

**THE
SUN TOKEN
OWNER'S MANUAL**

Hector Campos - 2017

Congratulations on your Sun Token! You own a unique and hand crafted treasure. It may outlast several human lives if cared for, so pick an inheritance beneficiary wisely. Spread the word and show solar smoking to the world! Follow us on Instagram & Facebook @thesuntoken and leave us feedback!

The Sun Token has two modes of operation:

You can smoke with or without solar energy. With the dome off, the Sun Token is a traditional hand pipe engineered for perfection. With the dome on, it is the world's first "solar dome pipe", combining vaporization and low temperature combustion in one hit. **Assembly:** You have been supplied with an extra o-ring that you can set aside, or insert into the wooden mouthpiece hole for extra grip.

Combustion Mode (traditional smoking):

This is the oldest and most widely used method of smoking on earth. Take the dome off and keep it somewhere safe. **Air Intake 1** is connected to the bowl and mouth piece inside the wood. While lighting your hit, cover this hole to draw in smoke from the bowl alone. When you release the carb, you will get a mix of fresh air and left over smoke to clear the pipe and finish your hit.



Solar Mode:

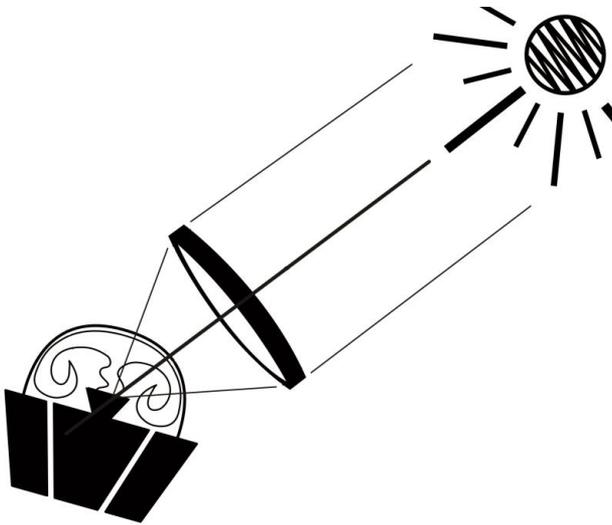
Protect your eyes! Use UV rated sun glasses at all times when focusing light through a magnifying lens.

Attach the magnetic solar dome making sure dirt and debris doesn't block the magnetic connection. You will need a magnifying lens and a sunny day. The credit card sized fresnel lens is a good portable option that works well on full sunny days. The wider the lens, the more sunlight it gathers. Ultimately we recommend a 2.5" to 5" circular lens for quick and powerful burning in a large variety of sun conditions.

You must align the lens and the sun rays in a straight line over the bowl. Hold the Sun Token so that the sun is behind you, and full sunlight shines over the bowl. Cover **Air Intake 2** with a finger and orient the mouthpiece upwards to trap all the smoke in the system. Hold the lens 1 inch over the dome so that it covers the pipe in its shadow. The shadow of the lens should be the exact shape of the actual lens, any twist or tilt of the lens away from the sun's direction will keep the beam from focusing correctly. The lens must be facing the sun oriented perpendicular to the incoming rays.

As you pull the lens backwards, the light passing through the lens will focus into a tiny dot. If you pull too far back, the light will spread out again. It takes some practice mastering this focus. Try to keep this dot as small and steady as you can. Hover over one spot in the bowl until the herb burns up. Then slowly travel around the bowl, watching the herbs crumble and release vapors as you go. Once the dot is as small as possible, you can slowly hover the lens forward and backwards a small amount to bring the powerful focal point through the different layers of the herbs and fine tune your efficiency. Release **Air Intake 2** when you're ready to take your solar hit. Once you practice, solar hits of different concentrations can be built in ~3-20 seconds depending on how small and fresh, or how dense and milky you want your hit. When you gain more experience, you can try widening the dot for slower, lower temperature hits. In time you will be able to fine tune the focus of the light and your technique to burn with more control than a lighter. Extra dark sunglasses help you gain this skill, as you can easily see and adjust the dot's size and shape, and see the reactions of the herbs inside the bowl.

If you're having trouble, your lens may be too tilted in the burning phase. Keep in mind: You must hold the lens so that sunlight is entering straight through and not at an angle. It will not work well if your lens is tilted off angle from the sun, because the concentrated sunlight over the herb will be spread out in an odd shape. So if your lens is circular, the shadow and focused light over the Sun Token must also be a circle. If using a rectangular lens, the shadow and the light must be the same rectangular shape before concentrating the beam.



When the sun is low in the sky (sunrise & sunset) you may have to keep the beam over the herb for a few seconds longer before vaporization occurs. When the sun is powerful and high, you can burn quickly with the beam before it is even fully concentrated.

Smoking with solar energy lies in a twilight zone between vaporization and combustion. This is influenced by many factors: the width of the lens, concentration of the beam, season, time of day, trees, and clouds all play a role in solar smoking. Solar focal point temperatures with an average lens hover around the temperatures that combustion begins. Even at full power, solar smoking burns herb roughly 2,000 degrees F less than lighters, creating a clean taste and experience.

Solar smoking takes practice. Once you master it, it is one of the most satisfying and beautiful ways to smoke. It's also handy when enjoying the outdoors in powerful wind. Enjoy this ancient link to nature, every time you feel the sunlight you may have sun toking in the back of your mind.

Cleaning Directions:

O-RING- When unpacking the Sun Token, make sure one o-ring is seated in the back of the mouthpiece hole. Then insert the glass straw as far in as it will go. The pipe is shipped with an o-ring already seated inside this hole. It is meant to secure the glass straw as well as form an air tight system. You can pull this out easily with a poking device. It can be cleaned with dish soap and water. You have been supplied with an extra. Two o-rings stacked in the piece can grip the straw tighter if desired.

MOUTH PIECE & BOWL- One of the easiest ways to clean borosilicate parts is to soak them in a zip lock bag filled with 99% strength isopropyl alcohol for a day or two. Shake the bag up intermittently, and rinse parts afterwards. Any resin should come off easily with fingers, tube brushes, or cotton swabs. Some suggest adding salt into the bag as an extra step.

SOLAR DOME- The borosilicate dome can be scrubbed and cleaned with a wet lint free cloth and various nontoxic cleaning combinations. Rinse out dirt and debris from the inside of the dome with water before starting, because rubbing in dirt particles with force can contribute to small scratches. It is important is to keep liquids, especially strong cleaners like alcohol, from soaking the magnetic strip and its connection to the dome. Use a cloth to clean the inside and the outside of the dome without submerging the entire dome in liquid like other parts. Our top suggestion is just to use mild dish soap, water, and the friction from your cloth to clean the dome. Alcohol, or even a vinegar & baking soda paste can also be used. Just make sure not to submerge the entire piece in liquid or cleaner for too long- this is to preserve the water resistant bond between the magnet ring and the dome for decades to come. The magnet material may also be degraded by especially harsh, non-recommended cleaners. If resin is stubborn, let alcohol or soap sit in an upside down dome for a few hours without soaking the magnet's connection.

INTERIOR WOOD HOLES- Resin from smoked material will accumulate slowly in the wood's airways. The holes are drilled wide enough to practically never get clogged, so cleaning can be spaced out or forgotten entirely. We suggest not worrying about it unless it gets clogged, or develops an unpleasant smell or taste. Don't use water, and avoid flooding wood with too much of any liquid. Begin by using a small tool (like a flat head screwdriver) to softly scrape any caked resin loose. You can push resin out of the mouthpiece hole and into the main chamber to collect it, or scrape it outward with a curved tool. Then, use a nylon "tube brush" to scrub deeper. This may be used dry, or dipped in 100% pure flaxseed oil (for mild cleaning), or dipped in 99% isopropyl alcohol (for deep cleaning) to scrub and loosen up the remaining resin. Send a brush through dry as a last step. Don't use anything toxic that the wood may absorb. Alcohol evaporates quickly away from wood and cleans resin well, but let it dry out before re-using your pipe or refinishing it with the pure flaxseed oil.

WOOD SURFACES- Use a lint free cloth, brush, sponge, or extra fine steel wool to rub off dirt and stains while dry or, or just barely damp. For heavy duty cleaning, use a tiny amount of pure flaxseed oil and extra fine steel wool. Let the oil dry afterword. For extreme cleaning, a small amount of isopropyl alcohol may be used, but alcohol can strip away some of the pure flaxseed oil finish. We recommend replenishing the wood with more oil after deep cleaning with alcohol. Once the alcohol evaporates, you can rub a little oil in with a cloth or extra fine steel wool. Wipe away excess oil, and let it dry near sunlight for a day or two.

Over time- moisture, cleaning, nature, and general use can make the wood surface less perfect than when you first got it. Cleaning can also slowly wear away the pure flaxseed oil finish. You can ignore these signs of wear and let the Sun Token show its age, or learn how to refinish the wood using the guide lines in the next section.

About Refinishing:

Finishing wood is an art form. It takes practice and preparation. Your Sun Token has been coated with 100% pure flaxseed oil, which has cured and hardened (polymerized) to form a nature resistant layer infused with the wood. Age, abuse, sunlight, and cleaning can wear down the finish and the smoothness of the wood over time. You don't have to worry about it, but refinishing your Sun Token adds protection and luster back to your wood.

Refinishing Directions:

Gently clean the surfaces and internals from dirt and resin following the directions in the previous section. Usually, simply rubbing a light coat of 100% pure flax seed oil into the wood with fine or extra fine steel wool is enough. For extreme refinishing, here is another method:

SANDING & ADDING ONE LAYER OF OIL:

Sand the outside surfaces with 320-400 grit sand paper following the direction of the grains in the wood. It takes experience to know which patterns are actually the grains- they are the tiny fibers of the wood, and sometimes impossible to spot without experience. They are not the dark "tree ring" lines (these growth rings are part of the wood's "figure"). Ultimately, since we are working with such a fine grits, it is okay to just sand in one direction you choose and stick to it for consistency. On the top, bottom, left most, and right most sides of the block, the grain runs parallel to these easy to spot growth lines. So for the top and bottom of the pipe for example, you can run the paper up and down the same direction as the dark lines. On the other faces (the 3 facing you, and the 3 on the back), the grain actually runs more or less perpendicular to the dark tree ring lines. Tiny, light colored "rays" are sometimes visible on these faces, and look like laser thin grains of rice. Here, the grain runs with the "rays". Consult help if you are unsure.

Once sanded- wipe, or dunk the piece in 100% pure flaxseed oil and pull it out immediately after all the internals have filled with oil. Wipe away all the excess oil with a cloth (especially the metal ring) and put the wood somewhere to dry upside down with plenty of fresh air, sunlight, and over an absorbent cloth for the dripping oil. Start with the piece upside down to allow the oil to run out of the internals and away from the steel ring as it dries.

As an extra step, you can now sand the wood faces with extra fine "wet or dry" sand paper (600-1000 grit) after the piece is dunked in oil, wiped down, but still wet. This will lead to an extremely buttery smooth finish in the end, (maybe even smoother than a new Sun Token).

Rotate the piece every day or so while drying, wiping away any excess oil and exposing all the different sides of the piece to sunlight (or artificial UV light). In 3-5 days it should be dry enough for a final buff with a lint free cloth. (2 days if in direct sun).

Drying the ring off completely when the oil is still wet will help make it spotless in the end. The stainless steel ring may get some tough, dried oil on it once everything is finished- you can dip cotton swabs or cloth lightly in 99% isopropyl alcohol to rub and polish off of the metal.

OR:

Ignore it! It's a resilient species of wood. It may grow old and grey over the decades just like you, but it will still be smokin'!

Tips and Tricks:

Wider lenses gather more solar energy and higher possible temperatures. We recommend a circular lens with a diameter of around 2.5 to 5 inches for best results.

After your hit has started building, we recommend taking small hits in the range of 5-15 seconds of burn time. This leads to the freshest taste possible. You can build hits for longer than that, but this time window is where the most complex flavor profiles are (in our opinion).

The finer the herb is ground, the faster it burns under solar light.

Small bowls are efficient and can be incinerated in one hit. In denser bowls, the top layer is burned first when solar smoking. Mix the bowl up with a poking device to expose fresh herb underneath.

While solar smoking, orient the glass mouthpiece skyward to keep vapors from migrating out due to gravity.

When you focus the light over the herb into a dot, experiment with its focus by bringing the lens a little bit forward and back very slowly. Sometimes a slow, backwards and forwards shift in focus can bring the hot focal point through the various layers of material in the bowl. It can also help determine the best position of the lens, if you are having trouble finding the right focus point.

Dirt and debris caught between the dome's magnet and the metal ring can cause an imperfect fit, and allow vapors to escape the chamber.

Precautions:

Rags soaked in flaxseed oil (or any "drying oil" such as walnut and tung oil) naturally generate heat as the drying process begins- this is a fire hazard. Let any soaked rags air out individually, spread out, and away from flammable material.

Do not use toxic chemicals on the wood, which could absorb them.

Rinse the dome, straw, and 14mm slide in water after using any chemicals to clean it.

Wear dark sun glasses rated for UV protection while solar smoking.

Don't focus the beam of magnified light into the magnet strip, stainless steel plate, wood, or your skin. Whatever you concentrate the light over (except for borosilicate glass) will burn!

Beware of reflections of the concentrated light off of reflective surfaces.

Version 2

This manual is updated over time. Download the latest version
at www.suntoken.com

For questions, repairs, and collaboration- contact us through
www.suntoken.com or thesuntoken@gmail.com

WARRANTY

We take great care to ensure every piece is held to a rigorous standard of craftsmanship. The nature of custom milled wood blocks is that small knots, burls, peculiarities, and unique grain patterns can occasionally be seen under scrutiny. Every block is one of a kind and we hope you fall in love with your unique piece of tree. Should you receive any broken or missing part- please take pictures and email us within 14 days of delivery to remedy the issue. Use the "Contact Us" page of www.suntoken.com or email us at thesuntoken@gmail.com. We want you to be happy with your purchase. Every stainless steel ring's connection to the Sun Token, and magnetic ring's connection to the solar dome is warranted for life. Contact us for questions, concerns, and advice..

SAFETY INFORMATION:

Every material in the Sun Token was carefully selected for safety, non-toxicity, and endurance. Cherry wood has been used in smoking pipes throughout centuries. The pure flaxseed oil finish is a safe edible oil prior to hardening in the wood. Borosilicate glass is designed for high heat applications, and is a standard high end material for smoking pipes. The metal ring is non-coated stainless steel, and is bonded to the wood with a FDA compliant food grade silicone sealant. The O-ring is FDA compliant food grade nitrile.

DISCLAIMER:

The Sun Token is for legal use only and for customers 21 and older. Buyer shall determine the suitability of any product for its intended use and assume all risk in connection therewith. Buyer assumes the full risk and responsibility for the use of any information or documents obtained on or accessed through the suntoken.com site.