KINCROME®

PROFESSIONAL QUALITY TOOLS

AIR HYDRAULIC BOTTLE JACK

K12131 Type 2
20 Tonne
ED3/JULY 19

Caution: Do not allow persons to operate or assemble this jack until they have read this manual and developed a thorough understanding on how the jack works

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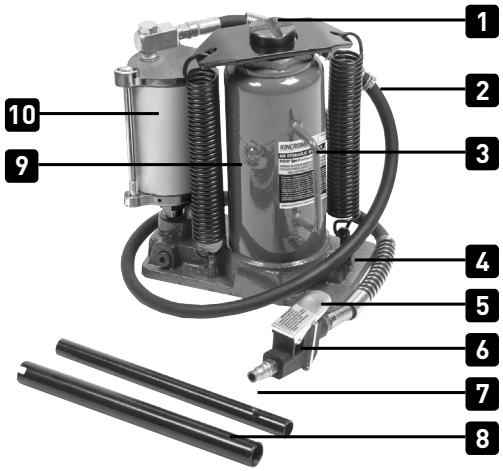

KNOW YOUR PRODUCT

1. Saddle
2. Air Hose
3. Carry Handle
4. Release Valve
5. Lever
6. Air Valve Assembly
7. Air Inlet
8. Handles
9. Oil Filler Plug
10. Air Motor
11. Pump Lever (not shown)

SPECIFICATIONS

Model No	K12131
Working Load Limit	20,000kg
Height Raised	502mm
Height Lowered	262mm
Head Cap Diameter	46mm
Ram Travel	160mm
Head Cap Screw Height	80mm
Operating Pressure	110-120PSI
Base Dimensions	220mm x 159.5mm
Hose Length	1250mm
Air Fitting	1/4"
Weight	16kg

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IMPORTANT SAFETY INSTRUCTIONS

Save all warnings and instructions for future reference.
WARNING! **Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.**

1. The use of a vehicle jack has inherent dangers to avoid risk of personal injury or property damage make sure you are fully aware of the operating instructions for this product, the recommendations in the vehicle owners manual for jacking of your vehicle prior to lifting the vehicle.
2. Do not exceed maximum lifting capacity of this jack.
3. This jack is intended for automotive use only.
4. Be aware that large or heavy vehicles may exceed jack's stated capacity check vehicle owners manual or contact the vehicle manufacturer.
5. Do not use for any other purpose except the raising and lower of vehicles.
6. Never use to raise any structure or building, Do not lift any human load and never ride on jack.

UNPACKING AND ASSEMBLING JACK

Preparing Work Area

Before using jack to lift vehicle, it is important to prepare work area properly. Follow this procedure each time the jack is used to help prevent property damage and or serious injury.

1. Thoroughly inspect jack for damage or wear before each use. Briefly test operation of unloaded jack before using to lift any load. If jack is damaged or is malfunctioning DO NOT LIFT ANY LOAD until the problem is corrected.
2. The vehicle manufacturer's owner's manual should be consulted prior to the lifting of the vehicle. It will advise safety precautions, jacking procedure, vehicle weight, recommended jack type, and location of jack support areas on vehicle. NEVER EXCEED WORKING LOAD LIMIT OF JACK.
3. Clear children and others from work area before moving or lifting vehicle. Another adult should be nearby for extra safety and assistance but must be clear of vehicle as it is moved or lifted. No person should remain in a vehicle that is being jacked. No person should enter a vehicle which is supported by a jack or by vehicle support stands. No person should lean into a vehicle which is supported by a jack or by vehicle support stands.
4. No person should place any portion of their body under a vehicle that is supported by a jack.
5. Clear obstructions from work area. Working in tight or cluttered work areas is dangerous.
6. The hydraulic vehicle jack should be used for lifting and lowering only; the raised vehicle should be supported on vehicle support stands.
7. Be sure jack and vehicle are on solid, level ground such as paved or concrete driveway or garage floor. The jack should be used on level firm ground wherever possible. Uneven or sloped surfaces create hazardous working conditions and dangerously impeded the function of the jack.
8. With vehicle in proper position, set vehicle's parking brake or emergency brake and put gear-shift in park (manual transmissions should be placed in lowest gear). TURN VEHICLE IGNITION OFF AND TO THE "LOCK" POSITION making sure steering wheel locks.
9. It is recommended that the wheels of the vehicle be chocked. Do not rely on vehicle transmission or brakes to hold vehicle in position. Chock all wheels of vehicle not being lifted off the ground to prevent vehicle rolling. Using wedge-shaped blocks that tire cannot roll over, position one chock tight against the tyre in both forward and reverse rolling paths.
10. The load should be centrally located on the head cap. Off centre loads can be unstable.
11. The hydraulic vehicle jack should be used for lifting and lowering only; the raised vehicle should be supported on vehicle support stands. Vehicle support stands (not included) will be needed to support vehicle once it is in raised position. Have jack stands, vehicle support stands capable of supporting vehicle weight ready nearby for use. Read and understand jack stand manufacturer's instructions and safety information before use and before lifting the vehicle with this jack.
12. Plan location of jack beneath vehicle, making sure jack will be contacting only a jack support area of vehicle. Consult vehicle owner's manual for location of jack support areas.

Personal Safety

1. **Stay alert.** Watch what you are doing and use common sense when operating the tool. Do not use the tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool increases the risk of injury to persons.
2. **Dress properly. Do not wear loose clothing or jewellery. Contain long hair. Keep hair, clothing, and gloves away from moving parts.** Loose clothes, jewellery, or long hair increases the risk of injury to persons as a result of being caught in moving parts.
3. **Avoid unintentional starting.** Be sure the switch is off before connecting to the air supply. Do not carry the tool while touching the switch or connect the tool to the air supply with the switch on.
4. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
5. **Use safety equipment.** A dust mask, non-skid safety shoes and a hard hat must be used for the applicable conditions.
6. Always wear eye protection. Wear ANSI-approved safety goggles.
7. **Always wear hearing protection when using the tool.** Prolonged exposure to high intensity noise is able to cause hearing loss.

Unpacking

Unpack all the components from the box. When unpacking the Air/Hydraulic bottle jack carefully inspect for any damage that may have occurred during transit. Check for loose parts, missing parts or damaged parts. Ensure all packaging materials are disposed of as per your local council guidelines.

Bleeding / Venting Trapped Air

Note: Before first use, the hydraulic ram may need to be purged. Some air may intrude in the hydraulic system due to movement during shipping. Air bubbles can become trapped inside the hydraulic system, thereby reducing the efficiency of the Jack.

Purge air from the system if efficiency drops.

1. Place the slotted end of the Handle (8) over the Release Valve (4) and turn 1-1/2 turns counter-clockwise.
2. Remove the Oil Filler Plug (9) on the side of the Jack Reservoir.
3. Put the Handle (8) into the Pump lever (11) and rapidly pump the Handle (8) ten times to purge air from the hydraulic system.
4. Use the Handle (8) to turn the Release Valve (4) clockwise until tight.
5. Top off Jack Reservoir with a high quality hydraulic jack oil and re-install the oil filler plug (9)

AIR HYDRAULIC JACK OPERATION

Before first using jack carry out the following preparation:

a) **Check oil level -** Open release valve (4) with handle (8) not more than two turns and press down on saddle (1) to ensure piston is fully down, then remove oil filler plug (9). Oil should be level with bottom of filler hole. Adjust level as necessary and replace oil filler plug (9).

b) **Bleed system -** refer to the above "Bleeding/Venting Trapped Air".

c) **Lubricate -** Oil the pivots of the manual pump mechanism and the screw thread of the saddle (1) post. Put two or three drops of air tool oil into the inlet of the air inlet (7). Connect to air supply and operate for three seconds to distribute lubricant.

(d) **Air supply -** An in-line filter is recommended.

Raising the Ram Plunger (using the Pump Lever 11)

WARNING!: Do not overload this jack. Working Load Limit is 20,000kg.

1. Assemble Handle (8), ensure that pins align with slots.
2. Place vehicle in the park, with hand brake on and wheel securely chocked to prevent inadvertent vehicle movement.

3. Locate and close release valve (4) by turning Handle (8) clockwise until firm resistance is felt to further thread engagement.
4. Verify lift point, centre jack saddle under lift point.
   Caution: The vehicle manufacturer's owner's manual should be consulted for the correct lift points prior to the lifting of the vehicle.
5. Insert the Handle (8) into the Pump lever (11) and slowly pump the Handle (8) until the saddle (1) contact the vehicle's lift point. To lift, continue pumping unt Oil load reaches desired height.
6. Immediately secure lifted load with appropriately rated jack stands.

Raising the Ram Plunger (using the Control Valve 6)

Caution: Do not use an extender on the air hose (2) or the operating handle.

1. Place vehicle in the park, with hand brake on and wheel securely chocked to prevent inadvertent vehicle movement.
2. Connect the air hose from the compressor to the air inlet (7) of the Air/Hydraulic Jack.
3. Locate and close release valve (4) by turning Handle (8) clockwise until firm resistance is felt to further thread engagement.
4. Verify lift point, centre jack saddle under lift point. Caution: The Vehicle manufacturer's owner's manual should be consulted for the correct lift points prior to the lifting of the vehicle.
5. Depress the Lever (5) to operate the control valve (6) until the saddle (1) contact the vehicle's lift point. To lift, continue pressing the lever (5) until load reaches desired height.
6. Immediately secure lifted load with appropriately rated jack stands.

Lowering the Ram Plunger

Caution: Make certain that all personnel are clear of the load before lowering. Control the rate of descent of the load at all times. The more you open the release valve (4) , the faster the load descends.

1. Raise load high enough to clear the jack stands, then carefully remove jack stands (always used in pairs).
2. Slowly turn the handle (8) counter-clockwise, but no more than 1 full turn. If the load fails to lower:
   a) Use another jack to raise the vehicle high enough to reinstall jack stands.
   b) Remove the affected jack and then the stands.
   c) Lower the load by turning the release valve counter-clockwise, but no more than 1 full turn.
3. After removing jack from under the load, push ram and handle sleeve down to reduce exposure to rust and contamination.

AIR HYDRAULIC JACK MAINTENANCE & STORAGE

Caution: Prior to making any adjustments ensure the compressor is turned off and unplugged, and the air hose (2) are stationary.
Note: These procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the air-operated tool.

1. BEFORE EACH USE, inspect the general condition of the tool. Check for:
   a) loose hardware or housing,
   b) misalignment or binding of moving parts,
   c) cracked or broken parts, and
   d) any other condition that may affect its safe operation.
2. **Daily - Air Supply Maintenance:** Every day, maintain the air supply according to the component manufacturers' instructions. Drain the moisture filter regularly. Performing routine air supply maintenance will allow the tool to operate more safely and will also reduce wear on the tool.
3. **Quarterly (every 3 months) –** Tool Disassembly, Cleaning, and Inspection: Have the internal mechanism cleaned, inspected, and lubricated by a qualified technician.
4. Periodically check the air and hydraulic fittings for leaks. Repair if any leak is detected.
5. Periodically lubricate all moving points of the Jack.

6. The Hydraulic Ram should be kept clean, free of dirt and water, and protected from corrosion.
7. OIL REPLACEMENT:
   a. Place Jack in an upright position.
   b. Completely lower the Ram.
   c. Remove the Oil Filler Plug (9) and keep it clean.
   d. Fill Reservoir with Kincrome K12400 Hydraulic Jack Oil to the lower rim of the oil fill hole.
   e. Purge air from the hydraulic system as previously described on Bleeding / Venting Trapped Air on page 4.
   f. Top off with more hydraulic oil.
   g. Replace Oil Filler Plug (9).

Repairing Jack/Spare Parts

There are no user serviceable parts except as outlined above. Only trained, licensed and certified repair personnel should attempt any repairs or replacing of parts. Any modifications to this jack, except those performed by the manufacturer, or their designee, will void all warranties both written and implied.

Caring for the environment

When a tool is no longer usable it should not be disposed of with household waste, but in an environmentally friendly way. Please recycle where facilities exist. Check with your local council authority for recycling advice. Recycling packaging reduces the need for landfill and raw materials. Reuse of recycled material decreases pollution in the environment. Please recycle packaging where facilities exist. Check with your local council authority for recycling advice.

Symbol	Property or statement
n₀	No-load speed
.../min	Revolutions or reciprocation per minute
psi	Pounds per square inch of pressure
ft-lb	Foot-pounds of torque
cFM	Cubic Feet per Minute flow
ScFM	Cubic Feet per Minute flow at standard conditions
NpT	National pipe thread, tapered
Symbol	property or statement
NpS	National pipe thread, straight
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved eye protection.
	WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved dust mask/respirator.
	Read the instructions before using the machine.
WARNING or	Marking concerning Risk of Injury.

TROUBLESHOOTING

Symptom	Cause	Remedy
Jack will not lift load.	1. Release Valve (4) not fully closed. 2. Oil level low. 3. Air supply low.	1. Close Release Valve (4) firmly. 2. Top-up to correct level. 3. Adjust the compressors air pressure between 110 - 120 PSI.
Jack will not hold load.	1. Release valve (4) not fully closed. 2. Overload condition 3. Hydraulic unit malfunction	1. Close Release Valve (4) firmly. 2. Remedy overload condition 3. Contact Kincrome customer Service
Jack 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 - Bleeding / Venting Trapped Air on page 4.
Jack will not lower completely.	1. Release Valve (4) not sufficiently open. 2. Reservoir overfilled	1. Slowly open valve further. 2. Check oil level

NOTES

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Warranty given by Kincrome Australia Pty Ltd of 3 Lakeview Drive, Caribbean Park, Scoresby, Victoria (Tel +61 3 9730 7100). The applicable warranty period (2 years) commences on the date that the product is purchased. If this product has materials or workmanship defects (other than defects caused by abnormal or non warranted use) you can, at your cost, send the product to place of purchase, an authorised Kincrome service agent or one of Kincromes addresses for repair or replacement. Your rights under this warranty are in addition to any other rights you have under the Australian Consumer Law or other applicable laws. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. For further details please visit www.kincrome.com.au or call us. Due to minor changes in design or manufacture, the product you purchase may sometimes differ from the one shown on the packaging.

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