A4

3 TON OFF-ROAD JACK

JGG-3T-ORJ

Operation Manual

Make sure to read and fully understand the instruction manual before using this product and keep the manual properly

1 General Description

Product Description

Hydraulic trolley jack is designed to lift, but not support, one end of a vehicle. Immediately after lifting, loads must be supported by a pair of appropriately rated jack stands.

Specifications

Capacity	2 TON	3 TON
Min Height（W/O Height Extension）	155mm	155mm
Min Height（W/T Height Extension）-1ST Step	285 mm	290 mm
Min Height（W/T Height Extension）-2nd Step	315 mm	320 mm
Max Height（W/O Height Extension）	455 mm	540 mm
Max Height（W/T Height Extension）-1ST Step	585 mm	680 mm
Max Height（W/T Height Extension）-2nd Step	615 mm	710 mm
Length	770mm	810mm
Net Weight	27 KGS	37.2 KGS

2 Safety Information

Important: Read these instructions carefully, NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS JACK CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. Failure to do so may cause damage or personal injury and will invalidate the warranty. Retain THESE INSTRUCTIONS for future use

To avoid personal injury or property damage during operation, read and follow all CAUTIONS, WARNINGS, and INSTRUCTIONS, included with or attached to each product.

WE CANNOT BE RESPONSIBLE FOR DAMAGE OR INJURY RESULTING FROM UNSAFE USE OF PRODUCT, LACK OF MAINTENANCE, OR INCORRECT PRODUCT AND SYSTEM APPLICATION.
Contact us when in doubt as to safety precautions or applications.

WARNING

2.1 Locate the jack in a suitable working area.
2.2 Inspect the jack before each use. Do not use jack if damaged, altered, modified, in poor condition, leaking hydraulic fluid, or unstable due to loose or missing hardware or parts. Make corrections before using
2.3 Use jack on level and solid ground, preferably concrete. Avoid tar macadam as jack may sink in. Chock wheels of vehicle.
2.4 Ensure the vehicle handbrake is engaged, engine is switched off and transmissions in gear (or "PARK" if automatic).
2.5 Ensure minimum distance of 0.5m between vehicle and static objects such as doors, walls, etc, to allow for vehicle tilting.
2.6 Ensure all non-essential persons keep a safe distance whilst the jack is in use.
2.7 Ensure there no passengers in the vehicle.
2.8 Place jack under only those lifting points recommended by vehicle manufacturer (see vehicle handbook)
2.9 Check that the lifting point is stable and centered on the jack saddle.
2.10 Ensure the jack wheels are free to move and that there are no obstructions.
Danger : Use the jack for lifting only
2.11 Ensure there are no persons or obstructions beneath the vehicle before lowering.
2.12 Use suitable axle stands under the vehicle before proceeding with any task.
2.13 Use a qualified person to lubricate and maintain the jack.
2.14 Wear ANSI-approved safety goggles and heavy-duty working gloves during use.
2.15 Ensure that only hydraulic jack oil is used in the jack.
DO NOT operate the jack if damaged.
DO NOT allow untrained persons to operate the jack.
DO NOT exceed the rated capacity of the jack.
DO NOT allow the vehicle to move during lifting or lowering, or use the jack to move the vehicle.
DO NOT jack vehicle if there is a risk of spillage of fuel, battery acid, or other dangerous substances.
DO NOT work under the vehicle until appropriately rated axle stands have been correctly which it is intended
DO NOT fill hydraulic system with brake fluid, alcohol or transmission oil. Use hydraulic jack oil only.
DO NOT adjust the safety overload valve
DO NOT use for aircraft purposes
2.16 When not in use store jack, fully lowered, in a safe, dry, childproof location.
2.17 The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors, which cannot be built into this product, but must be supplied by the operator.

3 Assembly

3.1 Important Receiving Instructions

Visually inspect all components for shipping damage. If any shipping damage is found, notify carrier at once. Shipping damage is NOT covered by warranty. The carrier is responsible for all repair or replacement cost resulting from damage in shipment.

3.1.1 Check the parts in the carton.

Visually inspect all components for any missing parts or damage. Refer to **Fig. 1**

Packing list

No.	Description	Qty
1	Jack Body	1
2	Saddle Extension	1
3	Handle tube 1	1
4	Handle tube 2	1

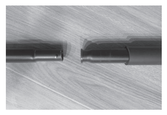
Fig 1

3.2 Assembly

3.2.1 The jack comprises the following parts, Jack body, Two-part pumping handle
3.2.2 Insert the upper handle into the lower handle. Secure the two pieces together with the lock pin (A).

(1) Handle tube 4

（2）Press the lock pin from handle

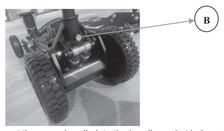


（3）Insert the upper tube

Fig. 2

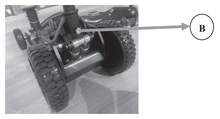
3.2.3 The handle socket is pressed down and supported by nylon supporting block in the package during transportation. Before assembling, please take out the nylon supporting block.

3.2.4 Undo the screw(B) in the handle socket, until it no longer protrudes into the handle socket



3.2.5 Insert the pump handle into the handle socket hole completely.

3.2.6 Ensure that the handle is correctly inserted into the socket, then tighten the handle socket screw (B). Please make sure that the handle can be turn smoothly.



4. Hydraulic System Purging

4.1 Open the release valve by turning it two full turns counter-clockwise.
4.2 Pump the handle four full strokes minimum quickly.
4.3 Close the release valve by turning it clockwise.
4.4 Pumping the handle with full strokes to check if it can reach the maximum height by ten pumps.

If it can't reach the maximum height by ten pumps, please refer to the following special purging process:

4.5 Open the release valve by turning counter-clockwise and lower the lifting arm to the minimum height.
4.6 Put the jack on a flat working table, lift the front part of the jack to make sure the front part is at least 500mm higher than the end part of the jack. See the following picture.
4.7 Pump the handle four full strokes minimum quickly.
4.8 Put the jack on a flat surface and close the release valve by turning it clockwise.
4.9 Pumping the handle with full strokes to check if it can reach the maximum height by ten pumps, if not please repeat the special purging process again.

5. Operating Instructions

Warning! Before use ensure you have read, understood section 1 safety instruction.
IMPORTANT: Before use, the operator is to visually inspect the jack for cracked welds, damaged or missing parts or hydraulic leak.

The owner and/or operator shall have an understanding of the product · its operating characteristics · and safety operating instructions before operating the Jack. Safety information shall be emphasized and understood. If the operator is not fluent in English · the product and safety instructions shall be read to and discussed with the operator in the operator's native language by the purchaser/owner or his designee · making sure that the operator comprehends their contents.

5.1 Raising a Vehicle
5.1.1 Ensure that the jack and the vehicle are on a hard, level surface.
5.1.2 Always ensure that the vehicle handbrake is engaged and that the vehicle wheels are chocked.
5.1.3 Consult the vehicle manual to determine the location of jacking points. Position the jack under a suitable lifting point.
5.1.4 Turn the handle clockwise, to close release valve. **DO NOT** over-tighten.
5.1.5 Raise the vehicle to the desired height by pumping the handle up and down.
5.1.6 Place axle stands beneath the locations recommended by the vehicle manufacturer.
5.1.7 Turn the release valve slowly counter-clockwise to lower the vehicle on to the axle stands.
5.2 Lowering a Vehicle
5.2.1 Turn the release valve clockwise to close it.
5.2.2 Pump the handle to raise the vehicle off the axle stands.
5.2.3 Remove the axle stands from beneath the vehicle.
5.2.4 Turn the release valve slowly counter-clockwise to lower the vehicle to the ground.
NOTE: W**hen the jack not in use, AL**W**AYS leave the saddle and ram fully retracted.**

CAUTION: Keep hands and feet away from the hinge mechanism of the jack
IMPORTANT: Only fully qualified personnel should attempt maintenance or repair.

6. Maintenance

6.1 Monthly Maintenance

1. The jack shall be maintained in accordance with the product instruction.
2. When jack is not in use · lifting arm should be in full down position.
3. Always keep jack clean and keep the screw and bearings well lubricated.
4. Keep moving parts clean; lubricate moving parts every 3 months.

6.2 OIL LEVEL:
IMPORTANT: When adding or replacing oil.always use a good of hydraulic jack oil. transmission oil or turbine oil and always avoid mixing different types of oil.
Never use brake fluid. alcohol. glycerine. detergent motor oil or dirty oil of any kind. Improper oil usage will cause serious internal damage to jack.
6.2 ADDING OIL:

With ram fully lowered and jack on level ground · remove oil fill plug.

REPLACING OIL: For best performance and longest life. oil should be replaced at least once every year. To drain oil · remove cover plate · oil filler plug and release valve.

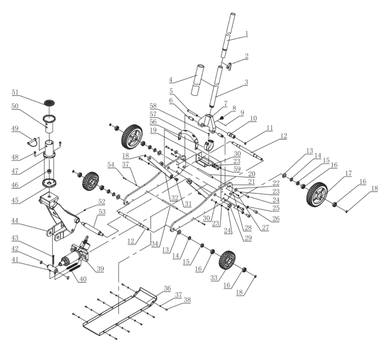
Be VERY CAREFUL to not allow dirt or any foreign oil into the system.
LUBRICATION: Put grease in fitting on base and lubricate lifting arm spindle with oil. every 3 months.
RUST PREVENTION: Clean and wipe with an oily cloth. the piston ram and pump piston every 3 months or when signs of rust or corrosion appear. When not in use. always leave the saddle and pump piston in the completely down position.

7. Trouble Shooting

PROBLEM	CAUSE	REMEDY
Jack will not lift to full height	1. Oil level low 2. Release valve not closing	1. Check / add oil 2. Closing the release valve
Jack will not hold the load	1.Release valve not closing 2.Hydraulic oil is contaminated 3.Pump leaking	1.Closing the release valve 2、3.Contact authorized service agent
Lift arm will not lower	1.Pump cylinder binding	1.Contact authorized service agent
	2.Parts worn	
	3.Internal component damage	
	4.Return spring broken or unhooked	
	5.Lift arm linkage either bent or binding	
	6.Still have air in the hydraulic system	
After hydraulic purging, the jack still can reach the maximum by 10 pumps		1.Operate according to manual Part 4.5
Poor lift performance	1. Fluid level low 2. Hydraulic unit malfunction	1. Ensure proper fluid level 2. Discontinue use, contact authorized service agent

8. Exploded View and Parts List

8.1 The Whole Machine



Part List

Item No	Description	Q'ty	Item No	Description	Q'ty
1	Upper Handle	1	30	Washer	2
2	Upper Handle pin	1	31	Nut	2
3	Lower Handle	1	32	Adjust Plate	2
4	Handle Bumper	1	33	6" Front Wheel	2
5	Connect Rod	1	34	Connect Rod	1
6	Handle Yoke Roller	2	35	Protect Plate	1
7	Handle Seat	1	36	Lock Washer	12
8	Screw	1	37	Screw	10
9	Pin	1	38	Pump assy	1
10	Roller	1	39	Return Spring	2
11	Retaining ring	1	40	Support Bar	1
12	Roller	2	41	Retaining ring	2
13	Washer	4	42	Pin	1
14	Lock Washer	4	43	Lifting Arm Assembly	1
15	Nut M20	4	44	Saddle	1
16	Bearing	8	45	Screw	1
17	8" Back Wheel	2	46	Extension Saddle	1
18	Retaining ring	4	47	Screw	2
19	Saddle mounting bracket	1	48	Pin	1
20	Limit Bar	2	49	Extension Saddle Inner Tube Assy	1
21	Frame side plate	2	50	Rubber pad	1
22	Washer	2	51	Oil cup	1
23	Lock Washer	4	52	Spindle-Lift Arm	1
24	Screw	4	53	Screw	2
25	Lock Washer	6	54	Spring Seat	1
26	Screw	6	55	Nylon Handle Tape	1
27	Screw	2	56	Screw	1
28	Lock Washer	2	57	Screw	2
29	Nut M18	2			