



OWNER'S MANUAL

PRODUCT CODE: 2051T

20,000kg AIR ACTUATED BOTTLE JACK



Lifting Capacity	Max. Height	Min. Height	Working Range	Package Size
20,000kg	259.5mm	148mm	0.7-1.0Mpa	355x165x165mm

WARNING INFORMATION

IMPORTANT: READ ALL INSTRUCTIONS BEFORE USE



WARNING

The instructions and warnings contained in this manual should be read and understood before using or operating this equipment. Do not allow anyone to use or operate this equipment until they have read this manual and have developed a thorough understanding of how this equipment works. Failure to observe any of the instructions contained in the manual could result in severe personal injury to the user or bystanders, or cause damage to the equipment and property. Keep this manual in a convenient and safe place for future reference.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the Tradequip policy of continuous improvement determines the right to make modifications without prior warning.

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SAFETY INSTRUCTIONS



SAFETY OPERATING INSTRUCTIONS

- ✓ Check vehicle owner's manual for correct vehicle weight.
- ✗ DO NOT exceed the bottle jacks rated safe working capacity.
- ✗ DO NOT modify this jack.
- ✓ Use only as specified by the manufacturer.
- ✓ The bottle jack is a lifting device only. Immediately after lifting, support the vehicle with appropriate means.
- ✓ Use only on a hard, level surface.
- ✓ Securely chock wheels remaining on the ground.
- ✓ Ensure that each stand is securely located under a strong point on the vehicle - consult vehicles owner's manual for guidance.
- ✓ Centre the load prior to lifting.
- ✓ For your safety, do not modify or alter this Bottle Jack.
- ✓ When servicing, use only Tradequip identical replacement parts. Use of any other parts will void the warranty.
- ✓ Use the right product for the job. There are certain applications for which the Bottle Jack was designed. Do not modify the Bottle Jack and do not use the Bottle Jack for a purpose for which it was not intended.

ASSEMBLY, OPERATION & PREVENTATIVE MAINTENANCE

1. FEATURES

The Tradequip 2051T Air Actuated Hydraulic Bottle Jack is designed to operate either manually or pneumatically for lifting and lowering, but not sustaining load. The manual function allows for normal operation anywhere, even without an air supply.

This unit provides enough lifting power for use with farm vehicles, heavy duty machinery, industrial construction equipment and more.

2. BEFORE USE

Conduct a thorough visual inspection checking for any abnormal conditions, such as cracked welds, and damaged, loose, or missing parts. Bleed any trapped air from the hydraulic system by performing the air purge procedure below.

Purge Air:

Purge the hydraulic system of air. During transit the unit may become "air-bound", causing a spongy ram action. To purge the system;

1. Close the release valve (turn clockwise).
2. Manually pump the jack to full height.
3. Open the release valve and push down on the ram.
4. Repeat these steps if necessary to completely purge the system.

Check Oil Level:

1. With the jack in an upright position and the ram completely retracted, open the release valve (turn counter-clockwise) and remove the filler plug.
2. The oil level should be just up to the hole.
3. Fill if necessary with good quality hydraulic jack oil
(TQB Brands Pty Ltd recommends Penrite Hydraulic Jack Oil)

3. OPERATION

Prior to each use always conduct a visual inspection checking for and any abnormal conditions, such as cracked welds, and damaged, loose, or missing parts.

Jack operation is controlled either manually or by external air pressure. Insert the handle into the handle socket to manually operate or connect to an external air pressure source ensuring all connections are clean prior to assembly.

To Lift the Vehicle:

1. Block the vehicle's wheels for lifting stability. Secure the load to prevent inadvertent shifting and movement.
2. Position the jack near the recommended lift point.
3. Set the parking brake in the vehicle.
4. Refer to the vehicle manufacturer owner's manual to locate approved lifting points on the vehicle. Position the jack so the saddle is centred and will contact the load lifting point firmly
5. Close the release valve by turning it clockwise until it is firmly closed.
6. Manually pump the handle or while connected to an air supply depress the air valve.
7. Before raising the vehicle double check and verify the saddle is centred and also has full contact with the lifting point.

To Lower Vehicle:

1. Turn the release valve counter-clockwise to the closed position.
2. Raise load high enough to allow clearance for the jack stands to be removed, then carefully remove jack stands.
3. DO NOT get under or let anyone else under vehicle whilst lowering.
4. Turn the release valve knob SLOWLY counter clockwise to lower vehicle onto the ground.

4. MAINTENANCE

If you use and maintain your equipment properly, it will give you many years of service. Follow the maintenance instructions carefully to keep your equipment in good working condition. Never perform any maintenance on the equipment while it is under a load.

Oil Level:

The level of oil should be maintained a minimum of 6mm below filler cap. Top up with quality hydraulic ISO VG32 oil. **DO NOT** use *brake/trans fluid or engine oil*. Regularly drop oil into the air supply inlet prior to use.

Inspection: Inspect the product for damage, wear, broken or missing parts (e.g: pins) and that all components function before each use. Follow lubrication and storage instructions for optimum product performance.

Binding: If the product binds while under a load, use equipment with equal or larger load capacity to lower the load safely to the ground. After un-binding clean, lubricate and test that equipment is working properly. Rusty components, dirt, or worn parts can be causes of binding. Clean and lubricate the equipment as indicated in the lubrication section. Test the equipment by lifting without a load.

Cleaning: If the moving parts of the equipment are obstructed, use cleaning solvent or another good degreaser to clean the equipment. Remove any existing rust, with a penetrating lubricant.

Lubrication: This equipment will not operate safely without proper lubrication. Using the equipment without proper lubrication will result in poor performance and damage to the equipment. Some parts in this equipment are not self-lubricating. After cleaning, lubricate the equipment using a high grade light penetrating oil or lubricating spray.

- Use a good lubricant on all moving parts
- For light duty use lubricate once a month
- For heavy and constant use lubrication is recommenced every week.
- NEVER use sandpaper or abrasive material on these surfaces.

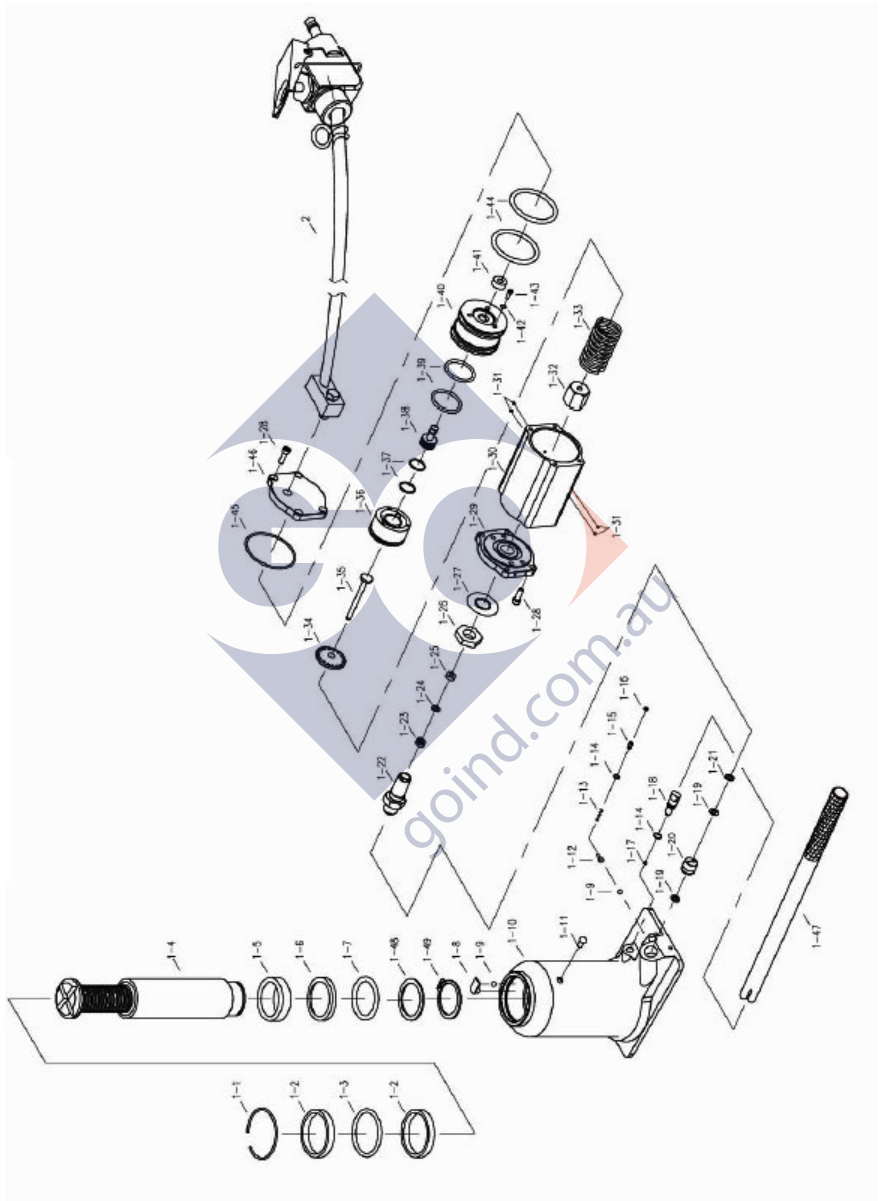
Rust Prevention: Check rams and pump plungers on the power unit assemblies daily for any signs of rust or corrosion. Without a load on the equipment extend hydraulic rams to check if signs of rust are visible, clean as needed.

 **WARNING - Top up with quality hydraulic ISO VG32 oil. DO NOT use brake/trans fluid or engine oil.**

5. SERVICE & REPAIR

Any Bottle Jack found damaged in any way, or found to be worn or operates abnormally should be removed from service until repaired by an authorised service agent. Owners and / or operators should be aware that repair of this product may require specialised equipment and knowledge. Only authorised parts, labels, decals shall be used on this equipment. Annual inspection of the Bottle Jacks is recommended and can be made by an authorised repair facility to ensure that your equipment is in optimum condition and that the equipment has the correct decals and safety labels specified by the manufacturer.

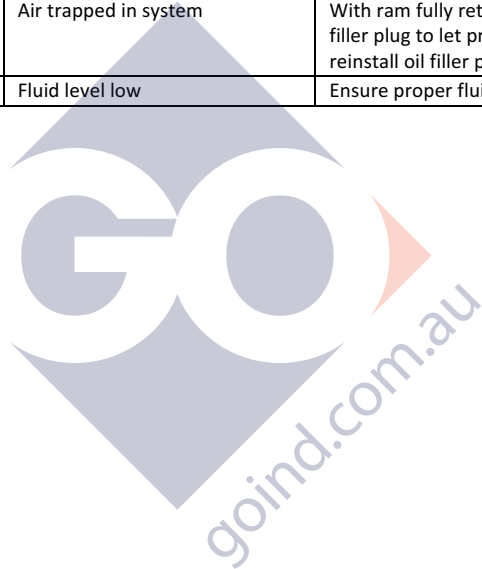
PARTS LIST



Part #	Description	QTY		Part #	Description	QTY
1-1	Snap Ring	1		1-26	Nut	1
1-2	Bushing	2		1-27	Butterfly Spring	1
1-3	O-Ring	1		1-28	Screw	8
1-4	Ram Assembly	1		1-29	Base Cover	1
1-5	Piston Ring	1		1-30	Air Motor Housing	1
1-6	Washer	1		1-31	Steel Ball	4
1-7	O-Ring	1		1-32	Nut	1
1-8	Ball Retainer	1		1-33	Spring	1
1-9	Steel Ball	2		1-34	Washer	1
1-10	Oil Pump Welding Parts	1		1-35	Air Pump Plunger	1
1-11	Oil Filler Plug	1		1-36	Air PistonBase	1
1-12	Ball Seat	1		1-37	O-Ring	2
1-13	Safety Valve Spring	1		1-38	Air Shuttle Valve	1
1-14	O-Ring	2		1-39	O-Ring	2
1-15	Pressure Adjusting Screw	1		1-40	Air Piston	1
1-16	Cap	1		1-41	Shuttle Valve Seal	1
1-17	Steel Ball	1		1-42	O-Ring	3
1-18	Release Rod	1		1-43	Screw	3
1-19	Copper Washer	2		1-44	O-Ring	2
1-20	Valve Block Assembly	1		1-45	O-Ring	1
1-21	Nylon Gasket Assembly	1		1-46	Top Cover	1
1-22	Pump Cylinder	1		1-47	Release Oil Handle	1
1-23	Y-Seal	1		1-48	O-Ring Retainer	1
1-24	Nylon Gasket	1		1-49	Snap Ring	1
1-25	Copper Washer	1		2	Air Hose Assembly	1

TROUBLESHOOTING

Problem	Cause	Solution
Jack will not lift	Release valve not tightly closed Overload condition Air supply inadequate	Ensure release valve tightly closed Remedy overload condition Ensure adequate air supply
Jack bleeds off after lift	Release valve not tightly closed Overload condition Hydraulic unit malfunction	Ensure release valve tightly closed Remedy overload condition Contact place of purchase
Jack will not lower after unloading	Reservoir overfilled Linkages binding	Drain fluid to proper level Clean and lubricate moving parts
Poor lift performance	Fluid level low Air trapped in system	Drain fluid to fluid level With ram fully retracted, remove oil filler plug to let pressurised air escape reinstall oil filler plug
Will not lift to full extension	Fluid level low	Ensure proper fluid level



WARRANTY

Tradequip products have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase.

Should the machine develop any fault, please return the complete tool to your nearest authorised warranty repair agent or contact TQB Brands Pty Ltd Warranty team – warranty@tqbbrands.com.au.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any personnel other than the authorised TQB Brands Pty Ltd repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your TQB Brands Pty Ltd guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the 12 month period.

Consumer Guarantee

Our goods come with a guarantee 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.