



TIRE SERVICE INTERNATIONAL

TJ-110 & TJ-110W Lift Jack

buyTSI.com - 800.223.4540

LIFTING CAPACITY w/available air - approximately

P.S.I.G. at unit lift capacity	LBS
50	5650
60	6760
70	7900
80	9000
90	10100
100	11300
110	12400
120	13500
130	14600
140	15800
150	16900
160	18000
170	19200
180	20300
190	21400
200	22500



TJ-110W

Same jack, but with wheels



TJ-110
without wheels



READ INSTRUCTIONS THOROUGHLY BEFORE OPERATING

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Revised: June 2026

General Description

The **TJ-110 Lifting Jack** has a 11 ton lifting capacity and is ideal for lifting larger Off-Highway and heavy farm equipment. The model TJ-110W includes a wheel mount to ease movement.

Both work great on trucks and trailers. The included extension increases lifting range without the need for blocks. Both are built with dependability and safety in mind. The large saddle help to minimize slippage while the large base increases stability. An aluminum cylinder decreases the overall weight of the unit. Both are equipped with a 3-way valve for fast action.

Safety Requirements

1. DANGER - SERIOUS BODILY HARM OR DEATH CAN RESULT WITH IMPROPER USE OF THIS PRODUCT
2. READ THIS MANUAL BEFORE OPERATING
3. SAFETY GLASSES ARE REQUIRED
4. Do not wear loose clothing
5. Limit air supply to a maximum air pressure of 200 PSI

Major Components



Set-Up Instruction

WARNING: Due to the danger of lifting heavy objects **CAUTION** must be used when lifting vehicles with these jacks.

- Use wheel chocks to make sure vehicle cannot move when lifted.
- Prepare a clean, level surface with adequate room to maneuver.
- Make sure lift base is set firmly on a stable foundation to avoid sliding or wobble.
- Make sure the jack is lifting straight up and not at an angle.
- If additional height is needed, install the Extension Tube with the Lift Saddle on top.
- The Pins must pass completely through each pair of holes (at desired location) in the Cylinder Sleeve and the Lift Saddle. This includes Extension Tube usage. The Lift Saddle can extend upward and lower holes through it can be used, but always maintain using the Lift Pin in the highest location in the Cylinder Sleeve.



- Connect an air supply with a maximum pressure of 200 PSI to the 3-way valve using a sealant to install air inlet fitting.
- The yellow arrows indicate the valve lever can pivot in either direction to either put air into or take air out of the cylinder, thus giving the jack lifting power and bleeding the air out of the cylinder to allow a controlled lowering of the vehicle.



Operating Instructions

- ALWAYS insert both pins through the holes on both sides. The lower pin must be in the lowest hole for safety.
- DO NOT use Lift Saddle in Cylinder Sleeve without a Lift Pin. However, the Lift Saddle can be used in the Extension Tube without a Lift Pin.
- The top Lift Pin and Lift Saddle is then used at the desired hole location in the Extension Tube but still must rest in the top 'half-hole' of the Cylinder Sleeve.
- Make sure the Lift Saddle is contacting the vehicle frame securely and will not slip due to excessive angle or oil on frame.
- Raise cylinder slowly and monitor the status of both the load and jack. Stop if any movement is seen that would cause an unsafe situation.
- When the total height is reached, insert Lift Pin to lock the Cylinder Sleeve in position .
- Install a pair of safety stands to secure the load.
- Slowly release the air to lower the load onto the stands, making sure the stands are solid and the load is not moving to cause an unsafe situation.
- When done, raise the load slightly, remove the stands and then lower the load slowly.



Maintenance Instructions

- Apply chassis grease to Zerk fitting on Cylinder cap once a week under normal use. This will allow Cylinder Sleeve to slide freely
- Evaluate the air hose as necessary and check for leaks on a regular basis.
- If lifting ability of jack begins to show signs of fading, please do the following:

1. Remove any load and any air pressure from the jack.
2. Remove air valve from air hose.
3. Remove the top cylinder cap by removing bolts that assemble the top cap to the cylinder tube. Lightly tap the cap to help in the removal, but be careful not to damage it.
4. **WARNING: DO NOT APPLY AIR PRESSURE TO REMOVE CAP. THIS CAN RESULT IN INJURY OR DEATH FROM THE FORCE OF THE CAP FLYING OFF.**
5. Remove piston and rod assembly.
6. Remove wear ring and piston cup.
7. Clean out internal wall of cylinder. Wash out with a solvent and use steel wool if necessary.
8. Inspect all parts for wear or breakage.
9. Liberally grease internal surfaces of cylinder wall with chassis grease.
10. Re-assemble unit.
11. **NOTE:** Wear ring will be split and appear in a long straight length. This is normal and it is not broken.



Replacement Parts

Part Number	Model	Description
218	Both	Valve, Air Control
1840	TJ-110W	Pin, Spring 1/4 x 2
3179	Both	Piston
3182	Both	Piston Cup 12" rubber
3183	Both	Grip 3/4 x 4.5 Black (single)
3184	Both	Guide Ring Material .187 x 37"
3189	Both	Pin, Lift
3488	Both	Air Hose 1/4 ID Hose, 1/4 x 1/8 male ends x 72" length
5525	Both	Piston Tube
5526	Both	Lift Saddle
5527	Both	Extension Weldment

Optional Parts

Part Number	Model	Description
16219	Both	52" extension for taller vehicles

Notes

California Proposition 65

California's Proposition 65 entitles California consumers to special warnings for products that contain chemicals known to the state of California to cause cancer and birth defects or other reproductive harm if those products expose consumers to such chemicals above certain threshold levels.

WARNING: Some of Tire Service International's products can expose you to chemicals including chromium compounds, which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Your risk from exposure to these chemicals varies, depending on exposure time. To reduce your exposure, work in a well-ventilated area and with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Wash your hands after touching TSI's products.

Warranty and Return Policy

Warranty & Workmanship you can depend on.

With over 30 years of manufacturing experience we maintain the ability to provide competitive prices while employing and manufacturing the majority of our products in the USA. Pride in our workmanship and standing behind each and every product is not just our claim but our uncompromising responsibility.

Tire Service International equipment is warranted to be free from defects in materials and workmanship for a period of one year from the date of original purchase to the original owner. Repair labor is warranted for 90 days from the date of original purchase. Bushings, blades, bearings and normal wear and tear are not covered under warranty. Careless handling, negligence, misuse, abuse, mutilation, improper operation, making unauthorized repairs, additions, and or alterations automatically cancel this warranty and relieves TSI of any obligation. Cheetah tanks claimed to be defective while under warranty will be evaluated at our manufacturing plant and either repaired if possible or exchanged and returned or credit issued to the customer account at our discretion. Damage resulting from dropping the tanks will not receive warranty consideration. Warranty parts need to be returned prepaid to the plant for credit. Any replacement parts shipped from the plant will be shipped at the customer's expense. Machines requiring warranty work must be brought to the manufacturing plant in 201 Chelsea Rd, Monticello, MN or to a repair facility authorized by TSI.

!!WARNING!! Goods returned without an RGA will be refused. A Returned Goods Authorization form must be obtained before returning any material or goods. All non-warranty returns will be subject to a 15% restocking fee plus any additional charges for reconditioning/repacking.

Visit www.buyTSI.com for any additional information. Also be sure to follow us on all the Socials, and subscribe to our YouTube channel for all our product videos.

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