

# **SERVICE MANUAL**

# MA50 / PA50 MA60 / PA60



SAFE**LIFT**°

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### 1. SERVICE

This service manual describes how the lift should be maintained to be safe and get a long life span.

For questions regarding service of the lift, please contact: service@safelift.se



Service of the lift may only be carried out by trained personnel.



Electrical work may only be carried out by a trained specialist.



Work on live electrical parts is not permitted.



Conversions, repairs and changes to the lift may only be carried out under current safety regulations.



Only original spare parts may be used for repairs.



After completed service, the lift's functions and safety must be checked and tests must verify that the lift is safe to use.

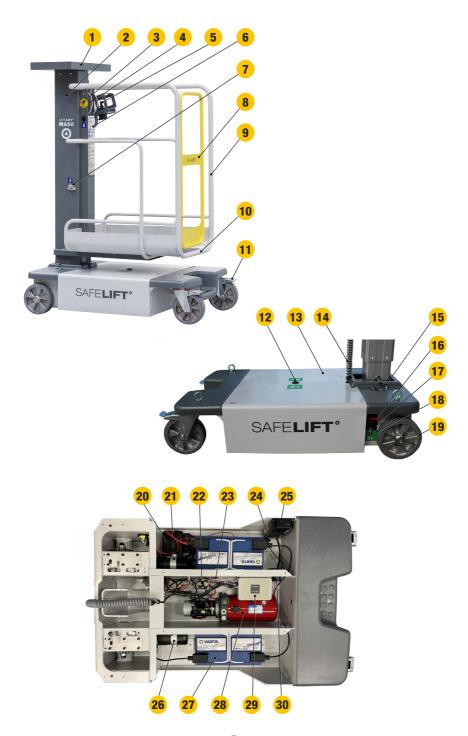


#### NOTE

Read the lift's user manual for further understanding of the lift's safety and functions.

### 2. LIFT COMPONENTS

- Tool shelf
- 2 Lifting column
- 3 Emergency Stop
- 4 Control panel platform
- Joystick (MA50 / MA60)
- 6 Information and safety signs
- 7 Anchorage safety harness
- 8 Gate
- 9 Guard railing
- 10 Platform
- 11 Rear wheels (swivel)
- 12 Emergency lowering (mechanical)
- 13 Chassis cover
- 14 Spiral cable
- 15 Connection / disconnection of operation (MA50 / MA60)
- 16 Main switch 24V
- 17 Control panel chassis
- 18 Emergency lowering (electric)
- 19 Front wheel
- 20 Control box driving
- 21 Drive motor right
- 22 Relay
- 23 Protection diode
- 24 Fuse 20A (blade fuse)
- 25 Battery charger
- 26 Drive motor left
- 27 Battery 12V
- 28 Hydraulic unit
- 29 Tilt sensor (MA50 / MA60)
- 30 Signal horn



# 3. INSPECTION AND SERVICE FREQUENCY

Inspection and service frequency		Daily	Half yearly	Yearly
Visual inspection	(4.1)	•		
Guard railing	(4.2)			
Gate	(4.3)			
Emergency Stop	(4.4)			
Front wheel	(4.5)			
Rear wheels (swivel)	(4.6)			
Emergency lowering	(4.7)			
Tilt sensor function (MA50, MA60)	(4.8)			
Tilt indicator function (PA50, PA60)	(4.9)			
Safety harness anchor point	(4.10)			
Safety signs and decals	(4.11)			
Spiral cable rubber guide	(5.13)			
Cleaning and lubrication of lifting columns	(5.4)			
Lubrication of rollers on the lifting column	(5.5)			
Adjustment of rollers on the lifting column	(5.6)			
Hydraulic oil level	(5.8)		-	
Adjustment drive chains (MA50, MA60)	(5.11)			
Lubrication drive chains (MA50, MA60)	(5.12)			
Inspection of lifting column chains	(5.15)			
Lubrication gears lifting column	(5.15)			
Inspection of sliding bearing lifting column	(5.16)			
Change of hydraulic oil	(5.9)			•



#### NOTE

In case of intensive use, heavy load and dirty environment, the lift may need to be maintained with more frequent service intervals than indicated in the table.

# 4. INSPECTION OF LIFT

### 4.1 Visual inspection

- Inspect the lift for defects that could affect safety.
- Check that components are intact (look for cracks) and that screws and nuts are tight. Check welds.
- Inspect the lift, look for oil leaks (underside of the chassis).

If any of the above defects are discovered on the lift, it must not be used until the defects are rectified.

#### 4.2 Guard railing

Check that the platform railing is stable and undamaged.

#### **4.3 Gate**

Check that the platform gate is stable, intact and undamaged. Check that the gate closes automatically. Lubricate the gate hinges if necessary. Ensure that the gate cannot be opened outwards.

#### 4.4 Emergency Stop

Check the function of the emergency stop. The emergency stop shall cut off all power.

#### 4.5 Front wheel

Check that the wheels are in good condition. Check that the lift's levers for drive motors (MA50 / MA60) are activated, then the front wheels are locked automatically.

#### 4.6 Rear wheels (swivel)

Check that the wheels are in good condition and that the brakes are working.

### 4.7 Emergency lowering

Check the lift's mechanical emergency lowering function of the platform by pressing the button on top of the chassis.

### 4.8 Tilt sensor function (MA50 / MA60)

Check that the lift's tilt sensor is working by raising the platform approx. 10 cm from the bottom position and then driving the lift up on a surface inclined more than 2°. The tilt sensor then indicates with an audible signal that the lift cannot be driven and the platform cannot be raised. Lower the platform until its bottom position, the buzzer stops and the lift regains all functions.

### 4.9 Tilt indicator function (PA50 / PA60)

Check that the lift's tilt indicator (spirit level) works by placing the lift on a flat surface.

### 4.10 Safety harness anchor point

Check that the anchor point is undamaged and firmly mounted.

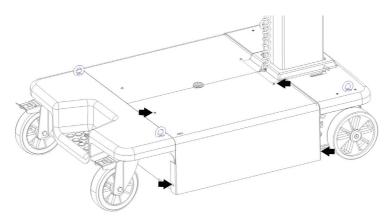
### 4.11 Safety signs and decals

Check that safety signs and decals are not damaged or missing.

## 5. SERVICE

### 5.1 Dismantling of chassis covers

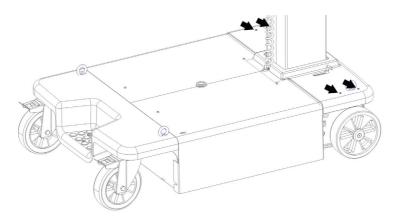
To access the internal components of the chassis, the chassis covers must be removed. Loosen 4 screws, (see picture 1) use a 3 mm Allen key.



Picture 1

### 5.2 Dismantling the front plastic cover

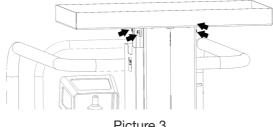
To access chain adjustment of drive motors, the front plastic cover needs to be dismantled. The cover is attached with 4 screws, (see icture 2) use a 3 mm Allen key. Raise the lift column so that the bottom column segment is exposed, making it easier to twist the cover to remove it.



Picture 2

#### 5.3 Dismantling the tool shelf

The tool shelf is attached with 4 M6 nuts, (see picture 3), use a 10 mm spanner.



Picture 3

#### 5.4 Cleaning and lubrication of lifting columns

To prevent the sliding pads and sliding surfaces of the lifting column from being damaged or worn out prematurely, the surfaces of the column must be kept clean of dirt and dust. Raise the lift to its highest position (see picture 4). Clean the aluminum surfaces of the column with alcohol (or equivalent) and then lubricate the surfaces with oil (Castrol Alpha SP220 or equivalent). Raise and lower the platform at least 3 lifting cycles, to distribute the oil on the sliding surface. Wipe off any excess oil.



Picture 4

#### 5.5 Lubrication of rollers on the lifting column

In order to prevent the lifting column's rollers from being worn or damaged, they must always be able to roll easily. Raise the platform so that the floor surface is 1.5 m from the ground. Clean the rollers with alcohol (or equivalent) and then lubricate the rollers with oil (Castrol Alpha SP220 or equivalent). Wipe off any excess oil.



Picture 5

#### 5.6 Adjustment of rollers on the lifting column

The pressure of each roller against the lifting column is adjusted with 2 allen screws, use a 2.5 mm allen key. The pressure on the rollers must be such that they can roll easily without backlash. Test the clearance by manually shaking the platform sideways. The platform must then not be loose. If the rollers are set too hard, they can be prevented from rolling and thus wear out.



Picture 6

#### 5.7 Battery replacement

The lift has 2 series-connected 12V batteries. The batteries are located inside the chassis covers.

- Each 12V battery is attached to the bottom of the chassis with 2 hex screws, use a 4mm hex key to loosen the fasteners, (see picture 7).
- After the batteries have been charged for at least 12 hours, each battery must have a voltage of at least 12.4V to be healthy.
- Unhealthy batteries must be replaced. If only one battery is healthy, both batteries must still be replaced. Keep the battery terminals clean and free from oxide.

#### For safe battery removal:

- 1. Turn off the lift's main switch.
- First disconnect the negative terminal (-).
- 3. Then disconnect the positive terminal (+).

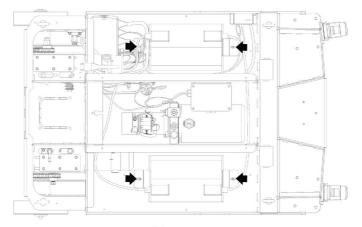
Batteries must be of the correct type. Approved batteries are:

- Varta Professional Dual Purpose EFB 12V 80 Ah
- Varta Professional Dual Purpose EFB 12V 110 Ah



#### NOTE!

The recommendation is that the batteries always should be charged when the lift is not in use, so the batteries always will be fully charged when the lift is about to be used and so the batteries will not risk beeing damaged. The built-in battery charger maintenance charges the batteries automatically.

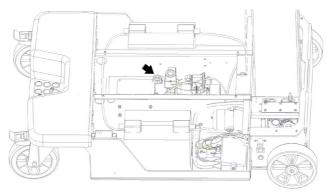


Picture 7

#### 5.8 Hydraulic oil level

Check that the hydraulic system has the correct amount of oil by reading the oil dipstick on the hydraulic tank (see picture 8).

- Hydrauloljemängd MA50 / PA50: 3,0 L
- Hydrauloljemängd MA60 / PA60: 3,4 L



Picture 8



#### NOTE:

Do not exceed the specified amount of oil.

### 5.9 Change of hydraulic oil

The lift's hydraulic oil should be changed every 12 months. Recommended hydraulic oil:

Motorex Corex HV46: DIN 51524/-2/-3 EN ISO 6743-4

### 5.10 Control of leaking hydraulic oil

Check that the hydraulic unit or hydraulic cylinder is not leaking oil. Check that the hydraulic hose has no damage and check that the nipples are tight. Check if hydraulic oil has leaked into the chassis or on the underside.

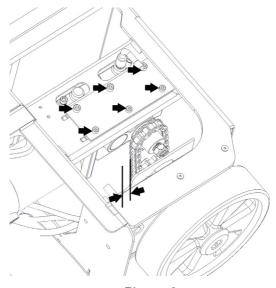


#### WARNING!

If the lift is leaking hydraulic oil, it must not be used!

#### 5.11 Adjustment drive chains

The chains of the drive motors are adjusted by loosening the 6 allen screws for each motor, (see picture 9) use a 5 mm allen key. The drive motor can be pushed forward or backward to tension the chains. For best function, the chains should have a gap of 10-20 mm (see picture 9). Raise the chassis of the lift at least 50 mm from floor level, so that the drive wheels can rotate freely. Allow the chain to rotate one full revolution and check that the slack is maintained throughout the revolution. To prevent the chains from making noise, they must not be too tight. The chains must also not be too loosely tensioned, as this can cause a jerky movement when driving.



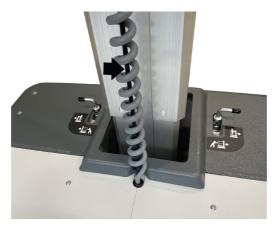
Picture 9

#### 5.12 Lubrication drive chains

The chains of the drive motors must be lubricated with chain grease of the type Universal grease, Classification: KP2K-30 according to DIN 51502; ISO-L-XCCIB2 according to ISO 6743 or equivalent.

#### 5.13 Inspection of spiral cable rubber guide

Check that the rubber guide that goes inside the spiral cable is intact and not damaged or dried out (see picture 10). If the rubber guide will break, there is a great risk that it will lead to the spiral cable being damaged.



Picture 10



#### **WARNING!**

If the rubber guide is damaged or dried out, it must be replaced immediately.

### 5.14 Resetting the tilt sensor

If the tilt sensor does not work during normal use (alarms with an audible signal), it can be reset.

- 1. Place the lift on a flat surface.
- 2. Remove chassis covers
- 3. Open the cover of the tilt sensor (see point 29 on page 5).
- 4. Activate the main power switch.
- 5. Carefully push in a small black button on the circuit board. Reset occurs when a light on the circuit board flashes.
- 6. Refit the cover on the tilt sensor.
- 7. Refit chassis covers
- 8. Test the function of the tilt sensor according to point 4.8 on page 7.

#### 5.15 Inspection of lifting column chains

Start by dismantling the tool shelf (see 5.3). Lower the platform to its lowest position. The lifting column's chains and chain shaft bearing are inside the lifting column (see picture 11). Inspect the inside of the column during a full lifting motion. Check that there is no wear on the chain or on the chain axle bearing, look for iron filings or dust particles. If wear or play is detected on the chains, axle or bearings, the lift must be taken out of service. If necessary, lubricate the chains with chain grease of the Universal grease type.

Contact Safelift: service@safelift.se for further action.



Picture 11

### 5.16 Inspection of sliding bearing on lifting column

Check that the sliding bearings of the lifting column are not worn out (see picture 12). The thickness of the sliding bearings must not fall below a thickness of 1.0 mm. Dirty and unlubricated surfaces of the aluminum column increase the wear and thus the service life of the sliding bearings.



Picture 12

### 6. TROUBLESHOOTING

If the lift does not work, check the following reasons:

#### 6.1 The lift is without electricity

- Main power switch not turned on.
- Emergency stop pressed.
- Batteries discharged (healthy batteries should give at least 12.4 V after 12 hours of charging).
- Spiral cable damaged.
- Foot pedal (accessory) not pressed in.

#### 6.2 Platform cannot be raised

- Main power switch not turned on.
- Emergency stop pressed.
- Batteries discharged.
- Raise button damaged or loose connecting cable.
- The platform is overloaded (more than 180 kg).
- The tilt sensor activated (sound signal).
- Spiral cable damaged.
- Low hydraulic oil level or hydraulic oil leak.
- Foot pedal (accessory) not pressed in.

#### 6.3 Platform cannot be lowered

- Obstacles are located under the lift platform.
- Main power switch not turned on.
- Emergency stop pressed.
- Batteries discharged.
- Lowering button damaged or connecting cable loose.
- Spiral cable damaged.
- The chain slack switch inside the lift column has tripped.
  - Contact Safelift: service@safelift.se for action.
- Foot pedal (accessory) not pressed in.

#### 6.4 The lift cannot be driven (MA50 / MA60)

- Main power switch not turned on.
- Emergency stop pressed.
- Batteries discharged.
- Joystick not switched on (left button on joystick)
- Joystick or connecting cable damaged.
- The tilt sensor activated (sound signal).
- Spiral cable damaged.
- Drive/freewheel levers not activated.
- Control box driving damaged.
- Defective drive motor.
- Foot pedal (accessory) not pressed in.

### 6.5 The lift cannot be driven at high speed (MA50 / MA60)

- Speed indicator on the right joystick button does not light yellow.
- Lift platform not lowered to bottom position.
- Microswitch damaged (located at the mounting of the lifting column in the chassis).

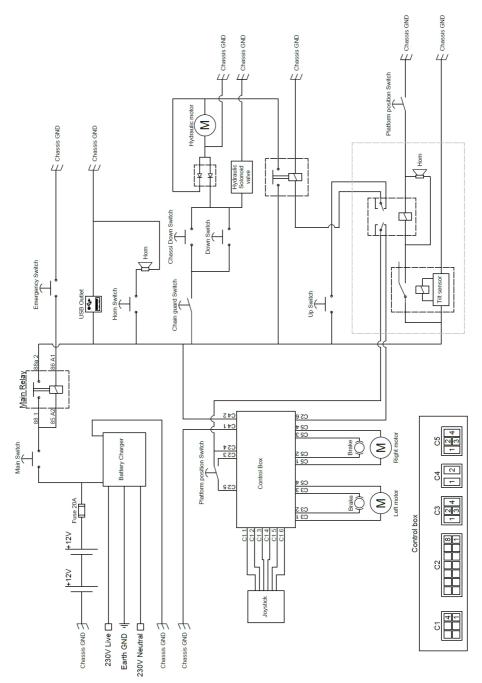
### 6.6 The lift cannot be pushed by hand

- Levers for driving/freewheel (MA50 / PA50) in driving mode.
- Rear wheels (swivel) locked.
- Automatic wheel locking out of order (accessory PA50 / PA60).

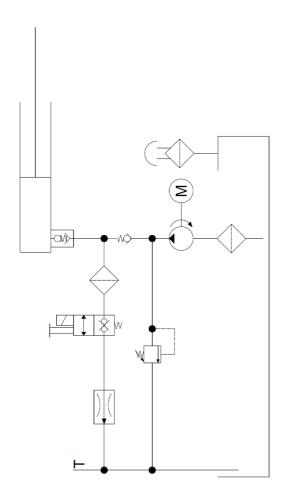
### 6.7 The batteries cannot be charged

- Batteries defective (healthy batteries must have a voltage of at least 12.4 V after 12 hours of charging).
- Charging cable not connected to lift or wall outlet 230 V.
- Charging cable damaged.
- The fuse (20 A blade fuse) for the battery charger has tripped.
- Battery charger damaged.
- Smelly batteries (rotten eggs).

# 7. ELECTRICAL DIAGRAM

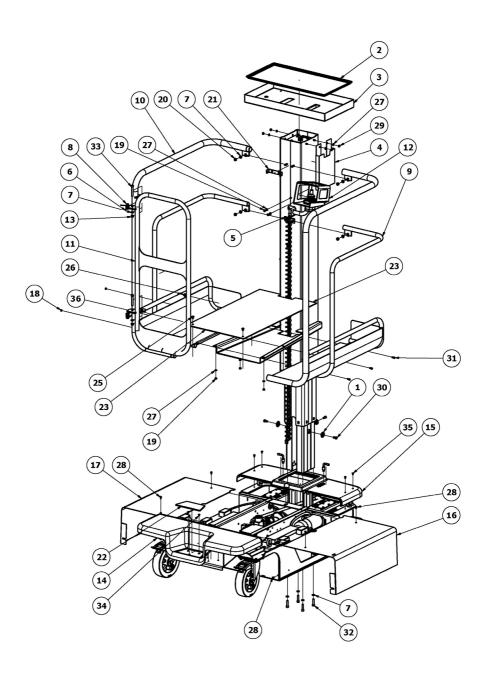


# 8. HYDRAULIC SCHEME



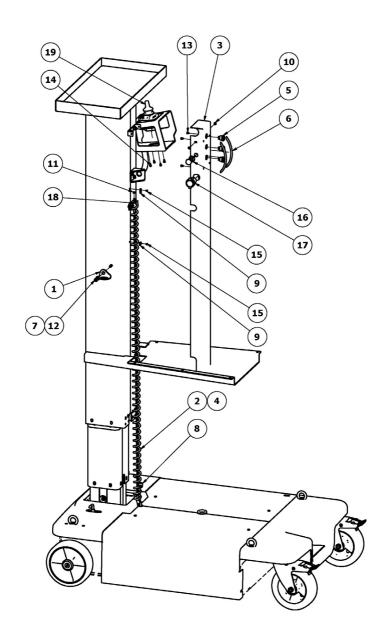
# 9.1 PLATFORM PARTS

ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	5010-002-050	Washer
2	1	5010-200-005	Tray insert
3	1	5010-200-009	Tray
4	1	5010-200-010	Documet holder A5
5	1	5010-200-011	Spiral cable bracket
6	2	5010-300-002	Spring
7	11	BRB 8,4x16x1,6	Washer HV140 ISO 7089
8	2	5010-300-003	Sleeve hinge
9	1	5010-301	Platform right side
10	1	5010-302	Platform left side
11	1	5010-303	Gate
12	1	5010-309	Joystick bracket
13	3	M8 Nylock DIN985	Locking nut M8
14	1	5010-400-004	Plastic cover entry
15	1	5010-400-006	Pastic cover pillar
16	1	5010-400-010H	Cover Right
17	1	5010-400-010V	Cover Left
18	5	M6M - M5	Nut M5
19	8	M6M - M6	Nut M6
20	4	M6M - M8	Nut M8
21	1	5010-400-012	Cover bracket
22	1	5010-400-013	Rubber carpet entry
23	1	5010-400-014	Rubber carpet
25	2	093017059902	Push Rivet
26	1	STAR1622-258G	Foot - Grupp SC-STAR
27	12	BRB 6,4x12x1,6	Washer HV140 ISO 7089
28	8	K6S - M5 x 10	Screw K6S 10.9 FZB ISO 7380-1
29	4	M6 Nylock DIN985	Lock nut M6
30	3	MC6LS - M8x16	Screw low M8 x16
31	3	MC6S - M5x12	Screw M5
32	4	MC6S - M8x40	Screw M8x40 12.9
33	2	MC6S - M8x60	Screw M8
34	3	MF6S - M5 x 8	Screw M5 x 8
35	4	MF6S - M5 x 10	Screw M5 x 10



# 9.2 CONTROL PANEL PARTS

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	166	Ancorage point
2	1	5010-SPARE-010	Spiral cable incl. rubber guide MA50
	1	5050-SPARE-010	Spiral cable incl. rubber guide MA60
3	1	5010-400-009-8	Cover
4	1	5010-SPARE-011	Rubber guide for spiral cable MA50
	1	5050-SPARE-011	Rubber guide for spiral cable MA60
5	3	701979	Push button
6	2	10151808	Handle
7	11	BRB 8,4x16x1,6	Washer HV140 ISO 7089
8	1	155-01-168	Pull relief DM 6
9	2	FTH-1-01-M	Pull Relief
10	2	K6S - M5x8	Screw
11	2	M5 - Nylock DIN985	Lock nut M5
12	3	M8 - Nylock DIN985	Locking nut M8
13	4	MC6S - M4x6	Screw M4
14	4	MC6S - M4x8	Screw M4
15	2	MF6S - M4x6	Screw M4x6 10.9
16	1	S618001	Emergency button
17	1	SCIA13-194BPS	USB connector double
18	5	M6M - M5	Nut M5
19	1	378712002	Joystick



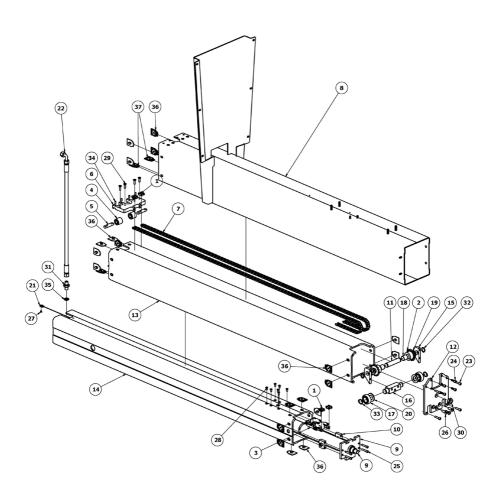
# 9.3 LIFT PILLAR PARTS

ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	24RS06B1	Chain lock
2	2	1250-001-020	Sprocket wheel
3	1	1010-DEL-035	Inner chain bracket
4	2	5010-002-221	Support roller
5	2	5010-002-222	Shaft support roller
6	1	5010-002-225	Outer chain bracket
7	2	5010-167	Chain MA50
8	1	5010-200	Pillar MA50
9	1	5010-500	Hydraulic cylinder MA50
10	2	5010-500-006	Pivot bracket
11	1	5011-001-016	Shaft
12	1	5100-001-001	Plate outer profile segment
13	2	5100-001-002	Outer profile segment MA50
14	2	5100-001-003	Inner profile segment MA50
15	2	5100-001-004	Support shaft
16	1	5100-001-030	Bearing holder
17	2	6004-ZZ	Ball bearing
18	2	40300001	Bushing PCM 182020 E
19	2	BRB 18x30x4	Washer
20	2	BRB 21x37x3	Washer
21	1	FTH-1-01-M	Pull relief
22	2	5200-810-025	Hydraulic hose
23	4	MC6S - M6 x 25	Screw M6x25 12.9
24	4	MC6S - M6x20	Screw M6x20 12.9
25	4	MC6S - M6x30	Screw M6x30 12.9
26	3	MF6S - M8 x 25	Screw M8 x 25 10.9
27	1	MF6S - M4x6 Screw	M4x6 10.9
28	7	MF6S - M5x12	Screw M5x12 10.9
29	4	MF6S - M6x20	Screw M6x20 10.9
30	1	MLM - M16	Nut low M16
31	1	5200-810-046	Hydraul Nipple G1/4"-G1/4"
32	2	SGA 18	Retaining ring
33	2	SGA 20	Retaining ring
34	4	SK6SS - M5x10	Screw M5
35	1	5200-810-047	Tredo bricka 1/4"
36	24	X2 - 38x2,0	Sliding Bearing
37	2	X2 - 38x1,7	Sliding Bearing



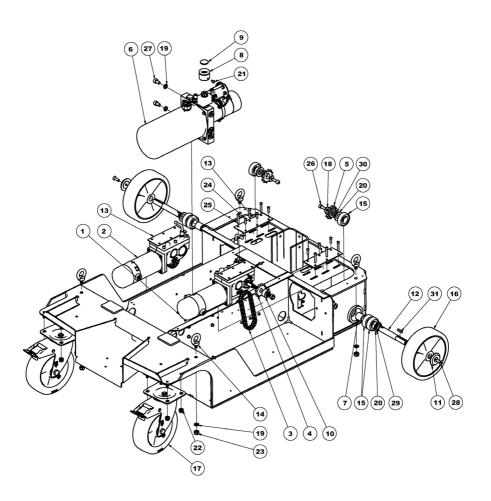
#### WARNING!

Service of the lift pillar may only be carried out by authorized personnel. Contact Safelift at **service@safelift.se** for assistance.



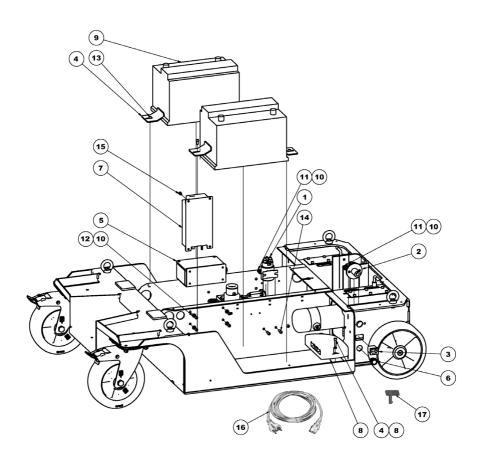
# 9.4 CHASSIS PARTS

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	5010-DEL-040	Motor and gear right side
2	1	5010-DEL-045	Motor and gear left side
3	2	08B1-RULLKEDJA-1	Chain
4	2	08B112 1/2	Sprocket wheel
5	2	08B112_20	Sprocket wheel
6	1	8WEBCSPN02	Hydraulic Power Pack
7	2	5010-100-108	Bearing spacer
8	1	5010-100-109	Sleeve emergency lowering
9	1	5010-100-110	Rubber membrane
10	2	5010-400-002	Spacer sprocket wheel
11	2	5010-400-020	Wheel washer
12	2	5010-400-102	Drive shaft
13	4	5010-600-001	Washer
14	4	5200-810-020	Lifting Eye Bolt DIN 580
15	6	6304ZZ	Bearing
16	2	241509	Drive Wheel grey
17	2	245664	Rear wheel grey
18	2	BRB 8x22x1,5	Washer
19	6	BRB 10,5x18x1,6	Washer HV140 ISO 7089
20	4	BRB 21x37x3	Washer
21	1	K6S M6x10	Screw
22	8	M6MF M8	Nut flange M8
23	4	M10 Nylock DIN985	Locking nut M10
24	6	MC6S - M6x18	Screw M6x18 12.9
25	6	MC6S - M6x35	Screw M6x35 12.9
26	2	MC6S - M8x25	Screw M8x25 10.9
27	2	MC6S - M10x16	Screw M10x16
28	2	MF6S - M8 x 25	Screw M8 x 25 10.9
29	4	PB Shims 20x28x0,2	Shims
30	2	RK 6x6x14	Wedge 6x14
31	2	RK 6x6x25	Wedge 6x25



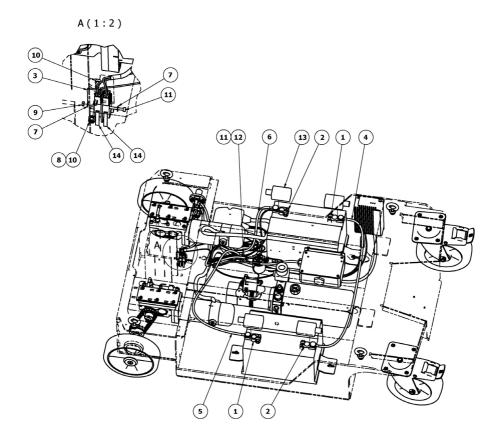
# 9.5 ELECTRIC PARTS CHASSIS

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	4RA377504011	Relay
2	1	6 EK 002 843 011	Main switch
3	1	143-21-147 IEC	Connector C14
4	4	5010-100-015	Clamp battery
5	1	5010-100-060	Tilt sensor T1
6	1	701979	Push button
7	1	924216-507	Battery charger
8	1	378662001	Control box
9	2	930080080B912	Batteri DC 12V 80 Ah
10	8	BRB 6,4x12x1,6	Washer HV140 ISO 7089
11	6	M6M - M6	Nut M6
12	4	MC6S - M6x8	Screw M6x8
13	4	MC6S - M6x12	Screw M6x12
14	3	MC6S - M6x16	Screw M6x16
15	2	MC6S - M6x10	Screw M6x10
16	1	290100072	Power Cable
17	2	9SL706729011	Main Key



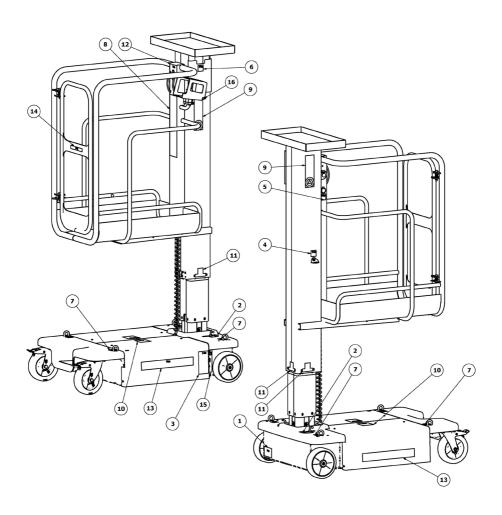
# 9.6 BATTERY PARTS

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	8KX707913001	Battery terminal -
2	2	8KX707913011	Battery terminal +
3	1	5010-100-070	Bracket double micro switch
4	1	Batterikabel_MA50-1	Battery cable - to +
5	1	Batterikabel_MA50-2	Battery to ground
6	1	Batterikabel_MA50-3	Battery cable + to switch
7	4	BRB 3,3x6,6x0,5	Washer HV140 ISO 7089
8	3	BRB5,3x10x1	Washer
9	2	M6M - M3	Nut M3
10	1	M6M - M5	Nut M5
11	2	MC6S - M3x30	Screw M3x30
12	1	MC6S - M6x25	Screw M6x25
13	4	TB5005	Terminal cover
14	2	XGG2-88-J26Z1	Micro switch



# 9.7 DECALS

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	5010-100-001	Decal CE and serial number
2	2	5010-100-021	Decal Connecting/disconnecting motors
3	1	5010-100-026	Decal (Expired)
4	1	5010-100-028	Decal Safety harness
5	1	5010-100-029	Decal USB
6	1	5010-100-030	Decal Original instructions
7	4	5010-100-031	Decal Lifting loops
8	1	5010-100-033	Decal Warning sign platform ENGLISH
9	2	5010-100-041	Decal MA50
9	2	5010-100-071	Decal MA60
10	2	5010-100-050	Decal Emergency lowering
11	3	5010-100-054	Decal Pinching hand and foot
12	1	5010-100-055	Decal Control panel platform
13	2	5010-100-056	Decal Logo Safelift
14	1	5010-100-057	Decal Logo Safelift
15	1	5010-100-058	Decal Control panel chassis
16	1	5010-100-061	Decal Joystick



# **10. INSPECTION AND SERVICE NOTES**

Date	Action

Date	Action





#### ADDRESS

Safelift Sweden AB Kvarnvägen 14 SE-352 41 Växjö Sweden

#### WEBSITE

www.safelift.se

#### E-MAIL

info@safelift.se