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liftmotive.com

# LM-3000MRP Mid Rise Portable Scissor Lift Setup and Operation Manual

Manual Revision A2 — December 2023

Model: • LM-3000MRP





IMPORTANT Safety Instructions, save these instructions! Read the entire contents of this manual before using this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death. Make sure all other operators also read this manual. Keep the manual near the product for future reference. By proceeding with setup and operation, you agree that you fully understand the contents of this manual and assume full responsibility for product use.

# LiftMotive

#### The LiftMotive Story

LiftMotive is a young company which continues to pursue and elevate the standards of excellence through their strategic partnerships with automotive care professionals throughout Europe. As a direct European importer, LiftMotive is uniquely positioned to provide customers with the lowest delivered pricing and unparalleled after sales support.

#### How it started

Imagine a hobby that got out of hand combined with a dream, that makes our business. In 2018, we launched our own brand, LiftMotive. Our idea and goal were to develop and produce high quality products at a reasonable price range. so far our company has made quite some developments and growth.

#### **Our mission**

LiftMotive is the distributor of car lifts and automotive service equipment, because we offer the highest quality products, best service after the sale and most impressive delivery speeds, all while holding fast to the strongest company culture in the industry.

#### **Our values**

Our ongoing goal is to engage candidly and professionally with distributors and individuals interested in our products. We will use every means available to present our wares in the most convenient way possible.

#### **Our vision**

Continue growing a business in providing and distributing products that better people's lives, now and for future generations.

# LiftMotive



# LiftMotive



**Manual.** LM-3000MRP Mid-Rise Scissor Lift, *Installation and Operation Manual*, Manual Part Number 420233, Manual Revision A2 — December 2023

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**Limitations.** Every effort has been made to ensure complete and accurate instructions are included in this manual. However, product updates, revisions, and/or changes may have occurred since this manual was published. LiftMotive reserves the right to change any information in this manual without incurring any obligation for equipment previously or subsequently sold. LiftMotive is not responsible for typographical errors in this manual. You can always find the latest version of the **manual for your product on the LiftMotive website**.

**Warranty.** The LiftMotive warranty is more than a commitment to you: it is also a commitment to the value of your new product. Contact your nearest LiftMotive dealer or visit **www.liftmotive.com** for full warranty details.

**Safety.** Your product was designed and manufactured with safety in mind. However, your safety also depends on proper training and thoughtful operation. Do not install, operate, maintain, or repair the unit without reading and understanding this manual and the labels on the unit. **Do not use your Lift unless you can do so safely!** 

**Owner Responsibility.** In order to ensure operator safety and maintain your product properly, it is the responsibility of the product owner to read and follow these instructions:

- Follow all setup, operation, and maintenance instructions.
- Make sure product setup and use conforms to all applicable local, state, and federal codes, rules, and regulations.
- Read and follow all safety instructions. Keep them readily available for operators.
- Make sure all operators are properly trained, know how to safely operate the unit, and are properly supervised.
- Do not operate the product until you are certain all parts are in place and operating correctly.
- Carefully inspect the product on a regular basis and perform all maintenance as specified.
- Service and maintain the unit only with approved replacement parts.
- Keep all instructions permanently with the product and make sure all labels are clean and visible.
- Only use the Lift if it can be used safely!

**Unit Information.** Enter the Model Number, Serial Number, and the Date of Manufacture from the label on your unit. This information is required for part or warranty issues.

Model:	 	 
Serial:		
Date of Manufacture:		



## **Table of Contents**

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# Introduction

This manual describes the LM-3000MRP, which is a mid-rise, frame-engaging, scissor Lift that is portable and comes with a small footprint designed for narrower bays and low-ceiling garages.

The LM-3000MRP can raise Vehicles up to 3,000 kg.

This manual is mandatory reading for all LM-3000MRP users, including anyone who sets up, operates, maintains, or repairs them.



Be very careful when setting up, operating, maintaining, or repairing this equipment; failure to do so could result in property damage, product damage, injury, or (in very rare cases) death. Make sure only authorized personnel operate this equipment. All repairs must be performed by an authorized technician. Do not make modifications to the unit; this voids the warranty and increases the chances of injury or property damage. Make sure to read and follow the instructions on the labels on the unit.

Keep this manual on or near the device so that anyone who uses or services it can read it.

If you are having issues, refer to the **Troubleshooting** section of this manual for assistance.

Technical support and service is available from your dealer, on the Web at **Liftmotive.com**, by email at **info@liftmotive.com**, or by phone at **+31 627365781**.

You may also contact LiftMotive for parts replacement information (please have the model and serial number of your unit available)

# **Shipping Information**

Your equipment was carefully checked before shipping. Nevertheless, you should thoroughly inspect the shipment **before** you sign to acknowledge that you received it.

When you sign the bill of lading, it tells the carrier that the items on the invoice were received in good condition. *Do not sign the bill of lading until after you have inspected the shipment.* If any of the items listed on the bill of lading are missing or damaged, do not accept the shipment until the carrier makes a notation on the bill of lading that lists the missing and/or damaged goods.

If you discover missing or damaged goods **after** you receive the shipment and have signed the bill of lading, notify the carrier at once and request the carrier to make an inspection. If the carrier will not make an inspection, prepare a signed statement to the effect that you have notified the carrier (on a specific date) and that the carrier has failed to comply with your request.

It is difficult to collect for loss or damage after you have given the carrier a signed bill of lading. If this happens to you, file a claim with the carrier promptly. Support your claim with copies of the bill of lading, freight bill, invoice, and photographs. Our willingness to assist in helping you process your claim does not make us responsible for collection of claims or replacement of lost or damaged materials.

# **Safety Considerations**

**Read this manual carefully before using your new product.** Do not set up or operate the product until you are familiar with all operating instructions and warnings. Do not allow anyone else to operate the product until they are also familiar with all operating instructions and warnings.

### **General Safety Information**

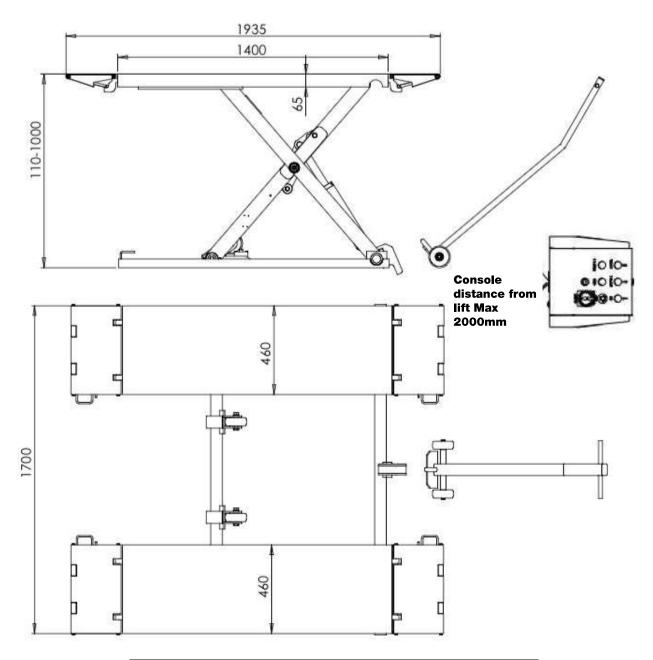
- The product is a mid-rise scissor Lift. Use it only for its intended purpose. Do not make any modifications to the product.
- The product should only be operated by authorized personnel.
- You must wear safety approved personal protective equipment at all times when installing, using, maintaining, or repairing the Lift: leather gloves, steel-toed work boots, eye protection, back belts, and hearing protection are mandatory.
- Keep loads centered and balanced on the Lift.
- **Never** exceed the rated capacity of the Lift.
- When the product is in use, keep all body parts away from it.
- Make sure all operators read and understand the *Installation and Operation Manual*. Keep the manual near the device at all times.
- Make a visual inspection of the product before using it. Check for damage or missing parts. Do not
  use the product if you find any issues. Instead, take it out of service, then contact your dealer,
  email info@liftmotive.com, visit liftmotive.com, or call +31 627365781
- Make a thorough inspection at least once a year. Replace any damaged or severely worn parts, decals, or warning labels.

# **Components**



- **(1) Console**. Hosts the Lift Controls (on top) and the Power Unit (inside). The electric and Hydraulic Hoses connect to the Power Unit inside the Console.
- **(2) Power Unit.** Provides Hydraulic Fluid and pressure to the Hydraulic Cylinders. Housed inside the Console. Connects to an external power source and to the Lift Controls.
- (3) Drive-up Ramps. Used to drive onto and off of the Platforms for the LM-3000MRP
- **(4) Platforms**. The tops of the Lift. Flat steel plates that raise and lower.
- **(5) Base**. The bottoms of the Lift. They hold the Hydraulic Cylinders, the Scissor Legs, the Safety Locks, and the safety lock release.
- **(6) Scissor Legs.** The parts of the Lift that raise and lower, powered by the Hydraulic Cylinders.
- **(7) Hydraulic Cylinders.** Push the Platforms up to raise a Vehicle, move them down to lower it.
- **(8) Safety Locks.** Hold the Platforms in place. Each Lift has multiple Safety Lock positions, which let you select the best Platform height for your needs.
- **(9) Wheel bracket.** On these brackets the wheels are mounted to move the lift around.
- **(10) Wiring harness.** Through this harness the electric and hydraulic wires / hoses are routed.

# **Specifications**



Model	LM-3000MRP
Lifting capacity	3,000 kg
Lifting time	30S
Motor	220V 50Hz 1-Phase 2.2KW
Sound	< 70db

Specifications subject to change without notice.

#### Installation



## The lift has 3 packages;

- 1. LM-3000MRP Scissor Lift Frame and components
- 2. 208-240V AC Hydraulic Power-unit
- 3. Portable Wheel kit

# 1. LM-3000MRP Scissor Lift frame and components:







Box 1 contains:

- **1x Scissor Lift Frame**
- 4x Rubber lift pad
- 1x Hydraulic Hose & Protection sleeve
- 4x Approach ramps
- 1x Manual

# 2. 208-240V AC Hydraulic Power-unit





Box 2 contains: 1x 208-240V AC Hydraulic Power-unit 1x powercable and plug 2x grommet

#### 3. Portable Wheel Kit



Box 3 contains:
1x Handle with wheels
2x Seperate wheels
1x Adapter

Prepare the hydraulic power-unit

Locate the power-cable by opening the door in front the of the power-unit.



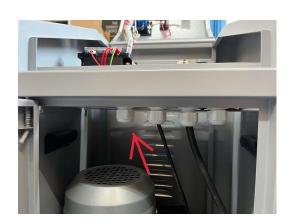


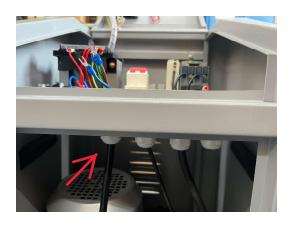
Prepare the grommet and install into the small hole on the side of the power-unit





Pull the cable through the upper side of the power-unit and pass the cable through the most left grommet





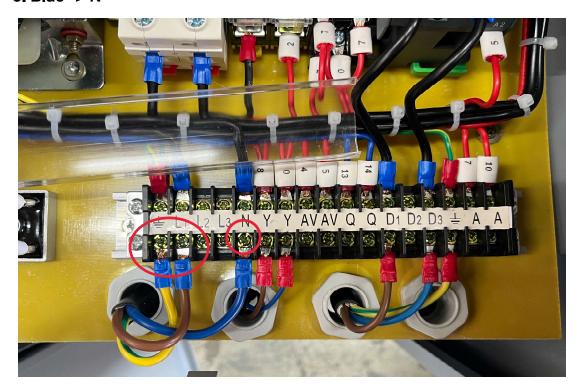


#### Connect the 3 cables:

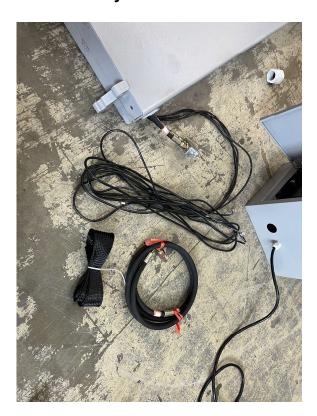
1. Yellow/green -> to Earth/ground



- 2. Brown -> L1
- 3. Blue -> N



## Locate the hydraulic connection block and electrical wires on the scissor lift frame



Pass the hyraulic hose and electrical cables through the protectionsleeve. Note: The straight side of the hydraulic hose routes to the lift.



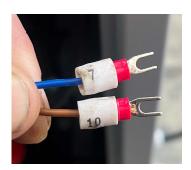
Prepare the big grommet and run all lines through it.



Run the cables trough the big hole next tot the power-cable and mount the big grommet.



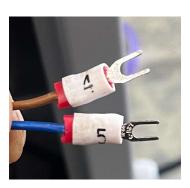
There are 3 electrical cable sets which have 2 connectors per cable (6 connectors in total). All connectors are marked with numbers



Blue 7 Brown 10



Blue 14 Brown 13

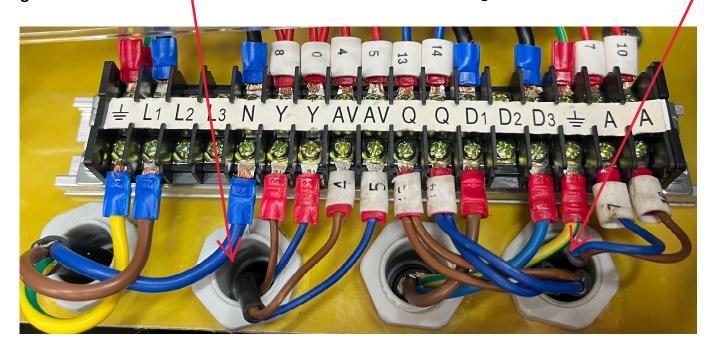


Blue 5 Brown 4

Connect all wires to the numbers same as the picture below.

Run the connectors 4+5 through the second grommet from the left.

Run connectors 7+10 & 13+14 through the most right grommet.



## Prepare the hydraulic hose

Locate the hydraulic connector at the power-unit. Check if the connector is tight.

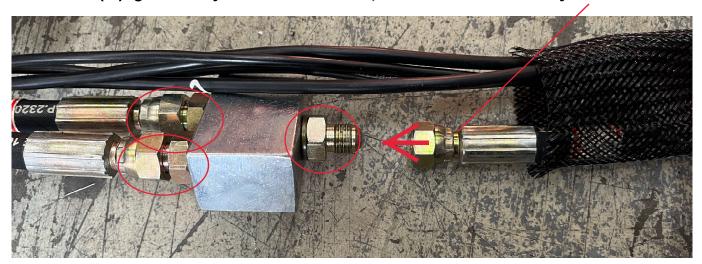




**Connect the hydraulic hose** 



Check and (re)tighten all hydraulic connections, after that connect the hydraulic hose



Pull the sleeve completely over the hose and wires and tighten with a zip-tie



Fill the hydraulic reservoir with hydraulic oil untill MAX is reached. (+- 6 liter)





Make sure the main switch is OFF, connect the power-unit to a power source and turn the main switch to ON.







You can now do a test run. Please be aware, that the lift will lower very, very slowly when there is no load / weight on the lift.



- 1. Press the UP button untill the lift is all the way up
- 2. Pres the DOWN button. The lift will unlock the locks and then go down. Note: If you are not all the way up, lift will first go up until it unlocks the safety locks.
- 3. When the lift reached a certain point, you have to release the DOWN button and contiue lowering by the DOWN II button. (It will start beeping, that is the foot protection)
- 4. when the lift is all the way down again, check the oil level and fill if necessary.

## Installing the approach ramps

While you have raised the lift for the first test, it is a good time to install the approach ramps.



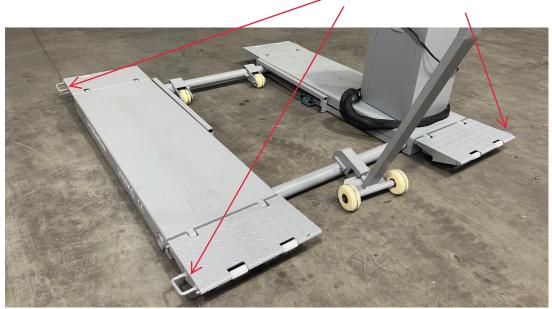
1. Remove the circlip on one side of the axle and remove the axle



2. Allign the approach ramp with the lift, place the axle and reassemble the circlip.



Make sure the handles are facing outwards!



#### **Adjust the lowering speed**

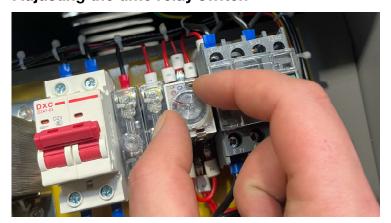
To adjust the lowering speed, locate the HEX bolt at the power-unit, see picture below



Loosen the nut and use a hex key to change the setting. Clockwise is slower, anti-clock wise is faster.

Please note that when you are adjusting the lift to go down faster, without any weight on it, it will go down **very fast** with weight (a vehicle) on the lift! You have to find a good setting in between where the lift will go down with a reasonable speed in both situations.

#### Adjusting the time relay switch



When pressing the DOWN button, the lift will first go up, then active the unlocking solenoids on the safetylocks and will start lowering. The time between raising, unlocking and lowering can be adjusted by turning the time relay switch clockwise (longer) and anti-clockwise (shorter)

When you press DOWN and the lift does not raise far enough and the safety locks will not unlock, then turn the time relay switch a bit clockwise. The lift will now raise further up before unlocking and lowering.

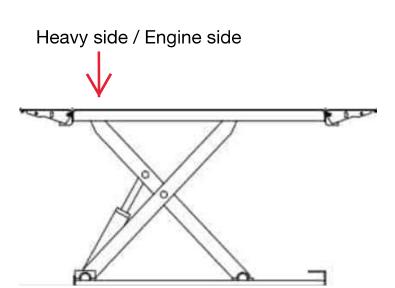
## 10. OPERATION - Lift and lower a vehicle step by step

1. Make sure the lift is down and there are no obstructions nearby.



2. Make Sure that the heaviest side of the vehicle (engine side) will be on the front side of the lift (where the cables are installed)





3. Drive your vehicle on the lift





4. Locate the lift points on your vehicle and place the rubber blocks on the liftplatform, right under the lift points. When the lift points of a vehicle are longer than the liftplatform, you can lock the ramps to extend the platform.





5. If all blocks are placed, press the UP button. The lift will now raise the vehicle.





6. Once the lift is at maximal height a limit switch will be engaged and the lift will stop lifting automatically.



7. When the desired lift height has been reached, press the LOCK button to lower the lift into the safety lock.







8. To Lower the Lift, press the DOWN button. The lift will automatically lift up for about 2 seconds, then release the safety locks and will start lowering.

At a certain height (+- 40cm) the lift will stop lowering, this is when the lower limit switch has been approached.

Press the DOWN II button to lower all the way to the ground. A beeping sound will appear, this is the CE footprotection feature.









2. Limit switch activated



3. DOWN II

9. Remove the lift blocks, unlock the ramps if you have locked them and drive the vehicle off the lift.



#### How to use the portable wheelkit

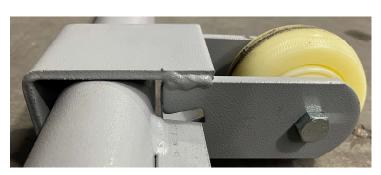
1. Lock all ramps



2. Press the UP button



3. Raise the lift until the wheel lines up with the cam and slide both wheels on the lift frame.





4. Pres the DOWN II button untill the lift frame is completely down and the wheels are lifting up the lift frame.





5. Place the adapter on the lift frame, and use the handle to lift the lift frame.







This lift is portable and doesn't require being fastened to the floor. If you still wish to secure it, ensure that the floor is level, clean, and made of concrete.

#### Step 6. Load test.

Fill with approximately 6 liters of hydraulic oil (VG32). Raise the lift to the maximum height – if unable, add more oil. The load should not exceed 3000 kg.

#### 3.3 Details to check after installation.

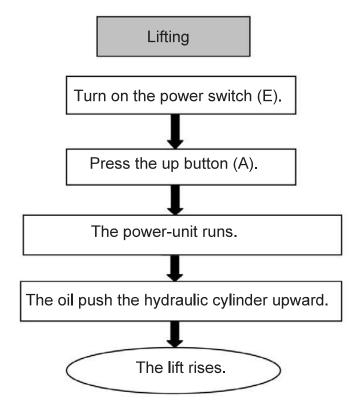
	Points to check	Υ	N
1	Are both platforms at the same height?		
2	Are the hoses properly connected?		
3	Is the electrical connection corre	ect?	
4	Is there any leakage from the valves on the pump?		
5	Is the lift tested without load to release any air in the system?		

#### 4. User instructions

#### 4.1 Precautions

- 4.1.1 Check all hose connections the lift can only operate correctly when everything is undamaged, safe and secure.
- 4.1.2 If the safety locks are not functioning properly, do not use the lift.
- 4.1.3 Do not lift a vehicle with an uneven weight distribution on the platforms. Pay attention especially to front-wheel-drive cars it's easy to lift too far back and tip the car forward! The heaviest part of the car (the engine) should be positioned over the moving side of the lift.
- 4.1.4 Do not stay close to the lift while it's being raised or lowered.
- 4.1.5 When the lift is raised to the working position, turn off the main power to prevent unauthorized lowering.
- 4.1.6 Ensure that the safety barriers are in the locked position before working under the vehicle.

#### 4.3 Flowchart for operation



#### 4.4 Usage

#### Lifting the lift

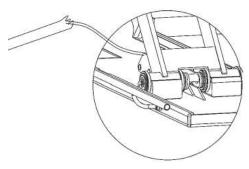
- 1. Ensure you have read and understood how to use the lift.
- 2. Drive and position the car in the center of the platforms.
- 3. Place the four rubber pads under the car's jack points.
- 4. Press the up button (Up). Verify that the car is lifting evenly and maintaining its position on the lift.
- 5. When the lift is raised to the working position, turn off the main power and start your work with the vehicle. Ensure the barriers are in the locked position.

#### Lowering the lift

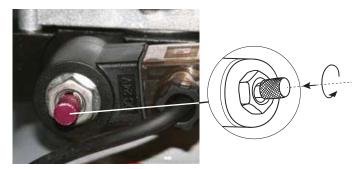
- 1. Turn on the main power.
- 2. Press the down button (Down). The lift rises about 5 cm to release the safety barriers (check that the compressor is connected and running), then it lowers.
- 3. Drive the car off the lift.

#### 4.5 Emergency lowering of the lift

If the barriers haven't engaged: Lift them up using a wire and secure them in the raised position.



Open the valve by pushing and turning counterclockwise. The valve opens, and the lift lowers. Close it by pushing and turning clockwise.



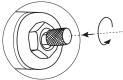
If the barriers have engaged:

Connect a manual pump (accessory) instead of the hydraulic unit. Unscrew the plug using a 6 mm hex key. Connect the pump and raise the lift so that the barriers can be released.



Lift up the barriers with a steel wire and secure them in the raised position.

Open the valve by pushing and turning counterclockwise. The valve opens, and the lift lowers.



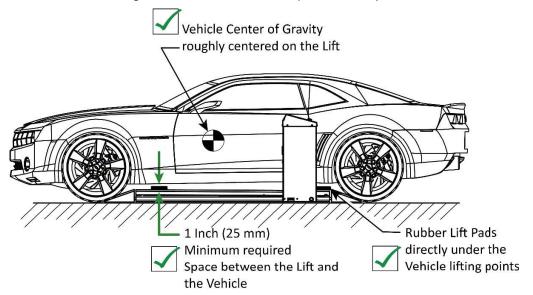
# 5. Troubleshooting

Important! If you're unable to resolve the issue on your own, do not hesitate to contact our workshop at phone number +31 627365781 or email info@liftmotive.com. It would be most helpful if you could email a photo or video of the problem, as it will make it easier to address the issue and save time for everyone.

Problem	Cause	Solution
	The electrical connection has come loose	Check and tighten the screws
The engine does not run	The motor has burned	Replace the motor
and the lifts do not raise	The limit switch is broken or faults in electrical connections	Repair and check connections, replace the limit switch
	The engine goes is rotating in the the wrong direction	Check the electrical connection
	The gear pump is broken	Replace
The engine is running but	The lowering valve is loose or clogged	Adjust and/or clean
the lift does not rise	The oil level is too low	Fill with oil
	Oil hose leaks or has come loose	Attach and tighten
	The soft-start valve has become loose or clogged.	Adjust and/or clean
	A hydraulic hose is leaking	Tighten or replace
The platforms go down slowly after	A hydraulic cylinder is leaking	Replace the gasket
they are raised	The check valve is leaking	Tighten or replace
	The overflow valve is leaking	Tighten or replace
	The solenoid valve is leaking	Tighten or replace
	The oil filter is clogged	Clean or replace
	The oil level is too low	Fill oil
The platforms are going up too slowly	The soft start valve is not set correctly	Tighten or replace
	Hydraulic oil is too hot (> 45°C)	Wait for cooldown
	The oil cylinder gasket is worn	Replace
	The lowering valve is tight	Clean or replace
The platforms are	Hydraulic oil is dirty	Change the hydraulic oil
going	The check valve is tight	Clean or replace
down too slowly	Oil hose that is pinched	Replace the hose

#### **MARNING**

You must use the Vehicle manufacturer's recommended Lifting Points. If you fail to do so, the Vehicle may become unstable and fall off the Pads and/or the Lift which could damage the Vehicle, the Lift or injure or kill anyone under the Vehicle.



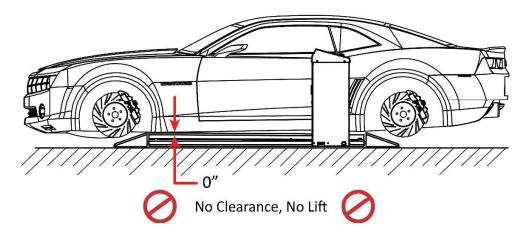
#### **MARNING**

**Before** raising a Vehicle, verify there is at least 25mm of clearance between the Lift Pads and the Vehicle. The Lift cannot raise a full load from a completely flat starting position, and attempting to lift in this manner will damage the Lift and could injure persons nearby.

#### **MARNING**

**NEVER** lower a vehicle all the way to the floor with the wheels removed. **Failure to comply with these instructions will void the product warranty**. Manufacturer will assume no liability for loss or damage of any kind, expressed or implied resulting from improper installation or use of this product.

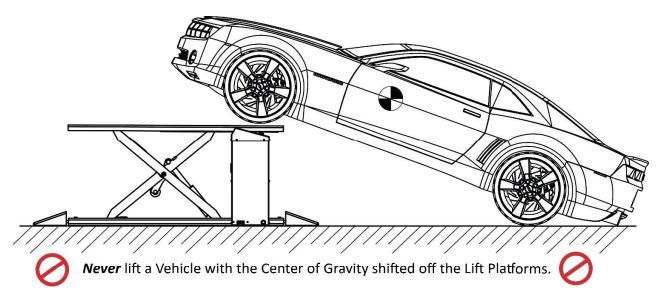
Refer to the **Troubleshooting Section** for further information.



Walk completely around the Vehicle and make sure there are no obstructions or any other issues that will interfere with the raising of the Lift and the Vehicle. Pay careful attention to overhead clearances. If there are any obstructions, remove them before raising the Vehicle.

**MARNING** 

**Never** lift a Vehicle with the center of gravity shifted off the Lift Platforms.



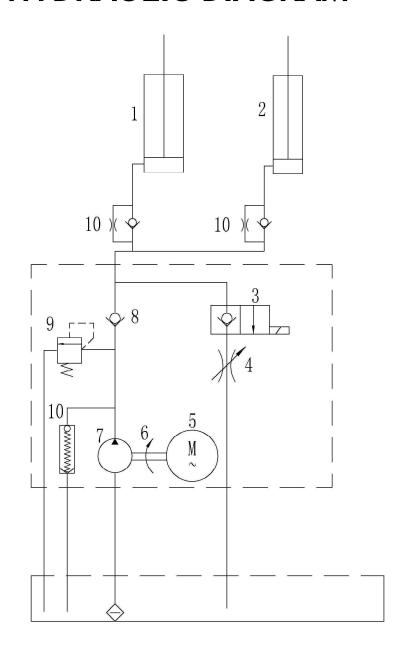
**⚠ DANGER** 

Do not raise the Lift further until you are certain the Vehicle on the Lift is both stable and balanced. If the Vehicle is not stable and balanced, it could fall, which could damage the Vehicle, damage the Lift, or injure or kill anyone under the Vehicle.

**MARNING** 

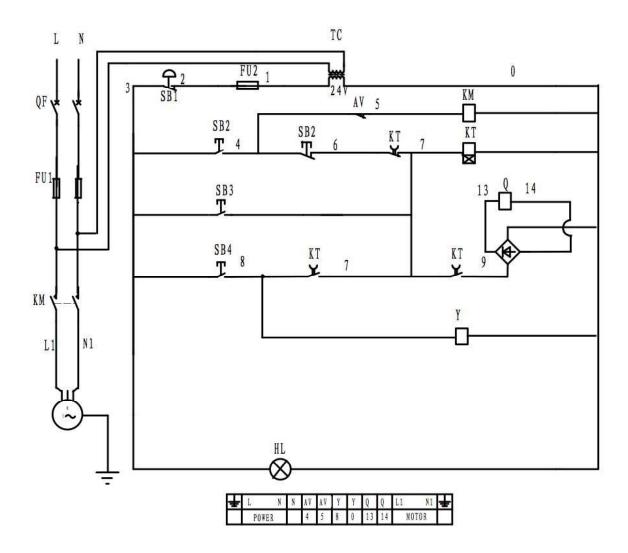
Always allow a minimum of two-seconds delay between motor starts. Failure to comply may cause switch and/or Motor burnout. This could cause serious damage to the equipment and/or personal property.

# **HYDRAULIC DIAGRAM**



1. MAIN CYLINDER	7. GEAR PUMP
2. ASSISTANT CYLINDER	8.ONE WAY VALVE
3. ELECTRIC RELEASE VALVE	9. OVER FLOWING VALVE
4. LOWERING THROTTLE VALVE	10. ANTI-SURGE VALVE
5. MOTOR	11. CUSHION VALVE
6. COUPING	

# 5. Connection diagram single-phase 230 volts.



SB1 Emergency stop

SB2 Up

SB3 Down

SB4 Locks (Locking) KM AC Contactor KT

Timer Relay

Off Limit Switch HL Indicator Light QF Main

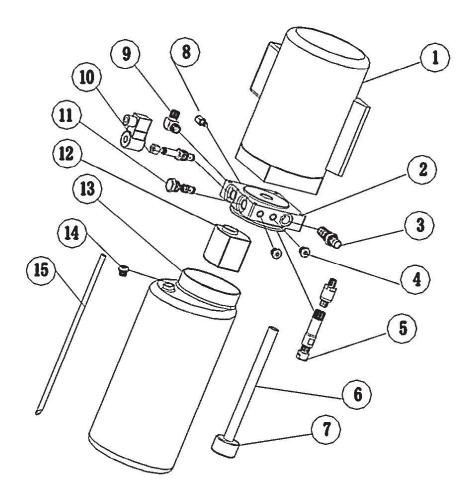
Power Switch FU1 Fuse 1

FU2 Fuse 2

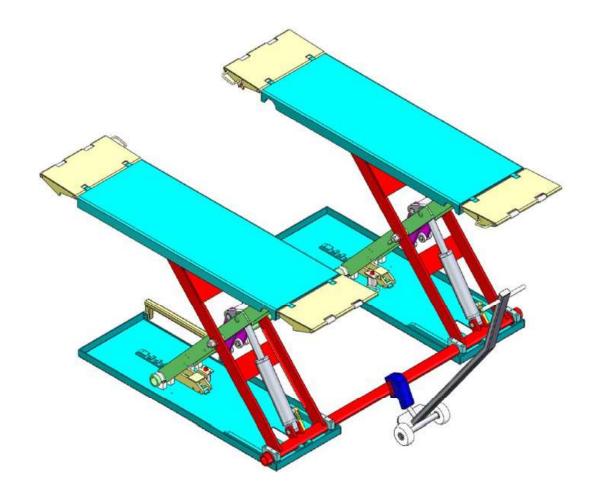
TC Transformer

Q Locking Magnet Y Lowering Valve

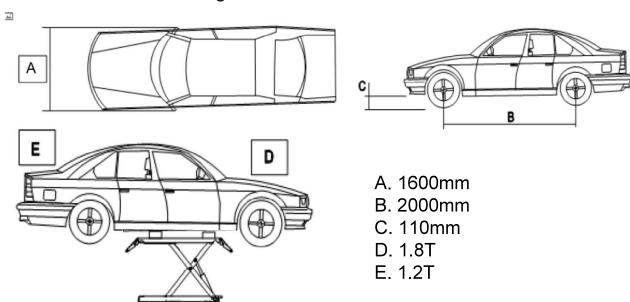
# 6. Exploded view of the hydraulic power-unit



S/N	DESCRIPTION	QTY
1	Motor	1
2	Hydraulic block	1
3	Overflow valve	1
4	Coupling	2
5	Soft start valve	1
6	Suction pipe	1
7	Oil filter Pressure	1
8	reduction valve Oil	1
9	hose inlet	1
10	Solenoid valve	1
11	Check valve	1
12	Gear pump	1
13	Oil tank	1
14	Oil tank cap	1
15	Return oil hose	1



# 8. Max allowed Size and weight distribution of a vehicle

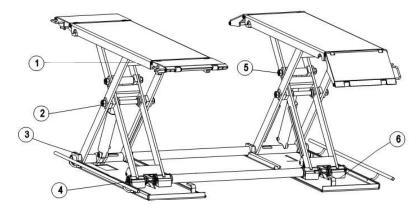


#### **Maintenance**

Easy and low cost routine maintenance can ensure long life and safety. Here are the requirements for routine maintenance. You may choose the frequency of routine maintenance yourself depending on your lift's working conditions and time.

#### THE FOLLOWING PARTS NEED TO BE LUBRICATED

S/N	Description
1	Small idler wheel
2	Middle bush
3	U-shape block
4	Lower bush
5	Cylinder bush
6	Slider





#### 6.1. Daily checks

Daily checking of the safety lock system is very important – the discovery of device failure before action could save your time and prevent you from great loss, injury or casualty.

- ·Check the oil hose connections and whether it leaks or not.
- ·Check the electrical system.
- ·Check if safety teeth and safety block are damaged.

#### 6.2. Weekly checks

- ·Check the flexibility of moving parts.
- ·Check the working conditions safety parts.
- ·Check the amount of oil left in the oil tank. .
- ·Check the stud bolts for tightness.

#### 6.3. Monthly checks

- · Check the stud bolts for tightness.
- $\cdot \text{Check the tightness of the hydraulic system}. \\$

#### 6.4. Yearly checks

- ·Empty the oil tank, clean and replace
- ·Replace the oil filter.

If users strictly follow the above maintenance requirements, the lift will keep in a good working condition.



#### Safety review pursuant to UVV type

Safety inspection before commissioning/ regular checks/ extraordinary (Mark off those that do not apply)

Inspection	Good shape	defective	Re-inspection	Notes
Warning labels/ signs				
Name plate/ ID				
Limit switch function		12		
Condition of rubber plates				
Function of carrier arm locks				
Supporting structure (cracks etc.)				
Function of safety latches				
All screws tight				
Condition of steel cables				
Condition of covers				
Condition of chain				
Condition of cable pulleys				
Condition of hydraulic lines				
Fluid level of hydraulic unit				
Hydraulic system seals				
Condition of the piston rod				
Condition of electronics				
Function test of the lift				
Foundation condition (cracks)				
Lift Slides/guides in the lift				
column				
Other				
(Check the appropriate box, if re-inspe	ction is nece	ssary mark that b	ox as well!)	

Inspected on:
Inspection result:
Commissioning/ use possible. Resolve issues by
Commissioning/ use prohibited. Re-inspection neccesary.
No defects. Commissioning/ use possible.
Signature owner/ operator:
Signature inspector:

# **Inspection findings**

Regular/ extraordinary inspection

On the date ofthis lift was put through a regular/extraordinary and thorough inspection. During this inspection these issues were/were not found.			
Scope of the audit:			
Outstanding partial inspection:			
The use of this equipment is autinspected.	horized and the machine and	all features have been	
Location/ Date		Inspectors signature	
Operator or agent			
Taken notes of the defects			
Defect corrected	Date	Signature	
Verification	Date	Signature	
On the date of this lift was put through re-inspection. During this inspection these issues were/ were not found.			
The use of this equipment is autinspected.	horized and the machine and	all features have been	
Location/ Date		Inspectors signature	