

20 Ton Air Hydraulic Bottle Jack

Model: ASM2022



ASM HD

INTENDED USE:

Bottle jacks are self-contained and designed for lifting but not supporting a load.

SPECIFICATIONS:

Capacity (Ton):	20
Min Height (in):	10-5/16
Max Height (in):	19-15/16
Ram Travel (in):	6-1/2
Screw Adj (in):	3-1/8
Air Pressure (PSI):	110 - 120
Base Size (in):	7.9 x 6
N.W. (lbs.):	36.4

NOTE: All jacks require 110 to 120 psi air pressure and comply with ASME PASE Safety Standards.



WARNING

- Study, understand, and follow all instructions before operating this jack.
- Lift only on areas of a vehicle as specified by the vehicle manufacturer.
- Use jack only in a vertical position.
- Center load on saddle to make sure setup is stable. Off-center loads can cause jack failure and loss of load.
- Do not exceed rated capacity.
- Use only on a hard, level surface capable of supporting the load.
- Support the load with appropriate means immediately after lifting.
- Only attachments and/or adapters supplied by the jack manufacturer shall be used.
- No alterations or modifications shall be made to this product.
- Failure to heed these warnings may result in personal injury and/or property damage.
- **⚠️WARNING:** Cancer and reproductive harm – www.P65Warnings.ca.gov

SETUP:

Refer to parts breakdown drawings on the following pages to identify jack components.

1. If necessary, replace the male air quick disconnect in the jack's air valve at the end of the hose with one that is commonly used in the work shop.
2. If the ram does not raise smoothly during jack activation it may have air in the hydraulic system which needs to be removed.

Follow this procedure:

- A. Open the release valve two full turns in a counterclockwise direction from its closed position.
- B. Proceed to manually pump the jack 10 full incremental pump strokes or depress the jack's air valve lever for 10 seconds.
- C. Close the jack's release valve in a clockwise direction until it stops. Proceed to manually pump the jack to maximum ram extension. If the condition seems better but the jack is not fully purged of air **REPEAT STEPS A THROUGH C.**

OPERATING INSTRUCTIONS:

1. Prevent the air line from being kinked or exposed to any severe heat.
2. Make sure the shop's compressed air line is equipped with a dryer. Any malfunctioning jack due to moisture or water in its system is not eligible for warranty consideration.
3. Activating the jack requires the release valve turned in a clockwise direction until it stops and then proceed to manually pump the jack or depress the jack's air valve lever until the ram reaches the desired work height.
4. Lowering the jack's ram requires the release valve turned very slowly in a counterclockwise direction. The more the release valve is opened the faster the jack's ram will descend.
5. Never move the jack by pulling on its air line.
6. When lifting a vehicle always chock the tires that will not be lifted off the ground, put the vehicle's transmission in park or gear, and set the emergency brake.
7. Evaluate the load to be lifted to determine if there is enough ram travel to lift the load to the desired height. If there is not enough ram stroke the jack's extension screw can be raised to compensate for the lack of ram stroke.

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8. During the lifting procedure make sure the setup is stable. If the jack starts to tilt or the jack saddle is not centered on the load, lower the load and correct the setup.
9. After lifting load slightly higher than the desired work height immediately position a pair of matched support stands, rated the same as the jack's capacity, at the designated support locations. Raise the stand's support columns as close to the load as possible and make sure they are locked in place. Slowly lower the load on the stands making sure the setup is stable. If not stable, raise the load off the stands and correct setup.
10. Never get under an unsupported load.
11. After work is completed, raise load off the support stands, remove stands and slowly lower load to the ground.

MAINTENANCE:

The jack owner should develop a maintenance schedule based on the jack usage and shop environment.

1. The jack shall not be stored in the open or exposed to inclement weather.
2. Any jack showing signs of rust or corrosion will not be eligible for warranty consideration.
3. The jack owner is responsible for keeping jack warnings legible and the Owner's Manual in a common place for all users to see.
4. Inspect the jack everyday to make sure there are no loose or missing parts, no hydraulic leaks and the jack performs as expected. In any adverse conditions, immediately remove the jack from service until repaired.

5. The jack's extension screw and pump linkage must be periodically lubricated making sure they function as intended. Do not lubricate any part of the jack's air motor, pump piston or ram. Any jack components not properly lubricated will not be eligible for warranty consideration.
6. It should not be necessary to fill the jack's reservoir with hydraulic fluid unless the jack has been reconditioned. Any jack having an external leak should be repaired at an authorized service center and then filled with a non-detergent 22 viscosity rating hydraulic jack oil.
7. The proper hydraulic fluid level should be no higher than the bottom of the jack's reservoir fill hole with the jack in a vertical position and the ram retracted all the way.

1-YEAR LIMITED WARRANTY:

AutoSport MFG warrants that AutoSport branded products are free from defects in workmanship and materials. We will repair or replace products that fail to give satisfactory service due to workmanship or materials.

The warranty for AutoSport branded products is ONE YEAR from the date of the original purchase. The proof of purchase must be available for any warranty consideration. Repair or replacement shall be at the sole direction of AutoSport Mfg.

AutoSport warranty is administered where the original purchase was made. AutoSport MFG will not provide any warranty for any product subjected to misuse, modification, unreasonable use, neglect, lack of maintenance or use after the unit is significantly worn.

CONTACT US

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TROUBLESHOOTING:

Symptom	Possible Cause	Remedy
Will not lift or hold a load	Release valve is not closed	Turn release valve clockwise until it stops
	Air trapped in hydraulic system	Follow step 2 under SETUP
	Load more than jack's rated capacity	Use larger capacity jack. System air pressure should be 110 to 120 psi
	Air pump not functioning	Add a couple of pneumatic lubrication drops in the jack's air valve
Will not lift to maximum height	Air trapped in hydraulic system	Follow step 2 under SETUP
	External hydraulic oil leak	Replace seals and add correct fluid level according to steps 6 and 7 under MAINTENANCE
Will not lower all the way down	Fluid level too high in jack's reservoir	Correct fluid level according to steps 6 and 7 under Maintenance
	Ram or extension screw damaged, shows signs of rust or corrosion	Replace or clean

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PARTS LIST

INDEX #	ORDERING PART#	ORDERING PART DESCRIPTION	DESCRIPTION	QTY.
1			PUMP ASSY	1
2			O RING	1
3			BOWL WASHER	1
4			NYLON WASHER	1
5			PISTON ROD ASSY	1
6			LIMITING RING	2
7			O RING	1
8			RETAINER RING	1
9	PRT2022-9-10	SRPINGS WITH COVER PLATE	SPRING COVER PLATE	1
10			SPRING	2
11			BOLT	2
12			SEPARATION BLADE	1
13	PRT2022-13-15	RELEASE VALVE ASSEMBLY	STEEL BALL	2
14			O RING	1
15			SCREW	1
16			STEEL BALL	2
17			SPRING	2
18			STEEL BALL	2
19			SPRING	2
20			COPPER WASHER	2
21			SCREW	2
22			STEEL BALL	1
23			STELL BALL SEAT	1
24			SPRING	1
25			SCREW	1
26	PRT2022-26-46	OIL FILLER PLUG	O RING	2
27			SCREW	1
28	PRT2022-29	AIR MOTOR	COPPER WASHER	2
29			AIR MOTOR	1
30	PRT2022-30-33	AIR HOSE ASSEMBLY	CONNECTOR	1
31			AIR HOSE	1
32			AIR VALVE	1
33			AIR HOSE CONNECTOR	1
34			PUMP CORE BASE	1
35			DUST RING	1
36			O RING	1
37			NYLON WASHER	1
38			PUMP CORE	1
39			PIN B	3
40			CONNECTING ROD	1
41			R PIN	1
42			PIN	2
43			HANDLE SOCKET	1
44	PRT2022-44-45	HANDLE ASSEMBLY	HANDLE ASSY	1
45			HANDLE ASSY	1
46	PRT2022-26-46	OIL FILLER PLUG	SCREW	1
47			SCREW COVER	1
48			DUST RING	1
/	PRT2022-SK	SEAL KIT	SEAL KIT	1

Note: Some parts are shown in the parts list to make it easy to understand the assembly or use of the product. As such, they may not be available individually as replacement parts.

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PARTS DIAGRAM

