Superior quality since 1984

Owners Manual

22,000KG AIR ACTUATED TRUCK JACK

BORUM

INDUSTRIAL WORKSHOP EQUIPMENT

INDUSTRIAL QUALITY

Specifications:
Safe Working Capacity: 22,000kg
Minimum Height: 210mm
Maximum Height: 525mm
Hydraulic Stroke: 120mm
Adjustable Screw: 80mm
Handle Length: 1065mm
Wheel Diameter: 175mm
Operating Air Pressure: 100-120psi
Air Inlet Fitting: 1/4" x 18NPT
Nett Weight: 48kg
Carton: 660 x 360 x 280mm
Gross Weight: 50kg

About the Borum brand

Our ***"heavy duty commercial"*** range of **Borum Industrial** equipment has been manufactured to exacting standards for the past **34 years**. We specify industrial quality components and design to ensure a long and durable working life in **commercial transport, mining, earthmoving and railway** environments. Our **Borum Industrial** range of equipment is focused on achieving superior professional standards, reliability, quality, and are covered by a ***12 month trade use warranty.***

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.

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.

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

CONTENTS

STANDARD OPERATING PROCEDURE

DO NOT use this machine unless you have been trained and assessed to a competent level in its safe use and operation, and have been given permission to use this

Safety glasses must be worn when operating this equipment

Safety footwear must be worn when operating this equipment

Long loose hair must be contained when operating this equipment

Close fitting/protective clothing must be worn when operating this equipment

PRE-OPERATIONAL SAFETY CHECKS

- This Truck Jack should be used for lifting and lowering only. The raised vehicle should be supported on approved vehicle stands. No person should get any part of the body under a vehicle that is supported by this jack.
- Position the jack to only lift on the areas of the vehicle specified by the vehicle manufacturer.
- Use support stands – after lifting the vehicle always support the load with appropriately rated vehicle support stands before working on the vehicle.
- Do not overload this jack beyond its rated capacity. Overloading this jack beyond its rated capacity can cause damage to or failure of the jack.
- Use only on hard level surfaces capable of sustaining the load. Use on other than hard level surfaces can result in jack instability and possible loss of load.
- Centre load on jack saddle before lifting vehicle.
- Off centre loads and loads lifted when the jack is not level can cause loss of load or damage to the jack.
- Keep hands & feet clear of the jack hinge mechanism & ground contact area when lowering the load.

THIS JACK IS A LIFTING DEVICE ONLY & IS DESIGNED FOR LIFTING PART OF THE TOTAL VEHICLE. DO NOT MOVE OR DOLLY THE VEHICLE WHILST THE VEHICLE IS ON THE JACK.

⚠ WARNING ⚠

ENSURE WHEELS ARE CHOCKED BEFORE LIFTING. ENSURE JACK IS USED ON A HARD LEVEL SURFACE THAT CAN HOLD THE WEIGHT. ENSURE THE LOAD IS CENTRALLY LOCATED ON THE HEAD CAP. CONSULT THE VEHICLE MANUFACTURER OWNERS MANUAL PRIOR TO LIFTING THE VEHICLE TO ENSURE THE CORRECT LIFT POINT SPECIFIED BY THE VEHICLE MANUFACTURER IS USED. THIS IS A LIFTING AND LOWERING DEVICE ONLY AND IS DESIGNED FOR LIFTING PART OF THE TOTAL VEHICLE. DO NOT MOVE OR DOLLY THE VEHICLE WHILST THE VEHICLE IS ON THE JACK.

ASSEMBLY, OPERATION, PREVENTITIVE MAINTENANCE

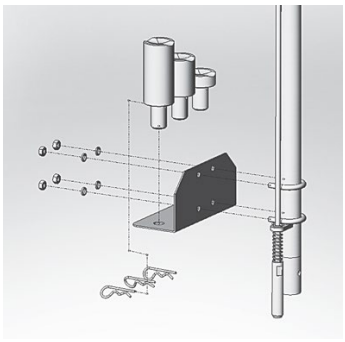
1. FEATURES & MODELS

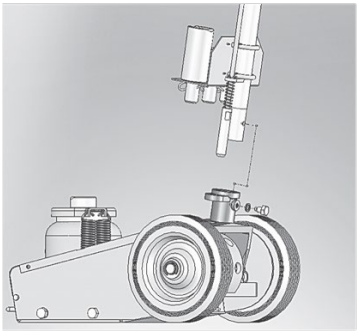
The Borum Industrial Quality Air Actuated Hydraulic Truck Jack utilises compressed air to activate a booster cylinder, to move hydraulic oil within the cylinder up & down. It adopts a heavy duty hydraulic design combination of compressed air and hydraulic pressure, to create, strong jacking capacity and low lifting clearance in one jack. This truck jack lets you really get under your loads with a 210mm minimum height. Designed to lift trucks, buses and other large commercial and agricultural vehicles with maximum stability.

2. ASSEMBLY

Assembly of Handle: After removing from the packing material, make sure the product is in perfect condition and that there are no visible damaged parts. Dispose of the packaging material responsibly.

1. Attach the height adaptor holder to the lower handle with two (2) U-bolts and nuts.
2. Tighten the nuts to secure the height adaptor holder to the handle.
3. Place the height adaptors into the adaptor holder.
4. Place the handle assembly into the handle socket and secure with bolt.





3. BEFORE FIRST USE

Conduct a thorough visual inspection checking for any abnormal conditions, such as cracked welds, and damaged, loose, or missing parts.

1. Verify that the product and the application are compatible.
2. Pour a teaspoon 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.
3. Check to ensure that the pump operates smoothly before putting into service. Replace worn or damaged parts and assemblies with manufacturer approved parts only.
4. This product is fitted with a standard 1/4" NPT air fitting. To change the fitting install a 1/4" NPT fitting of your choice, ensure the thread tape or compound is used to seal the connection.

Bleed Air from the Garage Jack:

Air can accumulate within a hydraulic system during shipment or after prolonged use. This entrapped air causes the jack to respond slowly or feel "spongy".

To remove the air:

1. Open the hydraulic system by turning the control knob anti-clockwise.
2. Depress the air actuator and pump air through the system for 15 seconds.
3. Turn control knob clockwise and unit should be bled.

4. 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.

Raising the Jack:

1. Block the vehicle's wheels for lifting stability. Secure the load to prevent inadvertent shifting and movement.
2. Position the jack on a hard and level surface near desired 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 firmly closed.
6. Connect compressed air supply to the jack. (Compressed air should be clean, dry, and regulated at 100-120psi). Install an air filter/lubricator in the workshop air-line, because water in the airline will damage the jack.
7. Before raising the vehicle, double check and verify the saddle is centred and has full contact with the specified lifting point.
8. Squeeze the air trigger to lift until the saddle contacts the load. (To stop air operation, simply release the grip on the lift control trigger). Continue to pump the jack to lift the vehicle to the desired height.
9. Always immediately position approved jack support stands under the vehicle at points that will provide stable support in accordance with the vehicle manufactures recommendations.
10. Always lower the vehicle slowly onto the jack stands by pushing the control lever to the DOWN position.
11. Carefully lower the load onto the jack support stands by turning the release valve knob on the end of the handle counter clockwise.

WARNING

Never wire, clamp or otherwise disable the lift control valve to function by any means other than by using the operator's hand. Use the handle provided with this product or an authorised replacement handle to ensure proper release valve operation. Do not use extensions on the air hose or on the operating handle.

To Lower Vehicle:

1. Raise the load by following Steps 5-9
2. Raise the vehicle high enough to allow clearance for the jack support stands to be removed by squeezing the air trigger.
3. Carefully remove the jack support stands
4. Grasp the jack handle firmly. Securely hold onto the jack handle so that your hands do not slip and ensure the release valve does not lower rapidly.
5. Carefully open the release valve by slowly turning the knob on the handle counter clockwise.
6. Once the load has been lowered, remove the jack from beneath the vehicle, fully retract the ram to minimise exposure to dirt and grime.

5. MAINTENANCE

If you use and maintain your equipment properly, it will give you many years of service. Monthly maintenance is recommended. 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.

The following steps are designed to keep the jack well maintained and operational.

Important: Dirt is the greatest single cause of failure in hydraulic units. Keep the jack clean and well lubricated to prevent foreign matter from entering the system. If the jack has been exposed to rain, snow, sand, or grit it must be cleaned before it is stored or used.

1. Only use replacement parts that are approved by the manufacturer. Disconnect the air supply before performing any maintenance operation.
2. Lubricate the ram, linkages, saddle, wheels and pump mechanism with light oil.
3. Visually inspect for cracked welds, bent, loose, missing parts or hydraulic oil leaks.
4. Any hydraulic jack found to be damaged, worn or operates abnormally must be removed from service until repaired by an authorised service representative.
5. Regularly clean all surfaces and maintain all labels and warnings.
6. Check and maintain the hydraulic ram oil level.
7. Check the ram every three months for any sign of rust or corrosion. Clean as needed and wipe with an oily cloth. When not in use always leave the saddle and ram all the way down.
8. Always store your jack in the fully retracted position. This will help protect critical areas from corrosion. Do not use brake or transmission fluids or regular motor oil as they can damage the seals.

ONLY USE HIGH QUALITY HYDRAULIC FLUID – ISO68

To Add Jack Oil:
NEVER USE BRAKE FLUID, TURBINE OIL, TRANSMISSION FLUID, MOTOR OIL OR GLYCERIN. IMPROPER FLUID WILL CAUSE PREMATURE FAILURE OF THE JACK AND THE POTENTIAL FOR SUDDEN OR IMMEDIATE LOSS OF LOAD

1. With saddle fully lowered and pump piston fully depressed, set jack in its upright level position.
2. Remove oil filler plug.
3. Fill until oil is level with the filler plug hole, reinstall oil filler plug.

Replace Jack Oil:
For best performance and longest life, replace the complete fluid supply at least once per year.

1. With the saddle fully lowered and pump piston fully depressed, remove the oil filler plug.
2. Lay jack on its side and drain the fluid into a suitable container.
3. Fill the oil case until oil level is just beneath the lower rim. KEEP DIRT AND OTHER MATERIAL CLEAR WHEN POURING.
4. Replace oil plug.
5. Perform air bleed procedure.

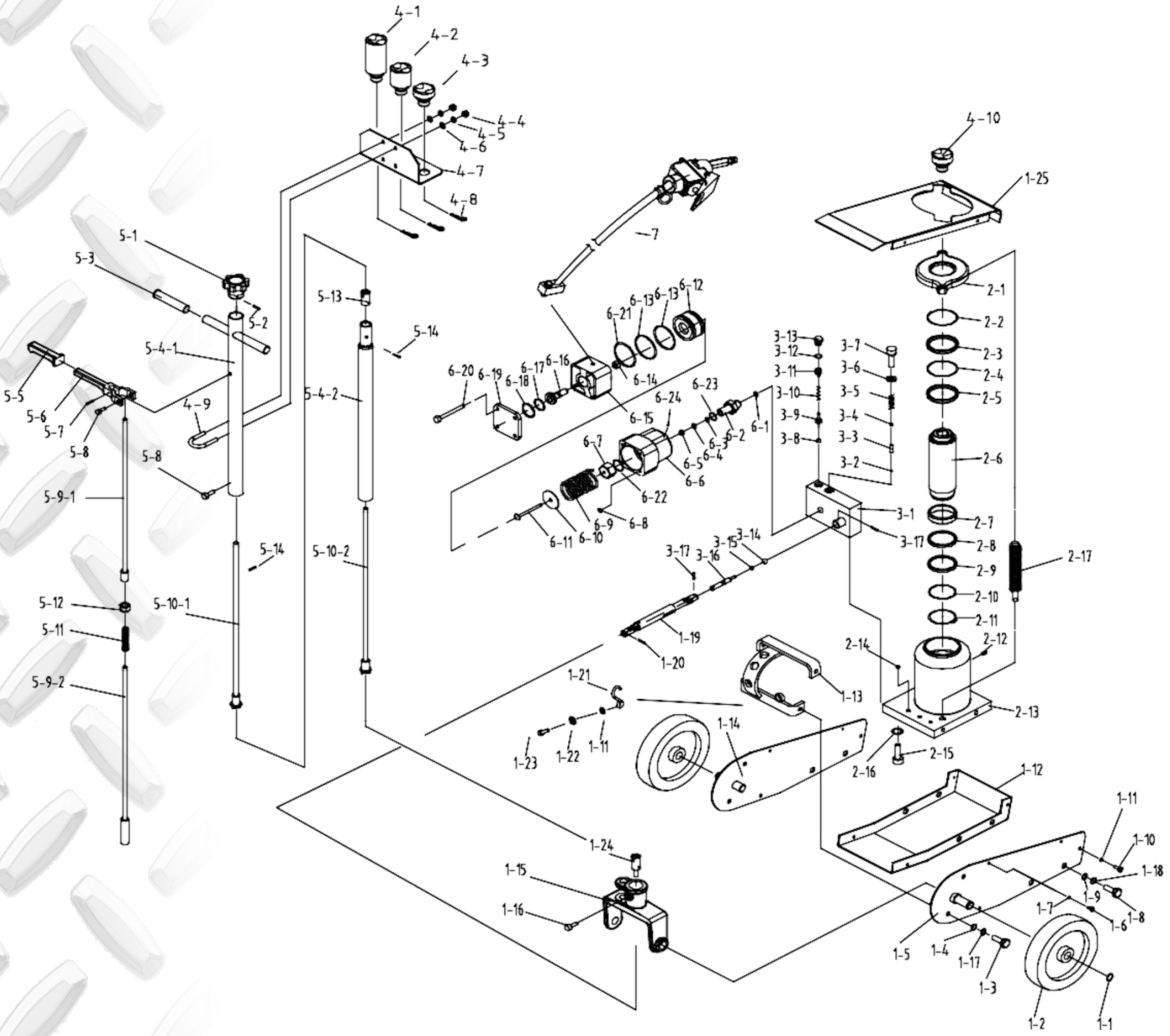
6. STORAGE

Truck Jacks should always be stored in a dry location on a level surface with the lift ram pistons in the fully retracted position, where it will not be exposed to corrosive vapours, abrasive dust, or any other harmful elements.

7. SERVICE & REPAIR

Any Truck 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 DIAGRAM



PARTS LIST

Item#	Description	Qty
1-1	Retainer Ring	2
1-2	Wheel	2
1-3	Bolt M10x16	4
1-4	Washer 10	4
1-5	Right Frame	1
1-6	Screw M5x12	4
1-7	Washer 5	4
1-8	Bolt M12x25	4
1-9	Washer 12	4
1-10	Bolt M6x12	4
1-11	Washer 6	5
1-12	Chassis	1
1-13	Base of Handle Socket	1
1-14	Left Frame	1
1-15	Handle Socket	1
1-16	Screw	1
1-17	Washer 10	4
1-18	Washer 12	4
1-19	Universal Joint Component	1
1-20	Pin 4x25	1
1-21	Fixing Ring	1
1-22	Washer 6	1
1-23	Bolt M6x15	1
1-24	Drive Head A	1
1-25	Cover Board	1

2-1	Spring Cover	1
2-2	Retainer Ring	1
2-3	Retainer Collar	1
2-4	O-ring	1
2-5	Retainer Collar	1
2-6	Piston Rod	1
2-7	Piston Ring	1
2-8	Washer	1
2-9	O-ring	1
2-10	Back Up Plate	1
2-11	Retainer Ring 48	1
2-12	Oil Plug	1
2-13	Oil Tank Assembly	1
2-14	O-ring	3
2-15	Bolt M8x25	3
2-16	Washer 8	3
2-17	Spring	2

Item#	Description	Qty
3-1	Valve Block	1
3-2	Steel Ball 6	1
3-3	Spring	1
3-4	Steel Ball 9	1
3-5	Spring	1
3-6	Copper Washer	1
3-7	Screw	1
3-8	Steel Ball 4	1
3-9	Ball Valve Seat	1
3-10	Spring	1
3-11	Screw	1
3-12	Washer	1
3-13	Screw	1
3-14	Steel Ball 6	1
3-15	Washer	1
3-16	Release Rod	1
3-17	Pin 4x16	1

4-1	Adapter D	1
4-2	Adapter C	1
4-3	Adapter B	1
4-4	Nut M8	4
4-5	Washer 8	4
4-6	Washer 8	4
4-7	Angular Bracket	1
4-8	Pin	3
4-9	U-Bolt	2
4-10	Adapter A	1

5-1	Knob	1
5-2	Pin 4x30	1
5-3	Handle Sleeve	2
5-4-1	Rear Handle	1
5-4-2	Front Handle	1
5-5	Sleeve	1
5-6	Lock Lever	1
5-7	Pin 3x25	2
5-8	Bolt M5x10	2
5-9-1	Control Rod B	1
5-9-2	Control Rod A	1
5-10-1	Convey Rod B	1
5-10-2	Convey Rod A	1
5-11	Spring	1
5-12	Bolt M8	1
5-13	Drive Head B	1
5-14	Pin 4x18	2

PARTS LIST - Cont

Item#	Description	Qty
6-1	Cooper Washer	1
6-2	Air Pump Body	1
6-3	Seal Ring	1
6-4	Nylon Collar	1
6-5	Cooper Bush	1
6-6	Air Tank	1
6-7	Bolt	1
6-8	O-ring	1
6-9	Spring	1
6-10	Washer	1
6-11	Air Pump Core	1
6-12	Piston	1
6-13	O-ring	2
6-14	Seal Ring	1

Item#	Description	Qty
6-13	O-ring	2
6-14	Seal Ring	1
6-15	Air Tank Base	1
6-16	Bleed Valve Stem	1
6-17	O-ring	1
6-18	O-ring	1
6-19	Oil Tank Cover	1
6-20	Bolt M8x75	4
6-21	O-ring	1
6-22	Washer	1
6-23	Nylon Collar	1
6-24	Steel Ball 3	3
7	Air Hose Assembly	1

TROUBLESHOOT

PROBLEM	POSSIBLE CAUSE	ACTION
Jack will not lift	• Control valve in wrong position. • Low/no oil in reservoir. • Air-locked system. • Load is above capacity of jack. • Delivery valve and/or bypass valve not working correctly. • Seals worn out or defective.	• Turn control valve knob clockwise. • Fill with oil and bleed system. • Bleed system. • Use correct equipment. • Clean to remove dirt or foreign matter. Replace oil. • Install appropriate seal kit.
Jack lifts only partially	• Too much or not enough oil	• Check oil level
Jack advances slowly	• Pump not working correctly • Leaking seals	• Install seal kit, or replace power unit • Install seal kit
Jack lifts load, but doesn't hold	• Cylinder packing is leaking • Valve not working correctly (suction, delivery, release or bypass). • Air-locked system	• Install seal kit • Inspect valves. Clean and repair seat surfaces • Bleed system as per instructions
Jack leaks oil	• Worn or damaged seals	• Install seal kit
Jack will not retract	• Control valve in wrong position	• Move Control valve to DOWN position
Jack retracts slowly	• Cylinder damaged internally	• Send jack to authorised service centre

PRODUCT INFORMATION TIPS

PRODUCT INFORMATION

How to extend the life of your Air Actuated Truck Jack

8 Top Tips

to extend the life of your TQB BRANDS TradeQuip & Borum Air Actuated Truck Jack

Models 2004T, B2003T, BTJ35TA, BTJ50TA.

1 Ensure Hydraulic oil is at correct levels.

Follow individual model owner's manual instructions for maintenance in your owner's manual provided and also available on our webpage at www.tqbbrands.com.au

Remove Filler Bung and if required, refill with SAE 32 grade Hydraulic Oil until the oil is lapping the bottom of the filler hole.

2 Regularly lubricate the Air motor.

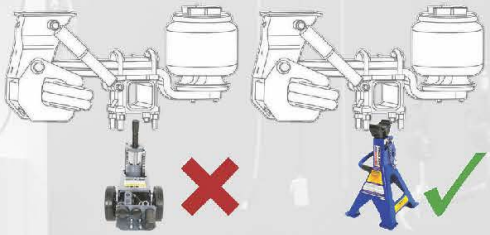
Lubrication of the Air motor is essential for smooth operation while raising a vehicle.

3 Always store in the fully lowered position.

Storage in the fully lowered position ensures the lift ram assembly and pump piston is sealed from exposure to weather fluctuations and keeps the hydraulic ram and pump seals in a relaxed condition ready to work when required.

4 Never use the Truck Jack for supporting loads.

To ensure long life of the hydraulic lift ram seals, a load must not be supported above the fully lowered position. Once a vehicle is raised it must be supported with a load appropriate vehicle stand with the jack lowered and not supporting load.

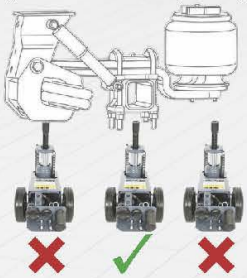


5 Use the available screw extension or solid extension inserts where applicable.

Single piston telescopic jacks have their greatest stability from the fully lowered height to 85% of total extended height. Where the lowered height of the jack is lower than the load points height from the ground the extension screws and/or solid extension inserts should always be used to close the clearance between jack and load point. This also greatly reduces the potential of lateral force.

6 Off centre loading or unbalanced loads can affect the smooth lowering & raising operation.

Always consult your vehicle manufacturer specifications for the correct lift point. Never lift from a suspension pivot or air bag mount plate where these items are designed to travel in an arc causing excess lateral force to the jack throughout its lift cycle.



7 Hazards and Obstructions.

All wheeled TQB Brands equipment must be used on smooth surface free of cracks, crevices and tripping hazards that can foul the wheels during operation or relocation.

8 Read the user Manual thoroughly and keep a copy easily accessible or visit our webpage www.tqbbrands.com.au for instructional documents & pre-start videos.

TRADEQUIP the trusted brand in equipment | TQ PRO Trusted by serious professionals | BORUM INDUSTRIAL WORKSHOP EQUIPMENT

WARRANTY

BORUM Industrial 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 this piece of equipment 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 12month 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.

TQB Brands Pty Ltd

TRADEQUIP the trusted brand in equipment

BORUM INDUSTRIAL WORKSHOP EQUIPMENT

TQ PRO EAGLE PRO RED LABEL

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