

# The Ice Wizard



# Owners Manual

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## Starting Out

Congratulations on your recent purchase of the *Seely Ice Wizard*. You are going to enjoy years of ice resurfacing ease with your new machine. First, let's start out by going over a few easy steps to get the machine configured for your ice surface.

First notice the blade that came with your unit. Attach it with the 3 bolts supplied with the blade holder inside the ice box.



### Caution Blade is Sharp!

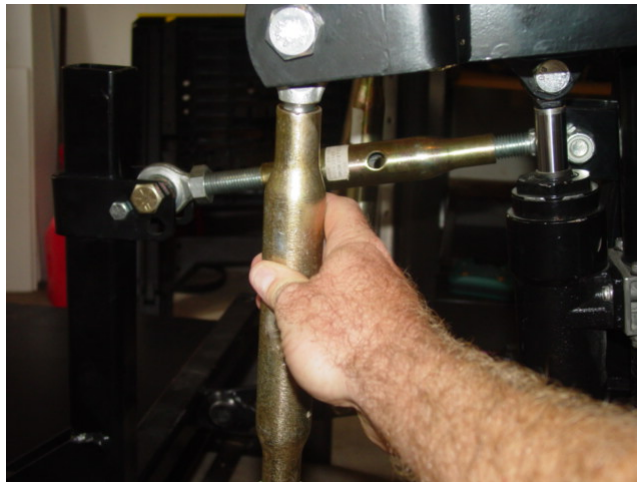
Insert the head of the screw bolt into the slotted hole on the blade and make sure the nut is on top of the blade holder bar. Blade should be aligned with the bottom of the ice box so it rests evenly on the ice.



## Caution Blade is Sharp!

Tighten the blade so it cannot slip in the box and make sure the blade is secure before lowering the ice box onto the ice. Keep the blade protector so you can easily carry the blade when it needs servicing.

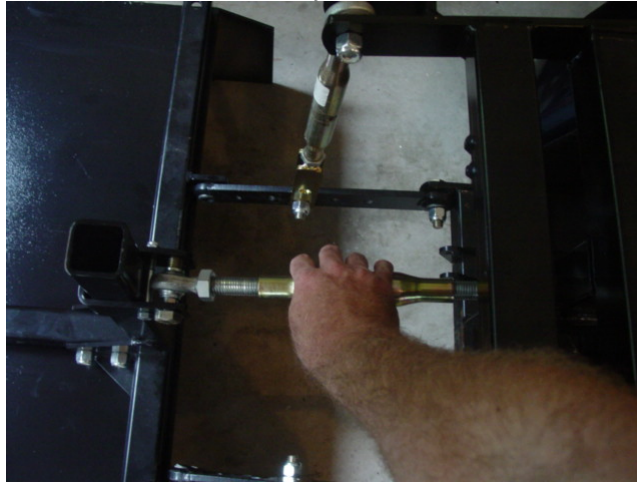
Drive the Ice Wizard onto the ice surface. Lower box onto ice and drive around the ice surface in a straight line. With another person walking next to the Ice Wizard, observe the ice box and make sure it is resting evenly on top of the ice surface. If it is not, adjust gold links accordingly so the box is even on ice surface.



By turning the gold link, it will put pressure on the box so it will drag along the ice evenly. If the driver's side of the box is high on the ice surface, turn left gold link clockwise so the left side of the box is lowered onto the ice surface. The same if the passenger side is high, lower right gold link.

The top gold link adjusts the back of the box, as well as the blade angle. If you want to shave more snow off of the skating surface, turn the top gold link in so the blade digs deeper into the ice. Keep in mind, if you dig deep into the skating surface, more snow will collect in the box and it will fill more quickly.

*The Seely Ice Wizard is factory adjusted to collect mostly the snow and a very thin layer of the skating surface.*



Now that the ice box is fully configured, lift ice box off of the ice using the ice box switch located of the left hand side of the cart. Attach the ice towel to the back of the box by inserting the towel bar on to the studs attached to the back of the ice box towel holder.



Fill the water tank with hot water (approximately 25 US GAL) and drive around the ice as you lower the ice box. Turn on the water pump by the toggle switch located next to the ice box switch. Adjust your water flow by turning the water regulator valve on the upper right-hand side of the water tank. Once the water is flowing to the back of the ice box, make sure you do not stop the *Seely Ice Wizard* on the ice without turning off the water and raising the box so you don't have water melt the ice and the towel does not stick to the surface.

**Remember, the slower you go, the better the ice!**

When you are finished resurfacing the ice surface with the *Seely Ice Wizard*, store the unit in a warm dry area if possible. Gently hose off the ice box to get all of the snow off of the machine and plug the charger cord into the vehicle. **Refer to chapter 2 on battery care and maintenance.** Keep ice box in the down position and let blade rest on a rubber surface so the blade is protected. For best results for the ice towel, remove and hang in a warm dry area so it will not get damaged.



# Battery Care and Maintenance

The batteries serve as the powerplant of the *Seely Ice Wizard* and should be cared for as such. This chapter provides care and maintenance information exclusively for your batteries. Follow these guidelines carefully to ensure long battery life.

## General Guidelines

While standing, wet lead acid batteries self discharge at a rate that varies directly with temperature and conditions of service. Batteries should not be allowed to stand for longer than six weeks without recharging.

New batteries are not capable of the full operating capacity until they have been cycled-in.

***Always wear proper protection when servicing batteries***

## Battery cycle life

Battery cycle life depends on the depth of discharge. Therefore, regular charging is the key in maintaining longer battery life.

## Battery Cleaning

Batteries should be cleaned about once a month. Before rinsing off the batteries with tap water, you should neutralize the acid. To do this:

1. Mix ¼ cup of baking soda with 1-1/2 gallons of tap water.
2. Soak the battery tops and sides with this solution and let sit for 3-4 minutes.
3. Follow with low pressure rinse of tap water.

## Checking Cable and Wire Connections

Inspect for any loose or corroded terminals or connections. Clean or tighten as necessary.

## Electrolyte Levels

Checking and maintaining the electrolyte levels in your batteries can save hundreds of dollars by preventing early battery failure due to cell dilution and imbalance. Electrolyte levels drop during discharge and rise during charging. It is mandatory that electrolyte levels be checked and adjusted after the batteries are fully charged. When batteries are new (as all new Seely Ice Wizards are) they will require water approximately every three weeks. As they get older, they will require water more frequently.

- . Never fill a battery before charging unless plates are dry.

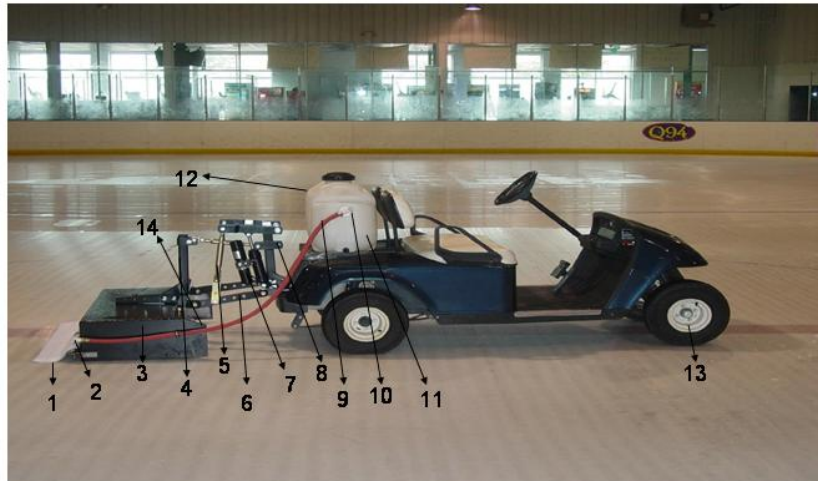
- . Only fill the battery to the maximum fill level which is just below the fill hole.

**Add enough water to cover the tops of the plates. As the battery charges, the electrolyte level will rise.**

- . After filling the battery, reinstall the vent caps with the vent hole in the cap pointing away from the battery terminals to reduce corrosion.



### Seely Ice Wizard Parts List



<u>Item</u>	<u>Part Number</u>
1. Spreader Towel	H-20248
2. Water Wand (including 90 degree turn)	PV-9099
3. Ice Box	IW-721-48
4. Accessory Bar	ATB-48
5. Adjuster Bar	AB-33343 (top) AB-33344 (side)
6. Support Bar	SSB- 1515
7. Hydraulic Unit	KYB-03324
8. Hitch	WHJ-43
9. Water Hose	WH- 30721
10. Water Regulator	WR- 75
11. Water Pump	V-500
12. Water Tank	NT-2691
13. Cart Battery	TT-105
14. Ice Blade	SEL1161-460-47