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## **Hydraulic Lift Owner's Manual (All HG Lifts, OD20H)**

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## **Warnings!!!**

### **Never:**

- ▲ Place objects underneath your grooming table, especially in the vertical path of the grooming post, as this can result in crushing injuries, and in instability/tipping of the table.
- ▲ Allow or place any part of your body under, in, or in-between the table moving parts, especially while in operation.
- ▲ Step on the pump handle. Use gentle foot pumping only.
- ▲ Exceed the recommended maximum capacity of the table.

### **Always:**

- ▲ Be alert to tipping, especially while rotating the lift. Never allow an animal being groomed to move towards the table edge.
- ▲ Keep your table level and stable at all times. An uneven floor may necessitate the use of the leveling feet that are provided.
- ▲ Position your table where it has sufficient clearance to be raised and lowered without interference.
- ▲ Control the motion of the grooming arm with one hand as you turn the height adjustment screw with the other hand.

**Note: Non-compliance with these warnings can result in animal or groomer death or serious injury! Non-compliance will result in voiding of the Ascot Products Limited Warranty.**

## Assembly

Your Ascot Grooming Lift will arrive in either one or two cartons. All Spider Based Tables arrive as two cartons: one contains an assembled base and spider, and the other contains a tabletop and mounting bolt kit. The OD20H table arrives as two cartons: one contains the scissor mechanism and hydraulic pump, and the other contains a tabletop and mounting bolt kit. Assemble your lift by performing the following:

- Spider Based Lifts

First mount the spider base to the tabletop, and then mount the spider base/table top assembly to the pump spindle as follows:

### Mounting the Table Top to the Frame/Spider

1. Remove the tabletop and the bolt set(s) taped inside one end of the tabletop carton.
2. Turn the tabletop upside down so that the bolt holes face up.
3. Turn the frame/spider upside down and align the four bolt holes with those in the tabletop.
4. Make four bolt sets by inserting all four short bolts of the correct diameter into a lock washer and flat washer (the bolt set is generic and may contain several pieces of hardware that you will not use).
5. Insert each bolt set through a frame/spider bolt hole and thread the bolt by hand into the table top bolt hole. Some “gentle persuasion” may be necessary for proper bolt thread alignment.
6. Using a wrench, socket, or Allen wrench (depending on the bolt set supplied this could be a 10mm, 12 mm, 7/16 inch, or 6mm Allen) tighten each bolt set so that it is snug. **Do not over-tighten!**

### Mounting the Spider Base/Table Top to the Pump Spindle

1. Turn the spider base/table top assembly right side up and insert the spider cup onto the pump shaft.
2. Make a bolt set by inserting a bolt into its square washer.
3. Insert the bolt set through the spider cup and thread by hand into the pump spindle bolt hole. Using a 17mm (or 13 mm for HG) wrench or socket, tighten the bolt set so the spider is snugly attached to the pump spindle (the spider must not spin on the shaft). **Do not over-tighten!**
4. Test the pump brake. Pushing up with your foot on the pump handle will apply the brake and prevent the tabletop from revolving. If the tabletop revolves with the brake on, then re-tighten the pump shaft bolt by repeating step #3. The brake will release by simply tapping down on the pump handle with your foot.

- **OD20H** (a two person job since the mechanism is very heavy!)

Perform the following steps to unpack and assemble your OD20H table:

1. Remove the scissor mechanism from its carton, and carefully place the mechanism on the floor.
2. Pump the table to its highest position.
3. Carefully turn the mechanism upside-down on the floor.
4. Thread by hand the floor levelers or casters that are included in the carton. A wrench is supplied for securing the levelers to the bottom frame of the scissor mechanism.
5. Remove the tabletop from its carton and locate the bolt set that is taped to the inside.
6. Turn the tabletop upside down and place it on the floor next to the upside down scissor mechanism (Note that the tabletop is generic and contains many bolt holes that you will not use).
7. Lift the upside down scissor mechanism and place it on top of the tabletop so that you align all four bolt holes. Place a lock washer and flat washer on all four of the long bolts (Note that the bolt set is generic and may contain several pieces of hardware that you will not use).
8. Insert a bolt set through each of the four holes in the scissor mechanism, and **thread by hand** into the receiving hole in the tabletop.
9. Tighten each bolt set just until it is snug using a 6 mm Allen wrench. Do not over-tighten!
10. Carefully turn your table right side up.

- **42" Table Top**

First mount the spider base to the tabletop, and then mount the spider base/table top assembly to the pump spindle as follows:

1. Remove the tabletop and the bolt set that is taped inside one end of the carton.
2. Turn the tabletop upside down so that the bolt holes face up.
3. Turn the spider upside down and align the four bolt holes with those in the tabletop. (Note that the tabletop is generic and contains many bolt holes that you will not use).
4. Make four bolt sets by inserting four short bolts of the correct diameter into a lock washer and flat washer (the bolt set is generic and may contain several pieces of hardware that you will not use).

5. Insert each bolt set through a spider bolt hole, and thread the bolt by hand into the table top bolt hole. Some “gentle persuasion” of the spider arm may be necessary for proper bolt thread alignment.
6. Using a 10 mm (some versions require a 12 mm) wrench or socket, tighten each bolt set so that it is snug. **Do not over-tighten!**

- Casters

Heavy Duty casters are available for purchase for lift mobility for HG7 “H” based lifts and are included with the OD-20H table. To attach the casters, perform the following steps:

1. Remove the H base or OD20H scissor mechanism (it’s heavy and is a two person job) from its carton, and carefully place the mechanism on the floor.
2. Carefully turn the mechanism upside-down on the floor.
3. Thread each caster by hand into the frame. A wrench is supplied for securing the casters.

## Operation

Operating your Hydraulic lift has been organized into the following activities:

- Leveling

Both the H base lifts and the OD20H come equipped with floor “levelers.” Level the lift by placing a bubble level along the length of the tabletop. Turn the levelers on the left and right legs to raise or lower the table ends until the bubble is centered. Repeat this leveling process across the width of the table. Re-check for both length and width level.

- Braking, Raising, Lowering

**Note: Never step with your full body weight on the pump handle. Gentle foot pumping is all that is necessary to raise and lower the table!**

Braking, raising, and lowering of the lift is controlled by the pump handle. The pump handle has three distinct positions:

**Braking-** Lifting the pump handle with your foot will apply the brake and prevent rotation. The brake will release by simply tapping down on the pump handle with your foot.

**Raising-** In the middle of its range, a downward motion of the pump handle will result in raising the table. When pumping, avoid depressing the pump handle to the bottom-most or release position.

**Lowering-** Depressing, and holding the pump handle down at the bottom of its range will lower the table.

- Rotating

Your HG7 hydraulic table is capable of rotating in a complete circle. You can prevent the table from rotating by applying the brake (see **Braking** above).

Be especially alert to tipping when rotating! Keep the animal centered on the table, and never allow it to move to the edge.

An H based table is more subject to tipping when the tabletop has been rotated to a right angle with respect to the H base.

- Attaching a Clamp and Grooming Arm

Use of the Ascot GT post (1" square) and clamp is recommended. The clamp must be securely mounted at any tabletop edge location where there is sufficient clearance. Simply loosen the thumbscrews, and slide the clamp onto the tabletop edge until it can go no farther. Tighten both thumbscrews until the clamp is secure.

Loosen the adjustment knob and insert the post into the clamp until the desired height is achieved. Tighten the adjustment knob until the post remains securely in position.

Always control the motion of the grooming arm with one hand as you adjust the position screw with the other hand.

- Attaching Rotating Arm on OD-20H Table

Use of the Ascot GT post (1" square) is required. Locate tightening knob that is packed with rotating arm in the carton. Mount into vertical tubing. Mount rotating arm to table frame below table top by tightening four mounting bolts. Tighten knob in place to hold grooming arm in place.

- **Maximum Capacity**

It is important that you never exceed the recommended capacity of your hydraulic lift table.

**HG Lifts-** Both the HG Round and the HG H based lifts have a maximum capacity of 300 pounds (136 kilograms).

**OD20H-** This lift has a maximum capacity of 175 pounds (79 kilograms).

## **Maintenance**

Maintaining your Hydraulic lift has been organized into the following activities:

- **Cleaning**

Your Ascot Hydraulic Table requires very little routine maintenance other than cleaning of the tabletop surface. This can be accomplished with any mild spray-on household cleaner.

- **Storing**

Always store your hydraulic table in an upright position.

- **Lubrication**

The hydraulic pump of your lift is self-lubricating and will probably require no maintenance.

The OD20H scissor mechanism has four articulation points that should be periodically lubricated. This can be accomplished using a light, spray on lubricant available from any hardware store.

- **Brake Adjustment**

**Note: A Hydraulic lift that will not hold its vertical position and “creeps” downward over time, sometimes accompanied by a clicking sound, is a brake related problem. However, in this case the brake does not need to be adjusted as described below, it simply needs to be applied.**

Both HG and NG brakes need to be adjusted when the tabletop will not hold its rotational position with the brake applied. Before you attempt to adjust the brake, check to make sure that the 17 mm spider bolt is tight. A loose spider bolt will allow the tabletop to inappropriately rotate with the brake applied.



In order to adjust the brake, perform the following steps:

1. Remove all hardware that has been attached to the tabletop.
2. Remove the spider/table top assembly by removing the bolt that attaches it to the top of the spindle.
3. Remove the screw that attaches the plastic pump housing to the pump. It is located on the top of the plastic housing in front of the pump spindle.
4. Remove the plastic pump housing by sliding it up and over the spindle.
5. Locate the brake mechanism- a horizontal bolt located on the side of the pump near the top. This bolt has two 17-millimeter nuts on its end. The inner one is the adjustment nut, and outer one is the locking nut. There is a serrated lock washer between these two nuts.
6. Hold the inner adjustable nut stationery with a thin 17 mm wrench while loosening the outer, lock nut with another 17 mm wrench.
7. Turn the adjustable nut approximately  $\frac{1}{4}$  turn, clockwise for more brake and counter-clockwise for less, and hold it in this new position with the thin wrench while re-tightening the lock nut.
8. Test for proper brake operation by attempting to revolve the spindle by hand (cover the spindle end with a rag) as you apply and release the brake. Gently lifting the foot pedal in an upward direction should apply the brake and prevent revolution. The brake should release by simply tapping down on the pump handle.
9. Repeat steps 7 and 8 until satisfactory operation is achieved.
10. Hold the inner adjustable nut stationery with the thin 17 mm wrench while tightening the outer, lock nut with the other 17 mm wrench.
11. Re-check for proper brake operation.
12. Re-install the plastic pump housing by sliding it down and over the spindle.
13. Thread by hand and tighten the screw that attaches the plastic pump housing to the pump.
14. Re-attach the spider/table top assembly by threading by hand and the tightening the bolt that attaches it to the top of the spindle. The bolt must be tightened just until the spider/table top assembly cannot rotate independently of the spindle.
15. Re-attach all hardware that had been detached from the tabletop.

- **Adding Hydraulic Fluid**

The hydraulic pump is a tightly sealed unit that should not leak. Normal operation lubricates the pump spindle with a thin film of hydraulic fluid so that it moves smoothly. The pump has been filled with enough hydraulic fluid so that this lubrication does not effect normal pumping for many years. If you have noticed that the lift will not move up and down normally, then you must add a small amount of hydraulic fluid. Standard hydraulic (or transmission) fluid that can be

purchased at any auto parts store is adequate. In order to add hydraulic fluid, performing the following steps:

1. Remove all hardware that has been attached to the tabletop.
2. Remove the spider/table top assembly by removing the bolt that attaches it to the top of the spindle.
3. Remove the screw that attaches the plastic pump housing to the pump. It is located on the top of the plastic housing in front of the pump spindle.
4. Remove the plastic pump housing by sliding it up and over the spindle.
5. Locate the hydraulic fluid fill hole (the HG has a large, 22mm plug located on the back of the pump body; the NG1 has a small, 4mm Allen head plug located vertically on the left side of the pump body).
6. Tilt the pump to one side so that you will not spill fluid, and remove the drain plug.
7. Using a small funnel, add a small amount of hydraulic fluid until the pump is full (usually less than 2 tablespoons).
8. Re-thread the plug by hand, and tighten it securely
9. Check for proper pumping action, repeating steps 6-8 until this has been achieved.
10. Re-install the plastic pump housing by sliding it down and over the spindle.
11. Thread by hand and tighten the screw that attaches the plastic pump housing to the pump.
12. Re-attach the spider/table top assembly by threading by hand and the tightening the bolt that attaches it to the top of the spindle. The bolt must be tightened just until the spider/table top assembly cannot rotate independently of the spindle.
13. Re-attach all hardware that has been detached from the tabletop.

**If you have any questions, please feel free to contact us at [info@ascotproducts.com](mailto:info@ascotproducts.com).**