

TQ Pro

Trusted by serious professionals

OWNERS MANUAL

20,000KG
TRUCK JACK AIR ACTUATED



TRUCK JACK

**Professional
Reputable
Outstanding**

◉ **STRONG**
 ◉ **PRECISE**
 ◉ **RELIABLE**
 ◉ **WELL FINISHED**

TQ Pro
 Latest Applied Technologies
 Trusted by serious professionals



About the TQ Pro brand

TQ Pro top quality Tools and Equipment are designed and manufactured for specialist *professional use in a garage and workshop* environment. TQ Pro products are strong, reliable, and well finished for the expert tool user who appreciates professional design, reliability, and attention to detail. Covered by our **12month trade use warranty**, our TQ Pro Tools & Equipment are made with pride to deliver the best combination of professional performance, presentation, and reliability.

Working Load Limit	Minimum Height	Maximum Height	Hydraulic Lift	Adjustable Screw	Operating Air Pressure
20,000kg	215mm	541mm	141mm	85mm	145-175psi

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 **TQ Pro** policy of continuous improvement determines the right to make modifications without prior warning.

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SAFETY INSTRUCTIONS

WARNING

FAILURE TO READ THESE WARNINGS MAY RESULT IN PROPERTY DAMAGE & PERSONAL INJURY

- | | |
|--|---|
| <ul style="list-style-type: none"> • Support load by appropriate means after lifting • Do not exceed rated capacity • Centre load on the jack • Only use attachments and/or adapters supplied with or sold specifically for the jack | <ul style="list-style-type: none"> • Only lift areas of the vehicle designated by the vehicle manufacturer. • Use as lifting device only • Use only on hard, level surface • Do not modify jack |
|--|---|



SAFETY OPERATING INSTRUCTIONS

- DO NOT exceed the maximum lifting load capacity of 20,000kg.
- Only use this Truck jack on a surface that is stable, level, smooth, dry and capable of sustaining the load. Keep the surface free from unrelated materials and ensure that there is adequate lighting.
- DO NOT use on tarmac, or any other soft surface as the Truck Jack may sink or topple.
- Vehicle must be properly and adequately supported with AS Approved Support Stands immediately after the lift and before commencing work with this Truck Jack.
- Always centre the load on the saddle of this Truck Jack and be sure the vehicle is stable before raising or lowering.
- DO NOT operate this Truck Jack when you are tired or under the influence of alcohol, drugs or any intoxicating medication.
- DO NOT allow untrained persons to operate this product and DO NOT make any modifications to this product.
- DO NOT tamper with the safety valve.
- DO NOT use brake fluid or any other improper fluid to refill or top up the hydraulic system of this Truck Jack. Only use good quality hydraulic jack oil.
- DO NOT expose the Truck Jack to rain or any other kind of inclement weather.
- Use a qualified person to maintain the Truck Jack in good condition. Keep the Truck Jack clean for best and safest performance.
- Use approved personal protection safety equipment such as eye protection, non skid boots, full face impact shield and heavy duty work gloves. Keep proper footing and balance, do not overreach.
- This Truck Jack should be used for lifting and lowering only. The raised load should be supported on approved support stands. No person should get any part of the body under a load that is supported by this jack.
- Position the jack to only lift on the areas of the load specified by the vehicle manufacturer.
- Use support stands – after lifting the load always support the load with appropriately rated support stands before working on the load.
- 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.
- Keep hands & feet clear of the jack hinge mechanism & ground contact area when lowering the load.
- NEVER LIFT THE LOAD OFF AIRBAG BRACKETS. ALWAYS LIFT OFF AN AXLE OR CHASSIS LIFT POINT

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



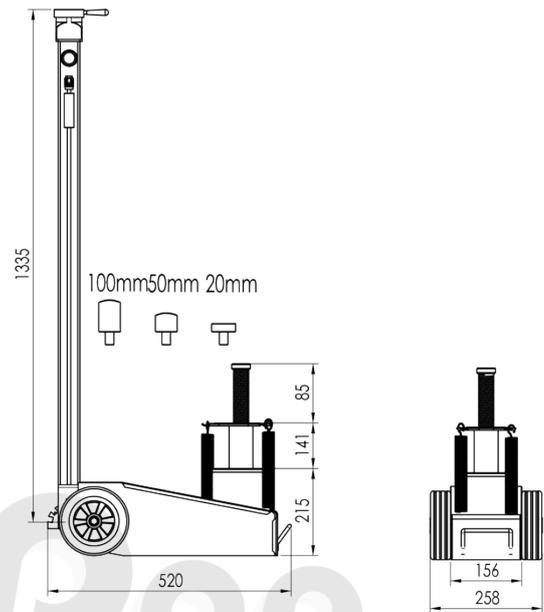
ASSEMBLY, OPERATION & PREVENTATIVE MAINTENANCE

1. FEATURES

The TQ Pro Air Actuated Hydraulic Garage Jack is designed to operate either manually or pneumatically for lifting and lowering, but not sustaining load. This 20,000kg Heavy-Duty Air/Hydraulic Bottle Jack is the perfect choice for a wide variety of uses. The power of air makes it easy to lift farm vehicles, trucks, lawn mowers, heavy equipment and other large loads. The manual function allows for normal operation anywhere, even without an air supply. These strong, reliable and well finished jacks are carefully constructed from the highest grades of rugged steel. The super strong hydraulic pump utilises wear-resistant American Made XTP double sealing ring technology. Only the finest quality of Hydraulic Oil is used that has been tested from -25°C - 60°C.

FEATURES

- American made seals
- Double Sealing Function using XTP Industry Sealing
- Telescopic air actuation lift (air-hydraulic pump)
- Long T-handle lets you easily position your jack under vehicle
- Self-Returning Lowering and Lifting Switch
- Internal and External Cylinders hard chromed
- High manoeuvrability & deep reach under vehicles
- Extension adaptors / saddle plates
- Large rubber wheels

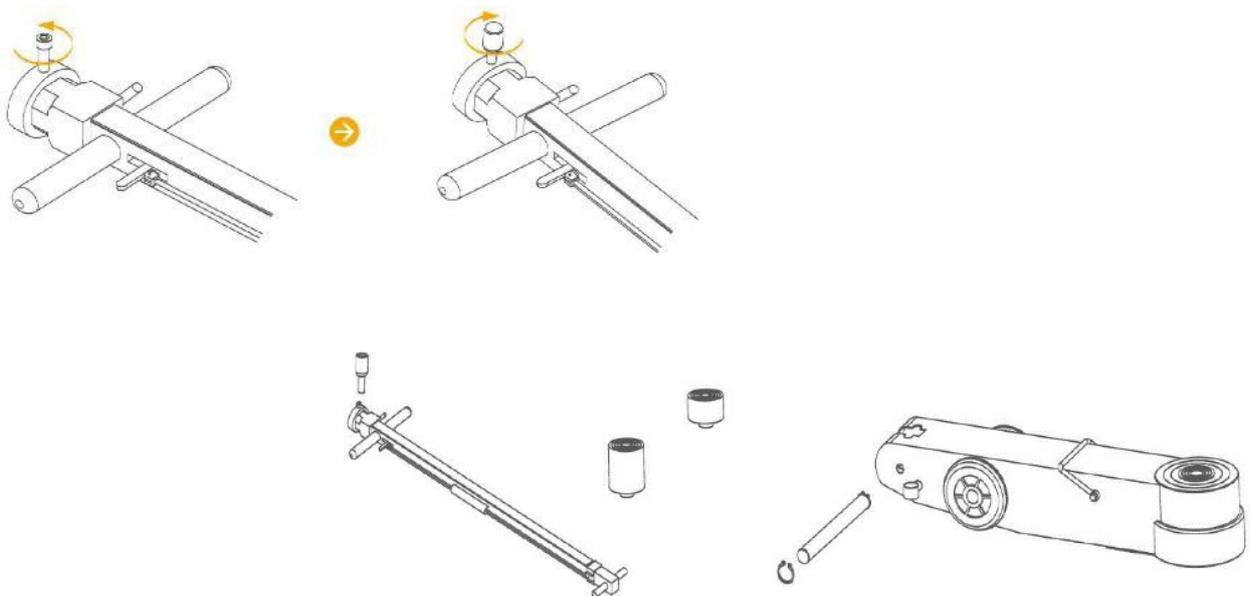


2. ASSEMBLY

Step 1:

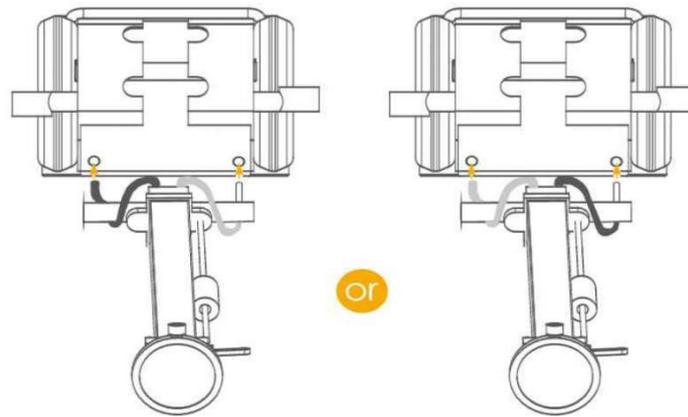
Screw toggle (taped to bottom of carton with handle in) into the top of the handle.

Remove axle from rear of jack.



Step 2:

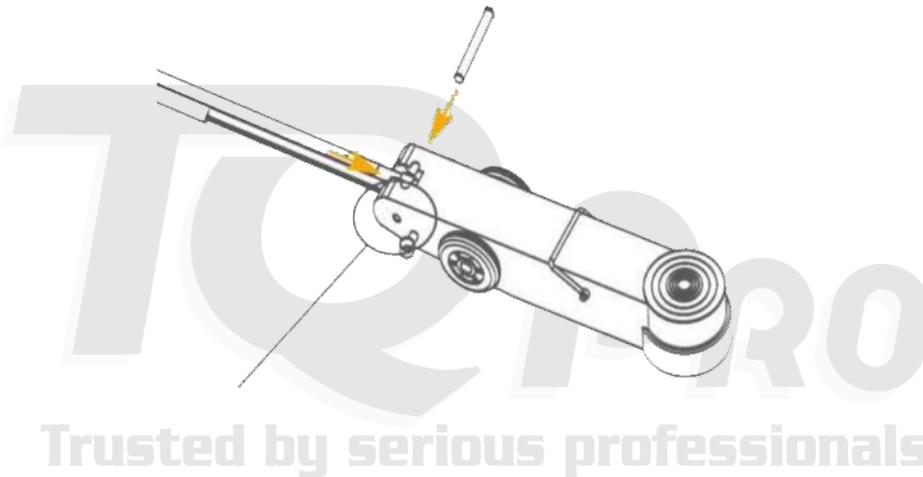
Insert hoses from Handle into rear of jack as pictured below.



Step 3:

Insert handle base into slot and thread axle through jack and handle.

Lock in place with circlip

**PLEASE NOTE:**

TO LOWER THE JACK, THE SAME AMOUNT OF FREE AIR FLOW IS REQUIRED AS WHEN LIFTING

3. BEFORE USE

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

- Consult the vehicle owner's manual to determine the location of lift points.
- Be sure to set the vehicle in park with the emergency brake on and wheels securely chocked.
- Be sure that the vehicle and the jack are on a hard, level surface.



4. OPERATION

1. This jack is equipped with a handle position lock. To adjust the handle, release the lock device by pulling the lever up. The lever is spring loaded so, so it should lock into the desired position.
2. Make sure the jack and load are on a hard level surface.
3. Always set the vehicle parking brake and block the wheels.
4. Check the placement of the jack. The load must be centred on the jack saddle. Avoid jack wheel obstructions such as gravel, tools, or uneven expansion joints.
5. Position the jack under the load using the manufacturer's recommended lifting points on the chassis.
6. Connect compressed air supply to the jack. (Compressed air should be clean, dry, and regulated at 120-170psi). Install an air filter/lubricator in the workshop air-line, because water in the airline will damage the jack.
7. Rotate the lever RIGHT to the UP position. (To stop air operation, simply release the grip on the lift control trigger). Continue to pump the jack until the head cap reaches the load.
8. Before raising the load, double check and verify the saddle is centred and has full contact with the specified lifting point.
9. Rotate the lever RIGHT to the UP position (To stop air operation, simply release the grip on the lift control trigger). Continue to pump the jack to lift the load to the desired height.
10. Always immediately position approved support stands under the load at points that will provide stable support in accordance with the vehicle or load manufactures recommendations.
11. Always lower the load slowly onto the support stands by rotating the lever LEFT to the DOWN position.
12. Carefully lower the load onto the support stands by rotating the lever to the DOWN position

Lowering the load

1. Raise the load by following Steps 2-9
2. Raise the load high enough to allow clearance for the support stands to be removed by rotating the lever to the Right UP position.
3. Carefully remove the 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 rotating the LEVER to the LEFT DOWN position.
6. Once the load has been lowered, remove the jack from beneath the load, and fully retract the ram to prevent exposure to dirt and grime.

5. INSPECTION

- Prior to each use conduct a visual inspection checking for abnormal conditions, such as cracked welds, leaks, and damaged, loose, or missing parts.
- The jack shall always be maintained in accordance with the maintenance instructions (Section 7). No alterations or modifications shall be made to this Jack.
- Inspections shall be performed in accordance with this owner's manual.
- The jack must be inspected immediately if it is believed to have been subjected to abnormal load or shock.
- Owners and /or operators should be aware that repair of this product may require specialised equipment and knowledge (refer to maintenance section).

6. STORAGE

This jack 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. MAINTENANCE

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.

- Only use replacement parts that are approved by the manufacturer. Disconnect the air supply before performing any maintenance operation.
- Lubricate the ram, linkages, saddle, wheels and pump mechanism with light Hydraulic oil.
- Visually inspect for cracked welds, bent, loose, missing parts or hydraulic oil leaks.
- Any hydraulic jack found to be damaged, worn or operates abnormally must be removed from service until repaired by an authorised service representative.
- Regularly clean all surfaces and maintain all labels and warnings.
- Check and maintain the hydraulic ram oil level.
- Check the ram every three months for any sign of rust or corrosion. Clean as needed and wipe with a clean oily cloth. When not in use always leave the saddle and ram all the way down.
- 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

TROUBLESHOOTING

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. Not enough air pressure	<i>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. Ensure constant air delivery of above 120psi</i>
Jack lifts only partially	<ul style="list-style-type: none"> • Too much or not enough oil 	<ul style="list-style-type: none"> • <i>Check oil level</i>
Jack advances slowly	<ul style="list-style-type: none"> • Pump not working correctly • Leaking seals 	<ul style="list-style-type: none"> • <i>Install seal kit, or replace power unit</i> • <i>Install seal kit</i>
Jack lifts load, but doesn't hold	<ul style="list-style-type: none"> • Cylinder packing is leaking • Valve not working correctly (suction, delivery, release or bypass). • Air-locked system 	<ul style="list-style-type: none"> • <i>Install seal kit</i> • <i>Inspect valves. Clean and repair seat surfaces</i> • <i>Bleed system as per instructions</i>
Jack leaks oil	<ul style="list-style-type: none"> • Worn or damaged seals 	<ul style="list-style-type: none"> • <i>Install seal kit</i>
Jack will not retract	<ul style="list-style-type: none"> • Control valve in wrong position • Air Pressure too low 	<ul style="list-style-type: none"> • <i>Move Control valve to DOWN position</i> • <i>Ensure constant air delivery of above 120psi</i>
Jack retracts slowly	<ul style="list-style-type: none"> • Cylinder damaged internally 	<ul style="list-style-type: none"> • <i>Send jack to authorised service centre</i>

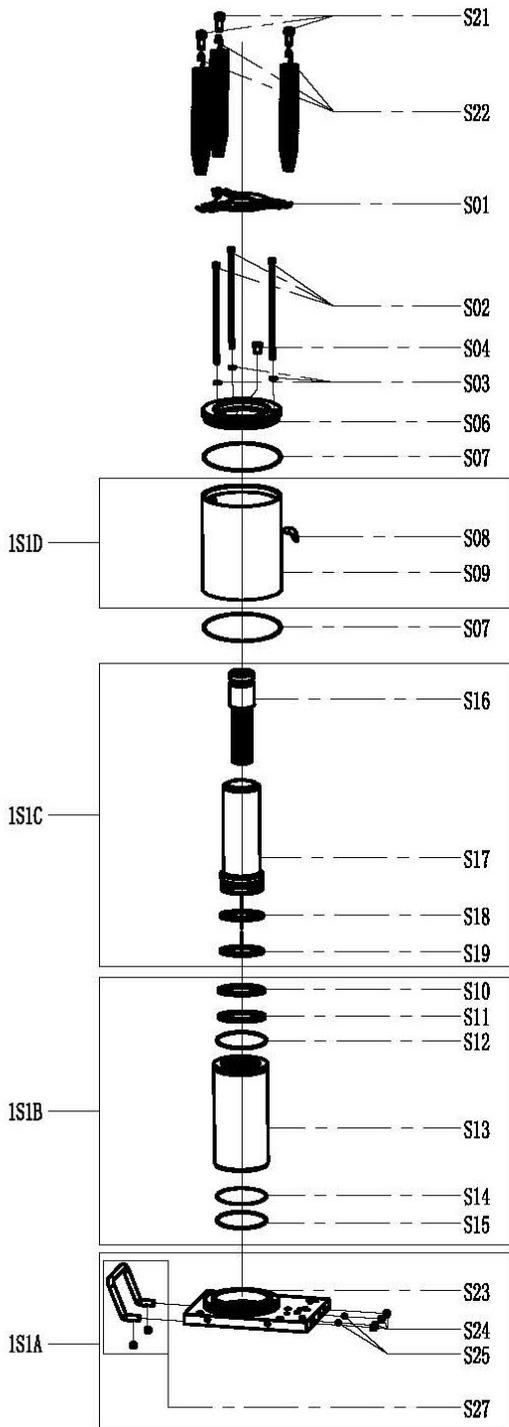
PLEASE NOTE:

TO LOWER THE JACK, THE SAME AMOUNT OF FREE AIR FLOW IS REQUIRED AS WHEN LIFTING

8. SERVICE & REPAIR

Any **TQ Pro** 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.

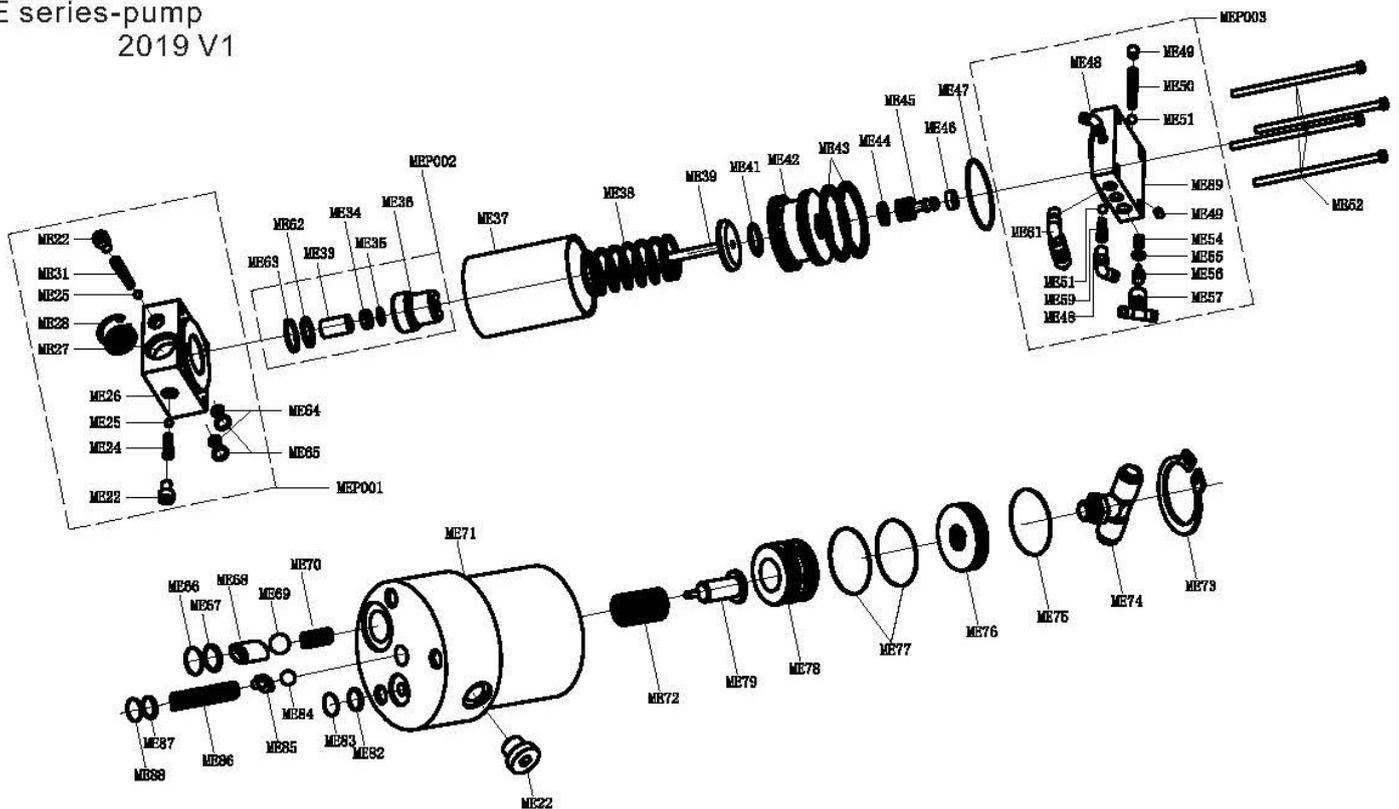
PARTS DIAGRAM



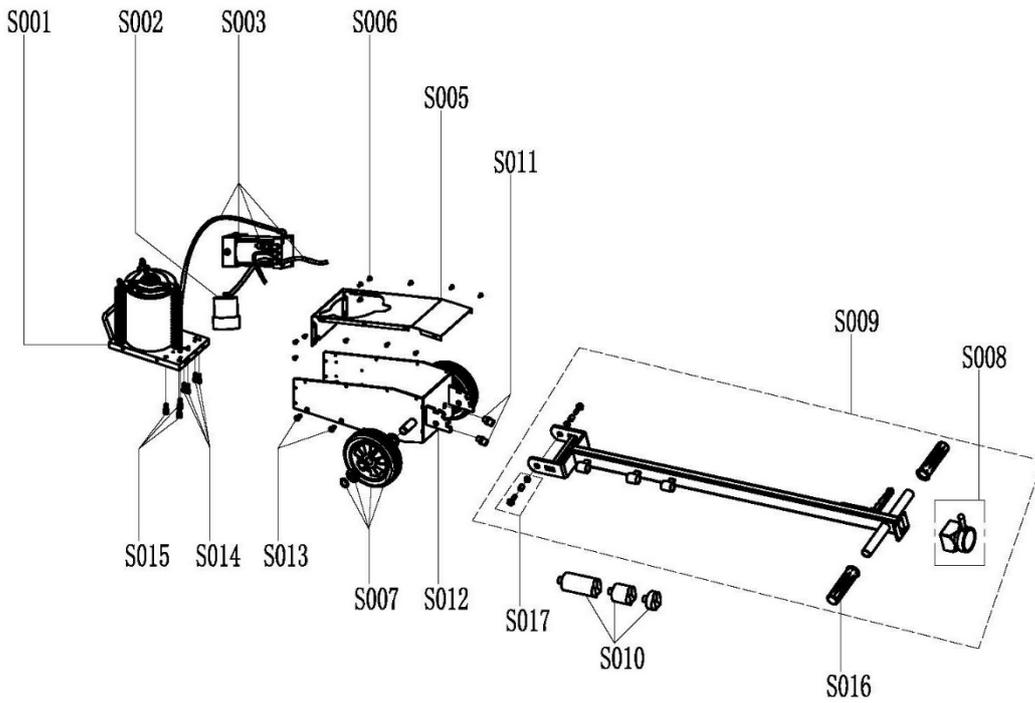
Cylinder			
Assy No.	Part No.	Description	Qty
/	S21	Screw	3pcs
/	S22	Spring	3pcs
/	S01	Cap	1pc
/	S02	Screw	3pcs
/	S04	Screw Nut	1pc
/	S03	Spacer	3pcs
/	S06	Oil Tank Cap	1pc
/	S07	O Ring	2pc
1S1D	S08	Oil Tank Assy	1set
	S09		
1S1C	S16	Piston Assy	1set
	S17		
	S18		
	S19		
1S1B	S10	Outer Sleeve Assy	1set
	S11		
	S12		
	S13		
	S14		
	S15		
1S1C	S23	Base Assy	1set
	S24		
	S25		
	S26		
	S27		
1S1E	S07/S18/S19/S10/S11/S12/S14/S15	Seal Kits	1set

S20-1-cylinder
2019 V1

E series-pump
2019 V1



Pump								
Part No.	Description	Qty	Part No.	Description	Qty	Part No.	Description	Qty
ME22	Screw Nut	3pcs	ME48	Tie In	2pcs	ME71	Oil Drain Valve	1pc
ME24	Spring	1pc	ME49	Screw Nut	2pcs	ME72	Spring	1pc
ME25	Steel Ball	2pcs	ME50	Spring	1pc	ME73	Clamp	1pc
ME26	Check Valve	1pc	ME51	Rubber Ball	2pcs	ME74	Tie In	1pc
ME27	Silencer Piece	1pc	ME52	Screw	4pcs	ME75	O Ring	1pc
ME28	Clamp	1pc	ME54	Spring	1pc	ME76	End Cover	1pc
ME31	Spring	1pc	ME55	O Ring	1pc	ME77	O Ring	2pcs
ME33	Guilde Bushing	1pc	ME56	Piston	1pc	ME78	Oil Drain Piston	1pc
ME34	B3	1pc	ME57	Tie In	1pc	ME79	Oil Drain Bolt	1pc
ME35	Spacer	1pc	ME59	Spring	1pc	ME82	Locking Ring	1pc
ME36	Plunger Bushing	1pc	ME61	safety valve	1pc	ME83	O Ring	1pc
ME37	Air Cylinder	1pc	ME62	O Ring	1pc	ME84	Steel Ball	1pc
ME38	Spring	1pc	ME63	Locking Ring	1pc	ME85	Screw Nut	1pc
ME39	Plunger Rod	1pc	ME64	O Ring	2pcs	ME86	Spring	1pc
ME41	O Ring	1pc	ME65	Locking Ring	2pcs	ME87	Locking Ring	1pc
ME42	Piston	1pc	ME66	O Ring	1pc	ME88	O Ring	1pc
ME43	OA	2pcs	ME67	Locking Ring	1pc	ME89	Air Inlet Base	1pc
ME44	Z8 Seal	1pc	ME68	Steel Ball Bulkhead	1pc	MEP001	check valve assy	1set
ME45	Piston	1pc	ME69	Steel ball	1pc	MEP002	oil pump assy	1set
ME46	Rubber Cap	1pc	ME70	Spring	1pc	MEP003	air inlet valve assy	1set
ME47	O Ring	1pc						



Main		
Part No.	Description	Qty
S001	Oil Cylinder Assy	1set
S002	Oil Drain Valve Assy	1set
S003	Pump Assy	1set
S005	Tank Cover	1pc
S006	Screw	12pcs
S007	Wheel Assy	2sets
S008	Switch Assy	1set
S009	Handle Assy	1set
S010	Extension	3pcs
S011	Tie In	2pcs
S012	Tank	1set
S013	Screw	4sets
S014	Screw	4sets
S015	Screw	3sets
S016	Handle Grip	2pcs
S017	Screw Sets	2sets

S20-1-Main
2019 V1

PRODUCT INFORMATION TIPS

PRODUCT INFORMATION

How to extend the life of your Truck Jack

8 Top Tips

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

1 Ensure Hydraulic oil is at correct levels.



Follow the PROTRJA20T owner's manual instructions for maintenance, also available as a download on our webpage at www.tqbbrands.com.au

2 Regularly lubricate the Air motor.

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

Air motors require a minimum of 20ml of a suitable lubricant such as SAE 32 Grade Hydraulic Oil or Air Tool Lubricant at weekly intervals dependant on usage where daily/constant use may require lubrication to occur more frequently, please apply directly into the air trigger mechanism air supply coupling.



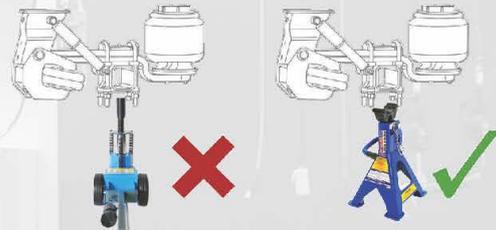
3 Always store in the fully lowered position.

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 Truck Trolley 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.



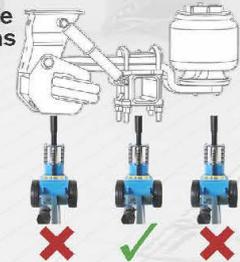
5 Use the available screw extension or solid extension inserts where applicable.

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 Always consult your vehicle manufacturer specifications for the correct lift point.

Off centre loading or unbalanced loads can affect smooth lowering and 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.



WARRANTY

TQ Pro 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.



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