

***THE BOOK OF
SUN TOKEN
WISDOM***

Hector Campos – 2019

Congratulations on your Sun Token! You own a unique and hand crafted treasure. Spread the word and show solar smoking to the world! Follow us on Instagram & Facebook: @thesuntoken and leave us feedback!

Protect your eyes! Use UV rated sun glasses at all times when using a magnifying lens and watching the concentrated light.

Part assembly and fit.

Mouth piece and small o-rings: Included are two small o-rings to help secure the glass mouthpiece and form an air-tight seal. One comes already inside the pipe. The 2nd one is an extra. You can stack them both in the pipe for extra grip. Seat o-rings flat in the back of the hole before pressing and twisting the straw through.

Dome & large rubber ring: The large ring is a silicone piece that can be stretched back on or off the pipe. The ring should be pushed all the way down on the wood by sliding your finger around the ring while pressing down. **To secure the dome:** place the dome straight and level with the rubber, twist or press it down. You can twist it on as loose or as tight as desired. You choose what level of fit is best for the moment. Tight is good for travel, but less tight may be good for when you need to reload the bowl often. If the dome is not twisted on very tight, or is not level, use caution as it may come off. To get the dome off, get a firm grip on the glass, and slowly twist up and off. Putting the silicone ring on upside down offers a different style of fit depending on your preference.

Operation:

You can smoke with or without the dome. With the dome off, the Sun Token is a traditional hand pipe. With the dome on, it is the world's first "solar dome pipe", combining elements of vaporization and combustion in one unique experience.

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 herb, cover this hole to draw in smoke from the bowl alone. When you release the hole, you will get a mix of fresh air and any left over smoke to clear the pipe. Air intake 2 is disconnected from the air path, it only functions when the dome is on.



Solar Mode:

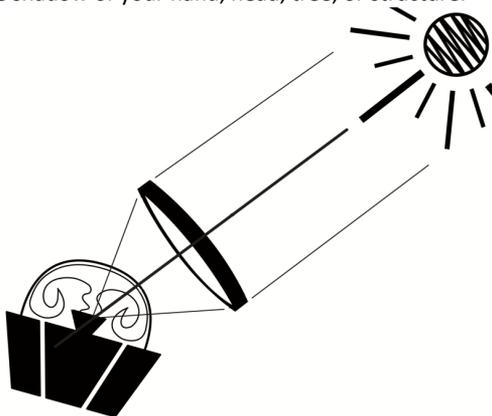
Protect your eyes! Use UV rated sun glasses at all times when focusing light through a magnifying lens.

You will need a magnifying lens and a clear visual of the sun. The wider the lens, the more sunlight it gathers. Ultimately we recommend a lens 2.5 to 4.5 inches wide (~65-120mm) for quick and powerful burning in a variety of sun conditions, such as sunrise and sunset, and light cloud cover.

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 to trap the air in the system. Hold the pipe so the mouthpiece is angled upwards so smoke doesn't drift out. **You must align your magnifying lens and the incoming sun rays in a straight line over the bowl.** A quick way to find the sweetspot is to 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 direction of the sun will keep the beam from focusing correctly. **The lens must be facing the sun flat and perpendicular to the incoming rays.**

As you pull the lens backwards, the light passing through the lens will slowly focus into a tiny dot. If you pull too far back, the light will begin to 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 starts releasing vapors and fumes. Then slowly glide the light around the bowl, watching the herbs crumble and release smoke as you go. Release **Air Intake 2** when you're ready to take your solar hit. With practice, once the dot is as small as possible, you can hover the lens forward and backwards a small amount to bring the powerful focal point through the different layers of the herb and fine tune your burning. Solar hits of different concentrations can be built in 3 to 20 seconds depending on how small and fresh, or how dense and milky you want your hit. You can also try widening the dot for slower, lower temperature hits. In time you will be able to fine tune your burn with more control than with fire. Dark sunglasses help because you can easily see and adjust the dot's size and shape, and see the reaction of the herbs inside the bowl.

If you're having trouble, your lens may be too tilted in the burning phase. 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 a parabola or oval shape. So if your lens is circular, the shadow and 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 while concentrating the beam. You may also be accidentally covering part of the lens surface with the shadow of your hand, head, tree, or structure.



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 burning 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, and is influenced by many factors. The width of the lens, concentration of the beam, season, time of day, trees, clouds, and personal technique all play a role in solar smoking.

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 smoking 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- You can pull this out easily with a small 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. The o-ring should be seated flat in the pipe before twisting in the glass straw.

MOUTH PIECE & BOWL- One of the easiest ways to clean these borosilicate parts is to soak them in a bag or bowl filled with isopropyl alcohol for a day or two. Rinse and scrub the parts afterwards, a "tube brush" can help scrub the internals. After soaking, resin should come off easily with fingers, tube brushes, or cotton swabs. Another round of soaking and scrubbing may be needed for extra dirty parts.

SOLAR DOME- The borosilicate dome can be scrubbed and cleaned with a wet lint free cloth and many common non-toxic cleaning combinations. Rinse out dirt and debris from the inside of the dome with water before starting, because rubbing in sand and dirt particles with force can contribute to small scratches over time. Dish soap, water, and the friction from your cloth should be enough to clean the dome. Isopropyl alcohol, or even a vinegar & baking soda paste can also be used. If resin is stubborn, let alcohol sit in an upside down dome for a few hours then scrub.

INTERIOR WOOD HOLES- Resin from smoked material will accumulate slowly in the wood's airways. The holes are drilled wide enough to never get clogged, so cleaning can be spaced out or forgotten entirely. We suggest not worrying about it unless it somehow gets clogged (wow, congratulations!) or develops an unpleasant smell or taste. Begin by using a small tool to softly scrape any caked resin loose and out. Then, use a stiff "tube brush" to scrub through the holes. This may be used dry, or dipped in 100% pure tung, walnut, or flaxseed oil (for mild cleaning), or dipped in isopropyl alcohol (for deep cleaning). After alcohol we recommend replenishing the wood with one of the oils. Don't use anything toxic that the wood may absorb. Avoid flooding the wood with too much of any liquid. Alcohol evaporates away from wood quickly and cleans resin well, let it evaporate fully for several minutes before re-using your pipe or refinishing it with the pure oil.

EXTERIOR WOOD SURFACE- Use a lint free cloth or t-shirt to rub off dirt and stains while dry or just barely damp. For heavy duty cleaning, pure tung, walnut, or flaxseed oil can actually be used to help scrub away stains with clothe, or even 600-1000+ grit "wet or dry grade" sandpaper. Wipe away as much oil as possible and let dry afterwards. For extreme cleaning, isopropyl alcohol may be used, but repeated uses of alcohol can strip away some of the pure oil finish over time. We recommend replenishing the wood with more oil after rubbing with alcohol. Once the alcohol evaporates, rub pure flaxseed, walnut, or tung oil in with a cloth. Wipe away excess oil, and let it dry near sunlight for a day or two.

About Refinishing:

Time, moisture, cleaning, and general use can make the wood look more aged than when you first got it. You can ignore these signs of wear and let the Sun Token show its age, or refinish your Sun Token to add visual luster back to the wood. Finishing wood is an art form. It takes practice and preparation. Your Sun Token has been coated with 100% pure tung oil, which has cured and hardened (polymerized) to form a nature resistant layer infused with the wood. This can be re-applied with either pure tung oil, flaxseed oil, or walnut oil. Afterwards, it must be given time to dry and harden again. Learn more below:

Refinishing Directions:

Take the large rubber ring off, and the small o-ring out of the mouthpiece. Gently clean the surfaces and internals from dirt and resin following the directions in the previous section. Usually, simply rubbing a light coat of oil into the wood with 600-1000+ grit “wet or dry grade” sandpaper is enough. **Never sand the wood surface where the big rubber ring stretches around, this may alter dome fit.** For more in-depth refinishing, read below:

ADVANCED DIRECTIONS FOR SANDING & ADDING A LAYER OF OIL:

Sand the outside surfaces with 400-600 grit “wet or dry grade” sand paper following the circular shape and curves of the round piece of wood. Anything under 320 grit will start to change the shape of the wood piece. For the branded bottom surface, gently sand in a linear direction following the small grains in the wood. Finding the grain of the wood is tricky- they are not the dark growth ring lines, but instead may look like tiny, thin rays in the subtle texture of the wood. Try to maintain a gentle pressure to preserve the laser engraved mark's detail.

Once sanded- wipe or dunk the piece in 100% pure tung, walnut, or flaxseed oil and pull it out immediately after all the internals have filled with oil. Wipe away all the excess oil with a cloth and put the wood somewhere to dry with plenty of fresh air, sunlight, and over an absorbent cloth for dripping oil. It may continue to bleed out more oil, continue wiping over time to keep blotches of oil from hardening unevenly. The goal of placing the piece in fresh air and sunlight is to harden the oil into an even, thin layer while wiping excess build-up. That is why these natural, non toxic oils are called “drying oils” and have served as wood finishes for centuries.

As an extra step, you can even sand the wood faces with extra fine “wet or dry grade” sand paper (800-1000+ grit) while the pipe is still wet with oil. This will lead to an extremely buttery smooth finish in the end, even smoother than a new Sun Token.

Rotate the piece every day or so while drying, wiping away any excess oil that bleeds out, and exposing all the different sides of the piece to sunlight (artificial UV light, or even a blowing fan can also help if no sun is available). In 3-5 days it should be dry enough for a final buff with a lint free cloth (2 days or less if in a warm sunlit area like a window).

OR:

Ignore it! It's a resilient species of wood. It may grow old looking 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 glass lens with a diameter of around 2.5 to 4.5 inches (~65-120mm) for best results, safety, and portability.

Taking small solar hits of 3-10 seconds leads to the freshest taste possible. You can build big milky hits for longer than that, but a shorter time window is where the most fresh, complex flavors can be present.

Wood is always “breathing”- Keep your pipe in a dry location indoors to preserve it for generations to come by limiting the atmospheric humidity cycles of the outdoors.

Small bowls are efficient and can be incinerated in one hit. In bigger 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 upward to keep vapors from migrating out due to gravity.

Having trouble finding the solar focus point? Bring the lens a little bit forward and back very slowly. A slow, backwards and forwards shift in focus can help determine the best position of the lens.

Your pipe has been designed to survive a water logging event. If your piece gets left out in the rain or dropped in water, just wipe it off and let it sit in a dry location. After a water logging event, the dome's fit may be tighter for awhile. Water will evaporate from the wood and it will return to a normal fit in a few days. Never use an unnatural heat source.

Your pipe has been designed to always fit the dome no matter how dry or moist the wood is. In the rare case that your dome seems to fit too loose, you can flip the silicone ring upside down, or even inside out, for alternate fit styles and a tighter squeeze.

Precautions:

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.

Dirt and debris caught between the dome and rubber may cause an imperfect fit. Try to keep it free of particles. Twist the dome on evenly and level to the wood, a dome twisted on crooked may not be as secure and pop off later.

Don't focus the beam of magnified light on the 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 any mirror like surfaces.

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

Never try to dry your pipe by using a heater, oven, or any other concentrated form of heat.

Sun Token Manual V.1.2019

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 handcrafted 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 and let us 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 investment. Every wood base is warranted for life, if your base becomes non functional as a Sun Token due to normal use, we will attempt to repair or replace it. 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 tung oil finish is non-toxic oil that poses no risk to your skin or health and has hardened into a solid layer within the wood. Borosilicate glass is designed for high heat applications, and is a standard high end material for smoking pipes and cookware. The rubber rings are silicone, a non-toxic material used in high end smokeware and cookware.

DISCLAIMER:

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