



INSTRUCTIONS FOR

# MINI TRACTOR/QUAD/MOTORCYCLE LIFT 680KG CAPACITY AIR/HYDRAULIC

MODEL NO: **MT680.V4**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to  
instruction  
manual



## 1. SAFETY

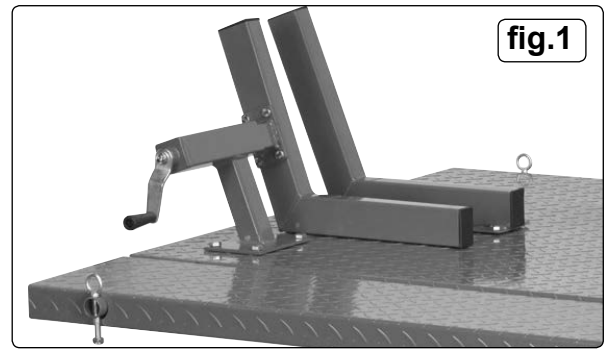
- ✓ Disconnect lift from air supply before changing parts, servicing or performing any maintenance.
- ❑ **WARNING!** Ensure correct air pressure is maintained and not exceeded. Recommended pressure 120-200psi. Required air flow 9.5cfm.
- ✓ Keep air hose away from heat, oil and sharp edges. Check air hose for wear before each use, and ensure that all connections are secure.
- ✓ Ensure lift is kept clean and in good working order. Immediately repair or replace damaged parts.
- ✓ Use recommended parts only. Incorrect parts may be dangerous and will invalidate the warranty.
- ✓ Use a qualified person to lubricate and maintain the lift. **DO NOT** use brake fluid to top up system. Use Sealey hydraulic oil only.
- ✓ Locate lift in a suitable, well lit work area. Keep area clean and tidy and free from unrelated materials.
- ✓ Use lift on level and solid ground, preferably concrete. *Avoid tarmacadam since lift may sink in.*
- ✓ Ensure all non-essential persons keep a safe distance.
- ✓ Always keep your hands and feet away from moving parts. **DO NOT** reach under the lift.
- ✗ **DO NOT** operate the lift if parts are missing or damaged.
- ✗ **DO NOT** adjust the safety overload valve.
- ✓ Keep the lift clean for best and safest performance.
- ✓ The maximum load is 680Kg. **DO NOT** exceed this rated capacity.
- ✓ Use this lift for lifting purpose only. **DO NOT** use it for any other purpose it is not designed to perform.
- ✓ Keep children and unauthorised persons away from the work area.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery, and contain long hair.
- ✓ Keep proper balance and footing, **DO NOT** overreach and wear non-slip footwear.
- ✓ Ensure the vehicle is adequately secured to the lifting platform with appropriate straps.
- ✓ When the platform is being raised, ensure the safety handle is moved to the right hand side of its detent, to engage the safety plate, (see 6.5.1).
- ✗ Before lowering lift ensure that there are no obstructions underneath and that all persons are standing clear.
- ✗ **DO NOT** use the lift if damaged, any suspect parts are noted or it has been subjected to a shock load.
- ✗ **DO NOT** operate the lift when you are tired or under the influence of alcohol, drugs or any intoxicating medication.
- ✗ **DO NOT** allow untrained persons to operate the lift.
- ✗ **DO NOT** make any modifications to the lift.
- ✗ **DO NOT** get the lift wet.
- ✗ **DO NOT** pull the hose from the air supply, and **DO NOT** direct air from the air hose at yourself or others.
- ✓ When not in use disconnect lift from the air supply, and store in the down position in a safe, dry, childproof area.
- ❑ **WARNING:** The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

## 2. INTRODUCTION

All steel construction with heavy duty hydraulic ram and air pump. Integral hydraulic pump and air motor assembly. Supplied with separate foot operated hydraulic pump and reservoir unit. Features two additional side platforms for extra width. Ramp and platform made with chequer plate surface to ease loading and positioning of mini tractor/quad. Supplied with motorcycle front wheel locking attachment, securing vehicle to provide easy access maintenance access. Fitted with safety lock to prevent accidental lowering. Suitable for use with centre stand motorcycles or with paddock stand.

### 3. SPECIFICATION

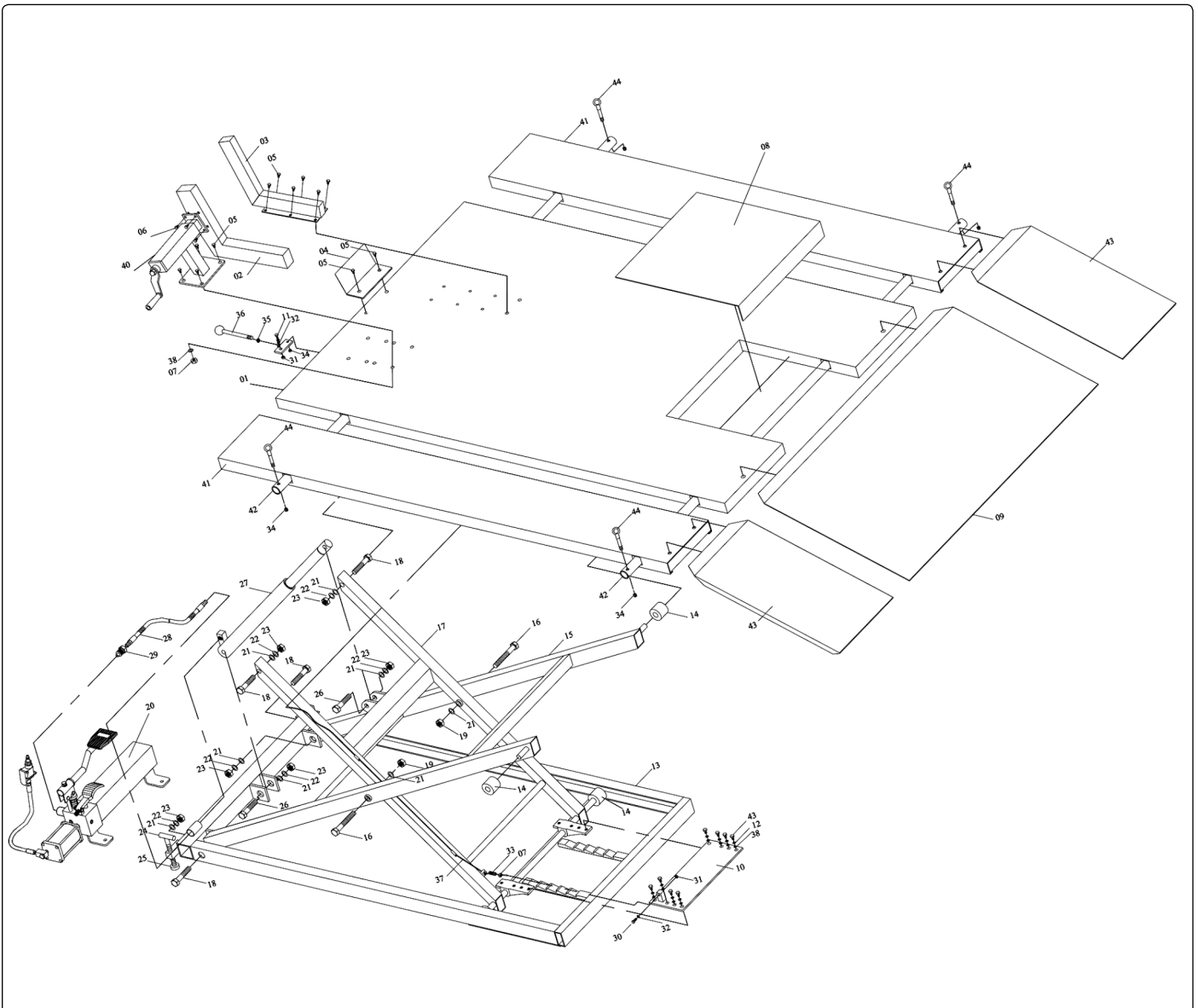
Model no: .....MT680.V4  
Capacity: ..... 680kg  
Min. height: ..... 190mm  
Max. height: ..... 790mm  
Standard width: ..... 710mm  
Max. width: ..... 1220mm  
Length: ..... 2000mm



### 4. ASSEMBLY

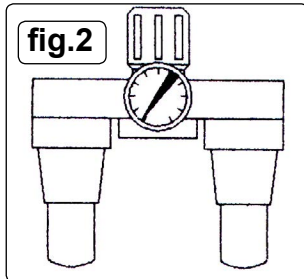
Refer to parts diagram below.

- 4.1. Lay the sliding plate (8) onto the platform (1).
- 4.2. Connect the oil hose coupler (29) to the port on the hydraulic pump (20).
- 4.3. Connect air hose into the end of the air/manual pump (20).
- 4.4. Attach the leading plate (9) to the end of the platform (1).
- 4.5. Insert safety handle (36) through detent on rear end of lift and screw into thread on the bracket on the end of the safety wire (31).
- 4.6. Tighten lock nut (35).
- 4.7. **Fit motorcycle wheel clamp (also see fig.1)**
- 4.8. Fit crank handle assembly (40) to platform (1) through pre-drilled holes, use bolt (5) washer (38) and nut (7).
- 4.8.1. Fit moveable vice jaw (2) to crank handle assembly (40), use bolt (6).
- 4.8.2. Fit fixed vice jaw (3) to platform (1), use bolt (5).
- 4.8.3. Fit stop plate (4) to platform (1), use bolt (5).
- 4.9. **Fit side extensions**
- 4.9.1. Pass connecting bars (42) through front and rear holes in platform (1). Slide on side extensions (41).
- 4.9.2. Secure at each end of the connecting bars (42) with position pins (44). Fit pin through hole on the end of the connecting bar and secure with lock nut (34).
- 4.9.3. Fit side extension ramp extensions (43).

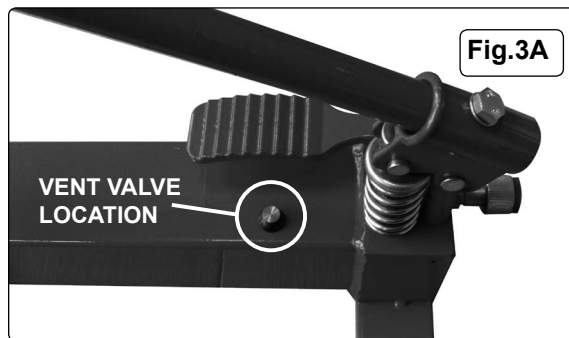
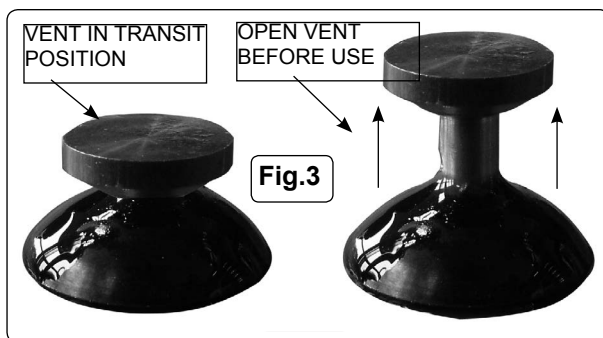


## 5. AIR SUPPLY

- 5.1. You will require an air pressure of minimum 120psi, maximum 200psi to get the best performance from this lift.
  - ❑ **WARNING!** Ensure the air supply does not exceed 200psi while operating the lift. Too high an air pressure and unclean air will shorten the product's life due to excessive wear, and may be dangerous, causing possible damage and/or personal injury.
- 5.2. Drain the air tank daily. Water in the air line will damage the lift.
- 5.3. Clean the air inlet filter screen weekly.
- 5.4. Keep the air hose between the compressor and the lift as short as possible, and install an air filter and oiler, (fig 2).
- 5.5. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The minimum hose diameter should be 1/4" I.D. and fittings must have the same inside dimensions.
- 5.6. Keep hose away from heat, oil and sharp edges. Check hoses for wear, and make certain that all connections are secure.



## 6. PREPARATION FOR USE



### 6.1. Before use

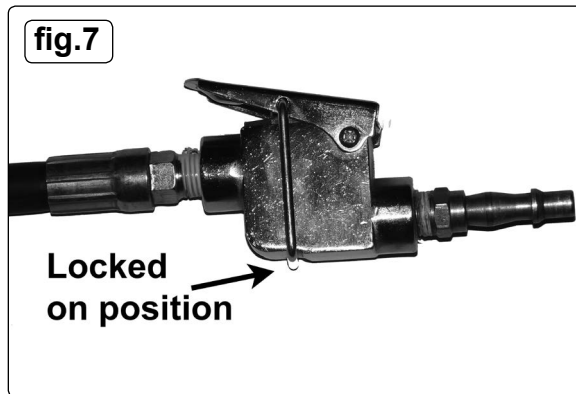
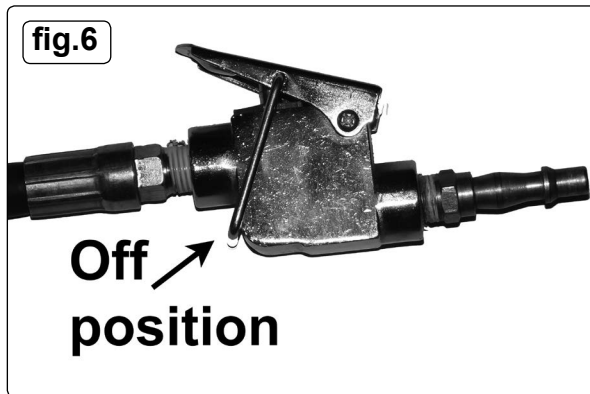
- 6.1.1. MT680 has a vent valve, see Fig.3A. This is closed for transit only. Before use the valve must be lifted or the pump will not function properly.
- 6.1.2. Let the hydraulic pump stand for one hour, to allow the oil to settle, before purging the system.
  - NOTE:** Failure to allow sufficient time for the oil to settle could result in air remaining in the oil. Should the pump fail to purge completely at the first attempt, a second purge will be required.
- 6.1.3. Purge the hydraulic system by depressing the release foot pedal and pumping the lift foot pedal fifteen to twenty times.
- 6.1.4. Test the lift unladen by moving the safety handle to the right and raising the lift to full height.
- 6.1.5. **Safety handle operation**
  - 6.1.5.1. **To raise.** Before raising the lift the safety handle must be moved to the right hand side of the detent, see fig.4 to prevent accidental lowering.
  - 6.1.5.2. **To lower.** Raise the lift by pumping the foot pedal several times (or by air), to let the safety plate free from its locked position, then move the safety handle to the left and lock it in its detent, see fig.5
  - 6.1.5.3. Lower the lift by depressing the release foot pedal slowly, to control the rate of descent.



### 6.2. Operation (Refer to the Parts Diagram)

- ❑ **WARNING!** Ensure that you read, understand and apply the Section 1 Safety Instructions.
  - ❑ **WARNING! DO NOT** overload the Vehicle lift. The maximum load is 680kg.
- 6.2.1. Position the lift in a suitable location, preferably on a concrete surface.
  - 6.2.2. Turn the adjustable screws (24) down to ensure that lift is level and stable on the surface.
  - 6.2.3. Wheel the vehicle up the leading plate/s and on to the lift platform.

- **WARNING!** The vehicle must be fully supported by the lift platform prior to lifting. **DO NOT** put the rear wheel of the vehicle on the leading plate (9) and **DO NOT** use the leading plate to support the weight of the vehicle when lifting. The leading plate (9) is only used to assist the operator in wheeling the vehicle on the platform when the lift is at its lowest position.
- 6.2.4. Secure the vehicle to the lift platform.
- 6.2.5. When working on a motorcycle, wheel the bike in to the wheel clamp at the front of the lift, tighten the clamp to hold the bike in place.
- 6.2.6. Press on the air valve to raise the lift. The air valve can be locked in the on position, see figs.6 and 7.



**NOTE:** Ensure the safety handle is to the right and the lock plate assembly (10) is locked in a corresponding pair of safety latches to prevent accidental lowering.

- 6.2.7. When work is completed, remove all tools from underneath the lift before lowering.
- 6.2.8. Move the safety handle to the left hand side (into the detent lock) and lower the lift, refer to 6.1.5.2., by slowly depressing the release foot pedal to gently lower the vehicle. Move the safety handle back to the right hand side ready for the next lifting operation.
- NOTE:** Lower the vehicle slowly, in a controlled fashion. Never allow the vehicle to lower rapidly.
- 6.2.9. When the lift is fully lowered, remove the vehicle from the lift.

## 7. MAINTENANCE

- 7.1. Regularly check oil level via filler hole. With piston fully down remove filler plug, oil should be level with bottom of filler hole. Top-up as necessary. Use a good quality jack oil such as Sealey Hydraulic Jack Oil. **Do not use brake fluid.**
- 7.2. Ensure no dirt enters hydraulic system when filling or removing/replacing components.
- 7.3. Lubricate the air motor with a good quality jack oil such as Sealey Hydraulic Jack Oil, once or twice a month. Add the oil through the air valve whilst holding down the lever.
- 7.4. Keep the lift clean and wipe off any oil or grease. Lubricate all moving parts.
- 7.5. Before each use check all parts. If any part of the lift is damaged or suspect, remove the lift from service and take necessary action to repair.

## 8. TROUBLESHOOTING

Lift will not lift load.	1. Release valve not fully closed. 2. Oil level low. 3. Air supply low.	1. Close valve firmly. 2. Top-up to correct level. 3. Min. requirement 120psi.
Lift will not hold load.	1. Release valve not fully closed.	1. Close valve firmly.
Lift will not lift smoothly or to full height.	1. Oil level low. 2. Air in hydraulic system.	1. Top-up to correct level. 2. Bleed system.
Lift will not lower completely.	1. Release valve not sufficiently open.	1. Slowly open valve further.

**NOTE:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**IMPORTANT:** No liability is accepted for incorrect use of this product.

**WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim.



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