



ORIGINAL INSTRUCTIONS

MoveAround MA50H



SAFELIFT®

TABLE OF CONTENTS

1. Health & safety regulations	3
2. Product information	4
2.1 Technical data	5
2.2 Product overview	6
2.3 Lift controls	8
3. Warning devices	10
4. Lift safety	12
4.1 Applied directives and standards	12
4.2 Operating environment and charging	12
4.3 Operator responsibility and training	12
4.4 Modification and product responsibility	12
4.5 Spare parts and components	13
4.6 Manufacturer	13
4.7 Labelling	13
5. Personnel safety	14
5.1 Operator safety and responsibility	14
5.2 Safety during use	15
6. How to use	20
6.1 Checks before using the lift	20
6.2 Main switch	20
6.3 Horn	20
6.4 Tilt sensor	20
6.5 Battery charging	21
6.6 Securing the platform	21
6.7 Transport of lift	21
6.8 Export restriction	22
6.9 Storage	22
6.10 Cleaning	22
6.11 Overview of safety features	23
6.12 Inspection and maintenance	24
7. Maintenance	26
7.1 Daily inspection	26
7.2 Inspection and maintenance intervals	27
7.3 Hydraulic system inspection	28
7.4 Inspection of chains in lift mast	29
7.5 Wheels and joystick check	29
7.6 Battery maintenance	29
7.7 Ordering spare parts	30
7.8 Troubleshooting table	31
7.9 Documentation	32
7.10 Environment, recycling, and waste management	33
7.11 Customer service and technical support	34
8. Declaration of conformity	35
9. Appendices	36
9.1 Electrical schematic	36
9.2 Hydraulic schematic	37
10. Terms and regulatory documents	38
10.1 Definitions and terminology	38
10.2 References	39
10.3 CE marking checklist	40

1. HEALTH & SAFETY REGULATIONS

This operating manual contains instructions for the daily operation of the equipment and is intended to be handled and used by the operator. The operating manual must always be available to the operators working with the equipment.

It is important that:

- The operating manual and other applicable documents are retained throughout the entire service life of the equipment.
- The operating manual and other applicable documents form an integral part of the equipment.
- This operating manual is passed on to any subsequent users of the equipment.

Safety instructions notice

- Before using the lift and before performing any maintenance work on the lift, read and follow the instructions in this operating manual.
- Observe all Warning, Prohibition, Mandatory and Note labels referred to in the operating manual.
- Serious personal injury and damage to the lift may occur if this information is not observed.
- The lift equipment is intended to be used by one operator only.
- Treat all electrical equipment as live.
- Treat all hoses and pipelines as pressurised.
- During maintenance work on the lift, the 230 V power supply must be disconnected and the main power switch must be in the OFF position.
- Maintenance may only be carried out by authorised maintenance personnel.
- Follow the instructions regarding maximum load. See the decal on the lift and the technical data.

2. PRODUCT INFORMATION

MA50H – Personnel lift for professional indoor use

The MA50H is a robust mast lift developed for safe use in heavy duty working situations. It is specifically engineered for safe indoor operation in demanding industrial, warehouse, and construction environments. The lift is intended to raise one operator with tools (max 180 kg) to a working height of up to 5 metres.

CE marked

The lift is CE marked and complies with relevant sections of the standard SS-EN 280-1:2022. The lift is also designed in accordance with the principles of EN ISO 12100 to meet lift safety requirements.

Integrated control and safety functions

The lift is operated from a control panel using a joystick and is equipped with a hydraulic lifting unit, electric drive, automatic brakes, and safety functions such as a tilt sensor and emergency stop. The drive motors can easily be disengaged, allowing the lift to be pushed manually.

Bumper protection

Integrated bumpers in the chassis reduces the risk of damage to both the lift and the surrounding environment upon contact with walls, corners, or adjacent equipment.

Gates and access

The lift features self-closing platform gates and a low step-in height to ensure safe entry to and exit from the platform.

Pothole protection bars

Pothole protection bars are located under the chassis and deploy automatically when the platform is raised.

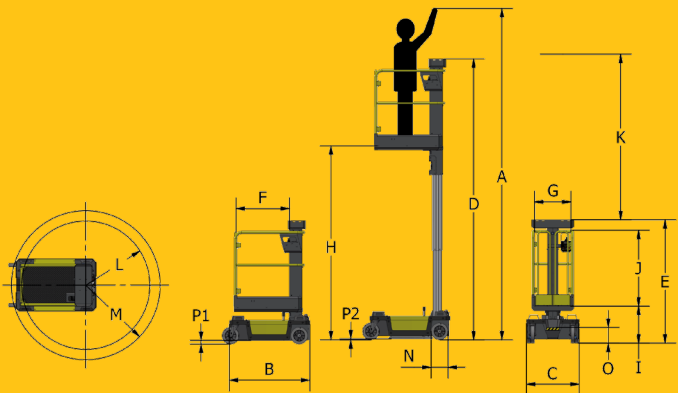
Ingress protection rating

The lift has an ingress protection rating of IP54 (dust protected, splash-proof).

2.1 Technical data

Maximum platform load (operator + load)	180 kg
Maximum number of persons on the platform	1
Lifting time (180 kg)	14 s
Weight	445 kg
Maximum load per wheel	185 kg
Maximum allowable tilt angle during operation	1°
Maximum allowable manual lateral force on platform	200 N
Maximum permissible wind speed (indoor use only)	0 m/s
Ingress protection rating	IP54
Noise level	< 70 dB(A)
Maximum vibration level	< 0.5 m/s ²
Speed	Lowered: 4 km/h, Raised: 0.8 km/h
Power source	2 × 12 V batteries, 110 Ah (C20), maintenance-free
System voltage	24 V
Battery charger	230 V, 50 Hz / 60 Hz
Lifting system	Single hydraulic cylinder
Wheels	ø 250×50 mm, polyurethane coated, non-marking
Parking brakes	Automatic (front), Manual (rear)

A	Working height	4970 mm
B	Overall length	1180 mm
C	Overall width	775 mm
D	Overall height (raised)	4250 mm
E	Overall height (lowered)	1810 mm
F	Platform length	770 mm
G	Platform width	535 mm
H	Platform height (raised)	2970 mm
I	Platform height (lowered)	530 mm
J	Guardrail height	1110 mm
K	Stroke length	2440 mm
L	Turning radius	1013 mm
M	Turning clearance	1080 mm
N	Wheel diameter	250 mm
O	Step-in height	230 mm
P1	Ground clearance (platform lowered)	52 mm
P2	Ground clearance (platform raised)	10 mm



2.2 Product overview

- 1 Safety guardrail
- 2 Warning information
- 3 Storage compartment (max 2 kg) (optional)
- 4 Gates
- 5 Step-in access
- 6 Swivel wheel
- 7 Storage compartment (max 20 kg)
- 8 Control panel
- 9 Storage compartment (max 1 kg) (optional)
- 10 Platform
- 11 Chassis
- 12 Drive wheels
- 13 Pothole protection bars
- 14 Anchorage point for safety harness
- 15 Raise / lower platform
- 16 Storage compartment for operating manual
- 17 Joystick
- 18 Emergency stop
- 19 Forklift pockets and anchoring points
- 20 Connection for 230 V power cable
- 21 Main power switch
- 22 Nameplate
- 23 Warning light
- 24 Mechanism for the pothole protection bars
- 25 Emergency lowering handle
- 26 Selector lever (drive / freewheel)
- 27 Bumper protection



2.3 Lift controls



- 1 On / off button**
Press to switch the controls on or off. When the lift is switched on, the electrical system and indicators are activated.
- 2 Speed mode indicator**
Indicates which driving speed is selected.
 - ○ ○ ○ ○ First LED = Low speed selected (0.8 km/h)
 - ● ○ ○ ○ Second LED = High speed selected (4 km/h)
- 3 Speed selector**
This selector allows the operator to choose between low and high driving speed.
- 4 Extra buttons**
These buttons currently have no function.

5 Battery indicator

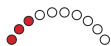
Displays the current battery charge status via coloured LEDs. Always check the battery status before each work shift to avoid downtime and ensure safe operation.



Solid green: Battery fully charged. The lift is ready for operation during the entire work shift.



Solid yellow: Medium battery level. Plan to charge the battery after the work shift or at the first available opportunity.



Solid red: Low battery level. Charge the battery as soon as possible. Do not start new work before charging.



Flashing red (1 LED): Battery discharged or near critical level. The lift may shut down or limit functions. Stop work immediately and charge the battery!



Flashing LEDs: Indicates a error code, check the charger and battery wiring.



NOTE!

Repeated operation at low battery level may shorten battery life. Always charge the batteries according to the instructions in this operating manual.

6 Horn

The horn activates an audible warning signal to alert persons nearby, for example during movement or when there is a risk of collision.

7 Raise / lower platform

Press the “up” button to raise the platform.

Press the “down” button to lower the platform.

8 Emergency stop

Press the emergency stop button to switch off the lift. Rotate the emergency stop button clockwise to reactivate the lift.

3. WARNING DEVICES

Scheduled inspection of warning and protective devices shall be carried out in accordance with Chapter 7. The inspection should cover both function and condition.



WARNING!

Failure to follow this information may result in immediate danger to life.



REQUIREMENT!

Prescribed use of personal protective equipment or other required safety aids.



NOTE!

Information that requires special attention.



Read and understand all instructions and safety information before use

All personnel must carefully read, understand, and follow all safety instructions and operating instructions in this operating manual before operating or doing maintenance on the lift.



Fall hazard

NEVER climb, sit, or stand on the platform guardrails. If the platform cannot be lowered, NEVER climb down the mast.



Tipping hazard

NEVER raise the platform or drive the lift with the platform raised unless the lift is standing on a level and firm surface.



Collision hazard

NEVER operate the lift before ensuring that the area around the lift is free from obstacles or other hazards.



Electricity

This lift is not electrically insulated. It is therefore necessary to maintain a safe distance from overhead power lines or other live electrical components.



Risk of crush injury

To prevent crush injuries, make sure that people or other equipment are not within the lift's working area. Observe the danger signs that are placed on the lift.



Only one operator is permitted on the platform at any time (even if the maximum load is not exceeded).



The lift may only be used indoors on flat and solid surfaces that are suitable for the load of the lift.



The lift must not be exposed to liquids, humid environments (humidity $\leq 90\%$) or temperatures lower than 0 °C or higher than 40 °C.



The lift must not be used as a crane. Never push or pull objects with the lift.



Never increase the platform height by using stairs, ladders, or similar equipment.



Make sure that the operator uses appropriate safety equipment.



Make sure the safety gates are closed when the platform is in use.

4. LIFT SAFETY (CE)

The lift is marked with a CE label, which means it has been designed, manufactured, and documented in accordance with the EU Machinery Directive 2006/42/EC.

4.1 Applied directives and standards

The lift meets all requirements according to:

- 2006/42/EC – Machinery Directive
- 2014/30/EU – EMC Directive
- 2014/35/EU – Low Voltage Directive (LVD)

As well as relevant parts of reference standards:

- EN 280-1:2022 – Mobile elevating work platforms
- EN ISO 12100 – Machine safety, risk assessment and risk reduction

The lift has been designed and documented to meet all safety and functional requirements applicable to indoor mobile work equipment.

4.2 Operating environment and charging

The lift is equipped with an integrated battery charger, as well as control systems, indicators, and control box that comply with the EMC and low voltage directives. For correct and safe operation:

- Connect only to a protected and grounded 230 V outlet with a capacity of at least 2600 W.
- Charging must not be performed while the lift is in use.
- Avoid strong sources of interference (welders, radio transmitters, HF tools).
- Check that the charging cable and connection are intact and correct.

4.3 Operator responsibility and training

The lift may only be operated by trained personnel familiar with this manual. The operator is responsible for:

- Performing daily inspections
- Ensuring no obstacles are within the lift's working area
- Never operating the lift with a damaged cable, lever, or indicator
- Not using the lift outdoors
- Always checking that signs and warning labels are readable and that the user manual is present on the lift

4.4 Modification and product responsibility

- If the lift is modified without the manufacturer's approval, the CE marking is no longer valid.

- All maintenance must be carried out using original Safelift parts.
- Missing or damaged warning labels must be replaced immediately.
- Warranties and liabilities are void in cases of improper use or unauthorized modification.

4.5 Spare parts and components

To ensure long service life and maintained safety, only original spare parts from the manufacturer should be used for maintenance and repairs. The lift is constructed with high-quality components that under normal conditions require minimal maintenance, but certain parts are classified as wear items and must be replaced as needed or according to the maintenance schedule.



WARNING!

Using non-original spare parts may affect the function, safety and CE marking of the lift.

4.6 Manufacturer

This lift is manufactured by:

Safelift Sweden AB
Kvarnvägen 14
SE-352 41 Växjö
Sweden

4.7 Labelling

The lift is fitted with the following type plate:

SAFELIFT°	
MODEL	MA50H
MANUFACTURING YEAR	20XX
SERIAL NUMBER	70XXXX
LIFT WEIGHT	445 kg
MAXIMUM LOAD (SWL)	180 kg / 1 person
MAXIMUM INCLINATION FOR OPERATION	1°
MAXIMUM MANUAL FORCE	200 N
MAXIMUM WIND FORCE	0 m/s
MANUFACTURER	
Safelift Sweden AB	
Kvarnvägen 14	
SE-35241 Växjö, Sweden	
www.safelift.se	
	

5. PERSONNEL SAFETY

5.1 Operator safety and responsibility

5.1.1 USE OF PERSONAL PROTECTIVE EQUIPMENT

The operator must wear appropriate protective equipment such as a helmet, non-slip shoes, and a harness anchored to the platform.

5.1.2 FIRE ALARM OR EVACUATION SIGNAL DURING OPERATION

In case of a fire alarm or other evacuation signal, the operator must immediately lower the platform and leave the lift. Work may only resume after approval from the responsible supervisor.

5.1.3 IF A PERSON BECOMES TRAPPED ON THE PLATFORM – ACTION PROCEDURE REQUIRED

If the operator becomes trapped or unable to operate the lift, a person on the ground must use the emergency lowering handle to lower the platform. If necessary, the operator may need to be removed using another lift or platform.

5.1.4 ALWAYS END WORK SHIFTS WITH A SAFETY CHECK

At shift change, the previous operator must leave the lift in a controlled and safe condition. The platform must be lowered, and the key stored securely.

5.1.5 CHECK FOR SLIP HAZARDS ON PLATFORM FLOOR AND FOOTWEAR

The platform floor and the operator's shoes must be kept free from grease, oil, and liquids. Slip risks increase, especially during indoor work in damp environments.

5.1.6 NEVER BLOCK THE LINE OF SIGHT TO WARNING INDICATORS

The operator must not place objects or tape over indicator lights, battery displays, or other visual information. The panel must remain fully visible.

5.1.7 SAFETY INSTRUCTIONS MUST BE EASILY ACCESSIBLE ON SITE

The user manual and other relevant documents must be stored physically or digitally on the lift and be accessible to all operators.

5.1.8 ONLY THE LATEST VERSION OF THE MANUAL MAY BE USED

The operator must have access to the current user manual with all updates, decals, and illustrations in place.

5.1.9 WORK UNDER THE PLATFORM IS PROHIBITED

No one may be under the platform when elevated, especially during maintenance or emergency lowering. Secure the platform according to Chapter 6.6.

5.1.10 RISK OF FALLING

Standing, sitting, or climbing on the platform rails or components is strictly prohibited. The operator may only stand firmly on the platform floor. Gates must always be closed when the operator is on the platform.

5.1.11 USE NEAR LEVEL DIFFERENCES

When working near level differences (loading docks, stairwells, elevator

shafts, open manholes, etc.), extra caution must be taken. Use physical barriers or gates. The operator is responsible for securing the ground area.

5.1.12 TRAINING AND AUTHORIZATION REQUIREMENTS

Only persons with documented training and approved competence may operate the lift. Training must include knowledge of controls, hazard zones, and daily inspection.

5.2 Safety during use

5.2.1 USE NEAR OVERHEAD OBSTACLES

Before raising, the area above the platform must be checked for obstacles, beams, or pipes. The operator is responsible for ensuring the platform does not collide with anything during elevation.

5.2.2 USE IN SENSITIVE ENVIRONMENTS

The manufacturer takes no responsibility for work in environments requiring low particle levels (e.g., laboratories or hospitals).

5.2.3 INSPECTION OF CHASSIS WELDS AND ATTACHMENTS

During visual inspection, welds, bolts, and attachments must be checked for cracks, rust, looseness, or deformation. All damage must be repaired before operation.

5.2.4 MANUAL LOWERING – SAFETY MEASURES

During manual emergency lowering, no persons may be under the platform. Maintain a safe distance from the mast and ensure the surrounding area is clear of obstacles. Stop lowering immediately if the platform stops moving downward or the lift makes unusual noises.

5.2.5 STIFF OR STICKING CONTROLS

If any button or joystick sticks, jams, or does not return to neutral, the lift must be taken out of service immediately. Controls must not be used with tools or other aids.

5.2.6 CHECK WHEELS AND FASTENINGS

Daily check that wheels, hubs, nuts, and retaining rings are intact, properly tightened, and show no signs of wear, rust, or deformation. Inspect especially after transporting the lift.

5.2.7 USE WITH DAMAGED SAFETY DEVICES PROHIBITED

The lift must not be used if safety features (e.g., tilt sensor, emergency stop, safety gates) are malfunctioning, disconnected, or damaged.

5.2.8 LIMITED VISIBILITY AND USE IN DARKNESS

The lift must not be used in poorly lit environments. If working in darkness is necessary, the area must be safely illuminated before operating the lift.

5.2.9 DRIVING ON INCLINES

Do not exceed the specified maximum slope for driving. Monitor the tilt indicator and stop immediately if a warning is activated.

5.2.10 INCORRECT USE OF JOYSTICK

The joystick must only be operated with the hand. Do not press with tools, elbows, or other objects.

5.2.11 PROTECTION AGAINST VIBRATION AND SHOCKS

Avoid subjecting the lift to impacts or vibrations. Forklift lifting must only be performed in the lift's marked fork pockets.

5.2.12 VISUAL INSPECTION FOR DAMAGE BEFORE USE

Inspect the entire lift before each use. Cracks, leaks, distortions, or malfunctions must be reported before operating the lift.

5.2.13 TRANSPORT IN ELEVATORS OR CONFINED SPACES

When transporting in an elevator or similar confined space, the platform must be fully lowered and safety devices engaged.

5.2.14 USE ON UNEVEN OR SOFT SURFACES

The lift may only be used on level, firm, and dry surfaces that are not slippery. Driving or raising on slopes, unstable, or soft surfaces increases the risk of tipping.

5.2.15 USE IN RAIN, SNOW, ICE, OR HUMID ENVIRONMENTS

The lift is not designed for outdoor use. Only use in dry indoor conditions.

5.2.16 RISK WHEN WORKING NEAR FLOOR DRAINS OR WATER

If working near floor drains, sewers, or damp areas, the surface must be inspected and drained if necessary. The lift must never be used where standing water could cause slip or electrical hazards.

5.2.17 USE NEAR ROADWAYS OR TRAFFIC ZONES

When working near vehicle traffic, forklift lanes, or other moving lifts, the area must be cordoned off. Always use warning signs and clear boundaries.

5.2.18 SPECIFIC HAZARDS IN INDUSTRIAL ENVIRONMENTS

In areas with robots, conveyor belts, elevators, or similar, the lift's work area must be checked and locked. Automatic equipment must not affect the lift.

5.2.19 MOISTURE DAMAGE TO CONTROLS OR CABLING

If controls or cables are exposed to moisture, condensation, or liquid spills, they must be inspected before operating the lift. Moisture damage can cause short circuits or safety system failure.

5.2.20 STORAGE IN COLD OR HUMID CONDITIONS

The lift must only be used in dry environments. It must not be stored or used at temperatures below 0 °C. There is a risk of corrosion, ice formation, electrical faults, or hydraulic system damage.

5.2.21 USE NEAR HOT STEAM PROHIBITED

The lift must not be used near hot steam or high heat radiation. Risk of personal injury or component damage.

5.2.22 RISK OF ELECTRIC SHOCK WHEN WORKING NEAR LIVE PARTS

Always maintain a safe distance from power lines. The lift is not insulated and must never be used near high voltage.

5.2.23 DAMAGE TO CONTROLS OR PANELS

If controls, joystick, or control panels are damaged, loose, or malfunctioning, the lift must be immediately taken out of service. No temporary solutions are allowed.

5.2.24 LABELING DURING DOWNTIME OR FAULTS

If the lift is taken out of service due to a fault or damage, it must be labeled clearly: "DO NOT USE – EQUIPMENT FAULT." The main switch must be turned off, and the key removed from the lift.

5.2.25 GATES

The gates must always be closed when driving the lift or raising the platform.

5.2.26 EMERGENCY STOP

If the emergency stop does not function, the lift cannot be stopped in an emergency. Test the function daily – all movement must stop immediately.

5.2.27 TILT SENSOR

A sensor prevents raising the platform or driving the lift in the elevated position if the lift tilts more than 2°.

5.2.28 LIFT CHAINS

Worn chains in the lift mast can cause malfunctions or failure. Check chains every six months and lubricate as instructed – replace at the first sign of damage.

5.2.29 SLIDING BEARINGS

Worn sliding bearings in the lift mast can cause malfunctions or failure. Inspect bearings for wear, cracks, discoloration, or looseness. Replace worn bearings.

5.2.30 ROLLERS

Rollers in the lift mast must rotate freely without abnormal resistance or noise. Regularly inspect roller condition.

5.2.31 SIGNS AND DECALS

All warning symbols and CE markings must be fully legible. Clean dirty or replace faded or damaged decals immediately.

5.2.32 ANCHORAGE POINT

The safety harness anchorage point must be checked for cracks, deformation, or damage. Inspect before each use.

5.2.33 ELECTRICAL SMELL OR OVERHEATING

If an electrical smell, overheating, or smoke is detected, the lift must be immediately turned off and checked by a qualified electrician. Do not restart until the cause is determined.

5.2.34 REMOVAL OF GUARDS OR COVERS

Guards and covers may only be removed by an authorized service technician. Components under covers may be live, moving, or sharp.

5.2.35 FIRST USE AFTER DELIVERY – SAFETY CHECK REQUIRED

Before the lift is used for the first time after delivery, all safety components

must be checked according to the user manual. Pay special attention to charging, wheels, controls, and decals. See Chapter 7.

5.2.36 REPEATED TILT ALARM – INSPECTION REQUIRED

If the tilt sensor alarms even on a level surface, the lift must be taken out of service. Ensure the tilt sensor is securely mounted, and reset if necessary. See service manual.

5.2.37 USE PROHIBITED IF MALFUNCTION IS SUSPECTED

If controls, sounds, indicators, or driving behavior deviate from normal, the lift must be immediately taken out of service. No further use is permitted until a technical inspection is completed.

5.2.38 MODIFICATION OF THE LIFT'S CONSTRUCTION IS PROHIBITED

No changes to the lift's function, platform, controls, or electronics may be made without written approval from the manufacturer. CE marking is void if modified.

5.2.39 DOCUMENTATION AVAILABLE FOR INSPECTION

During maintenance, service, or inspection, the user manual, service log, and CE declaration must be available. Documents must be up-to-date.

5.2.40 UNAUTHORIZED PERSONS MUST NOT BE NEAR THE LIFT

Unauthorized persons may not be present within the lift's work area.

5.2.41 CHECK ALL WARNING INDICATORS BEFORE START

Before starting, all warning indicators, symbols, and alarms must be checked. If any signals are incorrect, the lift must be serviced before use.

5.2.42 LIFT MUST BE TAKEN OUT OF SERVICE AFTER AN INCIDENT OR ACCIDENT

After an accident, collision, tip-over, or other physical impact, the lift must be immediately taken out of service. A full inspection by a qualified technician is required before further use.

5.2.43 BATTERIES MAY ONLY BE REPLACED WITH APPROVED MODELS

Only 12 V batteries (110 Ah) according to the manufacturer's specifications may be used.

5.2.44 LIFT MUST NOT BE USED AS A TOWING DEVICE OR SUPPORT

It is prohibited to push, pull, brace, or attach other objects to the lift. The lift is not designed for lateral external loads or to be used as a crane.



6. HOW TO USE



Read carefully, understand, and follow all safety rules, operating instructions, decals, and national safety regulations / requirements.

6.1 Checks before using the lift

1. Inspect the lift for damage, loose screws, or oil leaks.
2. Check that the batteries are charged and that the charging cable is disconnected.
3. Check that the wheels are not damaged and are securely fastened by inspecting that the safety markings on the wheel bolts are aligned in a straight line.

6.2 Main switch

The lift is equipped with a main switch located in front of the mast. The switch is used to cut all electrical power to the lift. The key to the main switch must always be removed when the lift is not in use to prevent battery discharge, unauthorized use, and to enable safe maintenance.



NOTE!

The main switch also functions as a safety barrier during charging. It must be set to the OFF position during charging and when performing maintenance.

6.3 Horn

The horn is activated via a button on the control panel and is used to warn people nearby before or during movement of the lift. The horn can be deactivated by releasing the button or pressing it again.



NOTE!

The horn must always be used when moving the lift in confined or noisy environments.

6.4 Tilt sensor

The lift is equipped with a tilt sensor that measures the platform's inclination in real time. The lift is safe for inclinations up to 2°, but normal operation should be under 1°. If the tilt exceeds 2°, a warning is activated that:

- Automatically blocks the raising function. Raising cannot be resumed until the tilt is less than 2°.

- Blocks driving when the platform is elevated. Driving is only possible in transport mode to reach level ground.
- Emits an audible alert to the operator.

6.5 Battery charging

The lift has a built-in charger. To charge, connect the lift to a grounded 230 V wall outlet.

Charging routines:

- Charge the batteries after each work shift and when the battery indicator shows low level.
- Do not charge while the lift is in use.
- Do not disconnect the batteries during charging.
- Keep the charger dry and protected from dust.



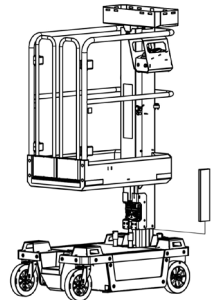
Electrical smell or overheating

If an electrical smell, overheating, or smoke is detected, the lift must be immediately switched off and inspected by a qualified technician. The lift must not be restarted until the cause has been determined.

6.6 Securing the platform

Mast safety block

- The lift is equipped with a safety block to prevent the platform from falling when elevated.
- The safety block is stored in the chassis next to the right battery.
- The safety block must be placed next to the mast (see image).
- After use, return the locking block to the chassis.



WARNING!

Never lift the lift with the release levers in drive mode – only in freewheel mode. Never lift via the platform, guardrails, or other structures not intended for this purpose.

6.7 Transport of lift

6.7.1 TRANSPORT WITH FORKLIFT

The lift may only be moved with a forklift in fully lowered position. No persons may be on the lift during transport. Forklift use is for transport only and must never be used to increase lifting capacity. Check the lift's weight in the specifications and ensure the forklift has sufficient capacity. The forklift forks must be inserted into all lift lifting points on the chassis. Ensure the lift is secured and cannot slip from the forks. Lock the lift's swivel wheels during transport.

6.7.2 TRANSPORT WITH TRUCK

When transporting by truck, the lift must be fully lowered and not operated during transport. Wheels must always be blocked with chocks and the lift must be properly secured. Use only the lift's lifting points on the chassis for anchoring. Do not anchor to the platform or mast. Be careful not to overtighten straps or chains, as this may damage the lift.

6.7.3 RISK OF IMPROPER TRANSPORT

Transport with crane, forklift, or truck must follow instructions to prevent damage or accidents.

6.8 Export restriction

The lift may not be exported from the country of delivery without written approval from the manufacturer. Unauthorized export may void the CE marking and affect warranties, insurance coverage, and legal liability in case of accidents or inspections.

6.9 Storage

6.9.1 SHORT-TERM STORAGE

- The lift must be stored indoors in a dry environment with stable temperature.
- For outdoor storage, cover the lift with a waterproof cover.
- Batteries must be fully charged and recharged at least every 30 days.
- Never store at sub-zero temperatures. If the lift has been stored at 0 °C, it must reach at least 10 °C before use.
- Avoid direct sunlight or high temperatures above 40 °C.
- During temporary outdoor storage, cover the lift with a waterproof protective cover.
- Perform a visual inspection of hoses, connectors, emergency stop, and safety decals.

6.9.2 LONG-TERM STORAGE

For long-term storage, keep the lift indoors in a dry environment on level ground, with the platform lowered and the main switch turned off. Remove the main switch key to prevent unauthorized use. Connect a 230 V cable to the lift's battery charger to maintain battery charge automatically.

6.10 Cleaning

Keep the lift mast surfaces clean from dust and dirt. Use a mild soap solution or alcohol-based cleaner.

6.10.1 HIGH-PRESSURE WASHING PROHIBITED

Do not use a high-pressure washer on the control panel, drive system, or charger. Water ingress may cause short circuits or permanent damage. Use mild cleaning agents, alcohol, or water, and avoid exposing the lift to water spray or moisture. After cleaning, dry the lift thoroughly. Oil sliding surfaces and treat corrosion-prone components with anti-rust protection as needed.

6.10.2 USE IN DUSTY ENVIRONMENTS

In areas with high dust, wood shavings, grinding residue, etc., more frequent cleaning is required.

6.10.3 CLEANING CONTROLS AND COMPONENTS

Control panels and electrical connections must be kept dry, clean, and dust-free. Use only compressed air or a lightly damp cloth, then dry thoroughly. Avoid strong solvents that can damage painted, anodized surfaces, decals, or electronics.



WARNING!

When cleaning the lift, the main switch must be turned off and the lift disconnected from the power supply (230 V).



Important information about the safety systems

All safety systems are thoroughly tested according to the manufacturer's specifications and standards. If a fault is suspected, the lift must be taken out of service and inspected by a qualified technician. No safety systems may be modified or disconnected.

6.11 Overview of safety features

- **Emergency stop**
Immediately interrupts all electrical functions in an emergency. Located on the platform control panel.
- **Emergency lowering**
Allows safe lowering of the platform in case of power failure.
- **Tilt sensor**
Prevents driving or raising if the lift tilts more than 1° and issues an audible warning. Requires the lift to be on level ground before reset.
- **Warning light**
The warning lamp on the chassis flashes when the main switch is on.
- **Pothole protection bars**
Prevents the lift from tipping if one or more wheels fall into a pothole. Deploys automatically when the platform is raised from its lowest position.
- **Chain slack sensor**
The platform can only be raised when the mast chains are slack. Lowering or driving is not possible.
- **Chain break switch**
The platform can only be lowered if a mast chain has broken. Raising or driving is not possible.
- **Release levers**
Activate or disengage the drive motors. Must be engaged for lift operation

or platform movement. To push the lift by hand, the levers must be disengaged.

- **Anchorage point**
Used to attach safety harnesses or equipment.
- **Guardrails and gates**
Prevent falls from the platform. Gates must be closed and must not be opened during operation.
- **Speed limiter**
Limits driving speed when the platform is elevated. Indicated by an LED on the control panel.
- **Safety signs and decals**
Clear warning symbols and instructions inform about risks during operation and maintenance.

6.12 Inspection and maintenance

The lift must be regularly inspected and maintained by a qualified technician for safe operation. During maintenance, the 230 V power must be disconnected and the main switch turned OFF. See Chapter 7.



7. MAINTENANCE

The lift is designed to facilitate work at height with maximum safety and user-friendliness. To ensure correct operation and safe use, all components must be kept in good condition, and the operator must follow the manufacturer's instructions. Maintenance and inspection routines are therefore a natural part of daily lift operations and should be seen as an investment in both safety and reliability. Neglect may lead to reduced lifespan, unnecessary wear, and increased risk of accidents.



WARNING!

During maintenance, the 230 V power must be disconnected, and the main switch must be in the OFF position.

7.1 Daily inspection

7.1.1 VISUAL INSPECTION

- **Guardrails and gates:** Ensure that guardrails and gates are straight, stable, and free from cracks.
- **Platform floor:** Check that the surface is dry, non-slip, and free from loose objects.
- **Labels and decals:** Verify that warning symbols and instruction texts are readable and not worn or dirty.
- **Anchorage point for safety harness:** Ensure the anchor is free from corrosion, cracks, and properly marked.

7.1.2 FUNCTIONAL INSPECTION

- **Gates:** Gates must close completely and return automatically to the closed position.
- **Wheels and braking function:** Check that all wheels are undamaged and that the lift remains stationary when not moving (automatic brake function).
- **Joystick:** Verify that driving functions (forward/backward) operate correctly.
- **Control panel:** Check that the lift control panel (raising/lowering) functions correctly and shows no visible faults or damage.
- **Emergency stop:** Activate the emergency stop and ensure that all functions are immediately interrupted. Reset the emergency stop (by rotating the emergency stop button clockwise), restart the joystick, and verify that the system resumes normal operation.
- **Drive / freewheel levers:** Verify that driving is only possible when the drive mode is correctly set (via the two release levers on the lift mast). The

platform must not raise when the drive wheels are in freewheel mode.

- **Tilt sensor and alarm:** Tilt the lift slightly forward or sideways (or use test mode) to check that the system triggers an alarm and prevents driving/raising.
- **Emergency lowering (mechanical):** Pull the emergency lowering handle and ensure the platform descends smoothly.
- **Battery:** Check that the batteries are intact and show no signs of fluid leakage.
- **Battery charge status:** Check the battery indicator on the joystick. A yellow or red LED requires that the lift be charged.
- **Hydraulics:** Ensure there are no visible leaks in the lift chassis, lift cylinder, hoses, or tank.
- **Chassis:** Inspect for missing or loose screws, guards, or components.



WARNING!

If any fault, deficiency, or damage is detected: report and correct it immediately before using the lift.

7.2 Inspection and maintenance intervals

A complete lift inspection consists of regular visual and functional checks. Minor adjustments may be needed to ensure proper operation. Daily inspections prevent abnormal wear and contribute to a long lifespan for the lift and its systems.

Inspection and maintenance must be performed at the following intervals and only by trained personnel familiar with electrical and mechanical functions.

Recommended inspection and maintenance intervals:

- **Daily:** See separate section for daily inspection.
- **Monthly:** Lubricate the guide wheels in the mast. Visually inspect the hydraulic system, including oil level and leaks.
- **Annually:** Complete technical review, including inspection of electrical components, battery, and safety systems.

Inspection point	Daily	Monthly	Semi-annual	Annual
Visual inspection	x			
Guardrails	x			
Gates	x			
Emergency stop	x			
Tilt sensor function	x			
Function of the pothole protection bars	x			
Anchorage point for safety harness	x			
Safety signs and decals	x			
Wheels and braking function	x			
Control panel and joystick	x			
Visual inspection for leaks	x			
Lubrication of guide wheels in lift mast		x		
Adjustment of guide rollers in lift mast			x	
Hydraulic oil level			x	
Inspection of chains in lift mast			x	
Lubrication of chain wheels in lift mast			x	
Inspection of bushings in lift mast			x	
Battery mounting inspection			x	
Hydraulic oil replacement				x
Complete technical inspection				x

7.3 Hydraulic system inspection

The lift's hydraulic system is a closed system that requires regular maintenance to ensure operational reliability, long service life, and user safety. Improper maintenance can cause safety hazards and costly repairs.

7.3.1 HYDRAULIC OIL CHECK AND REPLACEMENT

Oil level:

Check the oil level regularly or if leakage is suspected. The dipstick is located under the hydraulic tank's filler cap, beneath the chassis covers. The platform must be in the lowered position when checking the oil level.

Hydraulic oil quantity MA50H: 3,0 L.

Oil type:

Refill only with approved hydraulic oil:

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

Metal particles:

Inspect the oil for metal particles. If metal particles are detected, the lift must be immediately taken out of service, and the hydraulic system serviced by a qualified technician.

Hydraulic oil replacement:

It is recommended to replace the hydraulic oil once per year or after 12 months of total operating time. For intensive use (dusty environments, heavy-duty operation), the interval may need to be shortened. Drain the tank carefully and collect the oil in an approved container for environmentally safe disposal.

**WARNING!**

- If the hydraulic system is leaking oil, the lift must not be used until the fault has been corrected.
- Overfilling can cause pressure issues and damage seals.

7.4 Inspection of chains in lift mast

The chains in the mast must be inspected semi-annually. Chains must be in good condition for the lift to be safe. Worn or damaged chains pose a serious safety risk. If damaged chains are found, take the lift out of service immediately and have an authorized technician replace them.

Chain inspection is performed by removing the tool plate on top of the lift mast. Insert an inspection camera alongside the chains and check their condition.

7.5 Wheels and joystick check

The lift's wheels and joystick must be checked daily. Ensure that the wheels are free from cracks and that the steering operates smoothly. If there is play or unusual noise, the lift must be taken out of service.

7.6 Battery maintenance

A well-maintained battery is essential for the lift's operational safety, longevity, and performance. Poor battery care is a common cause of malfunctions, unnecessary costs, and reduced lifespan.

Battery replacement: Always use original Safelift batteries when replacing. Also check that battery cables are undamaged.

Safety precautions:

- Always wear protective gloves and safety glasses when working with batteries.
- Battery acid is highly corrosive – in case of contact, rinse immediately with water and seek medical attention if necessary.

- Clean battery terminals regularly from corrosion, dirt, and moisture. Apply terminal grease after cleaning.
- Regularly check the battery's charge level and condition using a battery tester.
- Avoid exposing the battery to extreme temperatures (0 to 40 °C) or moisture.



WARNING!

Never charge batteries in enclosed spaces – risk of explosive hydrogen gas. Ensure proper ventilation. Smoking and sparks are strictly prohibited during charging.



NOTE!

Only original Safelift batteries may be used. Using other batteries may affect operation, lifespan, and safety functions, and will void the warranty and CE certification.

7.7 Ordering spare parts

All original parts have unique part numbers. For fast processing when ordering spare parts, please provide the following information:

- Model designation: MA50H
- Serial number (see the lift's nameplate located by the right front wheel)
- Part number (according to service manual or component decal)
- Customer delivery address, contact person, and phone number

Orders should be sent by email to: **service@safelift.se**

Tips for spare part replacement:

- Always document spare part replacements in a service log.
- Inspect and test functionality after installation.
- For electrical work, use only qualified personnel.



NOTE!

A complete spare parts list is available in the service manual, including exploded diagrams and component lists.



Update the service log

Replacement of wear parts, batteries, or other components must be recorded in the service log.

7.8 Troubleshooting table

If the lift does not operate as expected, check the following symptoms, probable causes, and recommended actions. Only basic troubleshooting may be performed by the user. In case of uncertainty, contact authorized personnel.

Symptom	Possible cause	Action
Lift is powerless	Main switch not turned on, emergency stop pressed, batteries discharged.	Turn on main switch, reset emergency stop, charge batteries.
Platform will not raise	Main switch not on, emergency stop pressed, lift button damaged, overloaded platform, tilt sensor activated, low hydraulic oil level, pothole protection bars not fully deployed, chain break.	Check main switch, reset emergency stop, charge batteries, check buttons, reduce load, check tilt sensor, refill hydraulic oil, inspect for obstacles preventing the pothole protection bars from deploying, check chains.
Platform will not lower	Obstruction under platform, main switch not on, emergency stop pressed, batteries discharged, lower button damaged.	Remove obstruction, turn on main switch, reset emergency stop, charge batteries, check buttons.
Lift will not drive	Main switch not on, emergency stop pressed, batteries discharged, joystick not activated, damaged joystick or cables, tilt sensor activated, drive levers not engaged, control box damaged, defective drive motor, battery charger connected to 230 V.	Turn on main switch, reset emergency stop, charge batteries, activate joystick, check joystick and cables, reset tilt sensor, check drive levers, check control box, check drive motor, unplug 230 V cable.
Lift will not drive at high speed	Speed indicator not activated, platform not fully lowered, sensor damaged, low battery.	Activate speed indicator, lower platform fully, check sensors, charge batteries.
Lift cannot be pushed manually	Drive levers in drive mode, swivel wheels locked, automatic wheel lock not working, obstruction.	Set drive levers to freewheel, unlock swivel wheels, check wheel lock, remove obstruction.
Batteries will not charge	Batteries defective, charging cable not connected, damaged charging cable, fuse to charger blown, charger defective, batteries smell bad.	Check batteries, charging cable, fuse, and charger.
Lift does not start despite charged batteries	Main switch off, emergency stop not reset, defective batteries or charger.	Ensure main switch is on and emergency stop is reset. Check battery voltage, cables, and fuses.
Tilt alarm activates at small inclinations	Lift used on too steep slope, defective tilt sensor. A reset may be required.	Operate lift on level surface. If alarm persists, contact reseller or Safelift Service.
Emergency stop not functioning correctly	Emergency stop defective.	Stop using lift and contact authorized technician.
Lift leaks hydraulic oil	Hydraulic oil incorrectly filled, filler cap missing, defective gasket, hydraulic pump, cylinder, or hose.	Collect oil with absorbent material and dispose at approved environmental station. Inspect and repair leak.
Vibration or noise from chassis	Foreign object stuck under chassis, loose or foreign object/component in chassis, defective hydraulic pump, drive motors, wheels, pothole protection bars, or mast.	If unusual noise or vibration occurs from chassis, drive motors, or lift system, immediately take lift out of service and have inspected by authorized technician.



WARNING!

If the fault persists after basic troubleshooting, take the lift out of service immediately and contact an authorized service technician.

7.9 Documentation

Documentation is an essential part of lift operation. Accurate logging of inspections, maintenance, repairs, and any faults is necessary for traceability, safety, and CE marking.

Why documentation is important:

- **Safety:** Documentation demonstrates that the lift is inspected and maintained according to the manufacturer's and regulatory requirements, reducing the risk of accidents.
- **Traceability:** In case of incidents or near misses, it is possible to show which checks and actions were performed.
- **Planning:** A logbook allows planning of upcoming maintenance in time, reducing the risk of downtime.
- **Quality assurance:** Regular documentation enhances the value of the lift and facilitates insurance claims.

What should be documented:

- **Daily inspections:** Record checkpoints with date, signature, and any comments.
- **Maintenance intervals:** Maintenance performed by authorized technicians should be signed and stamped.
- **Repairs:** All repairs must be logged with date, action performed, spare part numbers, and signature.

Digital documentation

Inspection and service logs may also be kept digitally (e.g., Excel or PDF).

Storage of documentation

Documentation must be retained for the entire service life of the lift and be available to supervisors and inspectors.

Documentation requirements

The service log must be available during inspections. If the employer fails to meet training requirements, legal liability may arise in case of accidents or inspections.



IMPORTANT!

Documentation must always be backed up and easily accessible during inspections or audits. Lack of documentation may result in the CE marking being questioned in the event of an accident or during regulatory inspection. The employer is responsible for ensuring that documentation is accurate and up to date.

7.10 Environment, recycling, and waste management

The lift is designed and manufactured with a focus on reducing environmental impact and sustainable resource use. To comply with EU directives, national regulations, and Safelift's environmental policy, the product must be used, serviced, and decommissioned responsibly throughout its lifecycle.

Incorrect handling of materials or waste may cause environmental damage, result in fines, and affect the validity of the CE marking.

Batteries

The lift is equipped with two 12 V lead-acid batteries containing lead and sulfuric acid, classified as hazardous waste.

- Always handle batteries with protective gloves in a well-ventilated area.
- Both batteries must be replaced simultaneously.
- Collect used batteries in acid-resistant containers and deliver them to an authorized recycling center or point of purchase.
- In case of leakage: Neutralize spills with an absorbent.
- Batteries must never be disposed of in household waste, short-circuited, punctured, or exposed to open flames.

Hydraulic oil

- Waste oil is classified as hazardous and must always be collected and delivered to an approved environmental facility.
- Oil should be replaced at least once per year, or more often in case of intensive use.

Electronics and components

Electrical components (e.g., chargers, cabling, control systems) fall under the WEEE Directive (2012/19/EU).

- Disassemble and deliver to an approved recycling center.
- Components must never be incinerated or disposed of in household waste.
- Label and sort components during disassembly.

Plastic and metal components

- Plastics should be sorted and recycled according to local regulations.
- Metals (chassis, mast, screws) should be recycled via an authorized recycling station.
- Keep plastics and metals separated during disposal.

Packaging materials

- Sort all packaging materials (wood, plastic, cardboard) according to local regulations and deliver to a recycling station.
- Packaging must not be left unsorted or dumped in nature.

End-of-life disposal of the lift

Batteries, electronics, plastics, and metals must be separated and handled according to legal requirements.

Energy-efficient use and maintenance

- Always turn off the lift using the main switch when not in use to save energy.
- Charge batteries regularly in a well-ventilated area.
- Avoid overloading and uneven surfaces, which increase energy consumption and wear on batteries and hydraulics.
- Use only recommended, environmentally approved hydraulic oils and lubricants.

Environmental guidance and responsibility

- Never dispose of batteries, oils, or electronic waste in nature.
- Always follow instructions for recycling and environmental handling.
- Use original spare parts and approved oils to maintain environmental and CE compliance.
- Only trained personnel may perform maintenance and battery replacement.
- Neglecting environmental precautions may lead to legal consequences and revocation of CE marking.

Environmental certifications and guidelines

- The lift complies with CE marking, RoHS, WEEE, and the Machinery Directive 2006/42/EC.
- Safelift documents and monitors environmental and sustainability objectives.

7.11 Customer service and technical support

To ensure safe and correct use of the lift and to maintain the validity of the CE marking, Safelift provides customer service and technical support. Always contact authorized service personnel for advice, spare parts, and technical questions.



NOTE!

For technical questions, troubleshooting, or support, contact your dealer or Safelift at: **service@safelift.se**

8. DECLARATION OF CONFORMITY

SAFELIFT®

Declaration of Conformity CE

Manufacturer: Safelift Sweden AB
Kvarnvägen 14
SE-352 41 Växjö
SWEDEN

Safelift Sweden AB, VAT-no: SE 556820966101, declares that the following product:

Machine type: Mobile Elevating Work Platform
Model: M A 5 0 H
Serial number:
Year of manufacture: 2 0
Date of manufacture: (YYMMDD)

has been manufactured in accordance with the following product directives:

2006/42/EC; 2014/30/EU; 2014/35/EC

and in conformity with the relevant parts of the following reference standards:

EN ISO 60204-1:2006, EN ISO 13850:2008, EN ISO 7731:2008, EN ISO 13849-1:2008, EN ISO 12100:2010, EN ISO 14121-2:2012, EN 280-1:2022



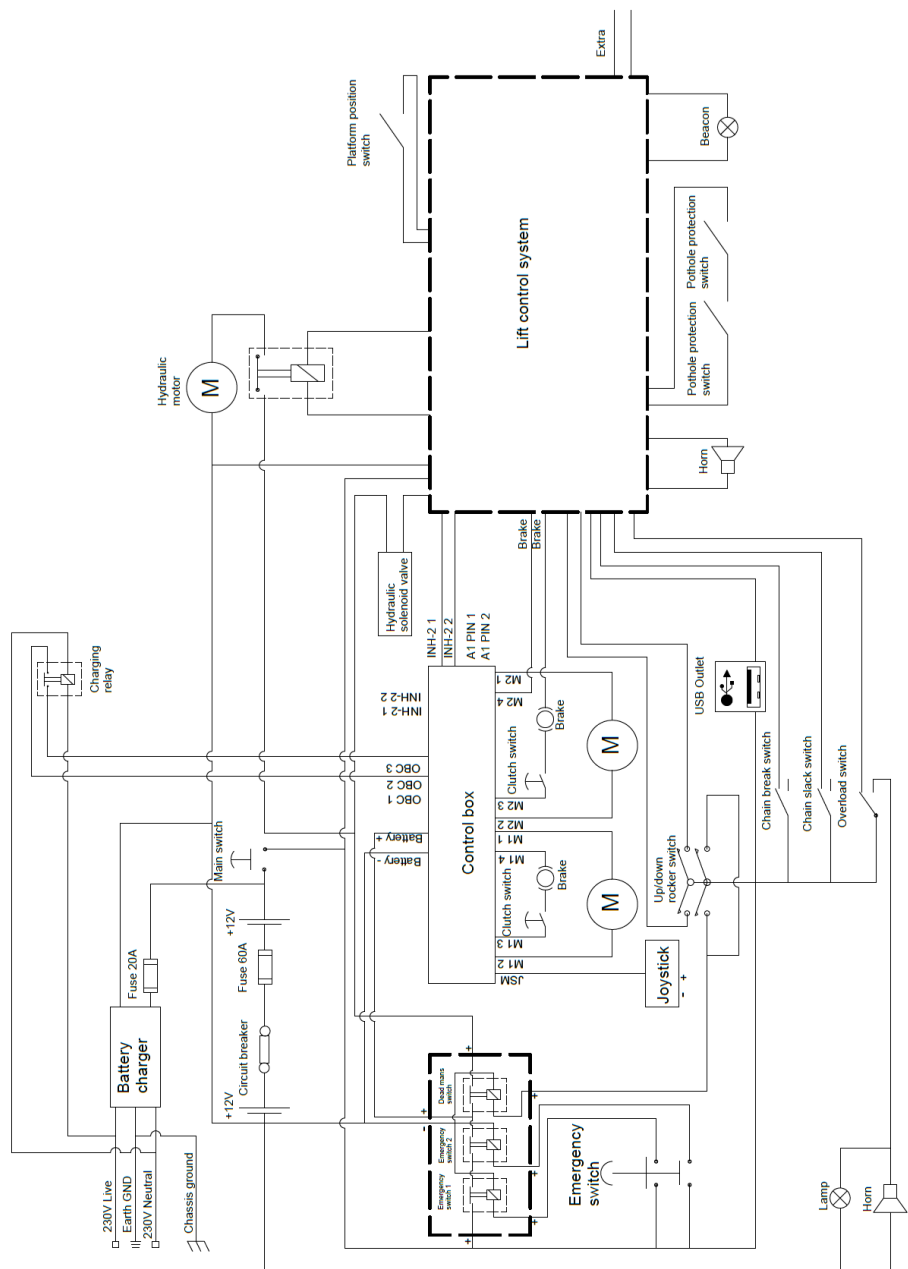
SIGNATURE

Name: Bo Arrhén
Title: CEO
Date: 250929 (YYMMDD)
Place: Växjö

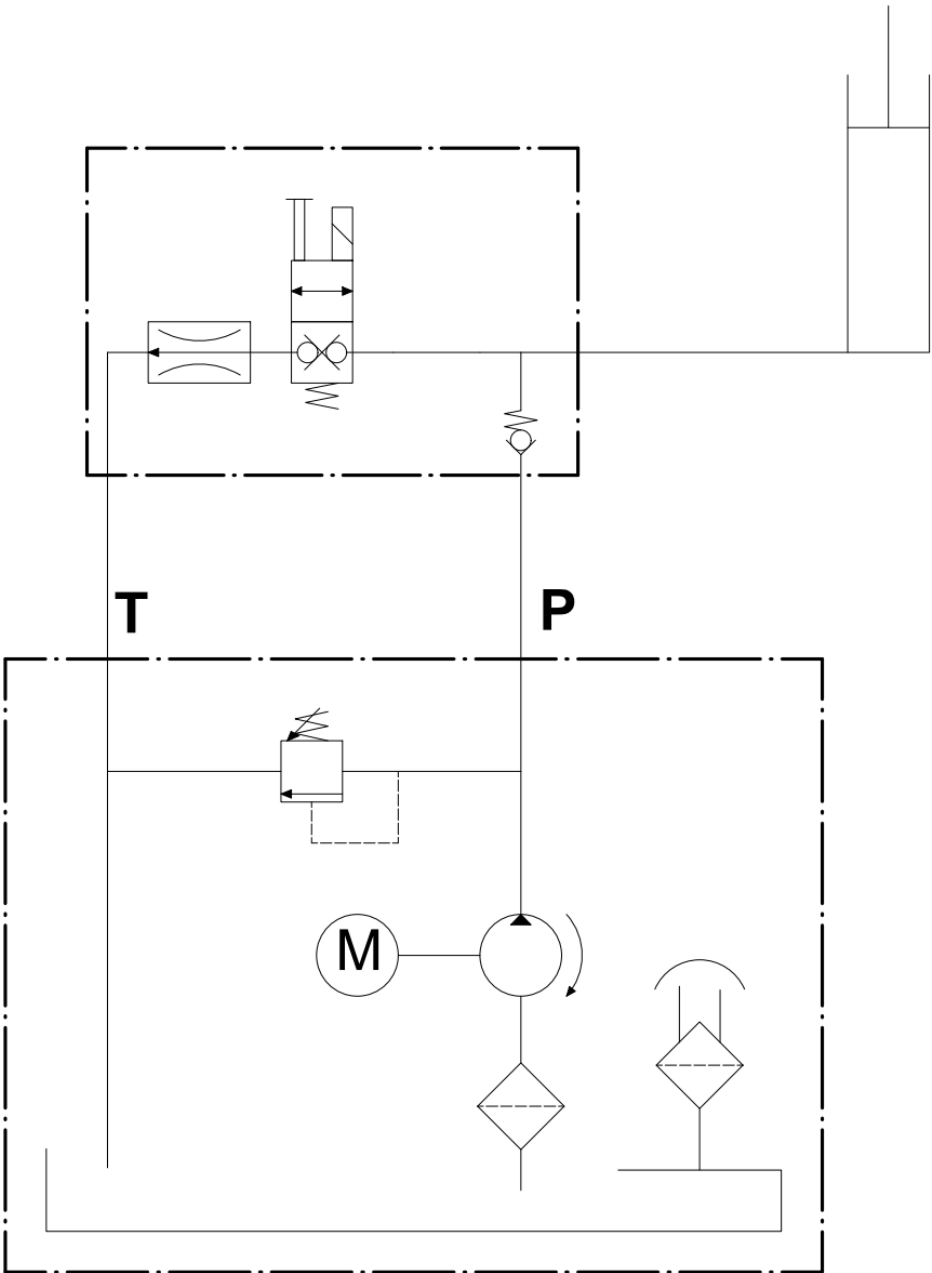
NOTE! This declaration complies with Annex II, Part A, of 2006/42/EC. In case of modification or alteration of the above-mentioned lift, this document becomes void.

9. APPENDICES

9.1 Electrical schematic



9.2 Hydraulic schematic



10. TERMS AND REGULATORY DOCUMENTS

10.1 Definitions and terminology

This chapter contains definitions and explanations of technical terms, abbreviations, and symbols used in this operating manual. Understanding these terms is a prerequisite for safe and correct use of the lift.

10.1.1 GENERAL TERMS

- **CE marking** – The manufacturer's declaration that the product complies with all applicable EU directives.
- **EN 280-1:2022** – European standard for mobile elevating work platforms.
- **MA50H** – Model designation for the Safelift mobile elevating work platform.
- **Machinery Directive** – EU Directive 2006/42/EC regulating safety requirements for machinery and lifts.

10.1.2 TECHNICAL TERMS

- **Hydraulic system** – System using hydraulic fluid to transmit force and control lift movements.
- **Control device** – Joystick on the control panel used to operate the lift.
- **Tilt sensor** – Electronic sensor that triggers an alarm in case of excessive inclination and prevents lift movements.
- **Emergency stop** – Safety function that immediately shuts down the lift in emergency situations.

10.1.3 ELECTRICAL AND BATTERY TERMS

- **LED indicator** – Light indicating charging status, warnings, or faults.

10.1.4 SAFETY TERMS

- **Safety systems** – All functions and components designed to prevent accidents and protect the operator.
- **Service log** – Document in which all inspections, service actions, and repairs must be recorded.

10.1.5 OTHER TERMS

- **Original spare parts** – Parts approved by Safelift that ensure safety and proper function of the lift.
- **Service personnel** – Persons trained and authorized to perform service and repairs on the lift.
- **Employer** – The person or organization responsible for workplace safety and correct use of the lift.

10.2 References

This operating manual is designed to comply with EU directives, national regulations, and industry standards for mobile elevating work platforms. Below is a list of the most important standards and directives forming the basis for the lift and which the user should be familiar with. It is the user's responsibility to stay informed about current laws and regulations.

10.2.1 EU DIRECTIVES

- **2006/42/EC – Machinery Directive:** Specifies safety, design, and documentation requirements for lifts.
- **2014/30/EU – EMC Directive:** Regulates electromagnetic compatibility of electrical lifts.
- **2014/35/EU – Low Voltage Directive:** Ensures that the lift's electrical equipment is safe to use.
- **2011/65/EU – RoHS Directive:** Regulates the use of hazardous substances in electrical and electronic equipment.
- **2012/19/EU – WEEE Directive:** Regulates recycling and handling of electronic waste.

10.2.2 REFERENCE STANDARDS

- **EN 280-1:2022 – Mobile elevating work platforms:** Standard for design, safety, and testing.
- **EN ISO 12100:2010 – Machinery safety – Basic concepts:** Guidelines for risk assessment and risk reduction.
- **EN ISO 13850:2015 – Emergency stop:** Requirements for emergency stop functions.
- **EN ISO 13854:2019** – Minimum gaps to avoid crushing of parts of the human body.
- **EN ISO 13857:2012** – Safety distances to prevent access to hazard zones by upper and lower limbs.
- **EN ISO 13864-1:2016** – Graphical symbols – Warning markings and safety signs.

10.2.3 OTHER DOCUMENTS

- **Service manual** – Contains detailed instructions for service and maintenance.
- **Machine nameplate** – Contains important information such as model, serial number, and CE marking.

10.2.4 IMPORTANT TO REMEMBER

- These standards and directives are valid at the time of publication of this manual. It is the user's responsibility to verify any updates or changes that may affect use and safety.
- For questions regarding standards or interpretation of directives, always contact Safelift Service: **service@safelift.se**

10.3 CE marking checklist

This checklist has been prepared to ensure that the lift meets all requirements for CE marking in accordance with the Machinery Directive 2006/42/EC and applicable standards. The checklist may be used by employers, service personnel, and inspectors as a supplement to verify that the lift is safe and legally compliant.

Checklist:

- ✓ The operating manual and service manual are available at the lift.
- ✓ The nameplate with CE marking and serial number is correctly installed and legible.
- ✓ All signs, warning decals, and safety symbols are in place and in good condition.
- ✓ The lift is used in accordance with this operating manual and with original spare parts only.
- ✓ The lift is correctly maintained and all service actions are documented in the service log.
- ✓ No unauthorized modifications have been made to the lift.
- ✓ All safety systems are functioning and have been tested.
- ✓ The lift has been checked for tilt sensor, emergency stop, and control systems.
- ✓ Only trained personnel are permitted to operate and service the lift.

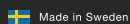


WARNING!

If any item in this checklist is not fulfilled, the lift must be taken out of service until the deficiencies have been corrected. Operating a lift that does not comply with CE requirements may result in serious accidents and legal consequences.



SAFELIFT°



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