

# AIR & HYDRAULIC SNOWMOBILE LIFT

Instructions for Part # SNO-5100A



## GENERAL GUIDELINES & SAFETY

- It is the user's responsibility to read and follow all instructions.
- Keep these instructions with the product at all times and review before each use.
- It is the responsibility of this product's owner to furnish the instructions to any person that borrows or purchases the product.
- Inspect the product before use to ensure it is assembled properly and all parts are in safe working order and free of defects.
- Never modify this product in any way.
- All circumstances cannot be addressed in these instructions.
- Please use common sense and practice general safety measures when using this product.
- Parts and/or instructions are subject to change without notice.
- Do not exceed capacity of 750 lbs.
- Do not use the press when tired or under the influence of alcohol, drugs, or any intoxicating medication.
- Do not allow untrained persons to operate the lift.
- If you detect anything that indicates imminent structural failure, stop using the lift.
- Only use the lift on stable, level, and dry surfaces capable of sustaining the load.
- DO NOT attempt to transport a snowmobile on the lift. The lift must only be used in a static position for lifting and lowering snowmobiles. Ensure that the snowmobile remains stable at all times.
- When the lift is at its highest position, DO NOT attempt to pump the lift higher as this can damage the mechanism.
- Use of this product is limited to lifting, holding and lowering a single snowmobile compatible with the lift platform. DO NOT USE if the loaded snowmobile wobbles, appears unstable, and/or does not securely engage and lift the sled frame. Do not run the snowmobile motor while in place.
- For use with unoccupied snowmobiles only.
- Center snowmobile on lift platform.

## PRODUCT WARRANTY & LIABILITY

**GENERAL PRODUCT WARRANTY:** Products purchased from the Authorized Dealer (original place of purchase) or Merchant ("Dealer") will be free of defects in material and workmanship at the time of receipt, and will meet the specifications stated at the place of purchase transaction or online at the Dealer's website, under normal use and service when correctly installed, operated and maintained. This product warranty is effective for the period of time stated below, unless otherwise stated in the product instructions or depicted in the product advertisement. All Authorized Dealer warranties are NON-TRANSFERABLE and cover only the original end purchaser. This limited warranty does not cover products purchased through non-authorized dealers. Non-authorized dealer receipts are not accepted for warranty verification.

**\*\*\*WARRANTY CLAIMS MUST BE MADE DIRECTLY TO THE ORIGINAL PLACE OF PURCHASE.\*\*\***

**WARRANTY PERIOD:** This warranty remains in force for one year from the date of the product's accepted delivery. The Authorized Dealer offers a one year manufacturer's warranty for most products unless otherwise specified on the product advertisement.

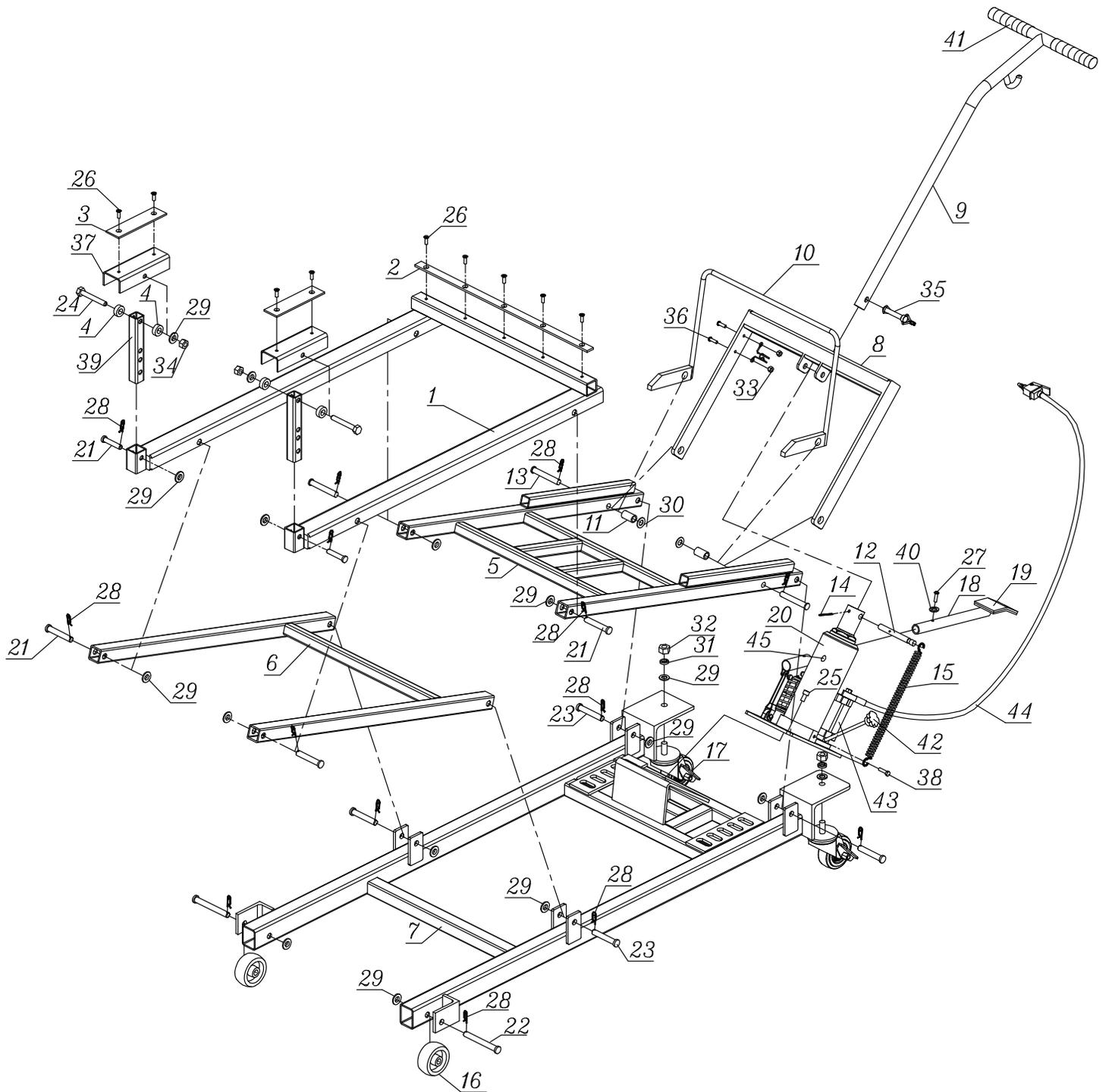
**WARRANTY SERVICE:** The Authorized Dealer will replace any defective or malfunctioning part at no charge, including payment of the shipping costs of parts or replacement product to and from the manufacturer. The purchaser is responsible for labor charges. If the product does not meet specifications as depicted in the advertisement, the Authorized Dealer will refund the full purchase price of the product.

Questions regarding the warranty on a specific product and warranty claims should be directed to the Authorized Dealer with whom the purchase transaction was made.

**WARRANTY LIMITATIONS:** The above warranty does not apply to products that are repaired, modified or altered by any party other than the Authorized Dealer; are subjected to unusual physical stress or conditions (such as overloaded ramps or corrosion), natural disaster, governmental actions, wars, strikes, labor disputes, riots, theft, vandalism, terrorism or any reason beyond reasonable control; are damaged due to improper installation, misuse, abuse, accident or negligence in use, storage, transportation or handling, or tampering; or to products that are considered consumable items or items requiring repair or replacement due to normal wear and tear. Product should be inspected prior to signing for delivery. Product damage incurred during shipping, unless noted on the Bill of Lading at the time of delivery, renders this warranty void.

**LIMITED LIABILITY:** In no event shall **THE AUTHORIZED DEALER** be liable to the purchaser or any third party for any indirect, incidental, consequential, special, exemplary or punitive damages arising out of the use of the product, including, without limitation, property damage, loss of value of the product or any third party products that are used in or with the product, or loss of use of the product or any third party products that are used in or with the product.

# ASSEMBLY



# **PARTS**

Part	Description	Qty.
1	Top Frame	1
2	Top Frame Rubber Strip	1
3	C Shaped Tube Rubber Strip	2
4	Rubber Washer	4
5	Rear Support Frame	1
6	Front Support Frame	1
7	Bottom Frame	1
8	Lifting Frame	1
9	Handle	1
10	Safety Bar	1
11	Bushing	2
12	Jack Pin	1
13	Pin (8cm Long)	2
14	Cotter Pin	1
15	Spring	1
16	Wheel	2
17	Locking Caster	2
18	Foot Pedal	1
19	Rubber Plate	1
20	Pump	1
21	Pin (5 cm Long)	6
22	Pin (10cm Long)	2

Part	Description	Qty.
23	Pin (7cm Long)	4
24	17mm head Bolt	2
25	#6 Socket Head Cap Screw	2
26	M6x12mm Screw	9
27	M8 Bolt	1
28	R-Pin	14
29	M12 Washer	16
30	M16 Washer	2
31	M12 Spring Washer	2
32	Nut (19mm)	2
33	10mm Nut	2
34	17mm Lock Nut	2
35	D-Pin	1
36	M6x15mm Screw	2
37	C Shaped Tube	2
38	20mm Long Bolt	1
39	Adjustable Height Tube	2
40	Washer	1
41	Hand Sleeve	2
42	Release Valve	1
43	Air Pump	1
44	Air Hose	1
45	Oil Fill Hole	1

# **INSTALLATION**

## **BEFORE USE**

1. Purge air from hydraulic system.

1.1 Manual operating system: With the lift saddle in the lowest position, turn jack release valve knob counterclockwise to release jack pressure and quickly pump the lifting foot pedal several times to purge air from the hydraulic system. Turn clockwise to close the release valve

1.2. Air operating system: Pour 2-3 drops of good quality air tool lubricant into the air supply inlet of the lift control valve, connect to air supply and operate for 3 seconds to evenly distribute lubricant. (This step is required if the air pump is not used for a long time). Connect the quick male end into the air supply hose quick coupler-female and fully press the release foot pedal, then turn on the air controller letting the pump work for 20 seconds to eliminate any air in the hydraulic system.

2. Carefully and slowly pinch oil fill plug to release trapped air.

3. Position the lift in a suitable area, checking that the surface on which the lift will stand is solid and flat.

# **OPERATION**

## **TO RAISE THE SNOWMOBILE**

1. To avoid item from slipping during the raising operation, **ONLY** lift on points of snowmobile specified by snowmobile manufacturer in the snowmobile operator's manual.
2. Place the lift under the snowmobile so that the lift saddle is positioned and set under the snowmobile's lift point.
3. Pump the lifting foot pedal until the lift saddle comes in contact with the snowmobile to be lifted, always check to be sure that the saddle and the snowmobile are positioned correctly **BEFORE** raising the jack.
4. Pump lifting foot pedal (Or use air pump to connect the air source) to raise snowmobile, unlock the safety bar from the clip. The tip of the safety bar will auto sink into position just behind the ridge. Slightly and slowly turn counterclockwise to open the release valve so that the safety bar tip moves snugly against a locking ridge. Then turn clockwise to close the release valve.
5. Immediately after lifting snowmobile, ensure lift mechanical load holding device is engaged and release valve is closed.

## **TO LOWER THE SNOWMOBILE**

1. Raise the lift slightly and unlock the safety bar (pull the safety bar handle to secure it to the clip).
2. Turn counterclockwise very gently to lower the saddle and snowmobile. Very little turning motion releases jack pressure.

# **MAINTENANCE**

1. Keep the lift clean and wipe off any oil or grease.
2. When not in use, the lift must be stored in the lowest position in a dry location to minimize ram and piston corrosion.
3. Before each use check all parts, ensure that all applicable bolts and nuts are firmly tightened. If any part of the lift is damaged or suspect any part of the lift is damaged, remove the lift from service and take necessary action to repair.
4. Periodically check the ram and piston for signs of corrosion. Clean exposed areas with a clean oiled cloth
5. When lift efficiency drops, purge away air from the hydraulic system.
6. Check the hydraulic oil level. If not adequate, add AW32 hydraulic oil as necessary.  
DO NOT use brake fluid or any other improper fluid.

# **TROUBLE SHOOTING**

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
Can't lift load.	1. Overload 2. Release valve not completely closed 3. Air in hydraulic system	1. Remove partial overload 2. Check the release valve 3. Purge air away, see <b>BEFORE USE</b>
Can't lift to full height	1. Not enough oil 2. Air in hydraulic system	1. Add oil 2. Purge air away, see <b>BEFORE USE</b>
Oil leaking	1. Seals broken 2. Loose connections	1. Replace the seal kits 2. Tighten loose connections