Portable Car Lift

User Manual

Read Carefully Before Use
Keep for Future Reference



Orion Motor Tech

UM-LHJ-0001-V1



How did we get our start?

Orion Motor Tech began with a passion for cars. We started out by maintaining family cars in our home garage but quickly found that affordable quality tools are hard to come by. That's why we made it our mission to put durable tools in the hands of do-it-yourself repairmen—so you can get the job done right.

What makes our products unique?

We have a wide inventory of quality automotive tools and parts, covering almost all makes and models. As a professional manufacturer, we are driven to make top-quality products affordable for both professional and amateur mechanics.

Why do we love what we do?

We're still in love with cars—just like we were back in that old family garage. We hope to pass that passion on to all our customers, and we still believe in our old motto: You don't need more cars in your life. You need more life in your car.

@OrionMotorTech

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Disclaimer

Read this disclaimer completely and carefully before proceeding with the rest of the manual content.

1. **Product Modifications**

   Any modifications or alterations to Orion Motor Tech (OMT) products void any warranties and may result in damage or injury. OMT shall not be liable for any damages resulting from such modifications or alterations.

2. **Compliance with Laws**

   Customers shall be liable for ensuring that the use of OMT products complies with all applicable laws and regulations in their respective jurisdictions. OMT shall not be responsible for any violations of laws or regulations resulting from the use of OMT products.

3. **Correct Use**

   Always use OMT products only as directed in the accompanying manuals. Failure to follow instructions may result in injury or damage.

   Always ensure the assembly, installation, operation, maintenance, or repair of OMT products is carried out by a competent person.

   Regular maintenance should be performed throughout the lifecycle of OMT products. You are responsible for ensuring the products operate as intended.

   Always wear appropriate protective gear.

4. **Third-Party Products**

   OMT shall not be liable for any damages or losses resulting from the use of third-party products in conjunction with OMT products. Customers shall refer to the third-party's guidelines and/or warranties (if any) for any third-party products used.

5. **Limitation of Liability**

   OMT shall not be liable for any direct, indirect, punitive, incidental, special, or consequential damages to property or life, whatsoever arising out of or connected with the use or misuse of OMT products. In no event shall OMT's liability exceed the value of the products sold.

6. **Warranty**

   Refer to the sales page for warranty information.

This disclaimer states the entire obligation of OMT with respect to OMT products. If any part of this disclaimer is determined to be void, invalid, unenforceable, or illegal, including but not limited to the warranty disclaimers, liability disclaimers, and liability limitations set forth above, the invalid or unenforceable provision will be deemed superseded by a valid and enforceable provision that most closely matches the intent of the original provision and the remainder of the agreement shall remain in full force and effect.

Safety Information

Danger

- The instructions provided here are for general information only. **ALWAYS** perform all repairs in full compliance with your vehicle's service manual. After completing any repair, test your vehicle in your workshop at a low speed before resuming regular use. Failure to do so may result in serious property damage and severe personal injury.
- **DO NOT** allow use by children, individuals with mental or physical conditions that may impair safe operation, or persons unfamiliar with this product and its compatible air conditioning, oil, and transmission systems.
- Children **MUST NOT** play with the lift.
- Keep the power unit and its cord out of the reach of children under 8 years old.
- **NEVER** leave the lift unattended when it is connected to a power supply.
- If the supply cord is damaged, the power unit should be scrapped or have the cord replaced by the manufacturer, its service agent, or similarly qualified persons to avoid hazards.
- **ALWAYS** wear appropriate personal protective equipment (PPE) during use. Required PPE may include eye, respiratory, and hand protection, depending on your application or work environment. Respiratory protection must be capable of filtering all particles generated by your work, even when working outdoors. A dust mask or respirator is highly recommended. Anyone allowed nearby during use should wear equivalent PPE.
- **ALWAYS** read and understand your vehicle's specific safety warnings and instructions before using this kit. Use the correct fluids, pressures, adapters, and other necessary components for your vehicle. Ensure the parking brake is engaged before beginning any work. Use a jack and jack stands that can fully support the necessary weight. Never touch any heated surface with exposed skin.
- **DO NOT** overreach. Keep proper footing and balance at all times.
- **DO NOT** use damaged or crushed hoses. High-pressure leaks can penetrate the skin and cause severe injury. If injured, seek medical attention immediately.
- **DO NOT** pull the pendant control or power unit cable when moving the AC power unit.
- Maintain this product. Check for misalignment, binding, wear, or other damage before use. If any damage is detected, repair or replace the faulty components before further use. In a large shop, mark such a tool "**DO NOT USE**" until it has been repaired. **ONLY** replace components with identical parts.
- **NEVER** use the lift to raise vehicles exceeding the specified weight capacity.
- Avoid using extension cords, as they may overheat.
- **NEVER** remain in the vehicle during the lifting process.
- **NEVER** work under a lifted vehicle unless it is properly supported. **ALWAYS** use additional support.
- Before approaching a raised vehicle, ensure that all four locking teeth are securely engaged.

Warning

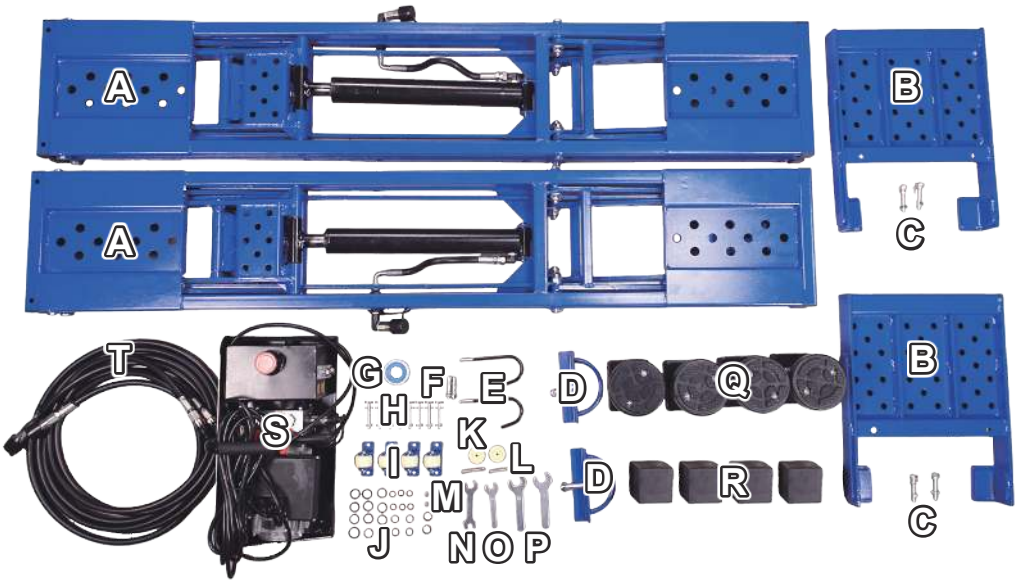
- **DO NOT** use this product if you are tired or under the influence of drugs, alcohol, or strong medication.
- For best results, keep the kit clean and dry. Remove any fluid, oil, or grease before and after work, particularly from the handle and fittings.
- **DO NOT** use excessive pressure on this product and do not force it or its attachments.
- **ENSURE** the vehicle is secure when supported by a jack or lift.
- Dress appropriately for automotive servicing. Do not wear loose clothing or jewelry. Keep hair, clothing, gloves, hoses, and tools away from moving parts during use.
- In case of an accident or injury, keep a first aid kit and a communication device (e.g., a phone) readily available. Be familiar with the location of nearby emergency medical facilities.
- Automotive repair is an inherently dangerous activity. This manual and the separate vehicle service manual cannot cover all possible situations that may arise. **ALWAYS** exercise discretion and good judgement. Seek training if needed.
- **DO NOT** remove the cap of the power unit while the lift is operating.
- Use the hydraulic power unit at room temperature. **DO NOT** operate above 150 °F .
- Use this lift **ONLY** on solid, level ground capable of supporting the vehicle's weight.

Specifications

Model	5000 lb Lift	7000 lb Lift
Power Supply	110–120 V AC, 60 Hz	
Power	0.75 kW	
Tank	1.0 gal/3.8 L	
Hydraulic Oil (Not Included)	46#	
Load Capacity	5000 lb	7000 lb
Maximum Lifting Height*	1.97 ft	2.13 ft
Dimensions	80.7 × 22.4 × 15.4 in	80.7 × 22.4 × 16.9 in
Weight	482 lb	488 lb

*The specified lifting height includes the height of the blocks.

Parts List



No.	Item	Qty.
A	Frame Assemblies	2
B	Extension Plates	2
C	Bolts, Washers, & Nuts M10	4
D	Handles with Bolts, Washers, & Nuts M14	2
E	Hooks	2
F	Expansion Bolts M6	2
G	Tape	1
H	Bolts, Washers, & Nuts M8	8
I	Rollers	4
J	O-Rings	24

No.	Item	Qty.
K	Replaceable Rollers	2
L	Bolts and Nuts M5	2
M	Filter Rings	2
N	Double-End Wrench	1
O	Wrench 14 mm	1
P	Wrenches 22 mm	2
Q	Round Rubber Blocks	4
R	Square Rubber Blocks	4
S	Hydraulic Power Unit with Pendant Control	1
T	Oil Hoses	2

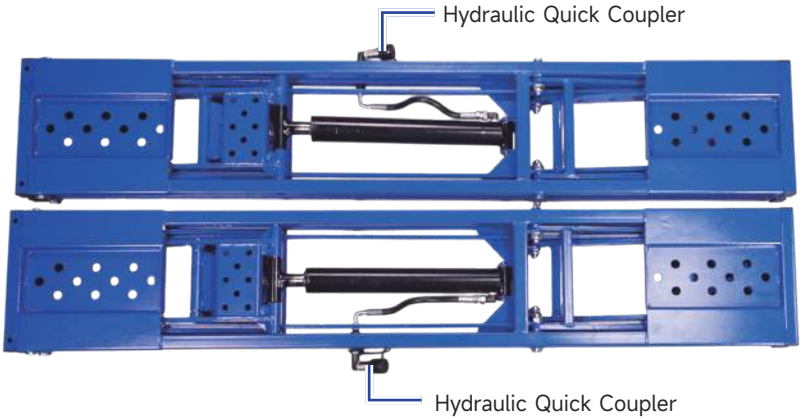
Assembly

Warning

- **ALWAYS** wear appropriate personal protective equipment (PPE) during use. Required PPE may include eye, respiratory, and hand protection, depending on your application or work environment.
- For safety, at least two people are required for this assembly.

1. Unpack the frame assemblies (A) from the wooden crate.

   Ensure that the hydraulic quick couplers are facing outward.



2. Turn the frame assemblies on their sides.

Note
Ensure that the side with the hydraulic quick couplers is positioned upward.

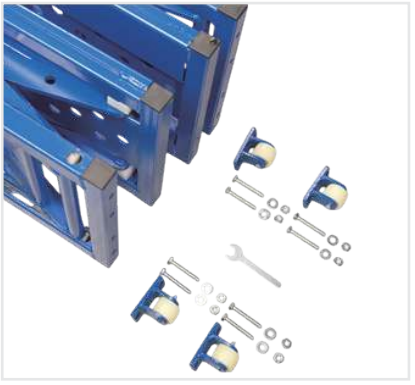


3. Remove the bolts from the handles (D). Attach the handles to the frame assemblies, and tighten with two 22 mm wrenches (P).





4. Install the rollers (I) on the opposite side of the handles using M8 bolts, washers, and nuts (H), then tighten with the 14 mm wrench (O).





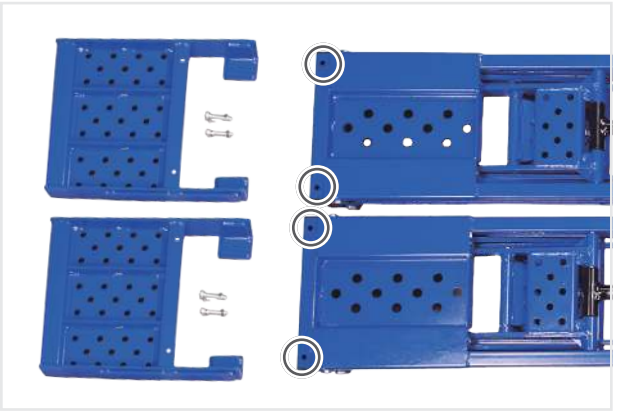


5. Lay the frame assemblies back in the flat position.

   Ensure that the hydraulic quick couplers are facing outward.



6. If the vehicle is longer than 6.6 ft (such as vans or pickup trucks), install the extension plates.

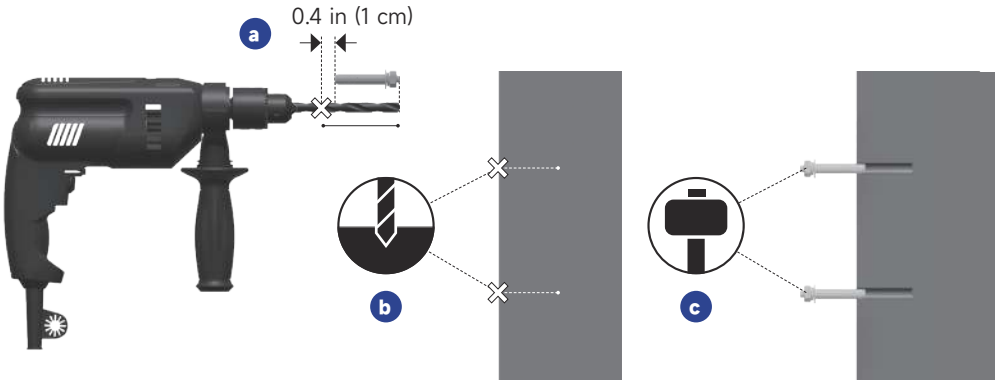


7. (Optional) Install the hooks on the wall.

   a. Install a 5/16 ″ (8 mm) drill bit onto the electric drill, then mark a spot on the drill bit about 0.4 in (1 cm) longer than the length of the expansion bolt sleeve.

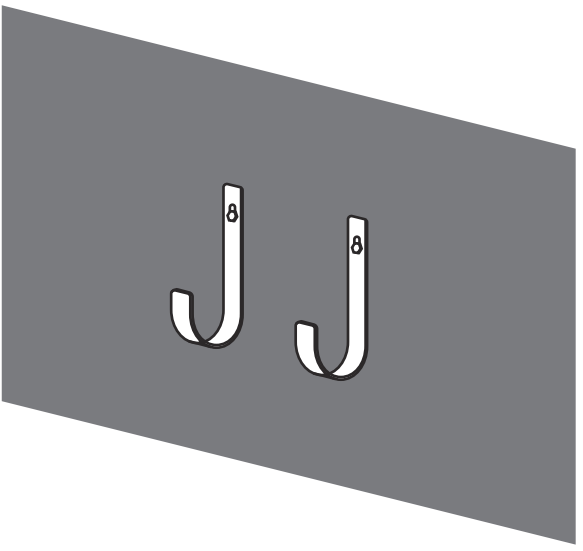
   b. Drill two holes at the needed locations. Ensure the drill depth reaches the mark on the bit. Clean out the holes with a fine brush to remove any dust and debris.

   c. Hammer the expansion anchors into the holes until the sleeves of the expansion anchors are entirely embedded in the wall.



   d. Remove all nuts and washers from the expansion bolts.

   e. Secure the hooks onto the wall with the washers and nuts.



Operation

Adding the Hydraulic Oil

⚠ Warning

- Use **ONLY** AW46 hydraulic oil (not included); other oils may cause malfunction or damage.
- **DO NOT** connect the hydraulic power unit to the power supply until the filling process has been fully completed.
- This step requires two people to complete.

1. Remove the cap from the hydraulic power unit (S).



2. Place a funnel (not included) at the oil fill port and carefully pour in the hydraulic oil.

Note

The filling capacity is about 1.0 gal (3.8 L). **DO NOT** fill hydraulic oil above the blue level line.





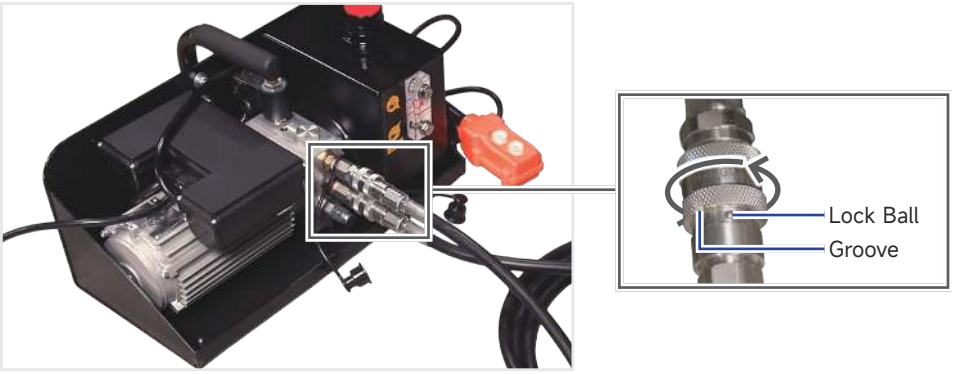
3. Reinstall the cap.



4. Remove the protective covers from the fittings on the power unit and the oil hoses.



5. Connect the oil hose to the fitting and rotate the sleeve to lock, ensuring the groove and lock ball are misaligned.



Note
You can wrap tape around the joint to ensure a tight seal.

6. Remove the protective cover from the other end of the oil hoses, and place a container (not included) under the hose fittings.



7. Connect the power unit to the power supply.
8. Hold ⇧ on the pendant control while holding the pointed end of a wrench against the hose fitting.

   Continue until the oil flows smoothly without air bubbles. If the hydraulic oil level drops below the blue line, refill the hydraulic oil.





9. Remove the protective covers from the other ends of the oil hoses and connect them to the hydraulic quick couplers.
10. Rotate the sleeve to lock, ensuring the groove and lock ball are misaligned.





Note
You can wrap tape around the joint to ensure a tight seal.

Lifting the Vehicle

Warning

- **Before lifting, shut off the engine, engage the parking brake (or hand brake), and chock the remaining wheels.** Ensure the vehicle is stationary and the engine has cooled to room temperature before performing maintenance or adjustments.
- **ALWAYS** use the correct tools and personal protective equipment (PPE) before performing any operation. Be extremely careful with possible pinching points, moving parts, or parts that may suddenly spring out.
- **ALWAYS** ensure the vehicle is secure when it is supported by a jack or lift.
- For your safety, we recommend completing training before using the tool. Serious injury could happen due to a lack of training.
- **NEVER** work under a lifted vehicle unless it is properly supported. **ALWAYS** use additional support.
- **DO NOT** raise the lift without a load, otherwise it may not lower.
- **DO NOT** remove the vehicle's tires while lowering the lift to the ground.

1. Raise the lift to 8–12 in (200–300 mm) without load, cycle up and down until both sides are level.

   Warning

   - If both sides are not level, the vehicle may become unstable and fall from the lift platform, which could damage the vehicle, damage the lift, and endanger personal safety.
   - **DO NOT** raise the lift to the maximum height without load. If it is accidentally raised to the top, a load over 77 lb (35 kg) must be placed on the lift before it can be fully lowered.

2. Place the lift under the vehicle.

3. Place the rubber blocks (Q or R) in the grooves, aligning them with the center of the support seams.

   Warning

   Position each rubber block under the vehicle at the support points specified by the manufacturer, and ensure the hydraulic hoses are not crushed.



4. Hold ⇧ on the pendant control until the vehicle reaches the entrance of the slot.

   Carefully observe the vehicle's stability during lifting.

5. After the vehicle reaches the entrance of the slot, hold ⇩ according to the position of the locking teeth to ensure the lock teeth are stuck in the slot as shown before servicing your vehicle.



⚠ Warning

- Ensure that the locking teeth enter the slot. The device has 2 slots to achieve 2 safe locking heights.
- **NEVER** work under the vehicle without additional jack stands or mechanical supports.

6. After servicing, slightly raise the lift again, and then use a long wrench to push the lock block down and release the locking teeth.



7. Hold ⇩ on the pendant control until the lift is fully lowered.
8. Remove the lift and blocks from under the vehicle.

Maintenance

- Perform a thorough inspection of the product at least once a year.
- Check for smooth movement and secure connections before each use. Never use this tool if any part is found to be loose, bound, worn, or damaged. Tighten, lubricate, repair, or replace all such components before further use. Only use identical parts for replacement.
- Clean the components of this kit after each use. Do not use caustic chemicals or harsh abrasives.
- If the tool is not going to be used for an extended period, clean and lubricate it and store it in a cool, dry place inaccessible to children. If hooks are installed, the lift can be stored by hanging it on the wall.

Troubleshooting

Problems	Usual Solutions
The lift fails to raise the vehicle.	Ensure the solenoid unloading valve is in the closed state. If you can't turn it clockwise, it is closed. 
	Check whether the oil pump makes an operating sound. If there is no sound, contact a qualified technician for service.
	Ensure the oil hoses are not kinked or leaking.
	Ensure there is sufficient hydraulic oil in the tank.
	Ensure the power unit is properly connected to the power supply and the voltage is neither too low nor too high.
	Refer to step 8 of **Adding the Hydraulic Oil** on **Page 11** to bleed the oil hoses.
The lift fails to lower the vehicle.	Make sure the lift is not unloaded.
	Contact a qualified technician to check whether the hose fittings, valve, and other components are blocked by foreign matter. If so, clean them thoroughly and replace the supplied O-rings and filter rings
	Check whether the oil pump makes an operating sound. If there is no sound, contact a qualified technician for service.
	Contact a qualified technician to check whether the solenoid unloading valve is operating properly.
	Ensure that the locking teeth mechanism is fully released.
The pump has no pressure.	Contact a qualified service technician to repair the pump.
The pump cannot maintain pressure.	

Problems	Usual Solutions
The lift is stuck at the highest point and cannot be lowered when there is no load.	Place a heavy object on the lift and lower it.
The hydraulic oil is contaminated.	Disconnect power and lower the lift completely. Remove the cap and drain all the oil. Refill the tank using 46# hydraulic oil.
The lift generates abnormal noise during operation.	Apply grease to the specified lubrication points.
The lift slowly lowers without control.	Ensure the solenoid unloading valve is in the closed state. If you can't turn it clockwise, it is closed. 
	Ensure the locking teeth mechanism is locked.
Quick couplers become harder to connect.	The hydraulic system pressure builds up. To prevent this, after the frame reaches the ground, hold ⇩ on the pendant control for a few seconds to allow as much oil as possible to return to the tank.
	If pressure builds up excessively and quick couplers cannot be connected, contact a qualified service technician to repair the lift.
The lift raises unevenly on both sides.	With no load, raise the lift frame to 8–12 in (200–300 mm) and cycle it up and down several times until both sides are level. If the sides are still not level, bleed the pump station again and then repeat the procedure. If the problem persists, the flow divider valve may be blocked or damaged. Contact a qualified technician for cleaning or repair.

Disposal



Electrical products should not be disposed of with household products. In the EU and UK, according to the European Directive 2012/19/EU for the disposal of electrical and electronic equipment and its implementation in national laws, used electrical products must be collected separately and disposed of at the collection points provided for this purpose. Locations in Australia, Canada, and the United States may have similar regulations. Contact your local authorities or dealer for disposal and recycling advice.

We care about your experience!

We truly hope our product brings you joy and convenience.
If you have any questions or need assistance, please don't hesitate to reach out.
We're always happy to help!
Simply fill out the form below, take a photo of it (along with any relevant photos or videos if needed), and email it to us. Our service team will respond within 24 hours.

Platform

☐ Amazon ☐ eBay ☐ Walmart ☐ Wayfair ☐ Other: _____ (please specify)

Order Information

Order No.: _____

Product: _____

Purchase Date: _____

Your Name: _____

Email: _____

Subject of Inquiry

_____

Your satisfaction means everything to us. :)

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https://orionmotortech.com/

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