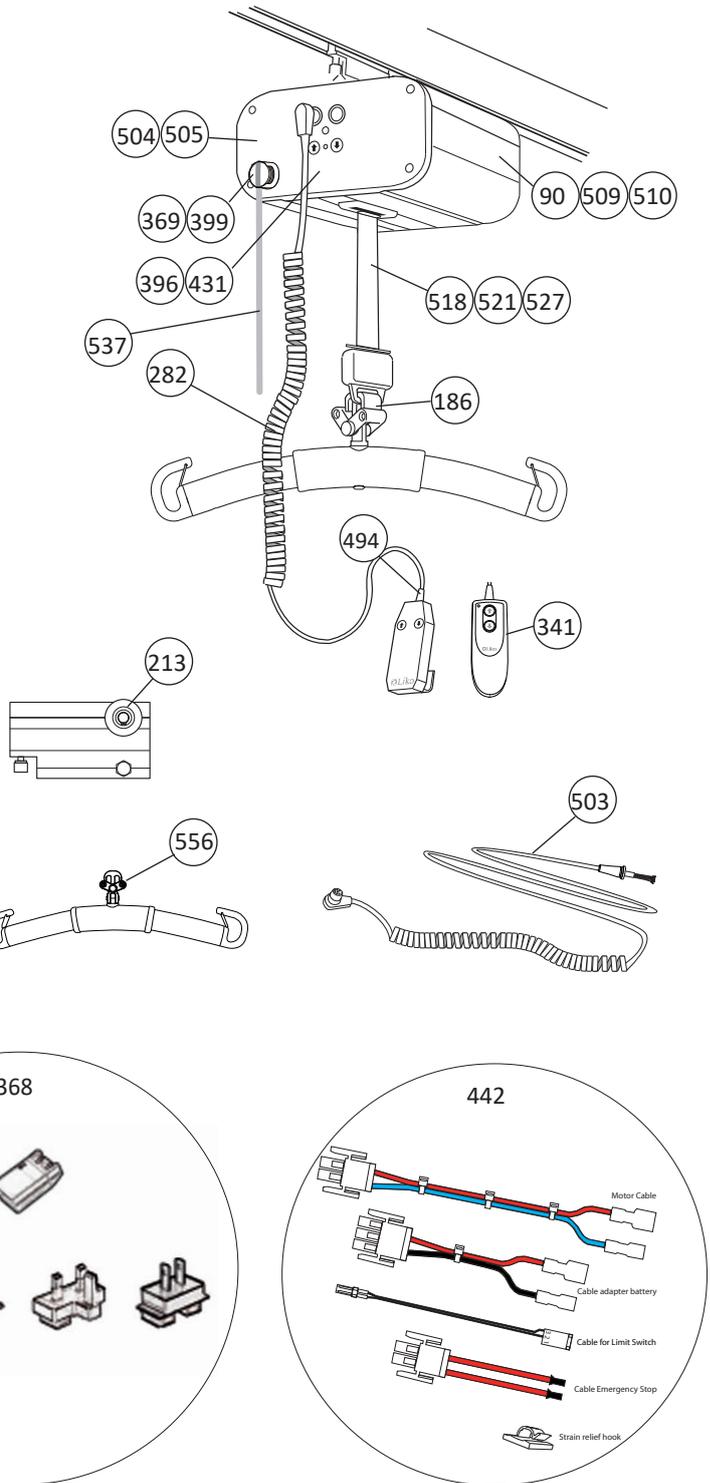
### 3.2 Spare Parts Positions **Likorall** overhead lift

PROD. NO.	PRODUCT	PROD. NO.	PRODUCT
3122005	<b>Likorall 242 ES lift</b>	3122007	<b>Likorall 242 ES R2R lift</b>
3122006	<b>Likorall 242 ES lift, white</b>	3122008	<b>Likorall 242 ES R2R lift, white</b>
3122009	<b>Likorall 242 S lift</b>	3122011	<b>Likorall 242 S R2R lift</b>
3122010	<b>Likorall 242 S lift, white</b>	3122012	<b>Likorall 242 S R2R lift, white</b>

**Likorall 242 S/ES lift**

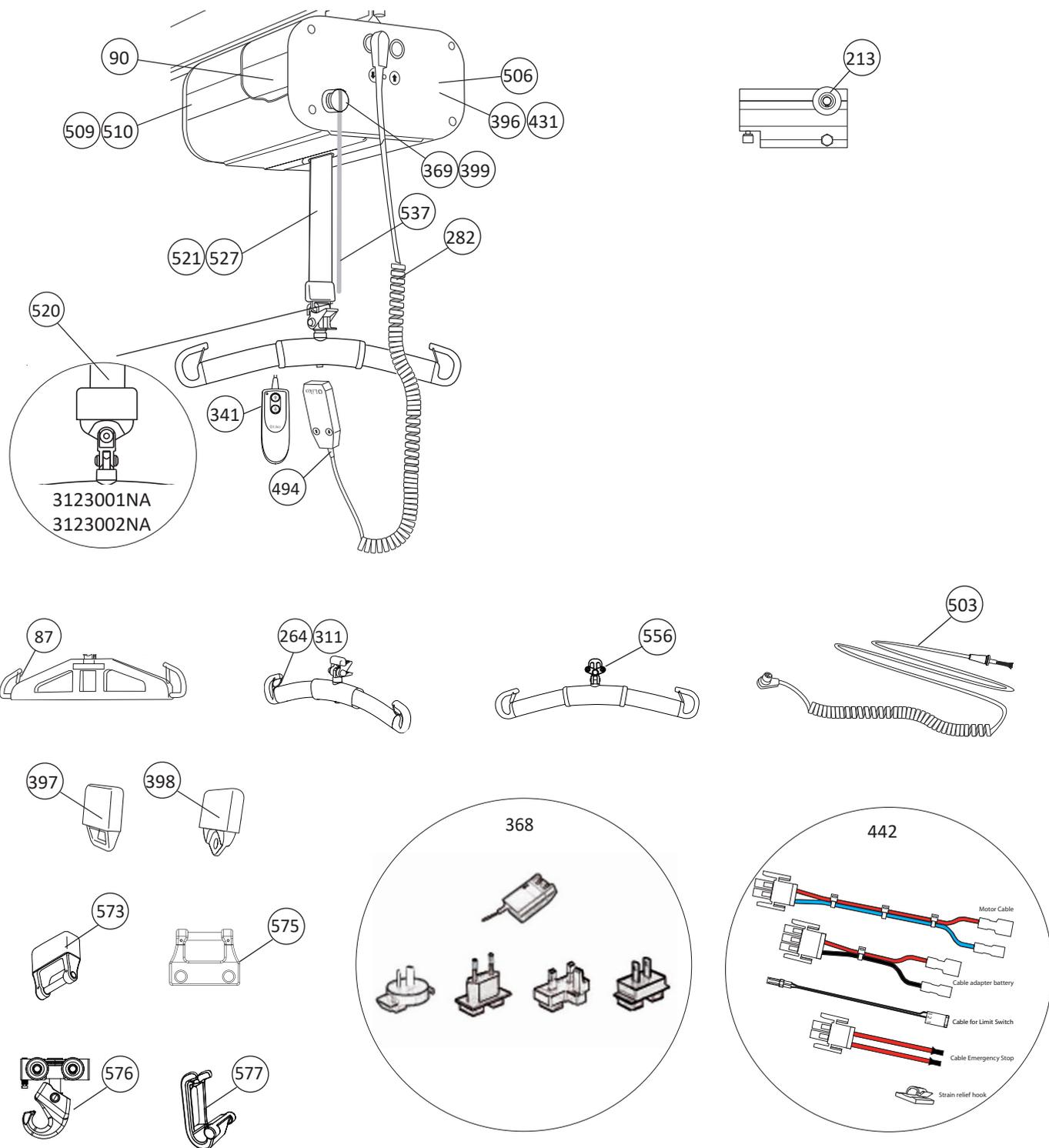


**Likorall 242 S/ES R2R lift**



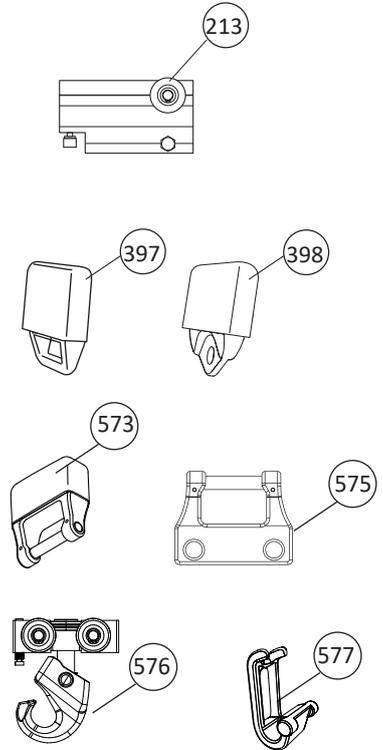
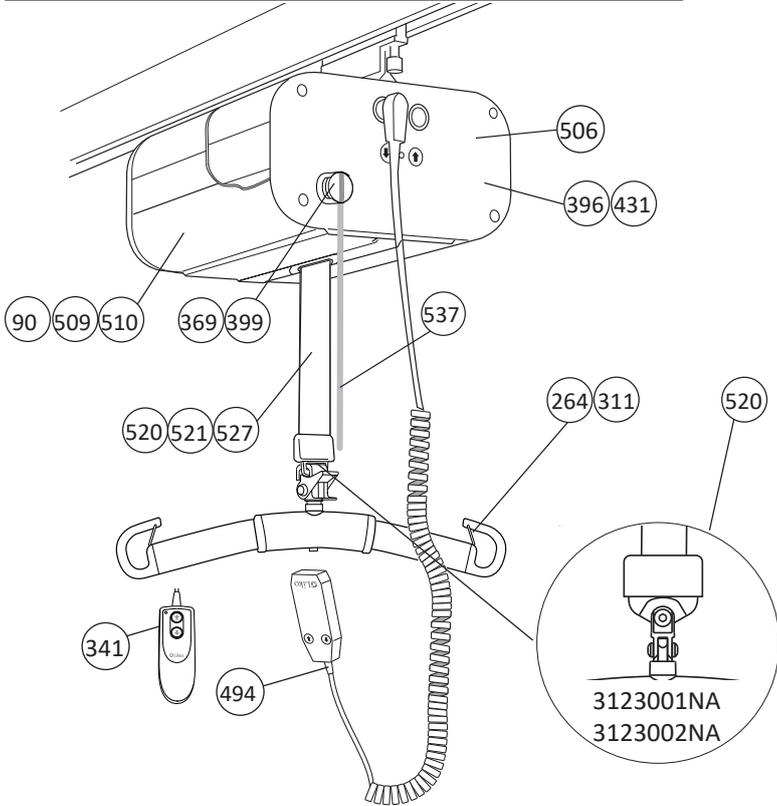
### 3.2 Spare Parts Positions **Likorall** overhead lift

PROD. NO.	PRODUCT
3123001	<b>Likorall</b> 243 ES lift
3123002	<b>Likorall</b> 243 ES lift, white

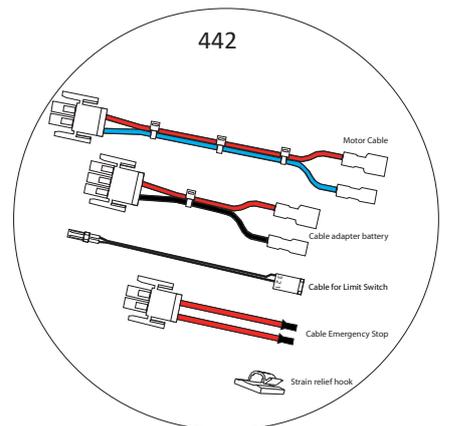
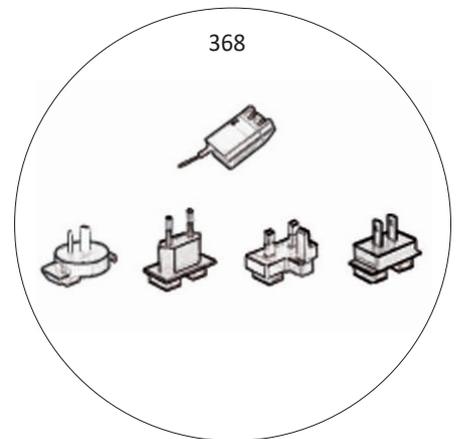
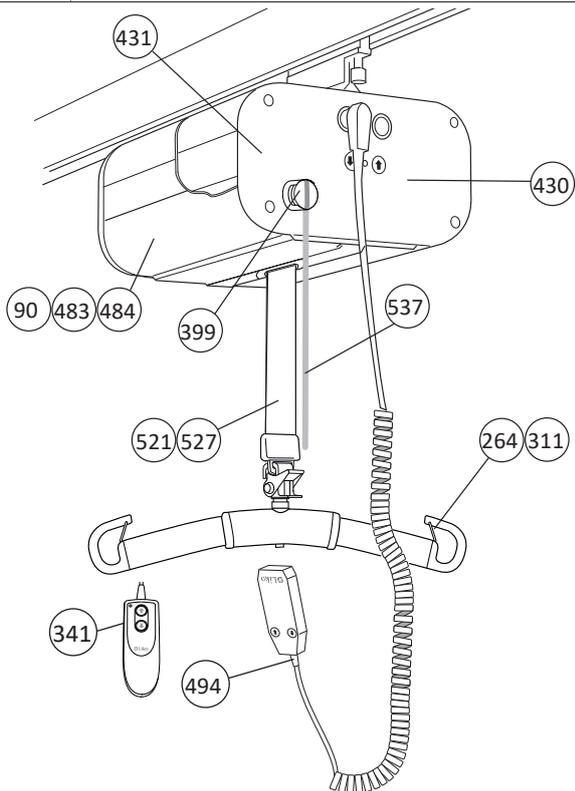


### 3.2 Spare Parts Positions **Likorall** overhead lift

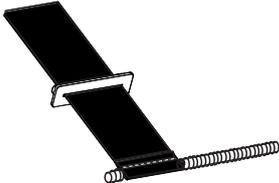
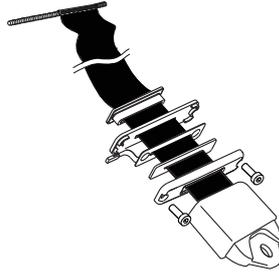
PROD. NO.	PRODUCT
3122501	<b>Likorall 250 ES lift</b>
3122502	<b>Likorall 250 ES lift, white</b>
3122502CN	<b>Likorall 250 ES lift, white</b>



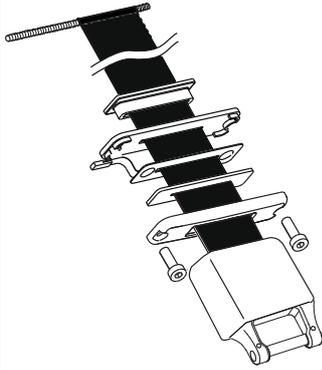
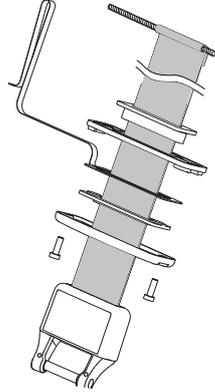
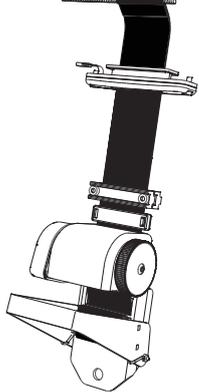
PROD. NO.	PRODUCT
3124050	<b>Likorall 250 S IRC lift</b>



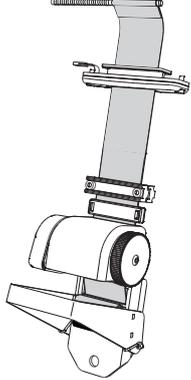
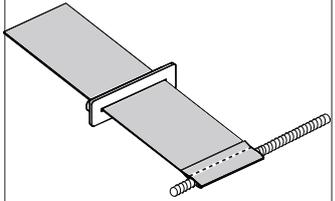
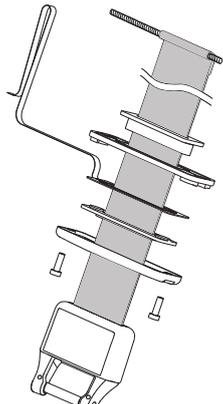
### 3.3 Spare Parts List **Likorall** overhead lift

LiftStrap																						
<p> It is very important that the correct lift strap is mounted to the overhead lift motor. Older versions of the <b>Likorall</b> overhead lift have black and shorter lift straps. (The <b>Likorall</b> 200 overhead lift has short and long grey lift straps) <b>Likorall</b> overhead lift serial number (S/N) controls the choice of lift strap.</p>																						
PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.																	
31290098	518	LiftStrap for Easy Strapper, black (31290103)	set		3EN670209																	
		<table border="1"> <thead> <tr> <th>Fits:</th> <th>Prod. No:</th> <th>Up to S/N:</th> </tr> </thead> <tbody> <tr> <td rowspan="4"><b>242 S</b></td> <td>3122009</td> <td rowspan="2">8 016 399</td> </tr> <tr> <td>3122010</td> </tr> <tr> <td>3122009NA</td> <td rowspan="2">286 004</td> </tr> <tr> <td>3122010NA</td> </tr> <tr> <td rowspan="4"><b>242 ES</b></td> <td>3122005</td> <td rowspan="2">8 102 099</td> </tr> <tr> <td>3122006</td> </tr> <tr> <td>3122005NA</td> <td rowspan="2">429 024</td> </tr> <tr> <td>3122006NA</td> </tr> </tbody> </table>				Fits:	Prod. No:	Up to S/N:	<b>242 S</b>	3122009	8 016 399	3122010	3122009NA	286 004	3122010NA	<b>242 ES</b>	3122005	8 102 099	3122006	3122005NA	429 024	3122006NA
		Fits:				Prod. No:	Up to S/N:															
		<b>242 S</b>				3122009	8 016 399															
						3122010																
						3122009NA	286 004															
						3122010NA																
		<b>242 ES</b>				3122005	8 102 099															
						3122006																
						3122005NA	429 024															
						3122006NA																
		31290100				520	LiftStrap for fixed SlingBars, black	set		3EN670211												
<table border="1"> <thead> <tr> <th>Fits:</th> <th>Prod. No:</th> <th>Up to S/N:</th> </tr> </thead> <tbody> <tr> <td rowspan="4"><b>243 ES</b></td> <td>3123001</td> <td rowspan="2">8 203 599</td> </tr> <tr> <td>3123002</td> </tr> <tr> <td>3123001NA</td> <td rowspan="2">368 003</td> </tr> <tr> <td>3123002NA</td> </tr> <tr> <td rowspan="4"><b>250 ES</b></td> <td>3122501</td> <td rowspan="2">8 303 699</td> </tr> <tr> <td>3122502</td> </tr> <tr> <td>3122501NA</td> <td rowspan="2">6 604 004</td> </tr> <tr> <td>3122502NA</td> </tr> </tbody> </table>	Fits:		Prod. No:	Up to S/N:	<b>243 ES</b>		3123001				8 203 599	3123002	3123001NA	368 003	3123002NA	<b>250 ES</b>	3122501	8 303 699	3122502	3122501NA	6 604 004	3122502NA
Fits:	Prod. No:		Up to S/N:																			
<b>243 ES</b>	3123001		8 203 599																			
	3123002																					
	3123001NA		368 003																			
	3123002NA																					
<b>250 ES</b>	3122501		8 303 699																			
	3122502																					
	3122501NA		6 604 004																			
	3122502NA																					

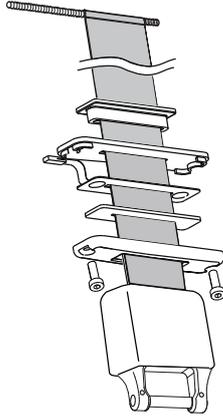
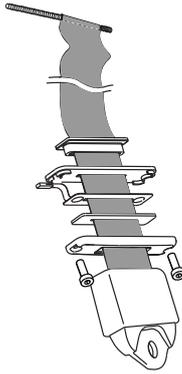
### 3.3 Spare Parts List **Likorall** overhead lift

LiftStrap							
 <p>It is very important that the correct lift strap is mounted to the overhead lift motor. Older versions of the <b>Likorall</b> overhead lift have black and shorter lift straps. (<b>Likorall</b> 200 overhead lift has short and long grey lift straps) <b>Likorall</b> overhead lift serial number (S/N) controls the choice of lift strap.</p>							
PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.		
31290127	521	LiftStrap for Quick-release Hook, black	set		3EN670212		
		Fits:				Prod. No:	Between S/N: Up to S/N:
		242 S R2R				3122011	7 920 001 - 8 016 112 and 8 016 169 - 8 016 399
						3122011NA 3122012NA	260 603 - 286 004
						3122012	8 016 399
		242 ES R2R				3122007 3122008	8 102 099
						3122007NA 3122008NA	423 745 - 429 009
		243 ES				3123001 3123002	8 203 599
						3123001NA 3123002NA	368 003
		250 ES				3122501 3122502	8 303 699
3122501NA 3122502NA	6 604 004						
250 S IRC	3124050	4004					
31290128	522	LiftStrap <u>1800 mm</u> LR 200, grey	set		3SE670213		
		Fits:				Prod. No:	S/N:
		200				3121001	up to 8 405 800 and S/N: 8 405 969 - 8 406 299
31290103	523	Easy Strapper <b>Likorall</b> , black	set		3EN670214		
		Fits:				Prod. No:	Up to S/N:
		242 S				3122009	8 016 399
						3122010	
						3122009NA	286 004
						3122010NA	
		242 ES				3122005	8 102 099
						3122006	
						3122005NA	429 024
						3122006NA	

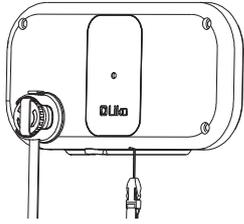
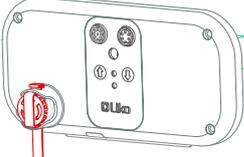
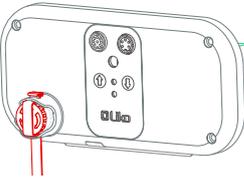
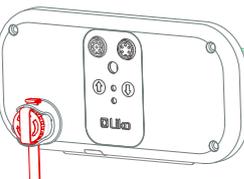
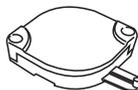
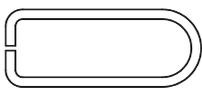
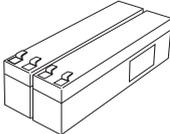
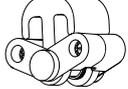
### 3.3 Spare Parts List **Likorall** overhead lift

<b>LiftStrap</b>							
<p> It is very important that the correct lift strap is mounted to the overhead lift motor.                      Latest versions of <b>Likorall</b> overhead lift have grey and longer lift straps. (<b>Likorall</b> 200 overhead lift has short and long grey lift straps)  <b>Likorall</b> overhead lift serial number (S/N) controls the choice of lift strap.</p>							
PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.		
31290104	524	Easy Strapper <b>Likorall</b> , grey	set		3EN670215		
		Fits:				Prod. No:	From S/N:
		<b>242 S</b>				3122009	8 016 400
						3122010	
						3122009NA	286 005
						3122010NA	
		<b>242 ES</b>				3122005	8 102 100
						3122006	
						3122005NA	429 025
						3122006NA	
31290105	525	LiftStrap for Easy Strapper, grey (31290104)	set		3EN670216		
		Fits:				Prod. No:	From S/N:
		<b>242 S</b>				3122009	8 016 400
						3122010	
						3122009NA	286 005
						3122010NA	
		<b>242 ES</b>				3122005	8 102 100
						3122006	
						3122005NA	429 025
						3122006NA	
31290129	526	LiftStrap <u>2000 mm</u> LR 200, grey	set		3SE670217		
		Fits:				Prod. No:	S/N:
		<b>200</b>				3121001	8 405 801 - 8 405 968 and from S/N 8 406 300

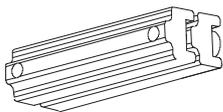
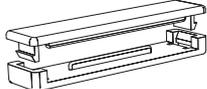
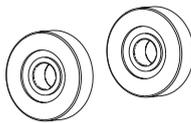
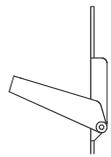
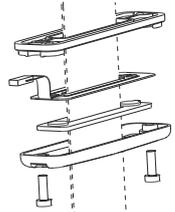
### 3.3 Spare Parts List **Likorall** overhead lift

LiftStrap							
<p> It is very important that the correct lift strap is mounted to the overhead lift motor.                      Latest versions of the <b>Likorall</b> overhead lift have grey and longer lift straps. (<b>Likorall 200</b> overhead lift has short and long grey lift straps)  <b>Likorall</b> overhead lift serial number (S/N) controls the choice of lift strap.</p>							
PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.		
31290130	527	LiftStrap for Quick-release Hook, grey	set		3EN670218		
		<b>Fits:</b>				<b>Prod. No:</b>	<b>From S/N:</b>
		<b>242 S R2R</b>				3122011	8 016 400 (and 8 016 113 - 8 016 168)
						3122011NA 3122012NA	286 005
						3122012	8 016 400
		<b>242 ES R2R</b>				3122007 3122008	8 102 100
						3122007NA 3122008NA	429 010
		<b>243 ES</b>				3123001 3123002	8 203 600
						3123001NA 3123002NA	368 004
		<b>250 ES</b>				3122501 3122502	8 303 700
						3122501NA 3122502NA	6 604 005
						3122502CN	8 510 001
<b>250 S IRC</b>	3124050	4005					
31290108	528	LiftStrap for fixed SlingBars, grey	set		3EN670219		
		<b>Fits:</b>				<b>Prod. No:</b>	<b>From S/N:</b>
		<b>243 ES</b>				3123001	8 203 600
						3123002	
						3123001NA	368 004
						3123002NA	
		<b>250 ES</b>				3122501	8 303 700
						3122502	
						3122501NA	6 604 005
						3122502NA	
		3122502CN				8 510 001	
		31290114				532	<p> Extended lift strap, only for use on <b>Likorall</b> overhead lift installed in room with a ceiling height from approx. 3.5 - Max 3.95 Meter / 138 - max.155 Inch, from floor to rail where the motor is attached</p> <p>Lift Strap 5.0 m, for Easy Strapper, grey</p>
<p><b>Fits:</b></p> <p><b>242 S</b></p> <p><b>242 ES</b></p>							

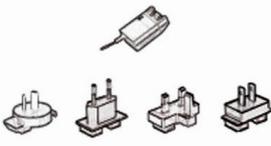
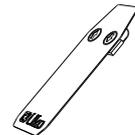
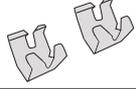
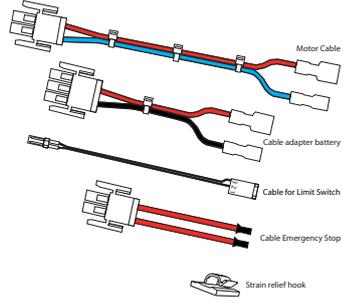
### 3.3 Spare Parts List **Likorall** overhead lift

PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.
<b>Electronic Cards</b>					
31290073	337	Electronic card with cover LR 200	pce		3SE640292
31290085	430	Gable LR 250 S IRC	pce		3SE650262
31290109	504	Electronic Card with Cover 242 ES <i>(From S/N 423745)</i>	pce		3SE690235
31290110	505	Electronic Card with Cover 242 S <i>(From S/N 262603)</i>	pce		
31290111	506	Electronic Card with Cover 243/250 ES	pce		3SE690234
<b>Other spare parts</b>					
20090041	36	Spring Magazine	pce		3EN630214
31190007	78	Body/Handle set for Emergency, Lowering Device	pce		3EN650209
31190018	87	Latch	pair		3EN640271
31290007	90	Battery 2.4-2.6 Ah/12 V	pair		3SE630239
3106004	130	Parking Bracket <i>Fits Instruction Placard <b>Likorall</b>, 3126003</i>	pce		-
31290056	186	Hook R2R	pce		3SE640288

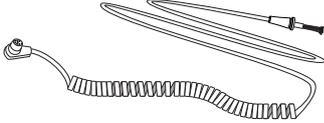
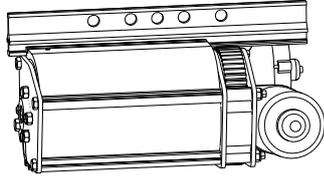
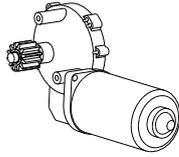
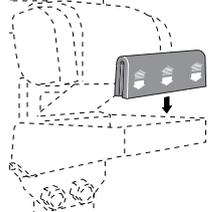
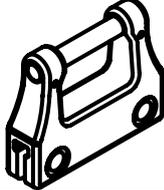
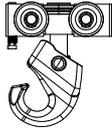
### 3.3 Spare Parts List **Likorall** overhead lift

PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.
31290057	203	Strap Stop (grey)	pce		3EN640287
31290059	210	Movable Strap Stop, 10 pce	set		3EN640286
31290060	213	Plastic Wheel with Bearing	pair		3SE650207
31190021	252	Body/Handle set for Emergency Lowering Device ( <i>Stainless steel</i> )	pce		3EN650209
31590011	264	Latch universal	pair		3SE630229
31290070	282	Cable f hand control LR 242 S/ES (8-pin connector)	pce		3EN650203
31390007	283	Restoration set Limiting switch <b>⚠ Fits only with liftstrap assembled with mechanical emergency lowering.</b>	set		3EN650204
31590014	311	Latch, composite <i>Fits Universal SlingBar from S/N 1299511</i>	pair		3SE640242
31290075	339	Emergency Lowering Device LR 200	pce		3SE640294
31290076	340	Hand control LR 200	pce		3SE640295
31290077	341	Hand control hook LR/MR <i>Fits Hand control 3126050, 3136002, 31290076</i>	pce		3SE640296
31390009	367	Fuse 10A, 10 pce	set		3SE650231

### 3.3 Spare Parts List **Likorall** overhead lift

PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.
21090025	368	Charger CH01	pce		3EN650232
31290078	369	Emergency Guard Activator	pce		3SE650233
31290079	396	Fuse LR 12.5 A, 10 pce Only to <b>Likorall</b> 242, 243, 250 with this type of fuse holder: 	set		3SE640238
31590005	397	Q-Link	set		3EN640236
31590025	398	Lift strap joint	set		3EN640237
31590027	573	Q-Link II	set		3EN690292
31290080	399	Emergency Stop Mk2	pce		3EN650250
21090061	415	Key pad Hand Control 2-buttons (Replaces Spare Part No. 21090060 and 21090038)	pce		3EN650261
31290086	431	Fuse 12 A, 10 pce Only to <b>Likorall</b> 242, 243, 250 with this type of fuse holder: 	set		3SE650271
31290087	442	Cables, <b>Likorall</b>	set		3SE650274
31290091	494	Cable grommet, 10 pce	set		3SE690214

### 3.3 Spare Parts List **Likorall** overhead lift

PROD. NO.	POS. NO.	NAME	UNIT		ASSEMBLY INSTR.
21090048	503	Long Cable for hand control 8pol Cable 180 cm, black	pce		3EN690215
31290092	509	Actuator Restoration set, <b>Likorall</b> (Replaces Spare Part No. 31290054 and 31290089)	pce		3EN690206
31290093	510	Electrical Motor, <b>Likorall</b> (Replaces Spare Part No. 31290069 and 31290090)	pce		3SE690207
31290123	537	Emergency Guard Strap 2000 mm	pce		3SE690238
20090102	554	Snap-on handle, 10 pce	set		-
3126030	575	Carriage adapter <b>Likorall</b> for S65	pce		3EN680108
3136015	576	Carriage hook for MR/LR	pce		3EN680069
3136016	577	Adapter MR/LR Fits Carriage hook for MR/LR, Prod. No. 3136015	pce		-

## 4.0 Spare Parts Assembly Information

Assembly Instructions to Liko spare parts are attached with the spare parts. The assembly instructions are also available on the Partner Web and in Agile (internally). Document number to spare parts assembly instructions can be found in the spare parts list.

INFORMATION

Document Number

**Cable for handcontrol LR 242S, ES** 

**Assembly Instruction**

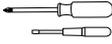
Product No. 31290070

**Contains:** Hand control cabel **Qty:** 1

Part	Prod. No.
Hand Control 242 ES 2 Button	3126034
Hand Control LR 242 ES 4MS	3126035
Hand Control LR 242 ES 4 Button	3126036
Hand Control LR 242 ES 6-Button	3126038
Hand Control Ultra Twist	21090053
Hand Control Ultra Control Unit	21090059

Print this document in colour!

**Tools required:**



**Cable colour**

1	Green
2	Pink
3	White
4	Red
5	Blue
6	Yellow
7	Brown
8	Grey

**NOTE**  
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.

3EN650203 Rev. 5  
ENGLISH

Enhancing outcomes for patients and their caregivers: 

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### NOTE

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

## 5.0 Periodic Inspection Information, **Likorall** overhead lift

 Liko overhead lifts must be thoroughly inspected at least once per year. Inspection and service must be carried out by Hillrom authorized personnel. For **Likorall** overhead lift Periodic Inspection overhead lift (3EN191001) is available on the Partner Web and in Agile (internally).

Lift information		Customer reference	
Lift:		Agreement No:	
Product Number:		Name:	
Serial Number:		Address:	
Production year:		Post Code:	

**⚠️** Liko overhead lifts must be thoroughly inspected at least once per year. Inspection and service must be carried out by Hillrom authorized personnel. If the lift is installed in a customer environment such as indoor pool or bathroom, see inspection page 11 before starting inspection. NOTE: For inspection of the rail system, see Periodic inspection Liko® Rail System (3EN11001) if present while in order prior of this instruction.

OVERHEAD LIFT	Action required	Approved	Not approved
1 General check			
2 General inspection			
3 Carriage			
4 Hand Control			
5 Emergency stop			
6 Emergency lowering			
7 Limit Switch (Not applicable for Moverlift)			
8 Clamper (Not related for Moverlift)			
9 Slings			
10 Lift Strap			

ENVIRONMENTAL IMPACT	N/A	Action required	Approved	Not approved
11 Environmental requirements				

LOAD TESTING	Max Load applied	Approved	Not approved
12 Maximum Load overhead lift	kg / lbs		
Emergency lowering Maximum Load	kg / lbs		

Required Measurements:	Measured dimensions:	Approved	Not approved
13 Load capacity / Lift tray lift	inch		

Clearance	N/A	Action required	Approved	Not approved
14 Lateral Spacing mast				

**Inspection sign off**  
Complete inspection according to instructions for the check points (page 2-8), fill in this page and sign below.  
Approval to use the overhead lift:  Approved  Not approved  
If the overhead lift has one or more inspection points "Not approved", the lift must not be used.  
Action required: Actions according to the inspection items "NOT APPROVED" should be performed immediately. After performed actions the lift can be used. If anything is doubtful or if you have questions, please contact Hillrom or your local Hillrom representative. Contact information is to be found at [www.hillrom.com](http://www.hillrom.com).  
Inspection performed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Next inspection: \_\_\_\_\_

Inspection performed in accordance with ISO 9001:2008 Annex B Periodic inspection  
Enhancing outcomes for patients and their caregivers 

Periodic Inspection may only be performed by personnel authorized by Hillrom 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** system
- 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 SupportVests to **Sabina** sit-to-stand lift.

## 6.0 Preventive Maintenance

### Expected Life Time

The expected life time of a **Likorall** overhead lift is 10 years of normal use provided that recommended Periodic Inspection and Preventive Maintenance is performed by personnel authorized by **Hillrom** and using original **Liko** spare parts.

However certain parts have a shorter life cycle and need to be replaced in order for the overhead lift to meet its expected life time. They are listed below.

### Parts that needs to be replaced:

Part	Part No.	Replacement interval:	Replacement:
Lift Strap	See Spare Parts List	5 years	 Must be replaced before 5 years of use, or if wear and tear is detected.
Battery	31290007	3 years	Can be used more than 3 years if no malfunction is detected.
HandControl	See User Manual or Liko Product List	2 years	Can be used more than 2 years if no malfunction is detected.
Extension Belt	3121670 3121671 3126072 3126073	5 years	The recommendation is to replace the Extension Belt before 5 years of use, or if wear and tear is detected.

# 7.0 Installation Instructions

## Likorall overhead lift

### Before installation:

Read and understand the contents of the **LikoOverhead System Installation Hand Book**; 3EN680001. Make sure the maximum load of the installed rail system is equal to or larger than the maximum load of the **Likorall** overhead lift.

### Basic condition for installation:

It is recommended to assemble the carriage to the lift motor before installation in the rail system.

#### Overhead lift:

3121001	<b>Likorall</b> 200
3122005	<b>Likorall</b> 242 ES
3122006	<b>Likorall</b> 242 ES
3122009	<b>Likorall</b> 242 S
3122010	<b>Likorall</b> 242 S
3122007	<b>Likorall</b> 242 ES R2R
3122008	<b>Likorall</b> 242 ES R2R
3122011	<b>Likorall</b> 242 S R2R
3122012	<b>Likorall</b> 242 S R2R
3123001	<b>Likorall</b> 243 ES
3123002	<b>Likorall</b> 243 ES
3122501	<b>Likorall</b> 250 ES
3122502	<b>Likorall</b> 250 ES
3124050	<b>Likorall</b> 250 S IRC

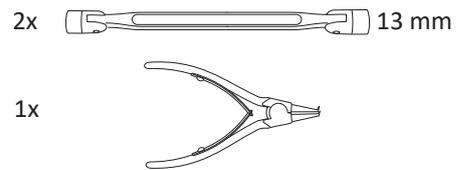
#### Colour:

natural
natural
white
natural

#### Maximum load:

Max 200 kg (440 lbs)
Max 230 kg (507 lbs)
Max 230 kg (507 lbs)
Max 250 kg (550 lbs)
Max 250 kg (550 lbs)
Max 250 kg (550 lbs)

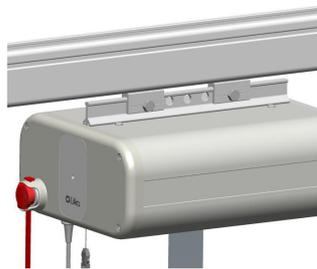
#### Tools Required



### Likorall overhead lift attached to the different types of carriages:



3126011 Carriage (2pcs) with brake



3126012 Carriage (2p) without brake



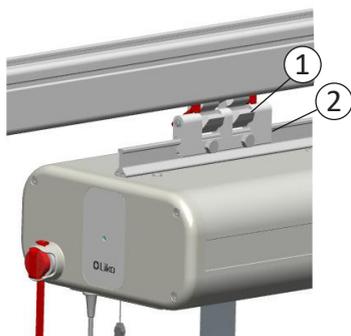
3126028 Carriage LR 360° for R2R



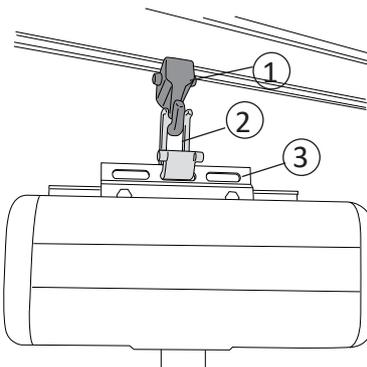
3126014 Carriage for R2R w/o brake



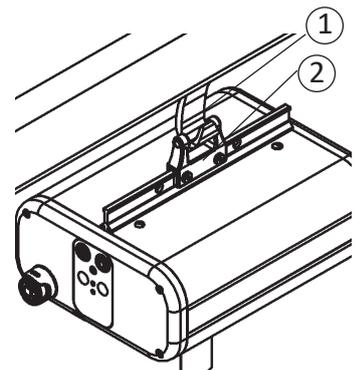
3126015 Carriage for R2R, with brake



1) 3126008 Quick-release Carriage LR  
2) 3126009 Quick-release adapter



1) 3136015 Carriage with hook for MR/LR  
2) 3126029 Carriage adapter LR  
3) 3136016 Adapter MR/LR



1) 3136011 S65 Carriage with Hook  
2) 3126030 Carriage Adapter LR for S65

## 7.0 Installation Instructions

### Likorall overhead lift

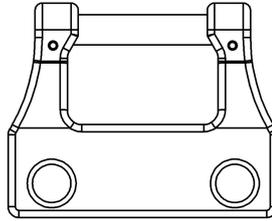
#### 3136011 S65 Carriage with Single Hook

**Contains:**

Carriage Adapter LR for S65  
Shoulder Bolts  
M6 Fasteners

**Qty:**

1  
2  
4



x 1



x 2



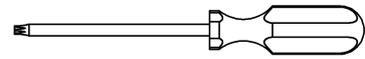
x 4

**Fits:**

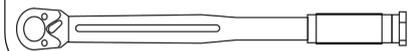
Likorall™ overhead lift (all models)

 This symbol indicates a warning.

 **Important!**  
For safety reasons, it is essential that this component is correctly fitted to the lift according to these instructions.

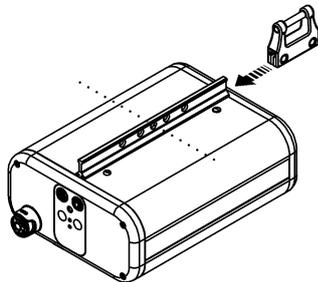
**Tools Required:**

T30 x2



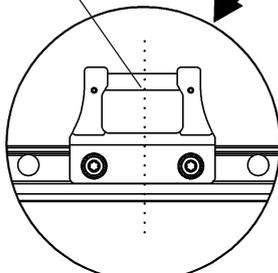
#### Installing the Carriage Adapter LR for S65:

1. Slide the adapter onto the lift mounting bracket.

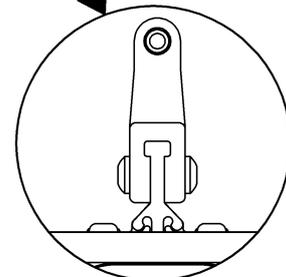
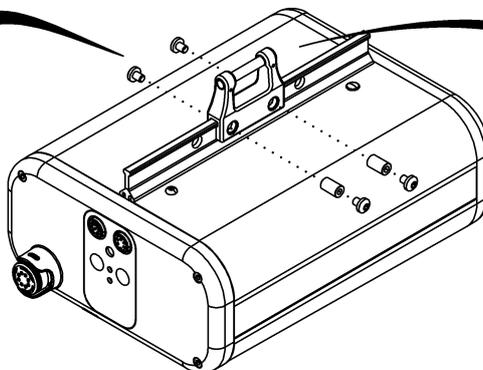


2. Place the adapter in the center of the mounting bracket and affix with the accompanying M6 screws (4) and accompanying 10 mm x 16.5 mm threaded pins (2). Stabilize the screws on one side using one T30 driver, while attaching the screws and pins on the opposite side with the other T30 driver. The recommended bolt torque is 4 N-m (35 in-lbs). Make sure the screws are entirely inserted when tightened. See the illustrations below.

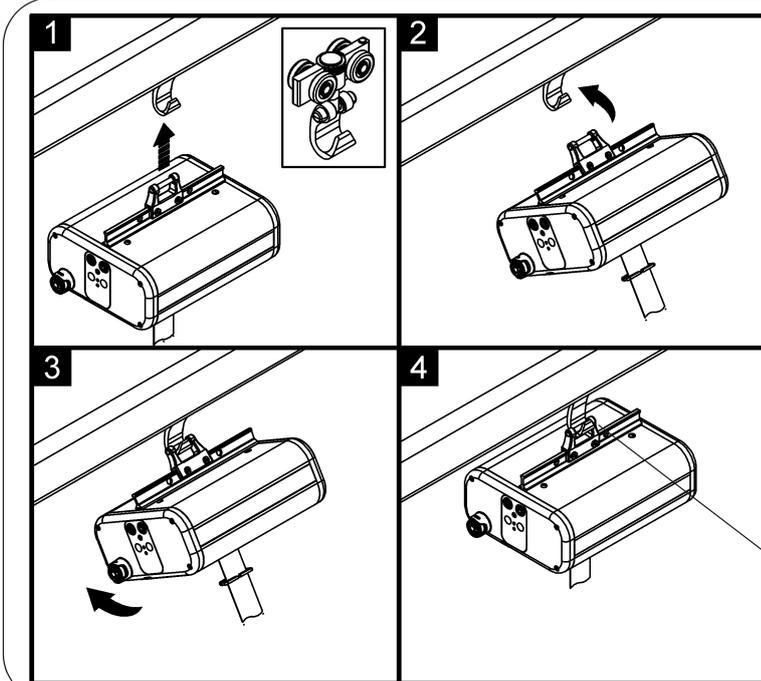
Center line



Front View



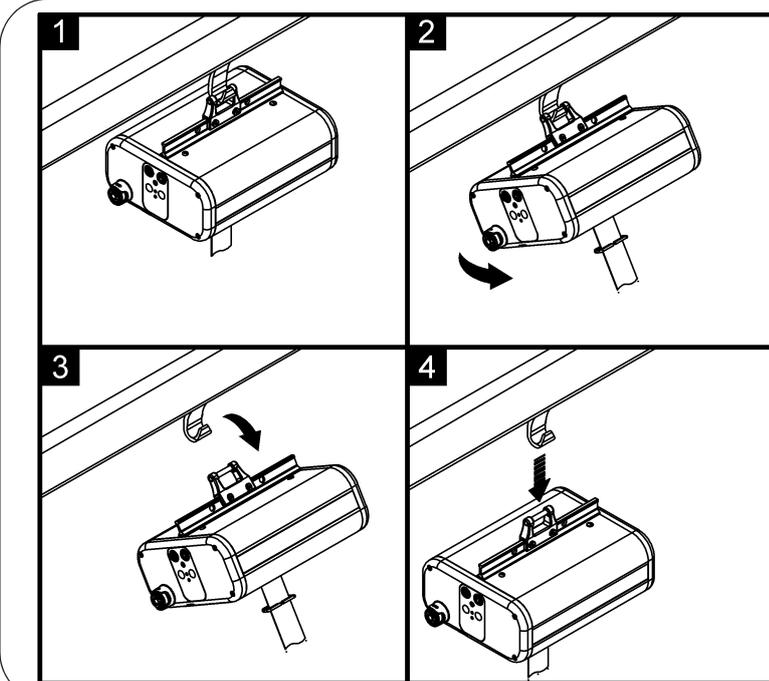
Side View



**⚠ Safety critical assembly!**

**⚠** Make sure the rolling pin on the adapter is resting straightly and securely at the bottom of the S65 carriage hook!

**Dismounting:** Follow the steps below to remove the lift assembly from the S65 carriage hook.



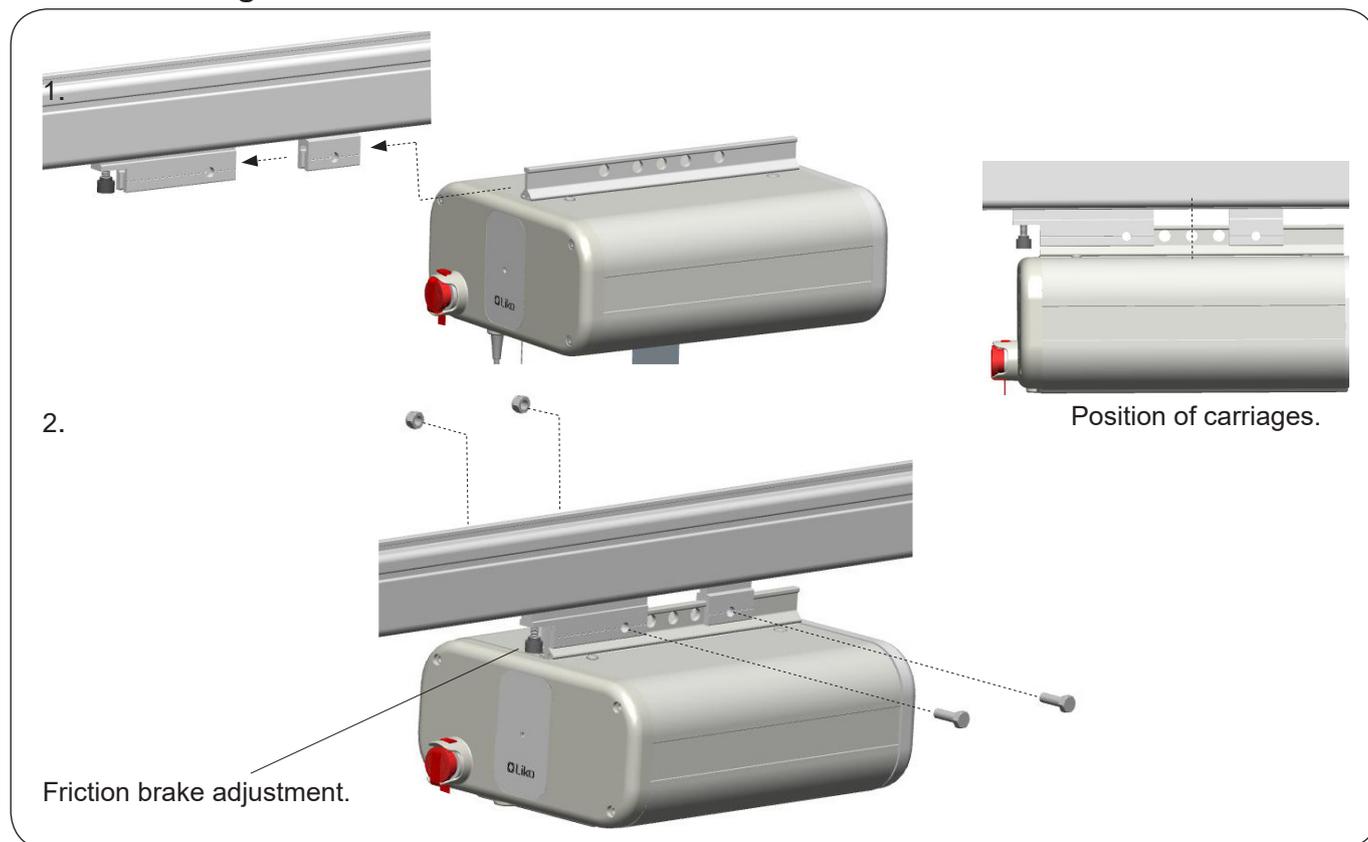
**⚠ NOTE**

- Make sure the adapter is attached according to the instructions.
- Check all functions related to the adapter.
- Make sure when mounting the carriage that it is resting securely in the S65 hook and is not angled or leaning to one side.
- Repairs and maintenance may only be performed by personnel authorized by Hill-Rom and using original Liko™ spare parts.

## 7.0 Installation Instructions

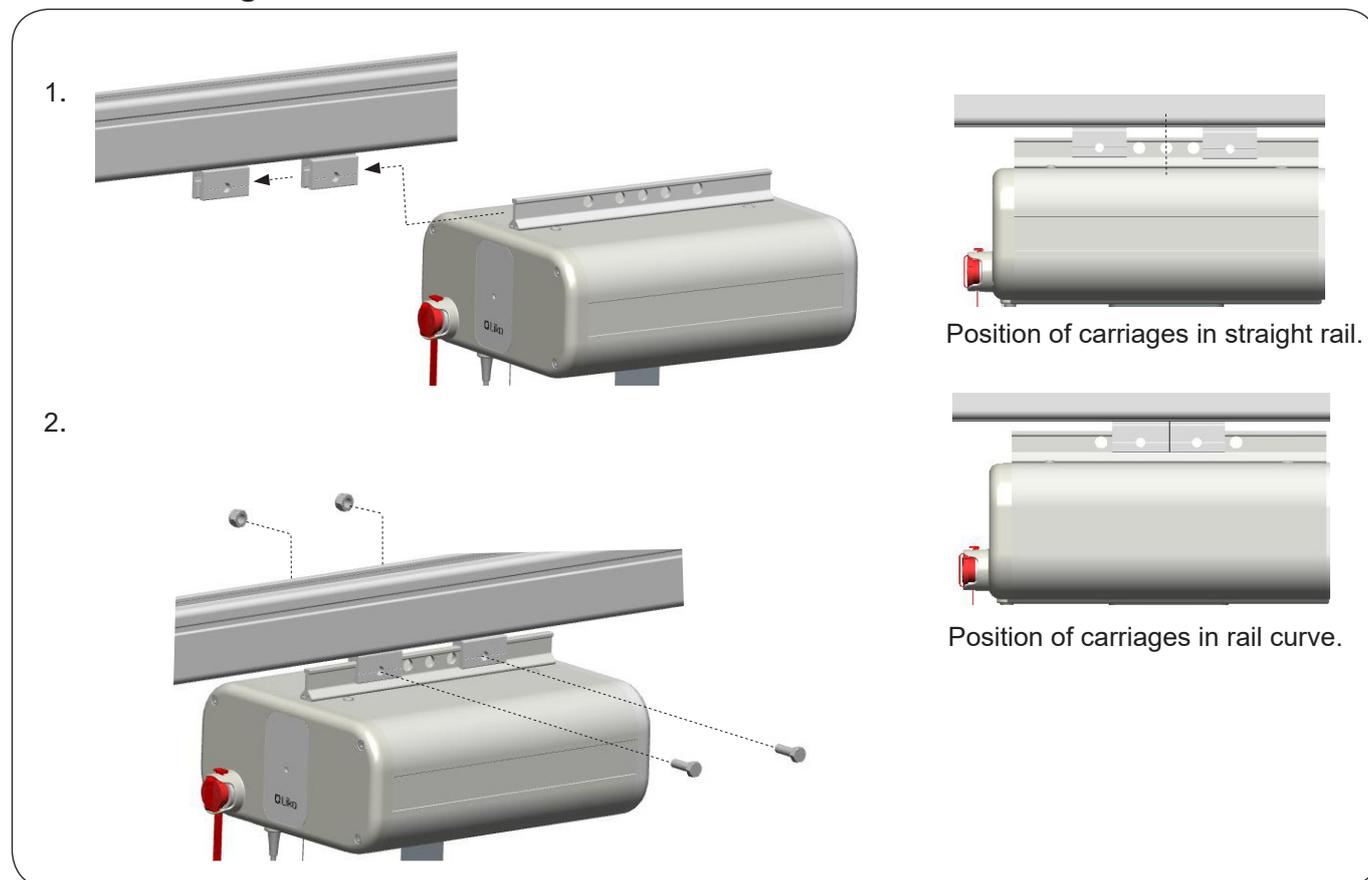
### Likorall overhead lift

#### 3126011 Carriage with brake LR



Note! 3126011 Carriage is not compatible with rail curve 90° and rail curve 45°.

#### 3126012 Carriage without brake

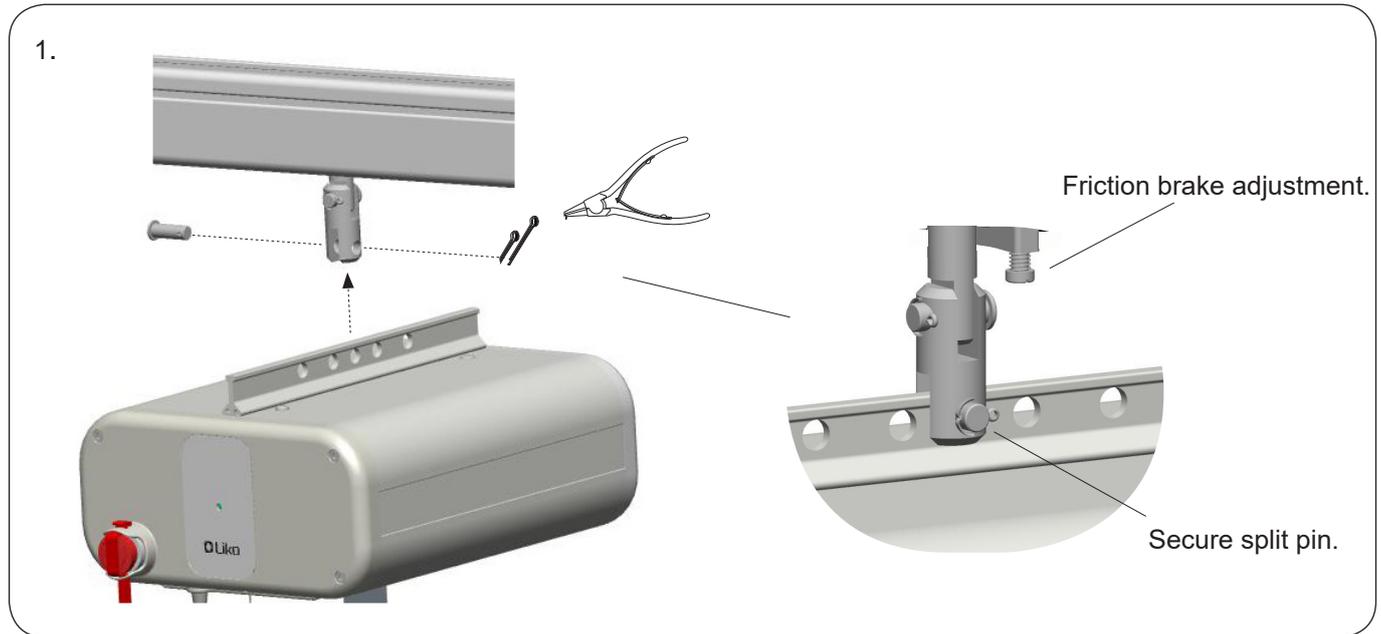


△ Make a functional check of the system, according to the Installation Hand book

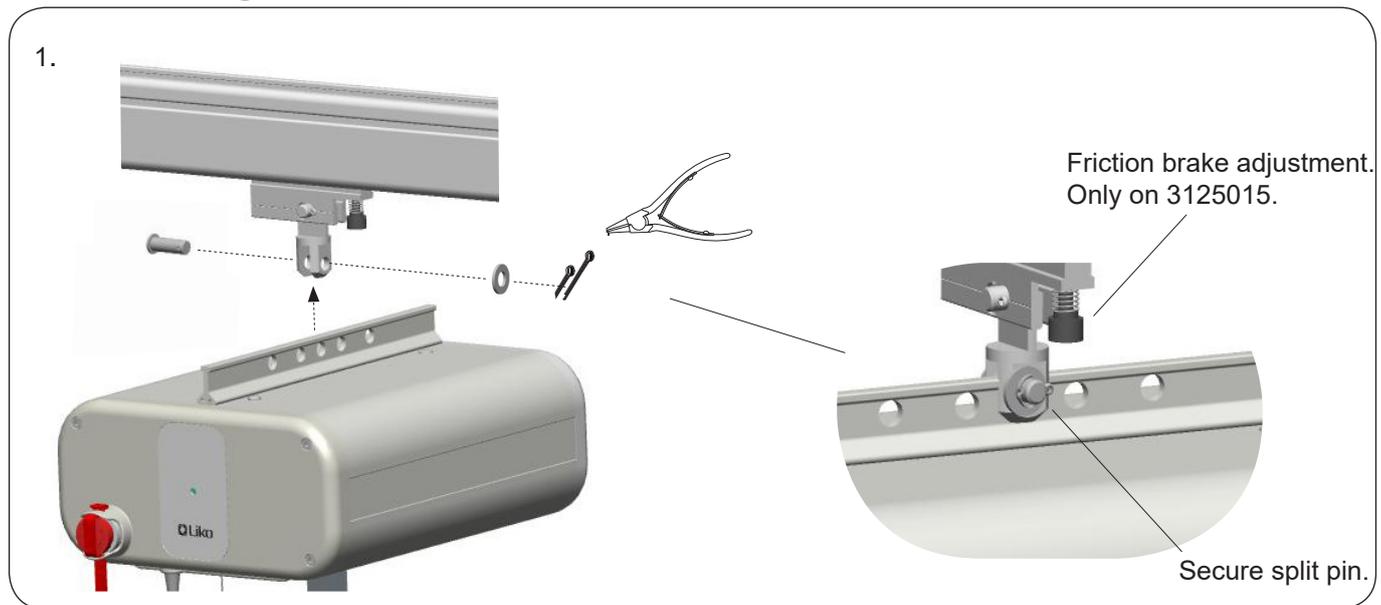
## 7.0 Installation Instructions

### Likorall overhead lift

#### 3126028 Carriage LR 360° for R2R



#### 3126015 Carriage for R2R, with brake 3126014 Carriage for R2R, without brake



#### 3126008 Quick-release Carriage LR



Connect the lift unit and Quick-release adapter to the Quick-release carriage.

△ Make a functional check of the system, according to the Installation Hand book

## 7.0 Installation Instructions

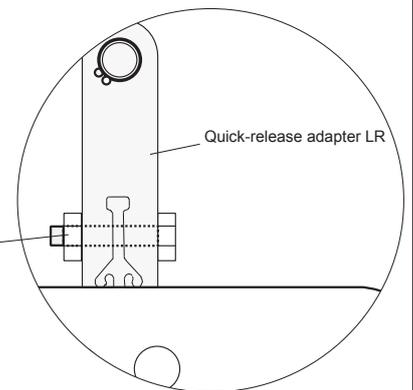
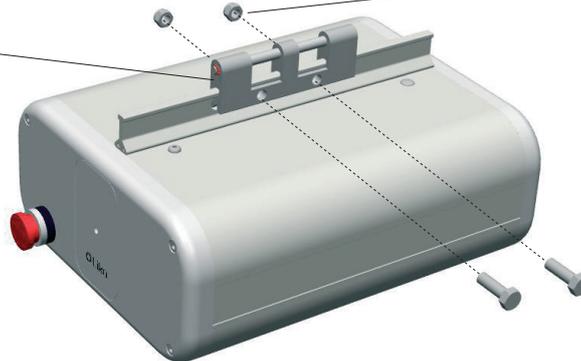
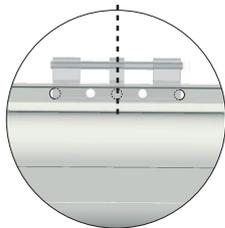
**Likorall** overhead lift

### 3126009 Quick-release Adapter LR

**Mounting the Quick-release adapter:**  
**Montering av Snabbkopplingsadapter:**



1. Slide the adapter on to the lift units mounting bracket.  
Skjut adaptern på lyftmotorns fästskena.



- △ Safety critical assembly!
- △ Säkerhetskritisk montering!

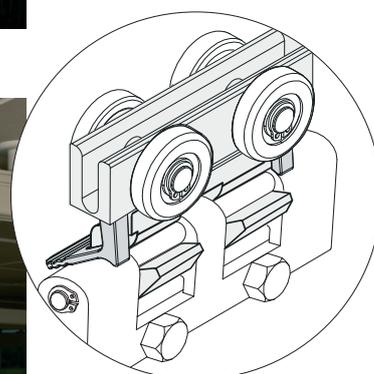
2. Place the adapter in the centre of the mounting bracket and affix with the accompanying bolts M8x25 and locking nuts M8. Make sure that the screw go all the way thru the locking nut when it is tighten, see illustration.  
Placera adaptern centrerat på fästskenan och skruva fast med medföljande skruvar M8x25 och låsmuttrar M8. Säkerställ att skruven går hela vägen genom låsmuttern när den är åtdragen, se illustration.

## 7.0 Installation Instructions

### Likorall overhead lift

Connect the lift unit and Quick-release adapter to the Quick-release carriage.

Koppla ihop lyftmotor och Snabbkopplingsadapter med Snabbkopplingsåkvagn.



⚠ Safety critical assembly!

⚠ Säkerhetskritisk montering!

Dismount the lift unit with the Quick-release adapter from the Quick-release carriage.

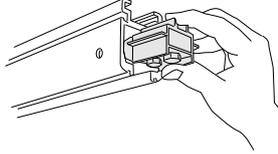
Koppla loss lyftmotor med Snabbkopplingsadapter från Snabbkopplingsåkvagn.



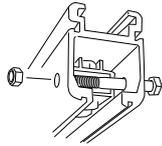
## 7.0 Installation Instructions

### Likorall overhead lift

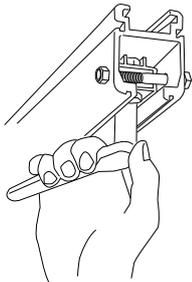
 **After installing the Likorall overhead lift, attach the End Stops in the rail:**



1. Insert and locate the end stop in all rail sections.



2. Secure the through bolts.



3. Secure the end stops, and apply choice of cover hats (white or grey)

**Check all functions related to the installed parts.**

# 8.0 Product Changes

## Likorall overhead lift



**Likorall 200 lift**

**Likorall 242 S lift**  
**Likorall 242 ES lift**

**Likorall 242 S R2R lift**  
**Likorall 242 ES R2R lift**

**Likorall 243 ES, NA overhead lift**  
**Likorall 250 ES, NA overhead lift**

**Likorall 243 ES lift**  
**Likorall 250 ES lift**  
**Likorall 250 S IRC lift**

7 NA

**Likorall 243 ES lift, natural**      Prod. No. 3123001 / NA  
**Likorall 243 ES lift, white**      Prod. No. 3123002 / NA

**Likorall 250 ES lift, natural**      Prod. No. 3122501 / NA  
**Likorall 250 ES lift, white**      Prod. No. 3122502 / NA  
**Likorall 250 S IRC lift**      Prod. No. 3124050

**Likorall 240 lift natural / white**      Prod. No. 3120001-3121617 - Discontinued 2004  
**Likorall 242 lift natural / white**      Prod. No. 3122001-3122004 - Discontinued 2004

### 2024

Changes	Type	Prod. No.	Rev.	From S/N	Proj.
New design of Extension Belt introduced. They are in new adjustable length and new total length. These new Extension Belt are an accessory compatible with Multirall 200 overhead lift and all models of <b>Likorall</b> overhead lift with SWL max 250 kg (550 lbs).	Extension Belt 300-500 mm (12-20 in)	3121670	1		SUS003964
	Extension Belt 500-700 mm (20-27 in)	3121671	1		
	Extension Belt 750-950 mm (30-37 in)	3121672	1		
	Extension Belt 1000-1200 mm (40-47 in)	3121673	1		
New 2 button hand control for <b>Likorall</b> 242/243/250 overhead lift introduced. This hand control fits battery charger 3126131-3126135.	HandControl LR S, ES, 2 button	3126050	1	25 000 000	SUS003955
New hardwire charger for <b>Likorall</b> 200/242/243/250 overhead lift and Multirall 200 overhead lift introduced.	Battery charger LR, MR hardwire	3126135	-	-	SUS004104

## 8.0 Product Changes

### Likorall overhead lift



#### 2023

Changes	Type	Prod. No.	Rev.	From S/N	Proj.
Changed color of battery charger from black to white.	IRC Charger  Battery Charger LR, MR	3126141 3126142 3126143 3126144  3126131 3126132 3126133 3126134	-	-	SUS003989
Changed relay for emergency lowering.	Likorall 200 lift Electronic card with cover LR 200	3121001 31290073		8435001 From November 2020	SUS003840
Ferrite added to hand control cable.	<b>Likorall</b> 200 lift Hand control LR 200	3121001 31290076	3 -	8443694 From April 2023	SUS004542

#### 2022

Changes	Type	Prod. No.	Rev.	From S/N	Proj.
<b>Likorall</b> overhead lift for China has been reintroduced	<b>Likorall</b> 250 ES lift	3122502CN	03	8510001	SUS003912
Obsoleted and removed.	<b>Likorall</b> 200 lift <b>Likorall</b> 242 ES R2R lift	3121001CN 3122008CN	03 03	- -	MOD015594

#### 2021

Changes	Type	Prod. No.	Rev.	From S/N	Proj.
Improved design of hook R2R. The new design of hook R2R is identified due to added label "R2R II" and is backwards compatible and work on both Q-link II and old Q-link.	Univ SlingBar 450 R2R Univ SlingBar 350 R2R Hook R2R	3156095 3156094 31290056	2 2 -	1210645 1210645 From January 2021	SUS003769
The microcontroller IC10 in PCBA, used for IR communication, is changed together with corresponding software.	<b>Likorall</b> 242 ES lift <b>Likorall</b> 242 ES lift <b>Likorall</b> 242 ES R2R lift <b>Likorall</b> 242 ES R2R lift <b>Likorall</b> 243 ES lift <b>Likorall</b> 243 ES lift <b>Likorall</b> 250 ES lift <b>Likorall</b> 250 ES lift  Electronic Card with Cover 242 ES Electronic Card with Cover 243/250 ES	3122005 3122006 3122007 3122008 3123001 3123002 3122501 3122502  31290109 31290111	2 2 2 2 2 2 2 2  - -	8110501 8110501 8110501 8110501 8316501 8316501 8211001 8211001  - -	SUS003758

## 8.0 Product Changes

### Likorall overhead lift



#### 2020

Changes	Type	Prod. No.	Rev.	From S/N	Proj.
New lift straps with Q-link II 31290127 is replacing 31290101 31290128 is replacing 31290102 31290129 is replacing 31290106 31290130 is replacing 31290107	LiftStrap for Quick-release Hook, black LiftStrap 1800 mm LR200, grey LiftStrap 2000 mm LR200, grey LiftStrap for Quick-release Hook, grey	31290127 31290128 31290129 31290130	- - - -	- - - -	PRJ01055
Likorall overhead lift for China	Likorall 200 lift Likorall 242 ES R2R lift Likorall 250 ES lift	3121001CN 3122008CN 3122502CN	03 03 03	8520001 8500001 8510001	SUS003335
Updated software from version 2.10 to 2.20.	Likorall 250 IRC lift Gable LR 250 S IRC	3124050 31290085	03 -	17258 From May 2020	SUS003431
The Q-link changed to the Q-link II	Likorall 200 lift  Likorall 242 S lift  Likorall 242 ES lift  Likorall 243 ES lift  Likorall 250 ES lift  Likorall 250 S IRC lift	3121001  3122011 3122012 3122011NA 3122012NA  3122007 3122008 3122007NA 3122008NA  3123001 3123002 3123001NA 3123002NA  3122501 3122502 3122501NA 3122502NA  3124050	03  03 03 03 03  03 03 03 03  03 03 03 03  03	8432501  8043301 8043301 286266 286266  8108301 8108301 429506 429506  8209601 8209601 368298 368298  8314401 8314401 6604600 6604600  17257	PRJ01055
The S65 carriage with Single Hook has been reintroduced The Carriage adapter LR for S65 has been introduced	all	3136011 3126030	2 -	- -	PRJ01055

## 8.0 Product Changes

### Likorall overhead lift



#### 2018

Changes	Type	Prod. No.	Rev.	From S/N	Proj.
Changed Battery supplier.(Changed from 2,4 to 2.6Ah) Backward compatible	all				SUS002547

#### 2016

Changes	Type	Prod. No.	Rev.	From S/N	Proj.
Periodic inspection railsystem is removed from the service manual. For inspection of the rail system, use Periodic Inspection <b>Liko</b> Rail System (3EN111001). In Periodic Inspection detailed instruction regarding inspection of the slingbar is added. Sparepart 21090060 is replaced by 21090061 Key Pad hand control 2-button.	all				C138052

#### 2015

Changes	Type	Prod. No.	Rev.	From S/N	Proj.
Information in periodic inspection is added regarding inspection in non <b>Liko</b> Rail Systems, in North America	all				C136163
Torque added when assembling the limit switch. Lift strap Asm instructions updated with this information. S/N adjusted on these pages regarding lift strap length. Spareparts from <b>Likorall</b> 240 overhead lift obsoleted from spare parts list. The spare parts will go obsolete Oct. 1st 2015	<b>Likorall</b> 240 lift	31290006 31290014 3126031 3126033 31290055 31290068			C132984  MOD002779

#### 2014

Changes	Type	Prod. No.	Rev.	From S/N	Proj.
Sparepart 21090038 is replaced by 21090060 Key Pad hand control 2-button.					SUS00442
New spare part 31290123 Emergency Guard Strap					1910



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## 8.0 Product Changes

### Likorall overhead lift



#### 2013

Changes	Type	Prod. No.	Rev.	From S/N	Proj.
Spareparts to old versions of <b>Likorall</b> overhead lift has been discontinued.	<b>Likorall 240 lift</b>	31290052	-	-	1910
		31290053	-	-	
		31290005	-	-	
- The liftstraps has been modified. New type of seam and new 145 mm long treaded bolt. All Lift Strap Spare Parts has got new spare part numbers. (see Spare Parts List)	<b>Likorall 200 lift</b>	3121001	02	8 411 000	1797
	<b>Likorall 242 S lift</b>	3122009	02	8 024 000	
		3122010	02	8 024 000	
		3122011	02	8 024 000	
		3122012	02	8 024 000	
		3122009NA	02	286 200	
		3122010NA	02	286 200	
		3122011NA	02	286 200	
		3122012NA	02	286 200	
	<b>Likorall 242 ES lift</b>	3122005	02	8 103 700	
		3122006	02	8 103 700	
		3122007	02	8 103 700	
		3122008	02	8 103 700	
		3122005NA	02	429 200	
		3122006NA	02	429 200	
		3122007NA	02	429 200	
		3122008NA	02	429 200	
	<b>Likorall 243 ES lift</b>	3123001	02	8 205 400	
		3123002	02	8 205 400	
		3123001NA	02	368 200	
		3123002NA	02	368 200	
	<b>Likorall 250 ES lift</b>	3122501	02	8 306 300	
		3122502	02	8 306 300	
		3122501NA	02	6 604 200	
		3122502NA	02	6 604 200	
	<b>Likorall 250 S IRC lift</b>	3124050	02	5 500	



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## 8.0 Product Changes

### Likorall overhead lift



#### 2012

Changes	Type	Prod. No.	Rev.	From S/N:	Proj.	
<ul style="list-style-type: none"> <li>- The motor has been modified.</li> <li>- New version of PCBA</li> <li>- Revision numbers (Rev.) are implemented. It is visible on the product label at the lift and on the packaging label.</li> <li>- Clarifying instructions regarding maximum load testing has been inserted in our documentation. (never go below start position with max load)</li> <li>- New longer grey lift straps on Prod. No:</li> </ul>	Likorall 200 lift	3121001	01	8 406 676	1748 1817	
	Likorall 242 S lift	3122009	01	8 000 001		
		3122010	01	8 000 001		
		3122011	01	8 000 001		
		3122012	01	8 000 001		
		3122009NA	01	286 005		
		3122010NA	01	286 005		
		3122011NA	01	286 005		
		3122012NA	01	286 005		
		Likorall 242 ES lift	3122005	01	8 100 001	
			3122006	01	8 100 001	
			3122007	01	8 100 001	
			3122008	01	8 100 001	
			3122005NA	01	429 025	
			3122006NA	01	429 025	
			3122007NA	01	429 025	
			3122008NA	01	429 025	
		Likorall 243 ES lift	3123001	01	8 200 001	
			3123002	01	8 200 001	
			3123001NA	01	368 004	
			3123002NA	01	368 004	
		Likorall 250 ES lift	3122501	01	8 300 001	
			3122502	01	8 300 001	
			3122501NA	01	6 604 005	
			3122502NA	01	6 604 005	
		Likorall 250 S IRC lift	3124050	01	4005	

## 8.0 Product Changes

### Likorall overhead lift



#### 2011

Changes	Type	Prod. No.	S/N:	Proj.
Due to production problems some <b>Likorall</b> was produced according to proj 754, with shorter black lift strap, old version of motor, and PCBA.  Temporary solution until project 1748 was released.	<b>Likorall</b> 200 lift	3121001	7 900 001 - 8 405 800 8 405 969 - 8 406 299	-
	<b>Likorall</b> 242 S lift	3122011	7 920 001 - 8 016 112 8 016 169 - 8 016 399	

#### 2011

Changes	Type	From S/N	Project
New layout on decal and product labels.	<b>Likorall</b> 200 lift		1690/1694
New layout on decal and product labels.  Spare part 31290078 Emergency guard activator, reintroduces.	<b>Likorall</b> 242 S lift		1690/1694
	<b>Likorall</b> 242 ES lift <b>Likorall</b> 243 ES lift <b>Likorall</b> 250 ES lift <b>Likorall</b> 250 S IRC lift  <b>Likorall</b> 242 S (NA) lift <b>Likorall</b> 242 ES (NA) lift <b>Likorall</b> 243 ES (NA) lift <b>Likorall</b> 250 ES (NA) lift	285 300 427 700 366 306 6 603 100	
<ul style="list-style-type: none"> <li>- The Hand Control Cable is 15 cm longer and more flexible.</li> <li>- The lifting range has been modified to 205 cm.</li> <li>- New longer grey lift strap.</li> <li>- The motor has been modified.</li> </ul>	<b>Likorall</b> 200 lift	8 405 801	1211/1051
<ul style="list-style-type: none"> <li>- The lifting range has been modified to 205 cm.</li> <li>- New longer and grey lift straps.</li> <li>- The motor has been modified.</li> <li>- New fuse (12A) and fuse holder</li> </ul> <p>Proj 1211/1051 was never implemented on <b>Likorall</b> NA overhead lifts.</p>	<b>Likorall</b> 242 S lift  <b>Likorall</b> 242 ES lift <b>Likorall</b> 243 ES lift <b>Likorall</b> 250 ES lift <b>Likorall</b> 250 S IRC lift  <b>Likorall</b> 242 S (NA) lift <b>Likorall</b> 242 ES (NA) lift <b>Likorall</b> 243 ES (NA) lift <b>Likorall</b> 250 ES (NA) lift	8 016 001  8 102 001 8 203 501 8 303 501 -  - - - -	1211/1051

## 8.0 Product Changes

### Likorall overhead lift



#### 2010

Changes	Type	From S/N	Project
New type of ceiling lift, prepared for continuous charging through the rail system by In-Rail charging system (IRC)	Likorall 250 S IRC lift	2001-2500 (pre serial)	1099
New cover with integrated emergency stop collar and emergency stop cord. Lift strap equipped with Q-link is now standard on Likorall 243 ES overhead lift and Likorall 250 ES overhead lift.	Likorall 242 S lift Likorall 242 ES lift Likorall 243 ES lift Likorall 250 ES lift	8 007 961 8 100 714 8 201 237 8 301 629	754
New cover with integrated emergency stop collar and emergency stop cord.	Likorall 200 lift Likorall 242 S (NA) lift Likorall 242 ES (NA) lift Likorall 243 ES (NA) lift Likorall 250 ES (NA) lift	8 401 443 284 580 426 991 365 346 6 601 769	

#### 2009

Changes	Type	From S/N	Project
New version of electronic card; version F	Likorall 200 lift	8 401 051	1030

#### 2007

Changes	Type	From S/N	Project
New version of Electronic card.	Likorall 242 S lift Likorall 242 ES lift Likorall 243 ES lift Likorall 250 ES lift	8 000 001 8 100 001 8 200 001 8 300 001	560
New version of Electronic card.	Likorall 242 S (NA) lift Likorall 242 ES (NA) lift Likorall 243 ES (NA) lift Likorall 250 ES (NA) lift	278 548 425 687 363 741 6 600 301	

#### 2005

Changes	Type	From S/N	Project
Current limit changed from 10.5A to 11.5A.	Likorall 242 ES lift	424689	383
Safety Squeeze Protection upgraded with Twist Protection.	Likorall 242 S lift Likorall 243 ES lift Likorall 242 ES lift	267210 362586 424379	156
Hang-Up for Hand control	Likorall 242 S lift Likorall 242 ES lift Likorall 243 ES lift	266387 424229 362487	183

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