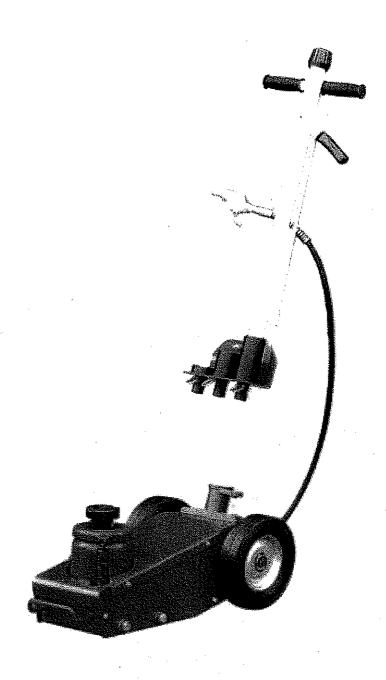
OPERATOR'S MANUAL



22TON HIGH VERSION AIR SERVICE JACK

Main data of 20 Ton High Version Air Service Jack

LIFTING	MIN.	MAX.	N.W.	G.W.	PACKAGE	AIR
-CAPACITY	HEIGHT	HEIGHT	(KG)	(KG)	SIZE	PRESSURE
22 Ton	210mm	525mm	46Kg	50Kg	66 x 36 x 28cm	0.7-1.0MPA

OWNER/OPERATOR RESPONSIBILITY

It is the owner/operator responsibility to properly use and maintain this equipment and the legibility of all warnings and instruction labels. Carefully read and understand the instructions and warnings in this manual before operating this equipment. Keep this manual in a safe location for future reference.

FAILURE TO READ THESE WARNINGS MAY RESULT IN PROPERTY DAMAGE AND OR PERSONAL INJURY.

-Support load by appropriate means after lifting

-Use as lifting device only.

-Do not exceed rated capacity.

-Use only on hard, level surface.

-Center load on the jack.

-Do not modify lack.

-Only use attachments and/or adapters supplied with or sold specificaly for the jack.

-Only lift areas of the vehicle designated by the vehicle manufacturer.

INSPECTION

Prior to each use, visually inspect for leaking hydraulic oil, damaged, loose or missing parts. If jack is wom or damaged remove from service and contact your nearest service center for repair.

OPERATION

- 1. Tightly close the release valve knob (located on top of the "T" handle) by turning it clockwise.
- 2. Center the load on the jack saddle. Connect the air supply, and squeeze the air valve lever to raise the load. Release the air valve lever to stop movement.
- 3. Transfer the load to support stands.
- 4. To lower the jack, open the release valve knob gy SLOWLY turning it counterclockwise. **NOTE:** To adjust the handle, pull up and then release the lever to lock it in one of three positions.

Bleeding The Jack

Air bubbles can become trapped inside the bydraulic system, reducing the efficiency of the jack. Purge air from the system as needed by following these steps:

- 1. With the jack sitting on its base and the ram retracted, bleed air by opening the release valve.
- 2. Pump for 10 seconds.

Pump Prime Instructions

The air/hydraulic pump may lose its prime during shipment or after long periods without use. To prime the pump, follow these steps:

- 1. Remove the upper cover.
- 2. Loosen the hex socket bolt one-half turn. See Figure 1.
- 3. Close the release valve.
- Operate the air pump while repeatedly tightening and loosening the bolt.
- When the piston begins to rise, tighten the bolt. Verify that the piston can rise to the maximum height position.

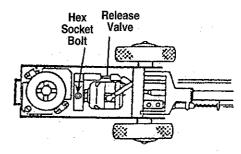


Figure 1

MAINTENANCE

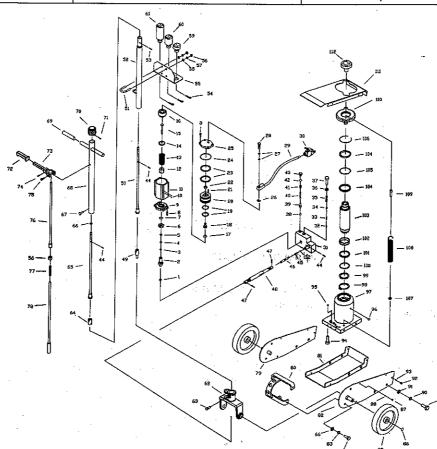
Check oil level. With the jack in an upright position and the ram completely retracted, open the release valve (turn coun ter-clockwise) and remove the filler plug. The oil level should be just up to the hole. Fill if necessary with cleanhydraulic jack oil.

Lubricate internal components. With the release valve open, manually pump the handle six times.

Keep the jack clean. Occasionally lubricate the handle socket pivot point, extension screw, release screw thread, and air valve to prevent corrosion.

TROUBLE SHOOTING

Problem	Cause	Solution		
Erratic Action	Air in system Viscosity of oil too high Ram sticking or binding Internal leakage in ram	1. With jack sitting on its base and ram retracted, bleed air by opening release valve. Pump for 10 seconds. 2. Change to a lower viscosity oil. 3. Look for dirt, gummy deposits, leaks, misalignment, worn parts, or defective packing. 4. Replace worn packings. Look for excessive contamination or wear.		
Ram does not advance	Release valve is open Low/no oil in reservoir Air locked system Load is above capacity of system Pump lost its prime	1. Close release valve located on top of "T" handle. 2. Fill with oil & bleed system. 3. With jack sitting on its base and ram retracted, bleed air by opening release valve, running pump for 10 seconds. 4. Use correct equipment. 5. Follow "Pump Prime Instructions".		
Ram only extends partially	Low oil level in reservoir Piston rod is binding	Fill reservoir with oil, & bleed system. Look for dirt, gummy deposits, leaks, misalignment, worn parts, or defective packing.		
Ram advances slowly	Low air pressure Pump not working correctly Leaking seals	1. Adjust air pressure to 90–145 psi. 2. Rework pump. 3. Replace seals.		
Ram advances but doesn't hold pressure	Release valve is open Ram seals are leaking Remp check valve not working Overload valve leaking or not adjusted	1. Close release valve located on top of "T" handle. 2. Replace seals. 3. Clean / replace check valve. 4. Replace / adjust overload valve.		
Jack leaks oil	Worn or damaged seals	1. Replace seals.		
Ram will not retract, or retracts slowly	Release valve is closed Reservoir too full Ram damaged internally	Open release valve. Drain oil to correct level. Take jack to authorized service center for repair.		



PARTS LIST

Part No.	Description	Qty.	Part No.	Description	Qty.
1	Copper Washer	1	57	Lock Washer M8	4
2	Pump Cylinder	1	58	Flat Washer M8	4
3	Y-seal 5.8X12X5.2mm	1	59	Adapter Dia. 48x20mm	1
4	Nylon Gasket 5.8X12X1.25mm	1	60	Adapter Dia. 48x50mm	1
5	Copper Washer	1	61	Adapter Dia. 48x100mm	1
6	Nut	1	62	Handle Socket	1
7	O-ring 18X2.65mm	1	63	Handle Socket Bolt	1
8	Socket Head Cap Screw M6X20mm	8	64	Rod Joint	1
9	Base Cover	1	65	Convey Rod B	1
10	Steel Ball Dia. 3mm	4	66	Flat Washer M10	5
11	Air Moter Housing	1	67	Cross Socket Head Screw M5x8	1
12	Nut	1	68	Rear Handle	1
13	Spring	1	69	Handle Sleeve	2
14	Washer	1	70	Knob	1
15	Air Pump Plunger	1	71	Lock Pin Dia. 4x40mm	1
16	Air Piston Base	1	72	Sleeve	1
17	O-ring 20.3X2.65mm	1	73	Lock Lever	1
18	Air Shuttle Valve	1	74	Lock Pin Dia. 3x18mm	1
19	O-ring 43X3.55mm	2	75	Socket Head Cap Screw M5X10mm	2
20	Air Piston	1	76	Control Rod A	1
21	Socket Head Cap Screw M5X10mm	3	77	Spring	1
22	Shuttle Valve Seal	1	78	Control Rod B	1
23	O-ring 57X5.3mm	2	78	Frame Left	1 1
24	O-ring 67X3.31111	1	80	Bracket	
25		1	81	Chassis	1
26	Top Cover				
27	Snap Ring Dia. 14mm	1	82	Frame Right	1
	O-ring 11.5X1.5mm	2	83	Lock Washer M10	4
28	Coupler	1	84	Hex Bolt M10x16mm	4
29	Air Hose Assy.	1	85	Wheel	2
30	Air Valve Assy.	1	86	Snap Ring Dia. 15mm	2
31	Valve Block Assy.	1	.87	Cross Socket Head Cap Screw M5x12	4
32	Steel Ball Dia. 6mm	2	88	Flat Washer M5	4
33	Spring	1	89	Hex Bolt M12x25	4
34	Steel Ball Dia. 9mm	1	90	Lock Washer M12	4
35	Spring	1	91	Flat Washer M12	4
36	Copper Washer		92	Cross Socket Head Cap Screw M6x12	
37	Socket Head Cap Screw M12x20mm	1	93	Flat Washer M6	4
38	Steel Ball Dia. 4mm	1	94	Socket Head Cap Screw M8x25	3
39	Safety Valve Ball Seat	1	95	O-ring 7.1x2.65mm	3
40	Safety Valve Spring	1	96	Oil Filler Plug	1
41	Safety Valve Adjusting Screw	1	97	Oil Tank Assy.	1
42	Seal	1.	98	Snap Ring Dia. 48mm	. 1
43	Safety Valve Screw	1	99	O-ring Retainer	_1
44	Lock Pin Dia. 4x20mm	3	100	O-ring 53x5.3mm	1
45	Seal	1	101	Seal Washer	1
46	Release Rod	1	102	Piston Ring	1
47	Pin Dia 3x18mm	1	103	Ram Assy.	1
48	Universal Joint Assy.	1	104	Bushing	2
49	Rod Joint	1	105	O-ring 61.5x5.3mm	1
50	Convey Rod A	1	106	Snap Ring	1
51	U-bolt	2	107	Nut M10 (thin)	2
52	Front Handle	1	108	Spring	2
	Lock Pin Dia. 4x16mm	1	109	Bolt	2
53 I		- 1	(
53 54		3	110	Spring hanger	1
53 54 55	Hair Pin Angular Bracket	3	110 111	Spring hanger Cover	1