Aluminum Pit Jack

OWNERS MANUAL

BEFORE OPERATION

It is the owner and/or operator's responsibility to completely read and understand these instructions and warnings before operating the jack.

ASSEMBLY INSTRUCTIONS

1. Jack handle is shipped in two pieces. Locate the lower section of the handle and place into the handle socket of jack assembly shown in Figure #2. Ensure the knurled handle base screw retainer bolt is unthreaded allowing handle to drop into position. Once handle is fully seated, tighten the knurled handle base screw retainer bolt. Note: Handle should turn freely and should not come out of handle base.
2. Place the upper section of handle into the lower section aligning the detent ball with hole in the lower section of the handle. Once the upper handle piece is seated into the lower handle piece, the detent ball should lock both pieces together.

WARNING

1. Jack is designed for lifting vehicles only and is not intended for any other purpose.
2. Consult vehicle owner's manual prior to jacking up of a vehicle.
3. Use jack on solid, level ground. Ensure front wheels of the vehicle being raised are in a parallel position.
4. No person should remain in vehicle that is being jacked up.
5. When lifting a vehicle, be sure to place the center of the jack saddle directly under the axle or frame.
6. After lifting vehicle, place jack stands under the axles and or frame rails.
7. No person should be under a vehicle that is supported by jack only.
8. Never move the jack while it is supporting a vehicle.
9. When lowering a vehicle, make sure nobody is near or under the vehicle. Slowly lower vehicle with careful attention to the position of jack saddle.
10. The safety valve is factory adjusted and no further adjustment is required.
11. While not in use, always store with handle in an upright position.

OPERATING INSTRUCTIONS

1. To release air trapped in hydraulic system some jacks have a bleed valve located in the top of the base as shown in Figure #2. Opening the bleed valve will release trapped air.
2. Opening the release valve by turning handle counter-clockwise and slowly pumping 10-15 full strokes should remove any excess trapped air. If additional bleeding or filling is required, reference the Filling and Bleeding Section on page 2.
3. Close release valve by turning handle clock-wise until seated. **Use caution when tightening handle, over tightening handle will damage release valve.**
4. Jack is now ready to lift.
5. To lower jack, open release valve by turning handle counter-clockwise.

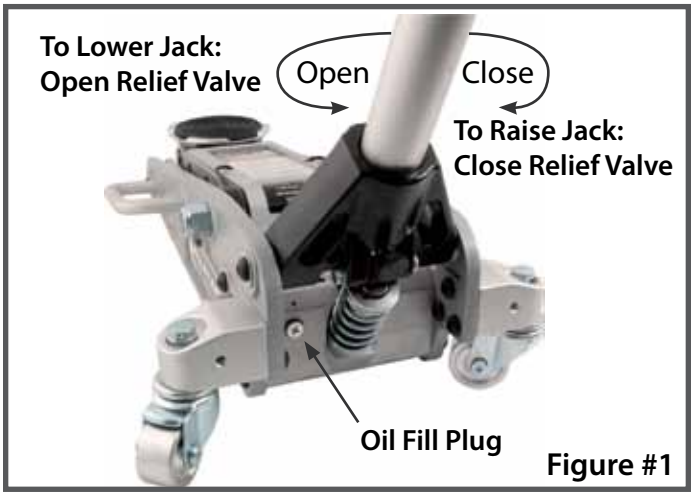

Figure #1

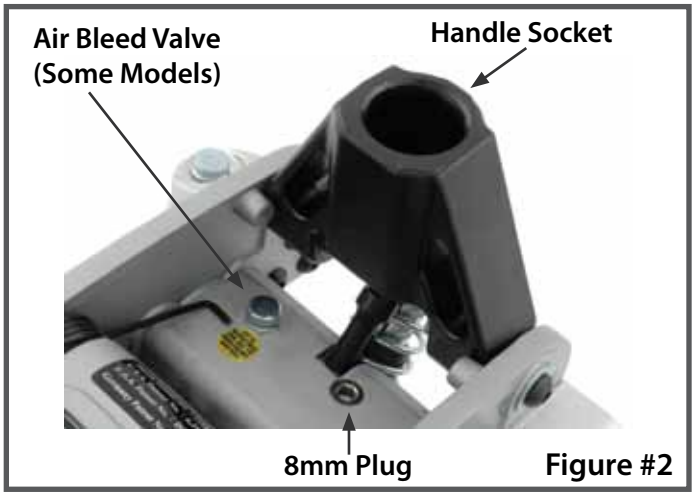

Figure #2

Allstar Performance 8300 Lane Dr., Watervliet, MI 49098
Phone: (269) 463-8000 Fax: (800) 772-2618 www.allstarperformance.com

Aluminum Pit Jack

OWNERS MANUAL

WARNING

1. Use jack for lifting less than rated capacity. Do not overload, otherwise a dangerous situation may occur.
2. Jack is designed for lifting vehicles only and not for any other purpose. Support car with jack stands once the load has been lifted. Stay clear of lifted loads.
3. Center the load on the jack saddle. Off center loads can damage the seals and cause jack failure.
4. Lift only dead weight.
5. Jack is to be used by professional personnel only. To prevent dangerous situations that may occur, use by non professional personnel is not recommended, especially children.

Filling / Bleeding the Hydraulic Oil

Tools required: #3 Phillips head screwdriver and 8mm Hex wrench.

Filling: – #3 Phillips head screw to the left of the pump piston on the back of the jack reservoir. See Figure #1.

1. Clean around fill plug.
2. Stand and support the jack on the large roller.
3. Remove Phillips screw (Figure #1) and fill reservoir to top with hydraulic jack oil. Replace Phillips screw, lower jack to ground.

Bleeding: – 8mm Allen socket plug on the top of reservoir to the left of the valve adjustment shaft. See Figure #2.

1. Clean around bleed plug.
2. Loosen the 8mm plug on the top.
3. Use the jack handle to close the release valve, then pump the jack slowly. The pad should move up slowly and oil should come out around the 8mm plug.
4. If the oil has air bubbles, open the 8mm plug more and continue to pump the jack slowly for several strokes. Note: Do not completely remove plug. If air is still present, close the 8mm plug, stand jack on large roller again and top off oil through fill. plug. Repeat until air bubbles cease, then close both plugs.
5. Use for a few weeks then recheck for air by repeating the filling and bleeding process.

NOTE: If repairing pieces inside 8mm plug hole, these pieces they are very easy to damage or lose. BE CAREFUL.

Check Point	Problem	Recommended Solution
Arm	Functional condition – pump jack to full lifting height with no load. Check for smooth action of the lift arm.	Lubricate pin and functional portions. Replace distorted or damaged parts.
Front Wheel	Functional condition	Lubricate functional portion. Replace damaged or worn-out parts.
Rear Wheel	Functional condition	Lubricate functional portion. Replace damaged or worn-out parts. Tighten loose bolts securely.
Power Unit	Proper oil level. Oil leakage	Supply oil necessary (replace oil in the reservoir at least once a year). Replace packing.
Handle	Functional condition and loose	Lubricate pin and functional portions. Tighten loose bolts securely. Replace damaged parts.

NOTE:
1) Oil for functional portion: lubricating oil, WD40.
2) Oil for jack: bearing oil TSO VG 10. Never use brake fluid or any other high viscosity or volatile oil.

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TROUBLESHOOTING

Problem	Possible Cause	Recommened Solution
Jack Will Not Lift	1) Release Valve Not Properly Closed 2) No Oil In The System 3) Delivery Valve And/Or Bypass Valve Malfunctioning (Valve Ball Not Properly Seated) 4) Packing Worn Out Or Defective	1) Close Release Valve 2) Fill To Prescribed Level 3) Clean To Remove Dirt Or Foreign Matter And Replace Oil 4) Replace Packing
Jack Lifts Only Part Way	1) Oil Level Low Or Too High	1) Fill Or Remove Excess Oil
Jack Lifts But Does Not Hold Load	1) Either Of The Following Valves Not Functioning: A) Suction Valve, B) Delivery Valve, C) Release Valve, D) Bypass Valve 2) Packing Worn Out Or Defective	1) Inspect Valves, Clean And Adjust Seat Surface 2) Replace Packing
Jack Will Not Lower	1) Release Valve Not Opening	1) Clean And Adjust Release Valve
Poor Lifting	1) Pump Packing Defective Or Valves Malfunctioning 2) Dirty Oil 3) Air In Hydraulic System	1) Replace Packing And/Or Clean Valves 2) Replace Oil 3) Purge Air From System
Jack Will Not Lower Completely	1) Piston Rod Bent Or Marred 2) Jack Spring Damaged 3) Link Section Warped Or Deformed Due To Possible Overloading	1) Replace Piston Rod 2) Replace Spring 3) Replace Damaged Parts

Installing Dirt Track Stabilizer

The dirt track stabilizer is an optional plate that attaches to ALL10422 and ALL10425 aluminum pit jacks and provides a sturdy base when using the pit jack on a dirt surface. The plate is not included with the jack and must be ordered separately.
P/N for ordering: ALL10426

Assembly Tool and Parts

(1) 5mm Hex Wrench
(1) Drawing Instruction
(4) Allen Head Bolts
(4) Flat Washers

Assembly Instructions

1. Remove plate and bolts from the shipping box.
2. Place the plate beneath the jack with notch facing front roller wheel.
3. Line up the pre-drilled holes on both the plate and the jack.
4. Screw in with hex bolts and washers by using the hex wrench provided.

NOTE: Use only the bolts provided to fit the threads. Other bolts may damage the threads on the jack.

Disassembly for Storage

To remove the plate from the jack, unscrew the bolts by using the hex wrench. Store the plate and bolts, washers, and hex wrench in the original shipping box.

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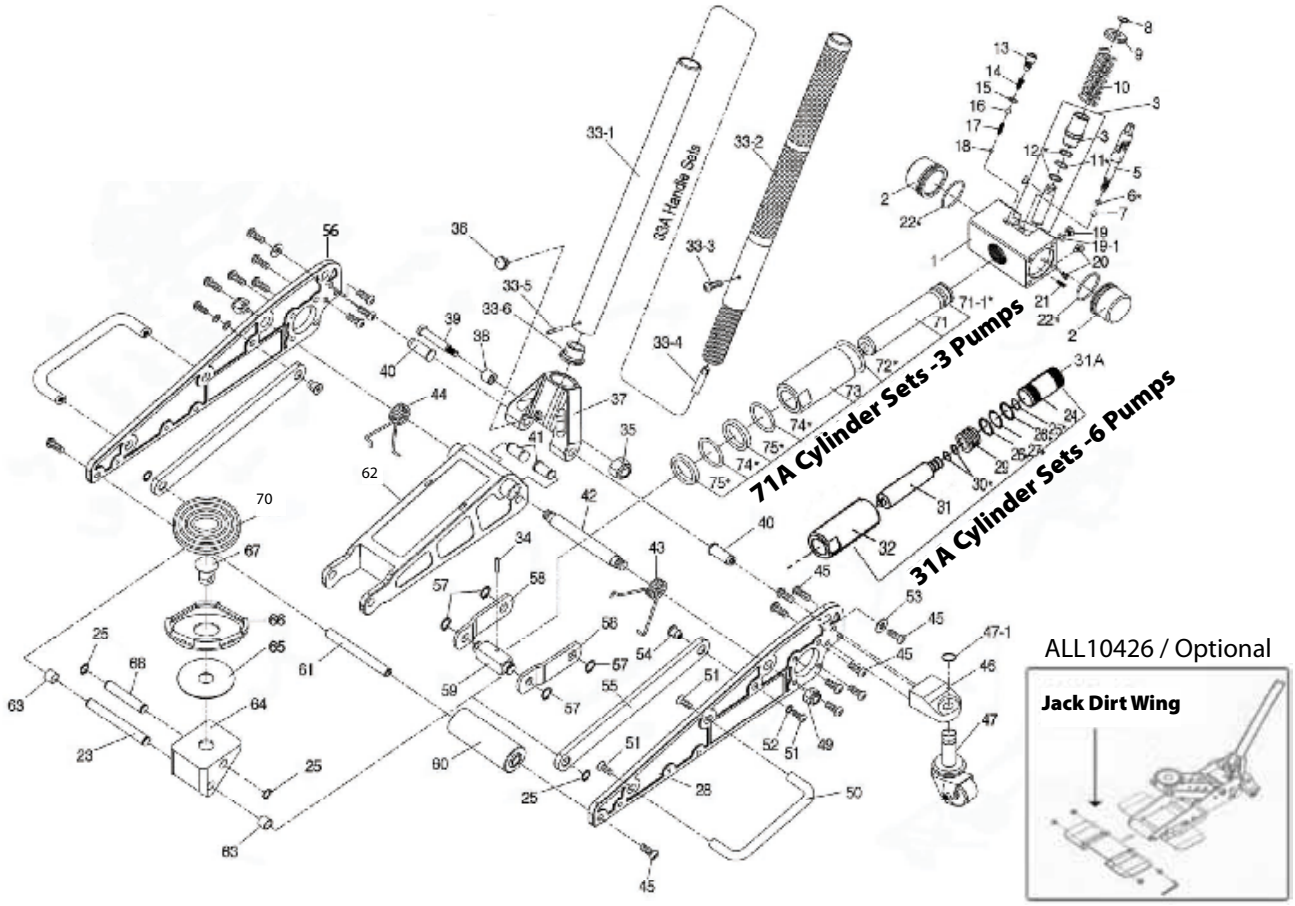

ALL10426 / Optional

1.	Aluminum Base	27.	Back Seal P30	52.	Washer 8-12
2.	Oil Cover	28.	Left Frame	53.	Washer 3/8"
3.	Piston Cylinder	29.	Bushing	54.	Link Rod Axis
4.	Piston	30.	O-Ring P12 (2pc)	55.	Link Rod
5.	Release Valve Assembly	31.	Cylinder	56.	Right Frame
6.	O-Ring P9	31A.	Cylinder Sets (6-Pumps)	57.	C-Ring S19
7.	Steel Ball 8mm	32.	Aluminum Bar	58.	Pull Rod
8.	C-Ring S20	33A.	Handle Sets	59.	Cylinder Axis
9.	Piston Cover	34.	Cotter Pin	60.	Front Wheel Caster
10.	Piston Extension Spring	35.	Nut	61.	Front Wheel Axis
11.	Back Seal P22	36.	Handle Base Screw	62.	Raise Arm
12.	O-Ring P22	37.	Handle Base	63.	Link Rod Washer
13.	Screw (H)	38.	Piston Roll Wheel	64.	Saddle Base
14.	H-Spring	39.	Spring Pin 8	65.	Nylon Washer
15.	Brass Washer	40.	Handle Base Axis	66.	Saddle
16.	Steel Ball 8mm	41.	Pull Rod Axis	67.	Holder Axis
17.	L-Spring	42.	Raise Arm Axis	68.	Saddle Base Axis
18.	Steel Ball 5.5mm	43.	Turn Spring (Right)	69.	N/A
19.	Oil Screw	44.	Turn Spring (Left)	70.	Saddle Rubber Pad
20.	Lock Screw	45.	Screw M10-1.50	71.	Cylinder
21.	Oil Net	46.	Rear Wheel Saddle	71A.	Cylinder Sets (3-Pumps)
22.	O-Ring G55 (2pc)	47.	Rear Wheel Assembly	72.	C-Type Seal
23.	Saddle Base Axis (Long)	48.	Screw M6-8	73.	Aluminum Bar
24.	Hydraulic Cylinder	49.	Screw Bushing M6-8	74.	O-Ring
25.	C-Ring S16	50.	Handle Bar	75.	Back Seal
26.	O-Ring P30 (2pc)	51.	Screw M8-25	ALL10426	Jack Dirt Wing (Optional)

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