

# STARIK®

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## 22T HD HYDRAULIC JACK

ITEM # 50506



## OWNER'S MANUAL AND SAFETY INSTRUCTIONS

SAVE THIS MANUAL. KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATION, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL, OR THE MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO SERIAL NUMBER

FOR QUESTIONS, PLEASE CALL CUSTOMER SERVICE: 909.628.4900

# SAFETY WARNINGS / OPERATION

## Main data of 20 Ton High Version Air Service Jack

LIFTING -CAPACITY	MIN. HEIGHT	MAX. HEIGHT	N.W. (KG)	G.W. (KG)	PACKAGE SIZE	AIR PRESSURE
22 Ton	8.3in	21in	101lbs	110lbs	26 x 14 x 11in	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
- Do not exceed rated capacity.
- Center load on the jack.
- Only use attachments and/or adapters supplied with or sold specifically for the jack.
- Only lift areas of the vehicle designated by the vehicle manufacturer.
- Use as lifting device only.
- Use only on hard, level surface.
- Do not modify jack.

## INSPECTION

Prior to each use, visually inspect for leaking hydraulic oil, damaged, loose or missing parts. If jack is worn 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 by 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

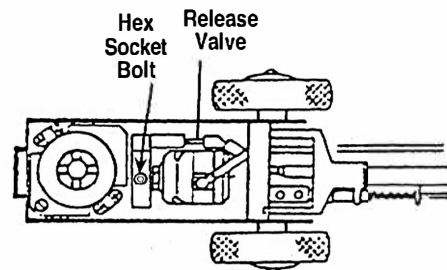
Air bubbles can become trapped inside the bydraulic system, reducing the efficiency of the jack. Purge air from the system as needed by following these steps:

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.
4. Operate the air pump while repeatedly tightening and loosening the bolt.
5. 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 counter-clockwise) and remove the filler plug. The oil level should be just up to the hole. Fill if necessary with clean hydraulic jack oil.

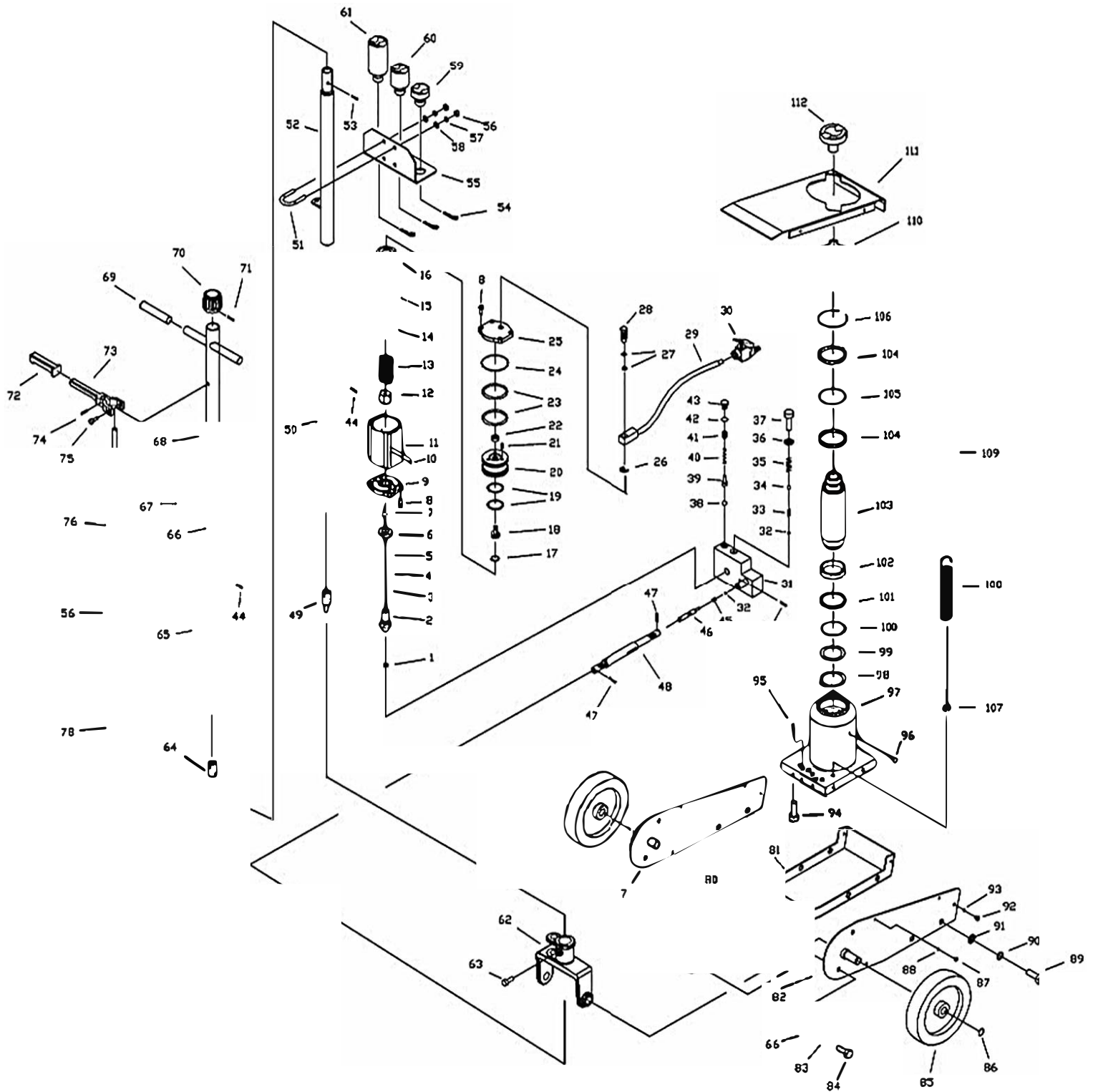
Lubricate internal components. With the release valve open, manually pump the handle six times.

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

# TROUBLESHOOTING

Problem	Cause	Solution
<b>Erratic Action</b>	<ol style="list-style-type: none"> <li>1. Air in system</li> <li>2. Viscosity of oil too high</li> <li>3. Ram sticking or binding</li> <li>4. Internal leakage in ram</li> </ol>	<ol style="list-style-type: none"> <li>1. With jack sitting on its base and ram retracted, bleed air by opening release valve. Pump for 10 seconds.</li> <li>2. Change to a lower viscosity oil.</li> <li>3. Look for dirt, gummy deposits, leaks, misalignment, worn parts, or defective packing.</li> <li>4. Replace worn packings. Look for excessive contamination or wear.</li> </ol>
<b>Ram does not advance</b>	<ol style="list-style-type: none"> <li>1. Release valve is open</li> <li>2. Low/no oil in reservoir</li> <li>3. Air locked system</li> <li>4. Load is above capacity of system</li> <li>5. Pump lost its prime</li> </ol>	<ol style="list-style-type: none"> <li>1. Close release valve located on top of "T" handle.</li> <li>2. Fill with oil &amp; bleed system.</li> <li>3. With jack sitting on its base and ram retracted, bleed air by opening release valve, running pump for 10 seconds.</li> <li>4. Use correct equipment.</li> <li>5. Follow "Pump Prime Instructions" .</li> </ol>
<b>Ram only extends partially</b>	<ol style="list-style-type: none"> <li>1. Low oil level in reservoir</li> <li>2. Piston rod is binding</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill reservoir with oil, &amp; bleed system.</li> <li>2. Look for dirt, gummy deposits, leaks, misalignment, worn parts, or defective packing.</li> </ol>
<b>Ram advances slowly</b>	<ol style="list-style-type: none"> <li>1. Low air pressure</li> <li>2. Pump not working correctly</li> <li>3. Leaking seals</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust air pressure to 90–145 psi.</li> <li>2. Rework pump.</li> <li>3. Replace seals.</li> </ol>
<b>Ram advances but doesn't hold pressure</b>	<ol style="list-style-type: none"> <li>1. Release valve is open</li> <li>2. Ram seals are leaking</li> <li>3. Pump check valve not working</li> <li>4. Overload valve leaking or not adjusted</li> </ol>	<ol style="list-style-type: none"> <li>1. Close release valve located on top of "T" handle.</li> <li>2. Replace seals.</li> <li>3. Clean / replace check valve.</li> <li>4. Replace / adjust overload valve.</li> </ol>
<b>Jack leaks oil</b>	<ol style="list-style-type: none"> <li>1. Worn or damaged seals</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace seals.</li> </ol>
<b>Ram will not retract, or retracts slowly</b>	<ol style="list-style-type: none"> <li>1. Release valve is closed</li> <li>2. Reservoir too full</li> <li>3. Ram damaged internally</li> </ol>	<ol style="list-style-type: none"> <li>1. Open release valve.</li> <li>2. Drain oil to correct level.</li> <li>3. Take jack to authorized service center for repair.</li> </ol>

# PARTS INFORMATION



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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	79	Frame Left	1
24	O-ring 67X2.4mm	1	80	Bracket	1
25	Top Cover	1	81	Chassis	1
26	Snap Ring Dia. 14mm	1	82	Frame Right	1
27	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	1	92	Cross Socket Head Cap Screw M6x12	4
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
53	Lock Pin Dia. 4x16mm	1	109	Bolt	2
54	Hair Pin	3	110	Spring hanger	1
55	Angular Bracket	1	111	Cover	1
56	Nut M8	5	112	Adapter Dia. 68x20mm	1



# DISCLAIMER

## PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

**Record Product's Serial Number Here:** \_\_\_\_\_

**Note: If product has no serial number, record month and year of purchase instead.**

**Note: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.**

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