



HYDRAULIC LIFT TABLE CART — 2200-LB.

OWNER'S MANUAL



WARNING:

Read carefully and understand all **MACHINE ADJUSTMENT AND OPERATION INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item# 44502

Thank you very much for choosing a Roughneck product! For future reference, please complete the owner's record below:

Model: _____ Purchase Date: _____

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This machine is designed for certain applications only. The distributor cannot be responsible for issues arising from modification. We strongly recommend this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted the distributor to determine if it can or should be performed on the product.

For technical questions please call **1-800-222-5381**.

INTENDED USE

Quickly and easily lift and lower up to 2,200lbs. on this Roughneck Hydraulic Lift Table Cart with easy foot pedal control. Ideal for lifting, positioning and transporting heavy materials around the shop, factory, warehouse or office.

TECHNICAL SPECIFICATIONS

Item	Description
Load Capacity (lbs.)	2200
Raised Height (in.)	39 3/8
Lowered Height (in.)	15
Platform Size L x W (in.)	40 x 20 1/4
Overall Dimensions L x W x H (in.)	53 x 24 3/4 x 39 3/8

GENERAL SAFETY RULES



WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in serious injury.



CAUTION: Do not allow persons to operate or assemble this Lift Table until they have read this manual and have developed a thorough understanding of how the Lift Table works.




WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY CONSIDERATIONS

USE AND CARE

1. Do not exceed 2200 lb. max weight capacity and be aware of dynamic loading!
2. When the table is hoisted the weight of goods on the table should not exceed the capacity. While loading the table, goods should be loaded gently. Sudden load movements may briefly create an excess load, causing product failure.
3. When loading and unloading goods on the hoisted table, don't place goods unparallel with the table top. Doing so may cause serious offset and make the cart turn over.
4. Use only on flat, level, and hard surface capable of supporting the Lift Table and any item(s) placed on the table.
5. Be aware of the "pinch points". Keep hands or feet clear of lifting mechanism during operation. The Scissor Arm Assembly can cause serious injury when opening or closing. Do not allow anyone near the Scissor Arm Assembly during operation.
6. Undistributed loading is not suggested. Loaded goods should be at least 80% on the table top surface.
7. Loose or unstable goods should not be loaded onto the table.
8. Don't put goods on working table for more than 2 hours at a time.
9. Do not adjust the Safety Valve.
10. Use as intended only. Do not use Lift Table to lift or transport people.
11. Do not make any alterations to this product.
12. This product is not a toy. Keep it out of reach of children.
13. Lower load slowly.
14. Do not use for aircraft purposes.
15. Lock casters when unattended. The cart can't be moved when goods are being lifted.
16. Follow all hydraulic air release instructions specified in this manual.

- 17.**  **WARNING:** Wear ANSI-approved safety goggles and heavy duty work gloves during assembly and use.

ASSEMBLY

The handle and foot lever of the lift table is dismantled during manufacturing. They can be reassembled by user. The assembly methods are as follows:

1. Handle installation method: according to the developed drawing, fix the handle to mounting hole of the cart body using the bolt, spring washer, and flat washer. Then screw down the bolt with wrench.
2. Foot pedal mounting: insert the pedal bar into the hole with the square bar, screw in the screw. Then put in the plain washer and the spring washer respectively and screw down the nut.

Note: The control lever controls the operation of the Hydraulic Pump unit. To lower Table, squeeze the control lever.

When the control lever is released, the table movement will stop and will remain stationary.

OPERATION

1. Before placing anything on the cart, lock the back two casters. The Swivel Casters can be locked by pressing the locking pedal down into the locked position in clockwise direction with your foot. Test the cart operation using the Foot Pedal and Control Lever. Make sure the Table raises and lowers properly before adding weight to the Table.



2. Observing safe lifting procedures, move the goods onto the table. If necessary, secure the item onto the cart using tie-downs or chocks to keep it stable while moving.
3. Release the Swivel Casters by pressing the locking pedal to the unlock position in counter-clockwise direction. Move the cart to the desired location.
4. Before raising the table top, lock the Swivel Casters.
5. To raise the Table, ensure that the Control Lever is in the released position. Press repeatedly on the Foot Pedal to raise the table.
6. After the desired height is reached, engage the Safety Bars by swinging them towards the scissor arm. Lower the table slightly and make sure the bars lock in place. This helps prevent uncontrolled table drop.
7. To lower the Lift Table, pump the table up until the Safety Bars can be disengaged.
8. Swing the Safety Bars away from the scissor arm and towards their original position.
9. To prevent accidents, when finished using the cart, move the cart to a safe location, lock the Locking Swivel Casters, lower the Table as far as it will go. Clean, then store the cart indoors out of children's reach.



WARNING: When maintaining and repairing the cart there should be no goods placed on the table and the safety bar should be in place to support the Scissor Arm Assembly in order to prevent table from falling.

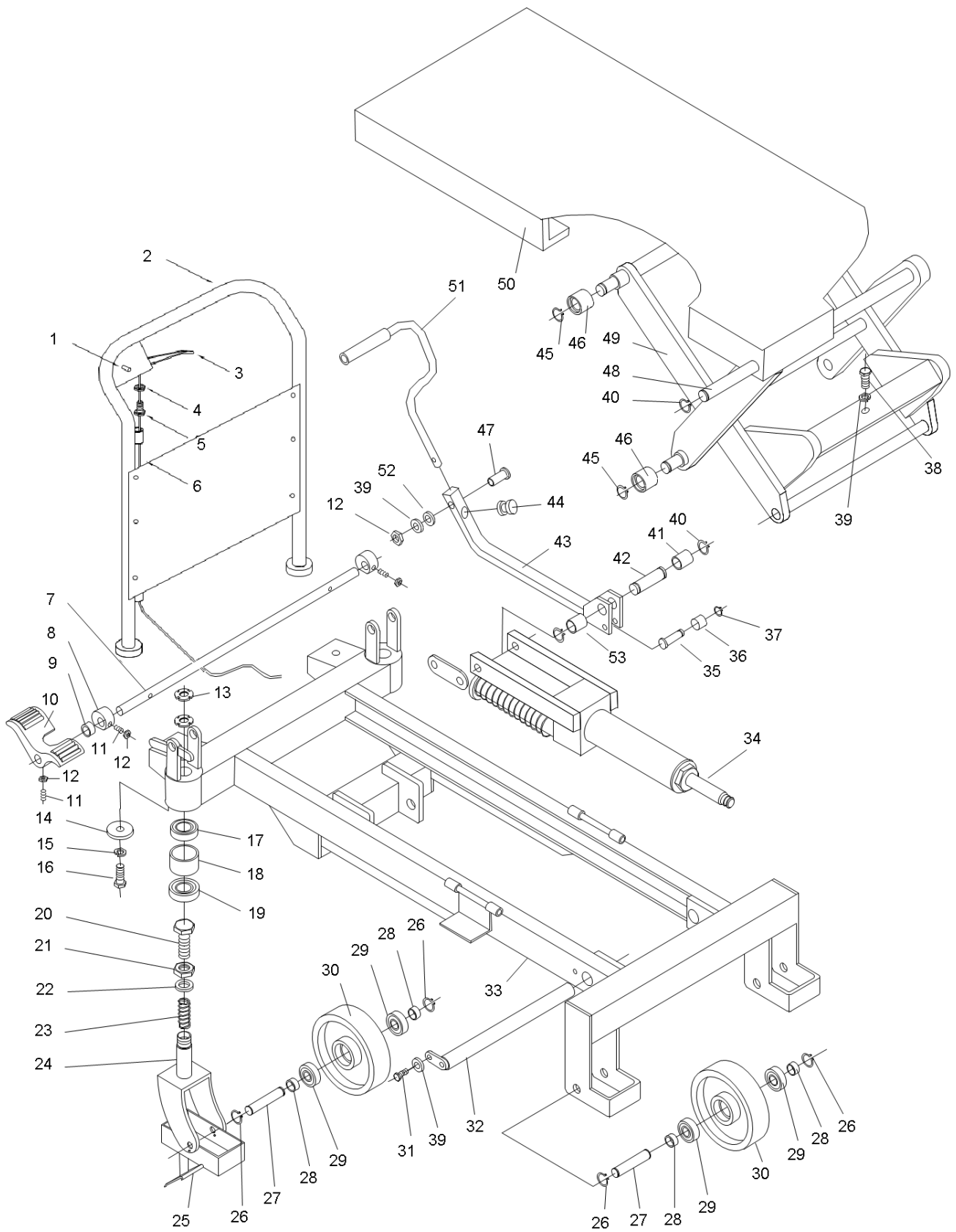
MAINTENANCE AND LUBRICATION

1. **BEFORE EACH USE**, inspect the general condition of the cart. Check for loose hardware, misalignment of binding parts, cracked or broken parts, and any other condition that may affect its safe operation.
2. Store your Hydraulic cart in a location where it is protected from moisture, dirt, and corrosive atmosphere. Protect it from being damaged from other items being moved in and out of its storage area.
3. Occasionally check the condition of the casters.
4. Occasionally apply light grease to the hinge points of the Scissor Arm Assembly and other pivot points of the assembly. Wipe off excess grease, as this will attract dirt.
5. Check oil leakage in the hydraulic system.
6. Change the hydraulic oil every twelve months. Choose hydraulic oil according to the climate conditions of different areas listed below:
 - a) YBN32 is adaptive under the environment temperature of 14-104°F
 - b) YCN32 is adaptive under the environment temperature of -4-104°F
7. Hydraulic oil changing and air release methods:
 - a) Raise the lift table and engage the safety bars.
 - b) Screw off the sealing plug(11a) with a wrench;
 - c) Squeeze the control lever to release the hydraulic oil, then screw the sealing plug.
 - d) Twist off the fluid plug(35a) and fill with hydraulic oil. Screw the fluid plug(35a), but do not fully tighten.
 - e) Slightly raise the table and recover the safety bars, then lower the table to the lowest position.
 - f) Slightly raise the table then tighten the fluid plug(35a).
8. Parts of no.1a, no.3a, no.4a, no.21a, no.28a, no.31a, no.32a, no.38a, no.39a, no.41a, no.44a, no.45a are sealing components made of rubber, polyurethane, and nylon. The general lifetime for these parts is two years. If parts are not replaced it will affect performance. It is recommended to change these parts before their lifetime is up. (See diagram & parts list-Pump)

TROUBLESHOOTING

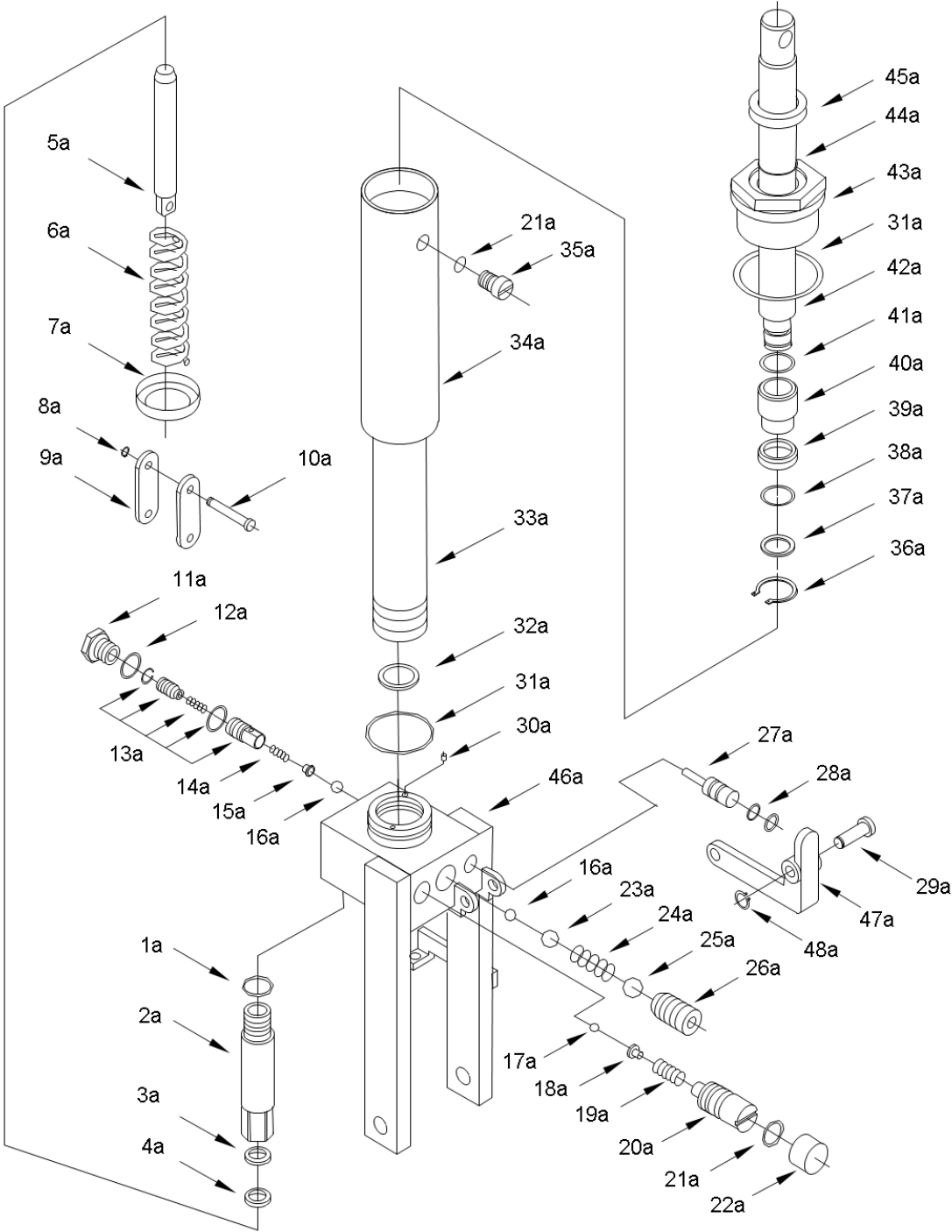
Faults	Causes	Trouble shooting
The cart can not be raised or the lifting height is not enough	1) Steel ball (16a) of the check-valve is not closed down. 2) Firing pin (27a) withstands the steel ball (16a). 3) Short on hydraulic oil.	1) Clean the valve opening and change the steel ball (16a). 2) Adjust the tension rate of the steel wire rope so that the firing pin is in a suitable place, and add or fill lubricant to the pin roll (29a) 3) Add hydraulic oil.
The table-board rises then descends	1) Steel ball (23a) (16a) of the check-valve is not closed down. 2) Firing pin (27a) withstands the steel ball (16a).	1) Clean the valve opening and change the steel ball (16a) (23a) 2) Adjust the tension rate of the steel wire rope to make firing pin at suitable place, and add or fill lubricant to the pin roll (29a)
The table-board does not descend	The length of the firing pin (27a) is not enough to open the steel ball (16a).	Adjust the tension rate of the steel wire rope to make firing pin at suitable place, and add or fill lubricant to the pin roll (29a)
Oil leakage at firing pin.	The O- ring(28a) is damaged.	Change the O- ring (28a).
Oil leakage at pump cylinder (2a), pump core (5a) and piston rod (42a).	The seal rings (1a) (3a) (44a) (45a) are damaged.	Change the seal ring (1a) (3a) (44a) (45a)

DIAGRAM & PARTS LIST



Part	Description	Qty	Part	Description	Qty	Part	Description	Qty
1	Spring pin 6x30	1	19	Bearing 7205	2	37	Retaining ring for axle 10	1
2	Handle bar	1	20	Bolt M10x35	2	38	Screw M8x10	1
3	Control Lever	1	21	Nut M10	2	39	Washer 8	3
4	Nut M8	1	22	Washer 10	1	40	Retaining ring for axle 20	4
5	Screw	1	23	Spring	1	41	Retaining ring	1
6	Pull Rod	1	24	Rack of wheel	1	42	Shaft	1
7	Rod	1	25	Brake piece	1	43	Pedal rod	1
8	Cam	2	26	Retaining ring for axle 17	8	44	Cushion	1
9	Retaining ring	1	27	Shaft	4	45	Retaining ring for axle 22	4
10	Locking Pedal	1	28	Washer	4	46	Roller	4
11	Screw M8x20	3	29	Bearing 60203	8	47	Bolt M8x30	1
12	Nut M8	4	30	Wheel	4	48	Shaft	1
13	Nut M8	4	31	Bolt M8x12	1	49	Scissor Arm	1
14	Washer	2	32	L-pin	1	50	Table	1
15	Washer 12	2	33	Frame	1	51	Pedal bar	1
16	Bolt M12x30	2	34	Pump	1	52	Washer 8	1
17	Bearing 105	2	35	Shaft	1	53	Retaining ring	1
18	Bush	2	36	Bush	1			

DIAGRAM & PARTS LIST-Pump



Part	Description	Qty	Part	Description	Qty	Part	Description	Qty
1a	O-ring 22.4x2.65	1	17a	Steel ball 4.5	1	33a	Cylinder	1
2a	Pump cylinder	1	18a	Spring seat	1	34a	Housing	1
3a	YX-seal ring	1	19a	Spring	1	35a	Fluid Plug	1
4a	Dust ring	1	20a	Adjusting screw	1	36a	Retaining ring for axle 25	1
5a	Pump plunger	1	21a	O-ring 7.5x2.65	2	37a	Washer	1
6a	Spring	1	22a	Cover ring	1	38a	O-Ring 41.5x4.6	1
7a	Spring seat	1	23a	Steel ball 9.5	1	39a	Cup packing	1
8a	Retaining ring for axle 10	1	24a	Spring	1	40a	Bush	1
9a	Joint plate	2	25a	Steel ball 1/2(12.7)	1	41a	O-Ring 20x2.65	1
10a	Pin	1	26a	Screw M16x18	1	42a	Piston rod	1
11a	Plug	1	27a	Strike pin	1	43a	Cylinder cap	1
12a	Copper washer 20	1	28a	O-ring 6.9x1.8	2	44a	O-ring 31.5x3.55	1
13a	Damp valve	1	29a	Shaft	1	45a	J shaped steel frame rubber sealing 32x45x6.5	1
14a	Spring	1	30a	Filter	1	46a	Base	1
15a	Spring seat	1	31a	O-Ring 77.5x3.55	2	47a	Lever plate	1
16a	Steel ball 6.35	2	32a	Rectangular section ring	1	48a	Retaining ring for axle 8	1

For replacement parts and technical questions, please call **1-800-222-5381**.

WARRANTY

One-year limited warranty



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