



Portable Hydraulic Lift – TMA-9H

User Manual

[Revision 1.0 February 2019]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You CAN be INJURED if you do not follow instructions or equipment damage may occur.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- Before Use** - If you are not familiar with the safe operation/handling of the equipment, or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well lit.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol or medication.
- This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors and vents.

General Equipment Use and Care

- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.

- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.

- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases or liquids etc.

- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

General Electrical Safety

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Wherever possible, use a residual current device (RCD).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

General Electrical Safety

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

General Service Information

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before making adjustments, changing accessories or performing repair or maintenance.
- Do NOT make adjustments while the equipment is running.
- Perform service related activities in suitable conditions, such as a workshop.
- Replace worn, damaged or missing warning/safety labels immediately.

Owner and/or Operator Responsibility

The owner and/or operator shall study the product instructions and retain them for future reference.

Operation

The owner and/or operator should understand the product, its operating characteristics, and safety operating instructions before operating the lift. Safety information should be emphasised and understood. If the operator is not fluent in English, the product and safety instructions should be read to and discussed with the operator in the operator's native language by the purchaser/owner or his designee, making sure that the operator comprehends their contents.

Maintenance

The lift should be maintained in accordance with the product instruction.

- When jack is not in use, lifting arm should be in full downward position.
- Always keep the jack clean and keep screws and bearings well-lubricated.
- Keep moving parts clean; lubricate moving parts every 3 months.

Inspection

- Visual inspection shall be made before each use of the jack by checking for any abnormal conditions such as cracked welds, leaks and damaged, loose, or missing parts.
- Other inspections shall be made per product operating instructions.
- The jack should be inspected immediately if the device is believed to have been subjected to an abnormal load or shock. It is recommended that this inspection be made by the manufacturer's or supplier's authorised repair facility.
- Owners and/or operators should be aware that repair of this equipment may require specialised knowledge and facilities. It is recommended that an annual inspection of the jack be made by a manufacturer's or supplier's authorised repair facility and that any defective parts, decals, or safety labels or signs be replaced with manufacturer's or supplier's specified parts.

Damaged Equipment

Any jack that appears to be damaged in any way, is found to be worn or operates abnormally **SHOULD BE REMOVED FROM SERVICE UNTIL REPAIRED**. It is recommended that necessary repairs be made by a manufacturer's or supplier's authorised repair facility if repairs are permitted by the manufacturer or supplier.

Alterations

Because of potential hazards associated with this type of equipment, no alterations shall be made to the product.

Attachments and Adaptors

Only attachments and/or adaptors supplied by the manufacturer should be used.

WARNING!

Study, understand and follow all instructions before operating this device.

Do not exceed rated capacity.

Use only on hard, level surfaces.

Centre load on lift platform.

Portable Hydraulic Lift – TMA-9H

Lift only those areas of the automotive vehicle specified by its manufacturer.

Immediately after lifting load, ensure lift mechanical load holding means is engaged

Before moving, lower the load to the lowest possible point.

Secure load with appropriate restraint device.

.Failure to heed these markings may result in personal injury and/or property damage.

Safety Messages

- Use this product is limited to lifting, lowering, transporting, and storing in the lowered position. Loads consisting of a single motor vehicle whose lift points are compatible with the platform. Incompatibility is evident when the loaded vehicle wobbles, appears unstable, and /or does not securely engaged the lift platform.
- Restraining an incompatible load will not make the load secure and may cause unexpected loss of load.
- Never work on, around or under a load that is not secured and stable.
- Keep operator's and bystander's head, hands and feet away from the jack's parts when raising and lowering.
- No alterations should be made to this product.
- Only attachments and/or adapters supplied by the manufacturer should be used.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc, replace them.

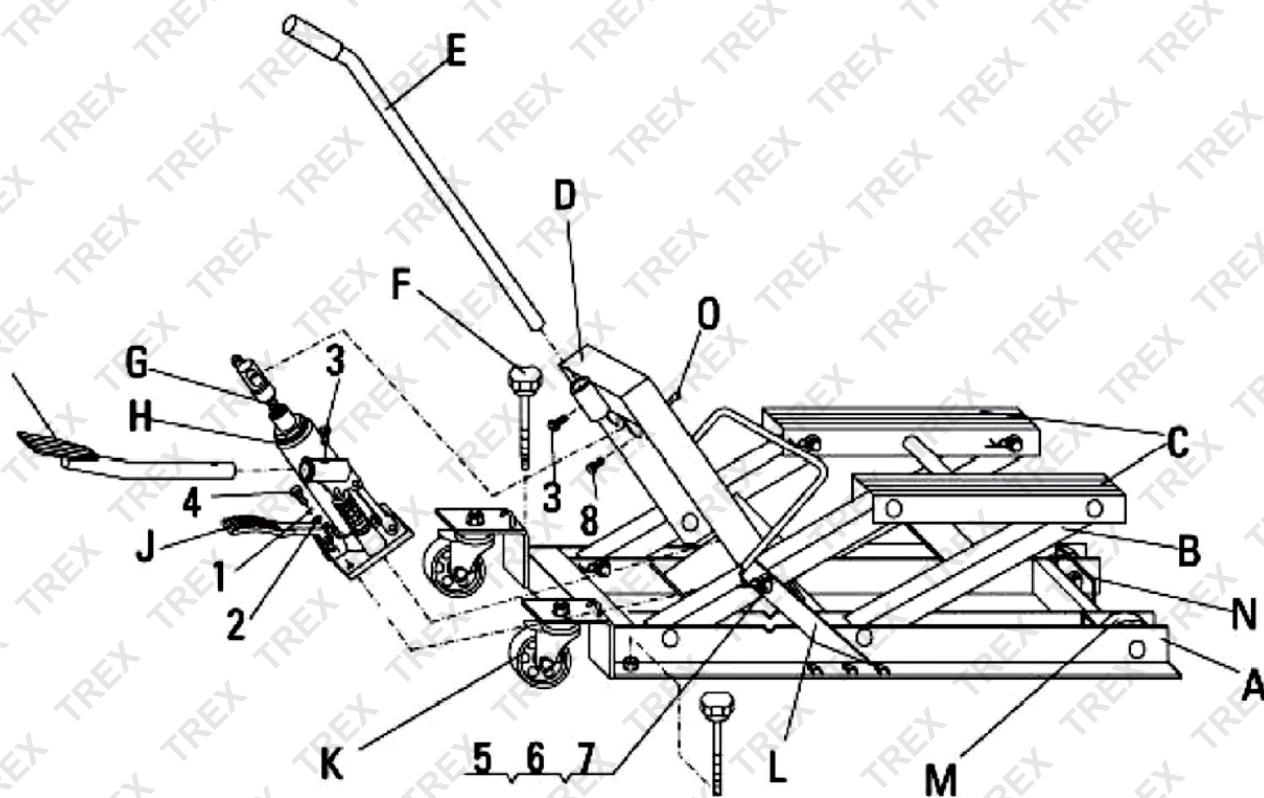
 <p>Flammable Material Hazard Flammable liquids, gases or substances etc may present. Avoid ignition sources and open flames. Danger of fire.</p>	 <p>Read User Manual Read and fully understand product safety warnings, operation, procedures etc before using the product.</p>	 <p>Use Hand Protection Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.</p>	 <p>WARNING EXHAUST FUMES Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>
 <p>Electrocution / Electrical Shock Hazard High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.</p>	 <p>Toxic Fumes / Dust Hazard Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.</p>	 <p>Explosive Material Hazard Combustible liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.</p>	 <p>Cutting / Amputation Hazard The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.</p>
 <p>Crush Hazard The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Single Operator Only The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.</p>	 <p>Use Face Protection Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.</p>	 <p>Use Foot Protection Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.</p>
 <p>Use Eye / Ear / Head Protection Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing and head hazards.</p>	 <p>Running Hazard Do not run on or near the product as doing so may present a fall hazard.</p>	 <p>Diving Hazard Do not dive into the product as doing so may present a neck / head injury hazard.</p>	 <p>Adult Supervision Required Always supervise children and other users of a product to prevent drowning or injury.</p>
 <p>Skin Penetration / Puncture Hazard The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.</p>	 <p>Hot Surface Hazard Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.</p>	 <p>Flying Debris Hazard Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.</p>	 <p>Moving Parts Hazard Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.</p>

 <p>Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>	 <p>Pull Hazard Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Slope / Fall Injury Hazard Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.</p>	 <p>"Slam Dunk" Warning Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.</p>
 <p>Electrocution / Electrical Shock Hazard - Outdoor High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.</p>	 <p>Electrocution / Electrical Shock Hazard - Disconnect High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.</p>	 <p>Power Line Electrocution Hazard High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.</p>	 <p>"Kick-Back" Hazard High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.</p>
 <p>Winch Operator Position Hazard Do NOT stand between winch and load. Do NOT use winch to move people.</p>	 <p>Winch Lift Hazard Do NOT LIFT load vertically. Use machine to PULL only.</p>	 <p>Cable Hazard Ensure that load bearing cable is not kinked or knotted.</p>	 <p>Winch Cable Hazard Ensure that there is a minimum number of cable coils on winching mechanism.</p>
 <p>Winch Hook Hazard Carry hook to load – do NOT throw or run.</p>	 <p>Flash / Blinding Hazard Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.</p>	 <p>Laser Hazard Laser may be in use – do NOT look directly at laser, or allow others to.</p>	

Table of Contents

Safety	2
Safety Symbols	5
Parts Identification	8
Assembly	9
Operation	9
Raising the Load	9
Lowering the Load.....	9
Securing the Load.....	10
Releasing the Load	10
Maintenance	11
Air Purging Instructions.....	11
Oil Level.....	11
Adding Oil	11
Replacing Oil.....	11
Lubrication	11
Rust Prevention	11
Troubleshooting	12
Specifications	12

Parts Identification



No.	Name	Qty.
A	Base	1
B	Link	2
C	Lift saddle	2
D	Connecting rod	1
E	Handle	1
F	Locking screw	2
G	Return spring	1
H	Hydraulic ram	1
I	Foot pedal assembly	1
J	Release pedal	1
K	Swivel caster	2
L	Safety lock	2
M	Front wheel assembly	2
N	Loops	1
O	Clip nut	1

No.	Name	Qty.
1	Washer 8	2
2	Spring washer 8	2
3	Bolt M8x20	2
4	Bolt M8x25	2
5	Locking Rod 15x80	2
6	Washer 16	2
7	Locking pin	2
8	Bolt M5x25	1

Assembly

1. Place hydraulic ram (H) onto the base (A) using 2 MBx25 hex bolts (4), 2 spring washers (2), 2 washers (1) and using bolt M5x25 (B) to fix the ram to the connecting rod (D), then tighten.
2. Insert foot pedal (I) to the hydraulic ram (H) and secure them together using a MBx30 bolt (3).
3. Place the safety lock operation rod (L) and insert to link (B) using 2 washers (6), 2 locking pins (7) and locking rod (5).
4. Insert handle (E) to the connecting rod (D) using bolt MBx30 (3).
5. Ensure that all connections are securely tightened.

Operation

Raising the Load

1. Place the jack on a hard level surface.
2. To avoid item from slipping during the raising operation, **ALWAYS** first determine the centre of the weight load.
3. Place the jack under the item so that the Lift Saddle is positioned under the centre of the weight load.
4. Pump the foot pedal until the lift saddle meets the load to be lifted: proceed to lock wheel casters. Always check to be sure that the saddle and the load are positioned correctly before raising the jack.
5. Use the foot pedal to raise the load: **ENSURE** that safety lock is secured in one of three stated lock positions once desired height has been reached.
6. Apply tie-down straps (see Securing the Load section below) once load has been raised to desired height. Thoroughly tighten the straps.
7. Stabilise loaded jack on a hard surface for maximum balance by adjusting locking screws.

Lowering the Load

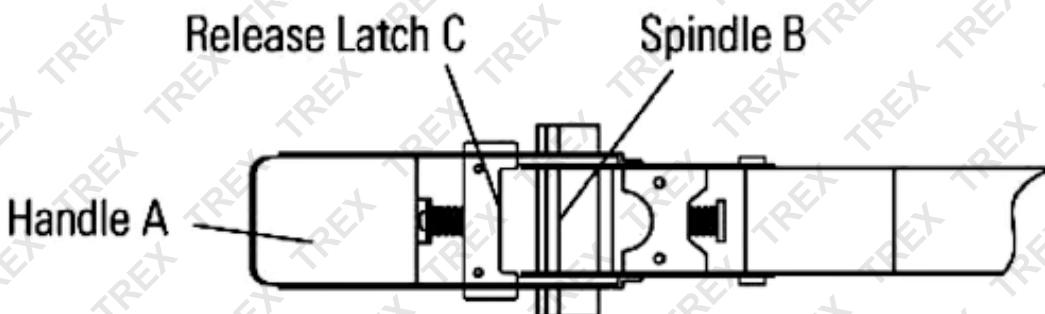
1. Raise the jack slightly and pull back on the Operation Rod, releasing the Safety Lock.
2. Fasten the Operation Rod to the connecting rod if you are lowering the load completely.
3. Press the Release Valve very gently to lower the Saddle and its load.



CAUTION! Tie Down Straps will become loose and load will be released upon lowering the load.

4. Remove the tie down straps after the load is secured.

Securing the Load



Top view "OPEN" Position

1. Connect strap hooks to loop (P) and place strap over load.
2. With the strap Handle (A) in the closed position, take long strap end and slip it through the slot insertion in Spindle (B). Pull strap back over spindle.
3. Tighten the strap by ratcheting the handle back and forth until the load is secure. If necessary, take up the excess slack by hand until the strap is tight.



CAUTION! To avoid damage to the load, DO NOT over-tighten.

4. To lock ratchet, ALWAYS leave the handle in the closed position.

Releasing the Load



"CLOSED" Position

1. Hold the ratchet in one hand and with the other hand pull back on Release Latch (C) that is located on Handle (A).
2. While holding Release Latch (C) back, open Handle (A) fully past the locking gears until Latch (C) locks in a completely open position or until the load releases.



CAUTION! The load will release at this point.

3. To loosen or remove strap, pull up on ratchet and slide strap out of Spindle (B).

For Tie Down Strap

1. DO NOT use tie down strap for towing vehicles or to hold or suspend human weight.
2. DO NOT use extension bar lever, pliers or any tools to operate as a handle. Use hand power only.
3. Protect strap webbing from sharp edges, heat and acid. Replace strap webbing if it is cut, worn or damaged. Inspect strap webbing, hooks and hardware before each use.

Maintenance



IMPORTANT: Before performing any maintenance of the bottle jack **ALWAYS detach from the frame and place on a level surface.**

Air Purging Instructions

With the ram fully retracted, locate and remove the oil filler plug. Insert the foot pedal into the sleeve of the Hydraulic Ram, then pump 6 to 8 strokes. This will help release any pressurised air which may be trapped in the reservoir. Ensure that the oil level is just below the oil filler plug hole. Reinstall the oil filler plug. Sometimes during shipment and handling, air may become trapped in the hydraulic system, causing poor or no lifting.

Oil Level



IMPORTANT: When adding or replacing oil, **ALWAYS use a good grade of hydraulic jack oil. **NEVER** use brake fluid, alcohol, glycerine, detergent motor oil or dirty oil of any kind. Improper oil usage will cause serious internal damage to the jack.**

Adding Oil

With ram fully lowered and jack on level ground, remove oil filler plug, add oil if level is more than 1/2" below hole.

Replacing Oil

Oil should be replaced at least once every year. To drain oil, remove oil filler plug and release valve. **BE VERY CAREFUL** to not allow dirt or any foreign matter into the system.

Lubrication

Put grease on the fitting on base and lubricate lifting arm spindle with oil when needed.

Rust Prevention

With an oily cloth, clean and wipe the piston ram and pump piston every 3 months or when signs of rust or corrosion appears. When not in use, always leave the saddle and pump piston in the downward position.

Troubleshooting

TROUBLE	CAUSE	REMEDY
Jack will not lower completely.	<ul style="list-style-type: none"> ▪ Air in hydraulic system. ▪ Release valve stuck. 	<ul style="list-style-type: none"> ▪ Purge air from hydraulic system. ▪ Transfer weight load and clean valve.
Jack will not hold weight	Release valve in open position.	Close release valve tightly
Jack will not lift to full height.	<ul style="list-style-type: none"> ▪ Oil level low. ▪ Air in hydraulic system. 	<ul style="list-style-type: none"> ▪ Fill to recommended level. ▪ Purge air from hydraulic system.
Weak lifting.	<ul style="list-style-type: none"> ▪ Air in hydraulic system. ▪ Dirty oil. ▪ Release valve not completely closed. 	<ul style="list-style-type: none"> ▪ Purge air from hydraulic system. ▪ Change oil. Use SAE SW. ▪ Close release valve tightly.
Jack will not lift load.	<ul style="list-style-type: none"> ▪ Excessive weight. ▪ Release valve in open position. ▪ Oil level low. 	<ul style="list-style-type: none"> ▪ Decrease weight or change to higher capacity jack. ▪ Turn valve clockwise and tighten. ▪ Fill to recommended level.

Specifications

Model	TMA-9H
Type	Hydraulic
Material	Powder Coated Steel
Min Height	24cm
Max Height	38cm
Maximum Load Capacity	680kg / 1,500Lbs

Note: Minimal Assembly required



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

