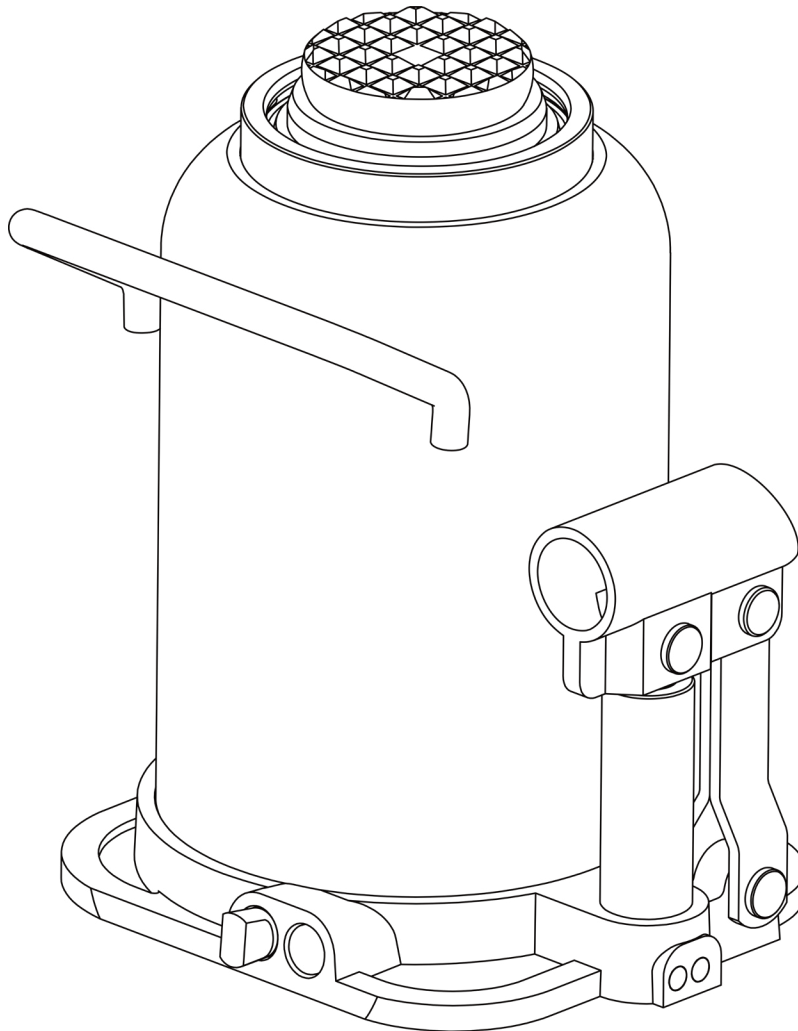




BOTTLE JACK 20 TONNE



TSBJ20

www.thetoolshed.co.nz

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DISTRIBUTED BY:



*This product Complies with Australian/New Zealand Standard:
AS/NZS 2693:2007 Vechicle Jacks*

Thank You

For the purchase of this ToolShed product. We try our hardest to supply customers like you with the best quality products available, at the best price possible. We cant wait to continue working together in the future.

Please contact us for any servicing, replacement parts, or questions you might have about your ToolShed product by visiting our website, or calling: 0800 948 665.

PRODUCT DETAILS

<i>Product Model</i>	<i>ToolShed Bottle Jack 20 Tonne</i>
<i>Product Code</i>	<i>TSBJ20</i>

SPECIFICATIONS

<i>Working Load Limit</i>	<i>20000 kg</i>
<i>Height Raised</i>	<i>360mm</i>
<i>Height Lowered</i>	<i>195mm</i>

Note:
 This manual is for your reference only. Due to the continuous improvement of the ToolShed products, changes may be made at any time without obligation or notice.

Warranty:

This product may be covered under The ToolShed warranty. For more information, see our Terms & Conditions at www.thetoolshed.co.nz

SAFETY GUIDELINES



WARNING

READ ALL SAFETY WARNINGS & INSTRUCTIONS. Failure to follow instructions and warnings could lead to serious injury, electric shock, or fire.

Work Area Safety

- **Ensure that your work area is kept clean and well lit.** Lack of visibility and clutter greatly increase the risk of accident when using tools.
- **Keep bystanders, pets, and children clear when operating this power tool or machine.** They can cause distraction or risk injury to themselves.
- **Ensure you are not operating the power tool or machinery in the presence of dust, liquids, flammable gases, or anything that can create an explosive atmosphere.** Power tools and machinery can create sparks which can lead to ignition and fire hazards in working environments.

Personal Safety

- **Always wear personal protective equipment (PPE).** Eye protection, ear protection, dust masks, and other protective equipment will help to reduce the risk of personal injury or long-term illnesses.
- **Dress appropriately. DO NOT wear loose clothing that can get caught in moving parts.** Keep hair, loose clothing, jewellery, and anything else that could be of risk, away

from moving parts in the machine, or they could become caught therein.

- **Always remain alert and DO NOT operate power tools or machinery under the influence of any substances such as alcohol or drugs, including prescription medications.** Lack of focus could lead to injury or accidents while operating these power tools and machinery.
- **Always ensure proper footing and balance.** Overreaching can lead to slipping and falling which can result in injury or accident.
- **Ensure the power switch is in the OFF position before connecting any battery, or power source to the power tool or machinery.** This can cause injury as tools and machinery can suddenly fire incidentally when live, causing accidents.
- **Use all provided dust collection and extraction attachments, if included.** This equipment, along with the use of PPE dust masks, can help keep you safe from dust, and keep your work site clear from hazards.
- **Ensure loose parts such as wrenches or adjusting keys are removed before starting the power tool or machinery.**

SAFETY GUIDELINES

Power Tool & Machinery Use & Care

- **Use the correct tool for the job.** Forcing a tool to do a job it was not designed for increases the risk of accident or injury.
- **Disconnect tools and machinery from power, or remove batteries before doing any maintenance or adjustments, or before storing the tools and machinery.** This reduces or removes the risk of a power connection that causes the tool or machinery to accidentally fire, which can help prevent injury or accident.
- **Check the general condition of the power tool for damage or any problems that could affect the way the tool or machine works.** An unrepaired tool or machine can lead to accident and injury. Only have your tool or machine repaired with genuine parts from The ToolShed.
- **Only use the power tool and machinery with genuine parts or accessories that are designed to be used with this power tool and machinery.** Failure to do so could result in accident or injury, or damage your tool or machinery.
- **Store your tool or machinery out of reach of children, and away from untrained personnel when not in use.** Use by somebody untrained, or a child, could lead to accident or serious injury.

Service

- **Have your tools and machinery serviced at The ToolShed with ToolShed replacement parts.** This will ensure that the safety of the power tool or machine is maintained.

Always Use Common Sense

- It is not possible to cover every conceivable situation you can face. Always exercise care and use your common sense. If you get into a situation where you feel unsafe, stop and seek expert advice. Contact your dealer, service agent, or an experienced user. Do not attempt any task you feel unsure of!
- **Do not let familiarity gained from the frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

SAFETY GUIDELINES

Bottle Jack Specific Safety

- **Inspect Bottle Jack Before Use:** Always check the bottle jack for leaks, cracks, or any signs of wear before operating the press.
- **Ensure Proper Seating:** Make sure the bottle jack is properly seated on solid ground before applying any pressure. Misplacement or slipping can lead to instability or failure during operation.
- **Do Not Exceed Rated Capacity:** The bottle jack is designed to handle a specific maximum load. Never attempt to lift more than the rated capacity. This can cause jack failure or injury.
- **Hydraulic Fluid Check:** Regularly check the hydraulic fluid level in the bottle jack. Low fluid levels can reduce performance and cause operational hazards.
- **Release Pressure Slowly:** When releasing the bottle jack after completing a task, do so gradually to prevent sudden, uncontrolled movements leading to injury or damage.
- **Avoid Over-Pumping:** Never over-pump the bottle jack beyond its mechanical limit, as this can overstress the hydraulic system and lead to failure.
- **Replace Damaged Jacks:** If the bottle jack shows signs of damage or malfunctions during use, stop operation immediately and replace it before continuing.
- The jack should be placed on firm, level ground wherever possible.
- It is recommended that the wheels of the vehicle be chocked and that no person should remain in a vehicle that is being jacked.
- No person should place any portion of their body under a vehicle that is supported by a jack.
- The vehicle owners manual should be consulted prior to the jacking of the vehicle and for further instructions.



WARNING

The warnings and precautions discussed in this 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.

OPERATION

Prior to First Use

- Before using this product for the first time, it is essential to remove any air from the hydraulic system.
- To do this, open the release valve by turning it counter-clockwise. Then, while holding the saddle down, pump the handle through several full strokes to expel any trapped air from the system.
- Check all parts and their condition. If there is any broken or damaged part, stop using the press and contact your nearest ToolShed for replacement parts and advice.

To Raise the Jack

- Make sure the jack and vehicle are on a hard level surface.
- Always set the vehicle parking brake and chock the wheels
- Consult the vehicle owners manual to ascertain the location of jack points and position the jack beneath the prescribed lift point.
- Turn the release valve clockwise to the closed position. DO NOT OVER TIGHTEN.
- To raise the vehicle to the designed height, place the handle into the socket and pump up and down.
- Place jack stands beneath the vehicle at locations recommended by the vehicle manufacturer. Do not get under the vehicle without jack stands. Jacks are not designed to maintain heavy loads for long periods of time. Do not attempt to put jack stand simultaneously under both ends of vehicle or under one side of vehicle.
- Turn release valve SLOWLY counter-clockwise to lower load onto jack stands.

To Lower the Jack

- Turn the release valve clockwise to the closed position.
- Pump the handle to lift vehicle off of jack stands.
- Remove the jack stands. Do not get under or let anyone else under the vehicle while lowering.
- Turn the release valve SLOWLY counter-clockwise to lower the vehicle onto the ground.

System Air Purge

1. Turn the release valve counter-clockwise one full turn to open.
2. Pump the handle eight full strokes.
3. Turn the release valve clockwise to close the valve.
4. Pump the handle until the ram reaches maximum height and continue to pump several times to remove trapped air from within the ram.
5. Carefully and slowly pinch the oil fill plug to release trapped air.
6. Turn the release valve counter-clockwise one full turn and lower the ram to the lowest position. Apply pressure, if necessary.
7. Turn the release valve clockwise to the closed position and check to ensure proper pump action. It may be necessary to perform the above more than once to assume air is evacuated totally.

MAINTENANCE

- Before cleaning or performing any maintenance, you must ensure the tool is switched off and disconnected from the power supply.
- Compressed air is the most effective way to clean this tool. Always wear PPE safety goggles when cleaning tools with compressed air.
- Ventilation openings and switch levers must be kept clean. DO NOT attempt to clean by inserting pointed objects through openings.
- Do not use harsh chemicals or solvents when cleaning this tool.
- If you discover any damaged or broken parts, consult your nearest ToolShed for replacements and advise.
- Periodically lubricate the pivoting sections and all moving parts with a light oil as needed.
- When not in use, store the press in a dry location with the ram and piston fully retracted.
- When press efficiency drops, purge always air from the hydraulic system as described in "System Air Purge" on Page 9.
- Check the hydraulic oil; remove the oil filler nut on the top of the reservoir, if the oil is not adequate, fill with high quality hydraulic jack oil as necessary, then replace the oil filler nut, purge away air from the hydraulic system.

Lubricating the Jack

- Lubrication is critical to jacks as they support heavy loads. Any restriction due to dirt, rust, etc., can cause either slow movement or cause extremely rapid Jerks, damaging the internal components.
1. Lubricate the ram, linkages, saddle and pump mechanism with light oil. Grease wheel bearings and axles.
 2. Visually inspect for cracked welds, bent, loose, missing parts or hydraulic oil leaks.
 3. Clean all surfaces and maintain all labels and warnings.
 4. Check and maintain the ram oil level.
 5. Check the ram every 3 months for any sign of rust or corrosion. Clean as needed and wipe with an oil cloth.
- Always store your jack in the fully lowered position. This will help protect critical areas from excessive corrosion. Do not use brake, transmission fluids, or regular motor oil as they can damage the seals. Always purchase and use products labelled Hydraulic Jack Oil.



WARNING

Always be sure that the tool is non-operational before attempting to perform any inspection or maintenance.

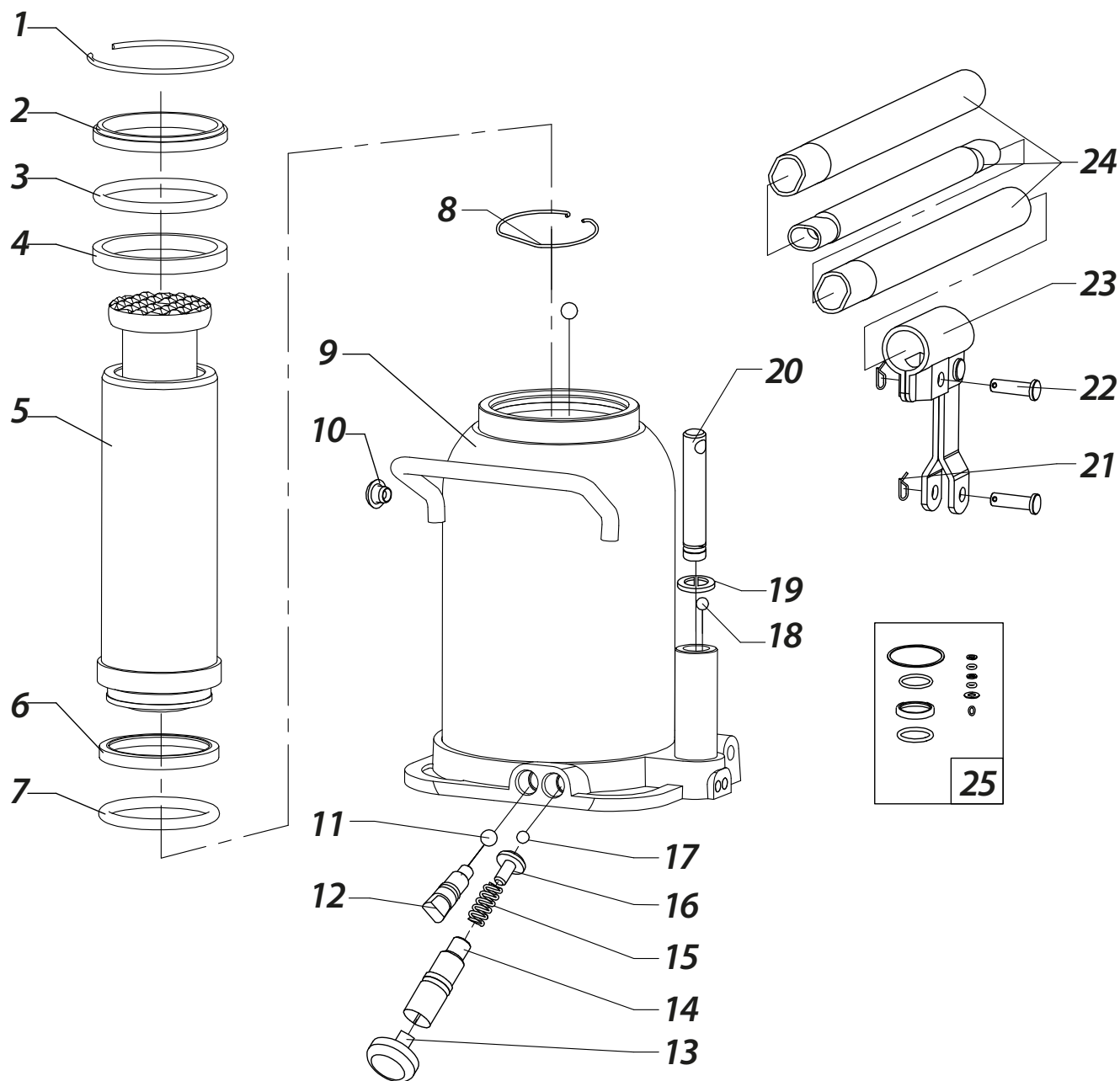
Environment & Disposal

- Packaging materials are raw materials and can be re-used. Separate the different packaging materials and take them to the appropriate waste disposal facility. More information can be obtained from your local authorities.
- Old machines do not belong in your household garbage! Dispose of old machines appropriately, we are all responsible for the environment.

TROUBLESHOOTING

FAULT	POSSIBLE CAUSE	SUGGESTED SOLUTION
<i>Jack will not lift to full height</i>	Low oil level	Check oil level and refill if necessary as per maintenance instructions.
<i>Jack will not hold load</i>	Release valve not closing	Contact your nearest ToolShed for repair advice and parts.
	Hydraulic jack oil contaminated	
	Pump valves not sealing	
	Cylinder ram binding	
<i>Lift arm will not lower</i>	Parts worn	Contact your nearest ToolShed for repair advice and parts.
	Internal damage	
	Broken return spring or unhooked	
	Lift arm linkage bent or binding	
<i>Jack feels spongy when lifting</i>	Cylinder ram binding	Purge air from the hydraulic system as described in "System Air Purge" on Page 9.
	Air in hydraulic system	

EXPLODED PARTS LIST



1	Roundwire Snap Ring	9	Base Welding Parts	17	Ball Bearing Ø3mm
2	Rectangular Ring	10	Oil Plug	18	Ball Bearing Ø5mm X2
3	O-Ring	11	Ball Bearing Ø6mm	19	Bowl Washer
4	Rectangular Ring	12	Release Valve Assembly	20	Pump Plunger Assembly
5	Ram Assembly	13	Plastic Plug	21	Reusable Cotter Pin X2
6	Bowl Washer	14	Safety Valve	22	Pin X2
7	O-Ring	15	Spring	23	Handle Socket Assembly
8	Roundwire Snap Ring	16	Spring Holder	24	Handle Assembly
				25	Seal Kit