



INSTRUCTIONS FOR AIR / HYDRAULIC JACKS

Model No's: MAJ20, MAJ10-20, MAJ20-60.

Thank you for purchasing a Sealey Jack. 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: READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS JACK CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE OR PERSONAL INJURY, AND WILL INVALIDATE THE WARRANTY. RETAIN THESE INSTRUCTIONS FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

- 3 Disconnect jack from air supply before changing parts, servicing or performing any maintenance.
- p **WARNING!** ensure correct air pressure is maintained and not exceeded. Recommended pressure 100-145PSI required air flow 270 l./min.
- 3 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.
- 3 Ensure Jack is kept clean and in good working order. Immediately repair or replace damaged parts.
- 3 Use recommended parts only. Incorrect parts may be dangerous and will invalidate the warranty.
- 3 Use a qualified person to lubricate and maintain the Jack. DO NOT use brake fluid to top up system. Use Sealey hydraulic oil only.
- 3 Locate Jack in an adequate, well lit working area for its function, and keep area clean and tidy and free from unrelated materials.
- 3 Use Jack on level & solid ground, preferably concrete. *Avoid tarmac since Jack may sink in.*
- 3 Place wedges under wheels of vehicle (*but ensure wheels of Jack can freely move*).
- 3 Ensure the vehicle handbrake is engaged (or in "PARKED" mode), and switch the engine off.
- 3 Ensure minimum distance of 0.5m between vehicle tilt & static objects such as doors, walls, etc.
- 3 Ensure all non essential persons keep a safe distance and that there are no passengers in the vehicle to be jacked up.
- 3 Place Jack under vehicle manufacturer's recommended jacking points (*see vehicle hand book*).
- 3 Check that the jacking point is stable and centred on the Jack saddle and is free from grease or oil.
- 3 Ensure Jack wheels are free to move and there are no obstructions.
- s **DANGER:** Use Jack for lifting only, NOT for supporting the jacked load. Use correct axle stands under vehicle before proceeding with task.
- 7 DO NOT apply your body weight to the handle during jacking. The handle is only for moving the jack to and from the jacking location.
- 7 DO NOT operate the Jack if parts are missing or damaged.
- 7 DO NOT exceed the rated capacity of the Jack.
- 7 DO NOT allow the vehicle to move during jacking and do not use the jack to move the vehicle.
- 7 DO NOT Jack a vehicle which may result in the spillage of fuel, battery acid, or dangerous substances.
- 7 DO NOT work under the vehicle until Axle Stands have been correctly positioned.
- 7 DO NOT use the Jack for purposes other than which it is designed.
- 7 DO NOT adjust the safety overload valve.
- 7 DO NOT yank the hose from the air supply, and DO NOT direct air from the air hose at yourself or others..
- 3 Ensure there are no persons or obstruction beneath the vehicle before lowering.
- 3 When not in use disconnect jack from the air supply, and store in the down position in a safe, dry, childproof area.
- p **WARNING!** turn off air supply and de-pressurise the control nozzle before removing the pump unit from any installation or mobile system. Failure to comply with this instruction may damage the unit and will invalidate your warranty.

2. SPECIFICATIONS

Model:	MAJ20	MAJ10-20	MAJ20-60
Max capacity	.20Tons	.20Tons	.60Tons
Min height	.205mm	.180mm	.175mm
Max height capacity:			
Stage 1 (mm/tons)	.320/20	.270/20	.255/60
Stage 2 (mm/tons)		.370/10	.330/40
Stage 3 (mm/tons)			.480/20
Piston stroke	.115mm	.115mm	.233mm
Length inc handle	.1832mm	.1764mm	.2231mm
Width	.300mm	.300mm	.315mm
Working PSI	100-145	100-145	100-145
Weight kg	.44	.40	.76
Required air flow	.14cfm	.14cfm	.14cfm

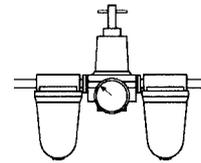
Note: The maximum heights shown may be extended by use of the extension pin (fig 4).

3. AIR SUPPLY

- 3.1. Ensure the jack pneumatic switch is in the "off" position before connecting to the air supply.
- 3.2. You will require an air pressure of more than 100PSI (max 145PSI) and an air flow of 14cfm to get the best performance from this jack.
- 3.3. p **WARNING!** Ensure the air supply does not exceed 145psi while operating the jack. Too high an air pressure and unclean air will shorten the products life due to excessive wear, and may be dangerous causing possible damage and personal injury.
- 3.4. Keep the air hose between the compressor and the air jack as short as possible, and install an air filter and oiler (fig 1).
- 3.5. Drain the air tank daily. Water in the air line will damage the jack.
- 3.6. Clean the air inlet filter screen weekly.
- 3.7. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The minimum hose diameter should be 3/8" I.D. and fittings must have the same inside dimensions.

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- 3.8. Keep hose away from heat, oil and sharp edges. Check hoses for wear, and make certain that all connections are secure.

fig 1.



4. INTRODUCTION & ASSEMBLY

4.1. Introduction.

These air hydraulic trolley jacks have been designed to suit the jacking of heavy vehicles with a low ground clearance. The operator remains in control of the jacking operation even if the air supply is interrupted. Pressure loads that may be produced by the vehicle axle lifting are absorbed because the piston does not come into contact with the cylinder. The hand lever will lock in three different positions, horizontal, 45°, and vertical and may be fully collapsed for transporting (fig 2). The "Dead Man" principle operating lever located at the top of the handle (fig 3) enables operation of the jack at any handle position. A pneumatic control lever (fig 6) gives a fast jacking speed and self-retracting ram descent. Jacking height is also assisted by the addition of a 100mm extension pin housed in the side of the jack (fig 4).

4.2. Assembly

Ensure the jack is not connected to the air supply before performing the following. Refer to the parts diagram to identify numbered parts

- 4.2.1. Remove the base cover part no 1.
- 4.2.2. Insert the handle shaft into socket.
- 4.2.3. Screw floor stop (fig 5) part no 83 into the under side of the handle plate, and screw bolt part 80 into the base of the shaft.

fig 2

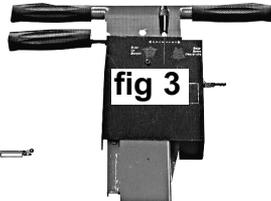
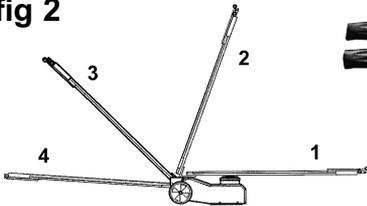
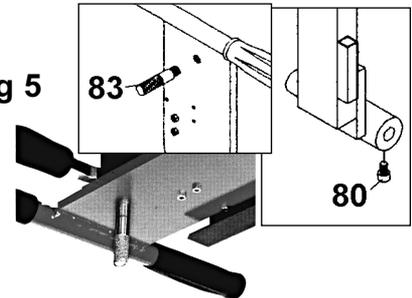


fig 5



5. OPERATING INSTRUCTIONS

5.1. Preparation before use.

- 5.1.1. You will require an air pressure of more than 100PSI, (max 145PSI) and an air flow of 10-14cfm to operate jack.
- 5.1.2. Connect the air supply hose (fig 6.3).
- 5.1.3. Use hand lever (fig 6.1) to lock the handle in the operating position.

5.2. Eliminate any air in the system.

Before using the jack, purge the hydraulic circuit in order to eliminate any possible air that may have entered the system during transit.

- 5.2.1. Whilst holding handle (fig 6 A) look down and view the control lever. push lever to your left to open the air valve, (see markings on front of the control panel if you wish to clarify operating position of the lever).
- 5.2.2. Now turn the control lever "2" to your right to raise the jack ram up ensuring full internal lubrication and to bleed any air from the system.
- 5.2.3. When complete, push the control lever back again to your left to lower the ram down.

5.3. Using the jack.

WARNING! ensure you have read and understood the safety instructions in chapter 1 before commencing work.

- 5.3.1. Position the Jack under the vehicle manufacturer's recommended jacking point (see vehicle hand book).
- 5.3.2. Whilst holding handle (fig 6 A) look down and view the control lever (fig 6. 2). To raise the jack up, push the lever to your right, (see markings on front of the control panel if you wish to clarify operating position of the lever).
- 5.3.3. When the vehicle has reached the desired height release the control lever which will automatically return to the middle hold position which will stop further air flow and hold the jack at the height to which it has been raised.
- 5.3.4. Place axle stands correctly in positioned and ensure chapter 1 safety instructions are strictly applied before performing any task.

5.4. Lowering the jack.

- 5.4.1. Ensure there are no persons or obstruction beneath the vehicle before lowering, and remove any axle stands.
- 5.4.2. Whilst holding handle (fig 6 A) look down and view the control lever (fig 6. 2). To lower the jack, push the lever to your left, (see markings on front of the control panel if you wish to clarify operating position of the lever), and the jack will lower in a controlled manner.
- 5.4.3. Once completely lowered release the control lever which will return to the middle hold position. Remove the jack from under the vehicle. If you have finished using the jack, turn the air pressure supply off and disconnect the jack from the air line and store the jack and air line accordingly.

fig 6

