

450KGS MOTORCYCLE LIFT

GM - MHB 450
(Air/Hydraulic)
INSTRUCTION MANUAL



******IMPORTANT: PLEASE READ THIS INSTRUCTION MANUAL CAREFULLY BEFORE USE.
NOTE THE SAFETY INSTRUCTIONS & WARNINGS.
USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE
FOR WHICH IT IS INTENDED.
RETAIN THIS MANUAL FOR FUTURE REFERENCE***

SPECIFICATIONS

CAPACITY	1000 LBS	AIR PRESSURE	110-120 PSI
MIN HEIGHT	210 MM	MAX HEIGHT	780 MM

FEATURES

1.1. Used for motorcycle lifting.

ASSEMBLY

***The machinery must be installed and commissioned by qualified personnel. All relevant safety regulations must be strictly adhered to! Use the disassemble drawing as your guide to assemble.

Content:

- Main lift
- Stop Plate
- Clamp
- Lifting foot pedal
- Ramp
- Safety bar
- Bolts, Washers, Nuts, Cotter Pins

- 2.1. Take the lift out of the box, make the lift in upright position.
- 2.2. Attach clamp and stop plate to the front side of the platform
- 2.3. Attach ramp to the rear side of the platform
- 2.4. Attach lifting foot pedal to the lifting spindle

BEFORE USE

***Leave the lift 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. In this event, the pump will not purge completely. First time and a second purge will be required.

3.1. Purge air away from hydraulic system

3.1.1 **Manual operating system:** Let the platform in the lowest position, keep depressing the release foot pedal and quickly pump the lifting foot pedal several times to purge air from the hydraulic system. Release the release foot pedal.

3.1.2 **Air operating system:** Pour 2-3 drops of good quality air tool lubricant into the air supply inlet of the lift control valve, connect to air supply and operate for 3 seconds to evenly distribute lubricant. (This step is required if the air pump is not used for a long time)

Connect the quick coupler-male into the air supply hose quick coupler-female and fully press the release foot pedal, then turn on the air controller letting the pump work for 20 seconds to eliminate any air in the hydraulic system.

3.2. Carefully and slowly pinch oil fill plug to release trapped air.

3.3. Position the lift in a suitable area, checking that the surface on which the lift will stand is solid and flat, and adjust the lifting foot-pedal screw to the right position.

3.4. Make sure the air hose **Must BE** pulled from bottom, Otherwise it may crush.



OPERATION

- 4.1. Ensure that the lift is at the minimum height, the ramp has installed in its place.
- 4.2. Make sure there is no air in the hydraulic system(Please see **BEFORE USE**), Then move the motorcycle to the centerline of the platform, lock the front wheel, using tie-down straps(to be ordered separately) to fix the motorcycle to the platform. steadily pump the lifting foot pedal until the platform reaches a required height, or open the air controller to lifting the platform to a required height.
- 4.3. Lock the safety bar at the required height. Then repair the motorcycle.
- 4.4. When work is done, check under the lift to ensure that there are no obstructions and that it is safe to lower the lift. Then remove the safety bar.
- 4.5. Depress the release foot pedal, let the lift slowly down to its lowest position.
- 4.6. Open the clamp, untie the straps, remove the motorcycle via the ramp.
- 4.7. Disconnect the air inlet fitting from the air source.

WARNING!!

- 5.1. **DO NOT** exceed rated capacity.
- 5.2. When the platform is at its highest position, **DO NOT** attempt to pump the lift higher as this can damage the mechanism.
- 5.3. Use this lift for lifting purpose only. **DO NOT** use it for any other purpose it is not designed to perform.
- 5.4. Keep children and unauthorized persons away from the work area.
- 5.5. Remove all loose fitting clothing. Remove ties, watches, rings and other loose jewelry, and contain long hair.
- 5.6. Wear ANSI/CE approved safety goggles, glove, shoes, close, helmet when operating the lift.
- 5.7. Only use this lift on a surface that is stable, level, dry and not slippery, and capable of sustaining the load. Keep the surface clean, tidy and free from unrelated materials and ensure that there is adequate lighting.
- 5.8. Always center load on lift platform. When the platform has been raised to the working height, ensure the locking bar is engaged to prevent accidental lowering.
- 5.9. Always keep your hands and feet away from moving parts.
- 5.10. **DO NOT** attempt to transport a load on the lift. The lift must only be used in a static position for lifting and lowering loads. Ensure that the load remains stable at all times.
- 5.11. **DO NOT** operate the lift when you are tired or under the influence of alcohol, drugs or any intoxicating medication.
- 5.12. **DO NOT** allow untrained persons to operate the lift.
- 5.13. **DO NOT** make any modifications to the lift.
- 5.14. **DO NOT** expose the lift to rain or any other kind of bad weather.

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 by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

MAINTENANCE

- 6.1. Keep the lift clean and wipe off any oil or grease. Lubricate all moving parts.
- 6.2. When not in use, the lift must be stored in the lowest position in a dry location to minimize ram and piston corrosion.
- 6.3. Before each use check all parts, ensure that all applicable bolts and nuts are firmly tightened. If any part of the lift is damaged or suspect, remove the lift from service and take necessary action to repair
- 6.4. Periodically check the ram and piston for signs of corrosion. Clean exposed areas with a clean oiled cloth
- 6.5. When lift efficiency drops, purge away air from the hydraulic system.
- 6.6. Check the hydraulic oil level. If not adequate, add hydraulic oil as necessary. **DO NOT** use brake fluid or any other improper fluid.
- 6.7. If the lift need repairing and/or there are any parts that need to be replaced, have it repaired by **authorized and trained technicians** and only use the replacement parts supplied by the manufacturer.

TROUBLE SHOOTING

No.	Fault	Cause	Remedy
1	Can't lift up the platform	1. The pump is leaking 2. Release valve not complete closed 3. Air in hydraulic system	1. Replace the oil seals 2. Check the release valve 3. Purge air away, see BEFORE USE , 3.1
2	Can't descending the lift down	1. Lack of lubrication at the connection	1. Apply lubricating oil
3	The platform can't reach its highest position	1. The oil is not enough	1. Add oil
4	Oil leaking	1. Seals broken 2. Screw parts loosed	1. Replace the seal kits 2. Tighten the screw parts
5	Air pump can't work	1. Lack of lubrication 2. There is no hydraulic oil in oil system for too long time, the oil system is blocked by steel ball	1. See BEFORE USE , 3.1.2 2. Keep air pump in operation, Two people quickly lift the table at the same time and then suddenly put it down, a sudden shock is needed to make the ball return to its right position.

PARTS LIST

No.	Description	Qty	No.	Description	Qty	No.	Description	Qty
1	Safety bar	1	18	Nut M16	1	35	Washer Ø10	4
2	Inside support arm	1	19	Release foot pedal	1	36	Pump support base	2
3	Wheel	2	20	Bolt M5X10	1	37	Bolt M16X80	1
4	Outside support arm	1	21	Bolt M10x40	1	38	Washer Ø16	1
5	Pin	1	22	Nut M10	1	39	Nut M16	1
6	Washer Ø16	2	23	Lifting foot pedal	1	40	Ramp	1
7	R-pin	2	24	Bolt M16X45	2	41	Bolt M16X45	2
8	Wheel	2	25	Washer Ø16	2	42	Washer Ø16	2
9	Pump	1	26	Nut M16	2	43	Nut M16	2
10	R-pin	2	27	Washer Ø6	8	44	Screw	2
11	Washer Ø12	2	28	Bolt M6X10	8	45	Nut M6	2
12	Wheel	2	29	Castor	2	46	Washer Ø6	2
13	Bolt M16X90	1	30	Adjustable tube	2	47	Support head	2
14	Oil fill plug	1	31	Pin	2	48	Bottom frame	1
15	Nut M16	1	32	Bolt M8X15	2	49	Platform	1
16	Spring	1	33	Ring	2	50	Oil fill plug	1
17	Pedal parts 1	1	34	Bolt M10X20	4	51	Air pump	1
						52	Air controller valve	1
CLAMP:								
A1	Nut M10	10	A7	Movable Clamp	1	A13	Round tube	1
A2	Washer Ø10	11	A8	Stop plate	1	A14	Washer Ø14	1
A3	Rubble plate	2	A9	Bolt M10X30	2	A15	Handle	1
A4	bolt M6X16	20	A10	Washer Ø10	2	A16	Washer Ø10	1
A5	Bolt M10x30	8	A11	Nut M10	2	A17	Nut M10	1
A6	Fixed clamp	1	A12	Adjusting screw	1			

DISASSEMBLE DRAWING



