



ICICLE TRICYCLES

TRICYCLE USER MANUAL

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TOP 10 SAFETY AND MAINTENANCE TIPS:

WHAT YOU SHOULD KNOW ABOUT YOUR NEW TRIKE

1. ***Your trike has a suggested approximate total engineered weight capacity of 350 pounds, including both cargo and rider.***

Exceeding these weight limits may result in damage to your trike.

2. ***Do not sit on the trike box or let anyone ride on or in the trike box with a payload.***

It may exceed the suggested weight limit and potentially cause damage or injury. We designed our trike boxes to carry goods, not people - please use caution when pedaling.

3. ***Always ride with the bottom tube quick release hinge closed and ensure that the latch fastener is securely fastened.*** (See ***Folding.***)

4. ***A basic safety inspection should be performed every time the trike is to be ridden.***

Check that:

- The bottom tube quick release hinge is closed in its fully operational position and the quick release lever is completely and securely fastened. (See ***Folding.***)
- The tires are properly inflated. (We recommend 60 PSI.)
- The wheels are trued (i.e., spinning evenly and freely without visible warps or damage to the spokes or rim).
- The brake pads are not excessively worn.
- All components are properly lubricated.
- The front and back lights are operational.

5. ***Your trike should be inspected regularly by a certified bike mechanic.***

There is a basic maintenance schedule outlined in the ***Maintenance*** section.

6. ***It is important to store your tricycle under proper conditions.***

Always store your tricycle indoors in a temperature-controlled environment, in an area that is protected from the elements and out of direct sunlight. The trike should not be subjected to inclement weather, freezing conditions, or excessive heat for long periods of time. Taking these measures will protect both the cargo box and the working components of the trike.

7. ***Use caution at all times when operating your trike.***

We strongly recommend that helmets be worn at all times when riding!

8. ***Ensure that all operators practice steering and braking the tricycle before taking it out in traffic.***

There are some tips for operating your trike in the ***Steering*** and ***Brakes*** sections.

9. ***Fully reattach the right pedal after unpacking your trike to prevent injury to the rider or damage to the trike.***

There are detailed instructions in ***Reattaching Pedal and Positioning Bell.***

10. ***Our tricycles come equipped with an insulated box*** that can keep product cold and frozen in several different ways. We recommend Dry Ice or Gel Pack Blankets. (See ***Cooling Methods.***) Our trike boxes are self-draining. If you will be transporting ice cubes to serve with your product, they must be stored in a sealable container.

INTRODUCTION & UNPACKING TIPS

Thank you for choosing Icicle Tricycles! We're so excited to get you rolling on your new trike. This manual is filled with tips and suggestions designed to keep you safely riding your Icicle Tricycle for years to come.

YOUR NEW TRICYCLE BUSINESS

Welcome to being the proud owner of an Icicle Tricycle! From pedaling popsicles around Toronto, ON to a product sampling campaign in midtown Manhattan, our trikes love being the center of attention and are incredible vehicles for approachability and engagement. A tricycle provides your own rolling storefront for your mobile business. You can go to where the crowds are - from the beaches to Broadway! We roll our own fleet here in beautiful Portland, Oregon, where we vend everything from flowers to ice cream to coffee to newspapers. We have thousands of miles under our belts, and we want your new tricycle business to work as well for you. If you have questions, feel free to contact us at info@icetrikes.com. Below there are a number of tips for riding and maintaining your Icicle Tricycle. Be safe - and *have fun!*

HOW TO UNPACK YOUR NEW TRICYCLE

Congratulations on receiving your new Icicle Tricycle! We know you're excited, but please use caution when unpacking your tricycle. It is particularly important to take care not to damage or mar the surface of your tricycle box. Make careful and use shallow cuts when cutting through the external layer of packaging to prevent damage.

AVERAGE SHIPPING WEIGHT & DIMENSIONS

It can be helpful for our customers to know the size and weight of our packaged tricycles to assist with questions concerning loading and storage.

- The average dimensions of a packaged tricycle is 52"x44"x43" (1.3m x 1.1m x 1.09m).
- The average weight of a packaged standard tricycle is 250 lbs (113 kg).
- The average weight of a packaged Tap Setup tricycle is 270 lbs (122.5 kg).

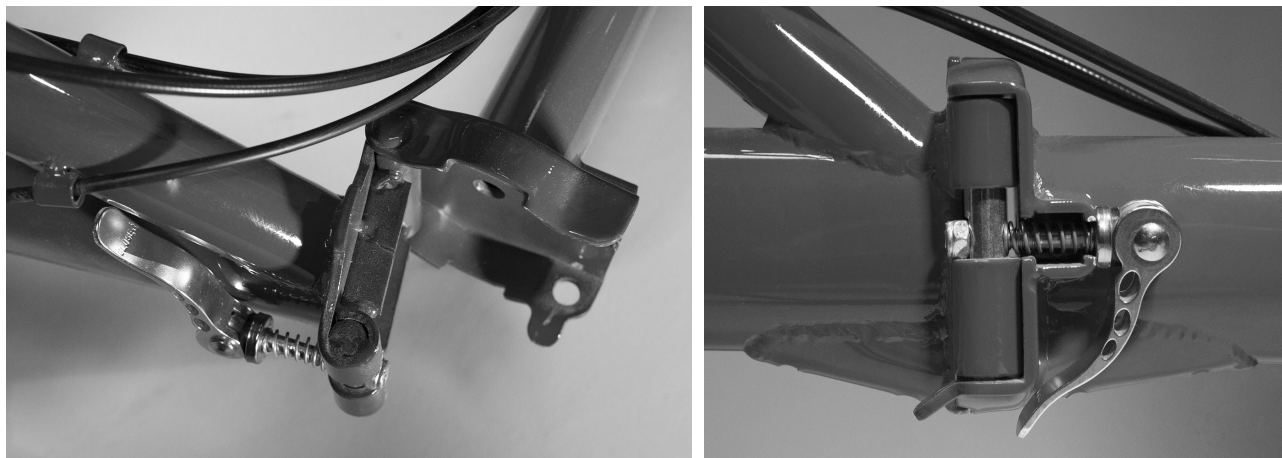
REATTACHING PEDAL AND POSITIONING BELL

- We remove the right pedal of our tricycles before shipping to keep our packages compact. You will find your pedal bubble-wrapped and attached to the seat of your new trike. To reattach, use a 15mm pedal wrench to securely tighten the pedal.
- It is **very important** to use a great deal of torque when tightening the pedal and ensure that the pedal is completely attached. This will prevent damage to the crank arm and pedal from stripping and help to keep your trike's riders safe.
- We flip our trike bells underneath the handlebars during shipping to prevent damage. To reposition the bell, simply flip the bell up from underneath the handlebar and tighten with a Phillips head screwdriver if necessary.

FOLDING

As you'll see when you unpack your new trike, your Icicle Tricycle folds in half for easy storage. Here are detailed instructions for folding and unfolding your trike!

To assemble, simply unfold the bottom tube quick release hinge (located near the center of the tricycle's frame) back into operational position and close the latch.



Here you can see the bottom tube quick release hinge in the open position. To close, fold the hinge back into its operational closed position. To close the latch, rotate the quick release fastener into its slot. Then, fold the quick release lever into a tight, downward position as pictured.

Test whether you have done this properly by attempting to fold the trike. If the quick release lever is properly closed, you should not be able to move the mechanism without disengaging the lever. **Do not ride the tricycle without the folding hinge securely and completely closed,** an unsecured quick release can put the rider in danger and cause damage to the frame.

To fold the bike, pull up on the quick release lever and then over, away from the trike. The bolt is a vertically sprung release, so once the lever is out and over pull up again towards you and the frame should easily fold.

OPERATING YOUR ICICLE TRICYCLE

WEIGHT

Your Icicle Tricycle has a suggested approximate total engineered weight capacity of 350 lbs (159 kg). This includes both the load and the rider. Excessive weight will cause increased wear and tear on the tricycle, and could make steering and braking less precise. Please do not allow anyone to sit or ride on the trike box. It will exceed the suggested weight limit and potentially cause damage to the trike or rider.

GEAR SHIFTING

- Your Icicle Tricycle has seven gears. The lowest, or least difficult gear is fairly easy even when going uphill with a load. The highest, or most difficult gear allows you to move reasonably quickly on flat terrain.
- If the trike has a heavy load in it, you will need to shift gears more often than you would on a regular bike. You should shift to a low gear anytime you stop at a red light or stop sign, even if you are able to easily pedal in the hardest gear once you get moving. Getting moving from a dead stop with a heavy load in the trike while in the hardest gear is very difficult and will cause some wear on the sprockets. Do not put force on pedals when shifting gears.

STEERING

- Steering an Icicle Tricycle is different from steering a bicycle. When riding a bicycle, you lean into turns. On a tricycle leaning doesn't help, and if done at excessive speeds can destabilize the trike. A tricycle is steered with the handlebars alone. It's a good idea to practice in a parking lot or other empty paved area to get the hang of steering without leaning.
- Steering is also affected by how the weight is distributed in your trike. Loads should be distributed evenly throughout the cargo area of the trike, rather than loaded primarily in the front or back. This even weight distribution will optimize the precision of your steering. This is especially important at higher speeds: the faster you are moving, the more careful you should be about weight distribution.
- Do not attempt to take sharp turns when moving fast. Slow down before turning.
- It is important to note that your Icicle Tricycle is not a racing vehicle. Because of the size and weight of your trike, it's a good idea to go at a moderate pace and give yourself plenty of time to brake before taking turns or coming to a stop.

BRAKES

- Your Icicle Tricycle has two brakes. Both are on the back wheel. They are operated with the brake levers located on the handlebar. One is a V-Brake, and the other is a roller brake.
- There are also two parking brakes on your trike. These are located on the handlebar brake levers, and look like spring-loaded buttons.



Press the spring-loaded button while pulling the brake lever toward you to engage the parking brake. The parking brake is engaged when the button is completely depressed. To release, pull firmly on brake lever and the button should pop back up.

- Pump the brakes when stopping to avoid skidding, especially with weight in the trike, when going downhill, or on wet pavement.
- When riding in traffic, leave sufficient clearance between yourself and any car in front of you when stopping. Because of the size and weight of your trike, it's a good idea to go at a moderate pace and give yourself plenty of time to brake before taking turns or coming to a complete stop. Do not attempt to stop abruptly when moving quickly.

MAINTENANCE

Familiarize yourself with this regular maintenance schedule. Team up with a certified bike mechanic in your area to keep your trike rolling at its very best.

TRICYCLE MAINTENANCE SCHEDULE

<i>Every:</i>		<i>DAY</i>	<i>WEEK</i>	<i>Month</i>	<i>3,000 mi. 5,000 km</i>	<i>6,000 mi 10,000 km</i>
<i>Checkup</i>	Inspect tire pressure	X				
	Inspect wheel true		X			
	Inspect nuts & bolts		X			
	Inspect & tighten cranks		X			
	Inspect chain stretch			X		
	Inspect wear of chainrings			X		
<i>Cleaning</i>	Lube & clean chain	X				
	Clean & wash bicycle		X			
	Grease nuts & bolts			X		
	Grease bearings					X
<i>Replacement</i>	Check cables & housing				X	
	Check chain				X	
	Check cassette					X
	Check chainrings					X
	Check tires				X	
	Check bottom bracket					X
	Check grips					X

These are general tips for bike maintenance, please replace parts as needed. The maintenance schedule for our trikes can vary depending on conditions.

- On the rims of your tricycle wheels the manufacturer recommends inflating tires to a pressure of 40-65 PSI (pounds per square inch). We have found that inflating the tires to 60 PSI works best with our trikes. Higher PSI may result in more frequent flat tires,

especially with weight in the trike. Lower PSI will make pedalling slower and more difficult, and using the trike with very low PSI may damage the rim or rim wall of the wheels, especially when hitting cracks and potholes in the road. It's a good idea to invest in a bike pump with a pressure gauge to ensure your tires are inflated to the proper PSI - and it's a great idea to check the tires' PSI every time you are about to hit the road!

- Replace tires when they become worn to prevent skidding and flats.
- Store your Icicle Tricycle indoors in a dry place. Excessive exposure to the elements can increase wear and tear on components.

COOLING METHODS & TECHNIQUES

In our years of experience pedaling ice cream and frozen treats here in beautiful Portland, Oregon, **dry ice** has been the most effective cooling method we've found. We keep the dry ice elevated on top of product because cold air sinks. We've been able to achieve maximum freeze time by consolidating the dry ice and product inward as we sell to keep a tight configuration inside of the box. We buy our dry ice in 3 lb. chunks that are tightly wrapped in newspaper (the newspaper helps slow the air exchange of the dry ice). We recommend 6-12 lbs. (2.7 - 5.5 kg) of dry ice for one full day of pedaling product, depending on the temperature outside:

- 6 lbs: up to 75-80 F
- 9 lbs: 80-95°F
- 12 lbs: 95°F+

With the use of proper techniques, we have found that dry ice will continue to keep our product frozen for 8-12 hours.

Gel Pack Blankets are the most sustainable option we have found and we use them for our trike fleet. The same gel pack can be reused for years. When we pedal trikes, we use 4 Gel Pack Blankets per trike for frozen products and 3 per trike to keep refrigerated products chilled. Gel Pack Blankets are also the cooling method of choice for Tap Setups, where they can be wrapped around the lines and kegs to keep the entire setup chilled. The blankets are composed of small pods linked together to make a flexible blanket. We place one on top of the product and use the remaining Gel Pack Blankets to wrap around it. As we vend our treats, we condense them along with the Gel Pack Blankets inside the box, keeping the Gel Packs solidly wrapped around the remaining product. Using this method we will typically get 6-10 hours of freeze or chilling time with them. Gel Pack Blankets can be refrozen overnight in any type of freezer that they will fit in.

Cold Plates use the same refrigerant gel as Gel Pack Blankets, but are solid bricks and can not be wrapped around the product. We've found these to be less effective than Dry Ice or Gel Pack Blankets. If you do choose to use Refrigerant Gel Cold Plates, we encourage using 6-8 Cold Plates at a time. This option will get you about 4-6 hours of freeze time.

Electric Cold Plates can be installed locally, but are the heaviest, most expensive, and least effective option. They use the same refrigerant gel that is in gel packs or removable cold plates, but carry an entire refrigeration system onboard - reducing cargo space, adding significant weight, and adding heat from the mechanical operations. This option gets you 4-6 hours of freeze time.

TOP 4 IMPORTANT COOLING TIPS!

1. *Keep product consolidated in trike box.* This will allow for less airflow between your product, which will help keep it frozen.
2. *We recommend using expandable insulation* to extend freeze-time as you sell your product throughout the day. An option we've used in the past is emergency space blankets. We like them because they are inexpensive, lightweight, durable and easy to keep clean.
3. *Keep dry ice elevated on top of product.* Remember, cold air sinks!
4. *Use the hatch lid opening instead of the full lid when vending product* to limit the loss of cold air.

INSULATED BOX

- Our tricycle boxes feature removable insulation panels. Bear in mind that sharp objects can puncture or scratch the insulation jacketing.
- To clean the insulation panels, remove them from the trike and wipe down with a soft cloth and a food-grade, non-abrasive anti-bacterial spray cleaner.
- Our trikes are self-draining to prevent moisture backup. If you will be transporting ice cubes to serve with your product, they must be stored in a sealable container to limit drainage.

CARING FOR YOUR TRIKE EXTERIOR

Here are some basic maintenance tips for our different tricycle boxes.

STANDARD BOX MAINTENANCE

- Our standard box panels are extremely durable and will hold up well with the same basic care required to keep any of our trikes in good shape. Your trike should be stored indoors. Do not leave your trike outdoors or exposed to the elements overnight.
- The box panels are coated in a durable laminate coating and should be wiped down or cleaned with non-abrasive material (a soft cloth and a non-abrasive natural cleanser is what we use here).

CUSTOM GRAPHIC VINYL WRAP MAINTENANCE

- Our Custom Wraps hold up very well as long as you take basic care of them, essentially the same basic care necessary to keep any of our trikes in good shape. Trikes with Custom Vinyl Wraps should be stored indoors in a temperature-controlled room - i.e. the trike should not be subjected to inclement weather, freezing conditions, or excessive heat for long periods of time.
- The Custom Vinyl Wrap should be wiped down or cleaned with non-abrasive material. (A soft cloth and a mixture of 50% alcohol and 50% water is what we use here.) Extreme heat will soften the vinyl, making it easier to damage. Use caution on days with heat exceeding 80°F (27°C) if your trike box is in direct sunlight for an extended period of time.
- Be aware the vinyl will naturally weather over time, altering the color of the vinyl wrap slightly. If you notice excessive wear on your Custom Vinyl Wrap consider reassessing your trike's storage conditions.

CEDAR TRICYCLE BOX MAINTENANCE

- Our Cedar trike boxes will last for many years if you take basic care of them, essentially the same basic care necessary to keep any of our trikes in good shape. Trikes with Cedar boxes should be stored indoors in a temperature-controlled room - i.e. the trike should not be subjected to inclement weather, freezing conditions, or excessive heat for long periods of time.
- Occasionally cleaning your Cedar trike box will maintain the natural beauty of the wood. For general maintenance/dusting, wipe down the wood with a soft, dry cloth. For spot-cleaning, wipe the spot away with a moistened cloth, then dry immediately with a soft, dry cloth. (Prolonged dampness can damage the stain.) Periodically wiping the Cedar box down with a natural wood polish can restore shine to the finish.
- Be aware that your Cedar tricycle box will naturally weather somewhat over time. If you notice excessive wear on the wood or finish, consider reassessing your trike's storage conditions.

PREPARING & USING YOUR TAP SETUP

Thank you for purchasing a Tap Setup trike from Icicle Tricycles! Below find instructions and tips to make getting your trike rolling as easy as possible.

SAFETY TESTING

It is important to test all gas connections, including Regulator and Cylinder connections, *prior to use* to ensure no issues have arisen during shipping.

KEG CLEANING

Although your equipment has been sanitized prior to being sent to you, we highly recommend cleaning your keg and liquid lines (clear tubes) prior to their first use. Here are some instructions for cleaning your keg and liquid lines:

1. Release any pressure in the keg. Pull on the manual relief on the lid.
2. Pull up on the lid locking mechanism to open the keg.
3. Wash keg and liquid lines with mild soap and warm water or run sanitizer through the keg under pressure, exactly as you would to dispense a beverage. (Do not use products containing bleach, as they cause pitting.)
4. Rinse the keg and liquid lines thoroughly.
5. Let the keg and liquid lines dry completely.

CYLINDER USE & SAFETY

- Cylinders must be stored and used in an upright position only.
- Protect from sunlight when ambient temperature exceeds 125°F (52°C). Store in a well-ventilated, temperature-controlled place. Cylinders are designed to operate at normal ambient temperatures. Exposure to extreme heat can cause your safety to burst, releasing the tank contents and requiring replacement.
- We recommend using your local fire extinguisher or welding gas company to fill your cylinder. Inform your filler of the cylinder's capacity and do **not** overfill.
- CO₂ tanks must be recertified every 5 years per the regulations from the Department of Transportation. The certification date is on the tank dome.

DIRECTIONS FOR SECURING TAP TOWER

You're almost ready to get rolling! All you need to assemble your Tap Tower is a Phillips head screwdriver and a 10mm socket wrench. (If a socket wrench isn't available, an adjustable wrench will do.)

1. Place clear tubes through rubber ring.
2. Thread the tubes through the large hole on the lid.
3. Line up the screw holes and secure tap tower tightly with screws and nuts using socket or adjustable wrench.

4. Check your setup to ensure no leaks have occurred. If you think leaks may have occurred, try the bubble test (instructions can be found under KEG SEAL TROUBLESHOOTING, below).

KEG SEAL TROUBLESHOOTING

- If you're unable to get the keg to seal, inspect the o-rings and replace any that are dry, cracked, or otherwise damaged. (Although the o-rings have been checked by the distributor prior to shipping, occasionally extreme temperature changes during transit will cause them to dry and/or crack.)
- If there is no visible damage to the o-rings, try a food-grade edible lubricant to improve the seal.
- If these suggestions don't do the trick, you can run a "bubble test" to locate the problem. Pressurize the keg, then apply a solution of warm water and soap to connections, posts, and the keg lid (including the pressure relief). The soap will bubble wherever there is a leak.

UNDERSTANDING YOUR NEW TAP SETUP

HOW IT WORKS

Our Tap Setups work the same as a tap at your local bar. A tap always requires some type of gas, in this case either CO₂ or Nitrogen, to force liquid from the keg through the lines and out the faucet.

CO₂ is used to carbonate many different beverages as it is naturally occurring during the fermentation process and highly soluble in liquids. Nitrogen, on the other hand, is also a naturally occurring gas but far less soluble than CO₂. Nitrogen is primarily used for pushing beverages through a constrictor plate in a stout tap. The combination of the constrictor plate and the high pressure of the nitro creates the frothy head found in Guinness and similar beers.

TAP SETUP COOLING METHODS

Our tap trikes come with an insulated split interior trike box to keep product and kegs cold. What most folks use for chilling Tap Setups are Gel Pack Blankets. Gel Pack Blankets are great because they can be wrapped around the kegs and liquid line. They are flexible, sustainable and can easily be re-frozen for everyday use.

Our trikes are self-draining. If you would like to serve ice cubes with your product they should be kept in a sealable container inside of the trike box.

USING YOUR NEW TAP SETUP

FILLING AND USING YOUR KEGS

Our kegs are easy to fill up. To refill your kegs:

- Pull on the pressure relief on the keg lid to de-pressurize the keg.
- Unhook the keg from the lines.
- Remove the keg lid and pour liquid in.

It is a good idea to give your kegs a light cleaning with warm soapy water between uses.

SATISFACTION GUARANTEE & WARRANTY

We want you to love our trikes as much as we do! That is why we offer a Satisfaction Guarantee and a One-Year Limited Parts Warranty. If you have any questions regarding these policies, please feel free to contact us at info@icetrikes.com.

SATISFACTION GUARANTEE

If you are not completely satisfied with the trike within 3 business days of receiving it, you may return it to us for a refund of the build price minus a 10% restocking fee, as long as it is still in like-new condition. We do not issue refunds for any custom options. The customer is responsible for properly packaging the trike as well as all return shipping costs and payment fees.

ONE-YEAR LIMITED PARTS WARRANTY

We offer a one-year limited parts warranty on all of our tricycles. Icicle Tricycles warrants to the original purchaser of every new Icicle Tricycle, the tricycle and all its parts to be free from defects in material or workmanship for one year, under normal and proper use and maintenance service as specified by Icicle Tricycles in the customer manual supplied with each Icicle Tricycle unit. Please note that the warranty period begins from the date of purchase by the original purchaser. This warranty applies to damages sustained during shipping. This warranty does not apply to cosmetic damage and excludes damage to the product from misuse or abuse, such as (but not limited to) improper use, improper care or cleaning, neglect, accident, alteration, fire, and theft. Our warranty does not cover products purchased from unauthorized retailers or deterioration of the product arising under inappropriate exposure to extreme conditions such as outside weather, heat, or cold. In the unlikely event that your product becomes defective during the warranty period, at the discretion of Icicle Tricycles we will provide replacement parts for your product at no charge. All warranty decisions are made at the discretion of Icicle Tricycles.

With proper care and maintenance, your new tricycle will be rolling for many years to come. We'd love to see some photos of you pedaling once you get going! And if you have any questions, please don't hesitate to contact us at info@icetrikes.com.

Thank you for choosing Icicle Tricycles!