

# orion

*series*



**shademaker**<sup>TM</sup>  
architectural shade

owner's manual

## **WARRANTY:**

Upon receipt of your Orion, please check to ensure you have received all of the parts. Shademaker manufactures all its shade styles from the finest aluminum alloys to ensure the strength, durability and integrity of each and every style. We pride ourselves as a totally vertical operation. This means that we manufacture and produce over 90% of the components used in our products from the raw state. We can monitor every stage of the manufacturing process and maintain a consistent level of quality.

Our only business and focus is shade and shade type products. Our goal is that each and every Shademaker style will exceed your expectations at a competitive price that will make you smile.

Our Limited Warranty is outlined below by individual styles. Please note, wind damage is not covered under any manufacturer's warranty

Our umbrellas are serviceable, meaning that parts can be ordered under warranty at no charge, if found that the damage is a manufacture defect and/or purchased out of warranty to make them whole again.

**10 Year Limited Warranty** includes the Galaxy, Orion and Astral styles. This includes the mast, boom, head fitting, elbow, center pole, top and bottom hubs and stainless steel hardware only. If there is damage under the warranty, Shademaker will replace and/or repair any item listed in this category at its discretion.

**10 Year Limited Warranty** includes the Sunbrella® Awning & Marine Grade Fabric Collection. Visit [www.sunbrella.com/warranty](http://www.sunbrella.com/warranty) for more details. Labor charges are not covered under this limited warranty.

**5 Year Limited Warranty** also applies to O'bravia™ Awning Grade fabrics. Visit [www.obravia.com](http://www.obravia.com) for more details. Labor charges are not covered under this limited warranty.

**1 Year Limited Warranty** covers the powder coat finish on our steel bases. If the powder coat finish flakes, bubbles, peels or loses color; Shademaker will re-finish or replace the defective bases at its discretion. Normal wear and tear is not covered under this limited warranty.

**Exclusions:** Wind damage, acts of nature (such as, but not limited to, freezing or any type of extreme weather.) Normal wear and tear and failures caused by abusive use are not covered under this warranty.

Those filing warranty claims will be responsible for all shipping, handling and freight charges on all claims to Shademaker in Baldwin Park, CA. All warranty claims must be submitted with the original proof of purchase, date of purchase, name of dealer and the description of the damage. An authorized Shademaker RA# must be listed on all products being returned. The Shademaker warranty is not transferable. Shademaker reserves the right to repair, replace and/or redesign any product that is returned under a warranty claim.

**IMPORTANT:**

Please read this entire manual before installing or operating your Orion umbrella.

**ORION WIND RESISTANCE GUIDELINES:**

Moderate to Moderately Strong Winds (if used with mount kits)

When installed properly, the Orion is engineered to handle moderate to moderately strong wind conditions in the open canopy position. Please adhere to these wind guidelines:

1. The Orion should always be left in the folded and strapped position when unattended or not in use.
2. In anticipation of, and during extremely severe weather conditions, it is advisable to remove and store the entire Orion structure to protect it from storm-related debris.



**SHAPES AND SIZES**

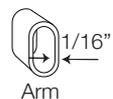
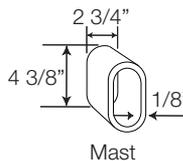
Orion	2.7m / 8'9"	3.0m / 9'9"	3.0m / 9'9"	3.5m / 11'5"	4.0m / 13'1"
	Square	Square	Octagon	Octagon	Octagon
A	3'1"	3'1"	3'1"	3'1"	3'1"
B	9'6"	10'6"	9'4"	11'4"	12'3"
C	6'8"	7"	6'7"	7'2"	7'1"
D	6'9"	6'11"	7"	7'4"	7'4"
E	9'3"	9'7"	8'11"	9'4"	9'10"
F	2'4"	1'9"	3'6"	2'9"	2'6"
G	5'9"	6'2"	5'4"	6'3"	7'3"

Weight: Approximately 88 lbs.

Mast Shape & Diameter: 2 3/4" x 4 3/8" oval

Mast Thickness: 1/8"

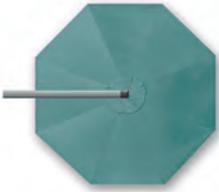
Arm Thickness: 1/16"



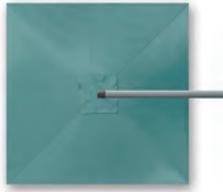
## THE ORION SHADEMAKER SIDEPOST DESIGN

This attractive and sturdy sidepost features mast and boom styling, 360° rotation and a canopy structure that easily disconnects for storage. The Orion is an excellent choice for windy locations. The Orion sidepost combines the sizing of the Sirius with the styling of the Galaxy.

### Two Shapes



Square



Octagon

### Five Sizes

<b>Orion 2.7</b>	8'9"	Square
<b>Orion 3.0</b>	9'9"	Square
<b>Orion 3.0</b>	9'9"	Octagon
<b>Orion 3.5</b>	11'5"	Octagon
<b>Orion 4.0</b>	13'1"	Octagon

**Applications:** Commercial and Residential

**Features & Functionality:** Rotates 360° around the mast, canopy hangs folded from boom when not in use, designed for simple removal of entire canopy structure from headfitting, unique, fool-proof rotation locking mechanism, state-of-the-art external winding mechanism makes it easy to raise and lower, vented canopy provides greater stability as winds increase, canopy fabric is fade, rot and mold resistant; water, oil and dirt repellent, light weight, three piece design for seasonal removal and storage.

**Materials & Components:** Yacht grade, UV resistant 20 micron anodized aluminum mast, arms, and struts; extremely thick sidewalls; marine grade stainless steel hardware; highest grade polyester winder cordage; glass filled black resin moldings and components; gold passivated and powder coated steel spigot and base plate.

**Wind Resistance:** Can handle moderately strong winds; lower canopy as winds get stronger or become gusty; and when unattended for an extended period.

### Installation Options

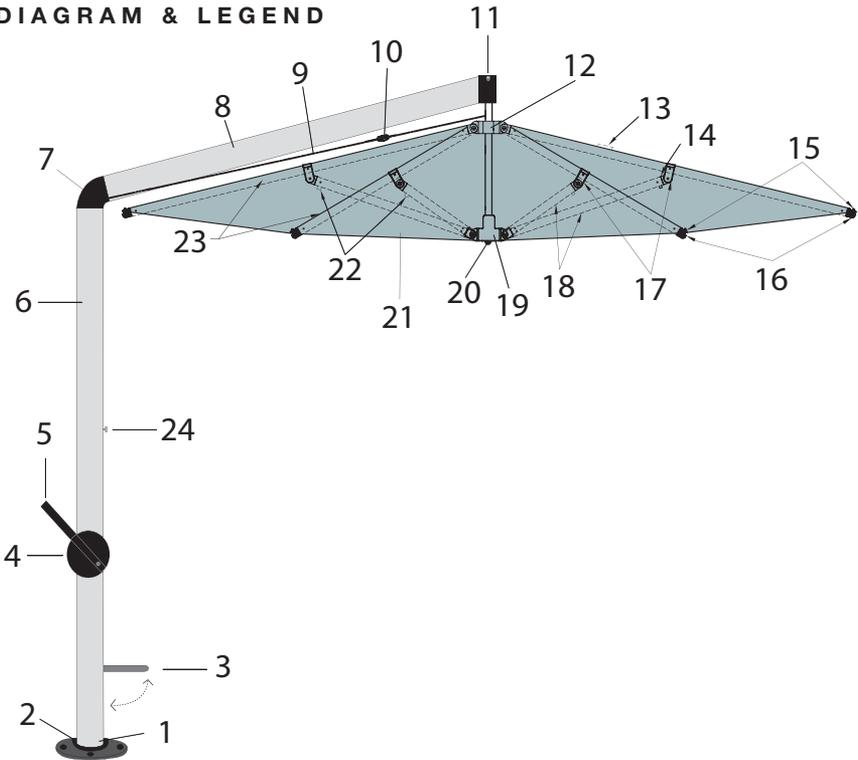
- Bolt to base plate (plate bolted to concrete patio or wooden deck)
- Install in-ground or build into concrete with in-ground fitting
- Free standing base

## ABOUT THE ORION

This high quality shade solution combines functionality and design in an elegant way and will provide you with years of enjoyment and satisfaction.

- 1. MARINE GRADE ANODIZED ALUMINUM:** Proprietary extrusions of high tensile alloy ensure long life in exposed conditions.
- 2. GLASS FILLED COMPONENTS:** Proprietary moldings are of the latest development for strength and resistance to UV degradation.
- 3. 100% SOLUTION DYED CANVAS:** Top quality canvas leads the world in color-fastness and quality retention properties. Canopies are fade, rot and mold resistant.
- 4. MARINE GRADE STAINLESS STEEL:** The Orion is equipped with the latest in marine grade stainless steel hardware.

## DIAGRAM & LEGEND



- |                   |                       |                       |
|-------------------|-----------------------|-----------------------|
| 1. Internal Stem  | 9. Stainless Wire     | 17. Arm Strop         |
| 2. Acetal Ring    | 10. Sister Clip       | 18. Strut             |
| 3. Turning Handle | 11. Heading Fitting   | 19. Lower Hub         |
| 4. Crank          | 12. Upper Hub         | 20. Light Adapter     |
| 5. Crank Handle   | 13. Canopy Bracket    | 21. Canopy            |
| 6. Mast           | 14. Small Arm Fitting | 22. Spacer Button     |
| 7. Elbow          | 15. Canopy Button     | 23. Canopy Arm (long) |
| 8. Boom           | 16. Arm End Fitting   | 24. Sister Clip Stud  |

## COMPONENTS, FITTING & HARDWARE

- 1. INTERNAL STEM:** The Orion mast slides directly over the internal stem as a sleeve. The plate of the internal stem is 9" in diameter and 3/8" thick. The internal stem is 19" in height and has 10 holes on the top which allow the Orion to be rotated 360° around the mast.
- 2. BASE PLATE:** The 9" diameter, 1/2" base plate is bolted to an existing concrete slab or to a wooden deck. The internal stem then bolts to the top of the base plate.
- 3. STEM BOLTS:** Four (4) countersunk stem bolts are used to bolt the internal stem to the base plate or to the top of the in-ground fitting. Stem bolts are 3/4" in length.
- 4. MAST OVER INTERNAL STEM:** This photo shows how the mast looks when it is installed onto the internal stem. The internal stem is bolted either to a base plate or the plate of the in-ground fitting.
- 5. TURNING HANDLE:** Rotates umbrella and locks into place.
- 6. CRANK:** The crank facilitates the opening and closing of the Orion canopy structure.
- 7. SPACER BUTTONS:** Eight (8) spacer buttons need to be inserted into predrilled holes on the eight arms. Spacer buttons must be left inserted at all times as they ensure the Orion canopy structure opens easily by not allowing the arms to get locked down. See page 6 for spacer details.



## INSTALLATION OPTIONS & GUIDELINES

To ensure proper longevity, correct installation is essential. There are three standard installation options which provide the best stability for the Orion. Depending on your situation, you will have requested one or more of the following Orion mounting kits at the time of your order: concrete, in-ground or wood mount kit.

**FREE-STANDING BASE OPTION:** If it is not feasible to mount your Orion to a concrete patio, wooden deck or in ground, you may have purchased, or need to purchase, an optional free standing base. The free standing base may ONLY be used with the properly weight base (verify with your dealer). This base is an acceptable alternative, but will not offer the same level of stability as the three standard options. If using a free standing base, the wind guidelines change from moderate to moderately strong wind to light winds only.

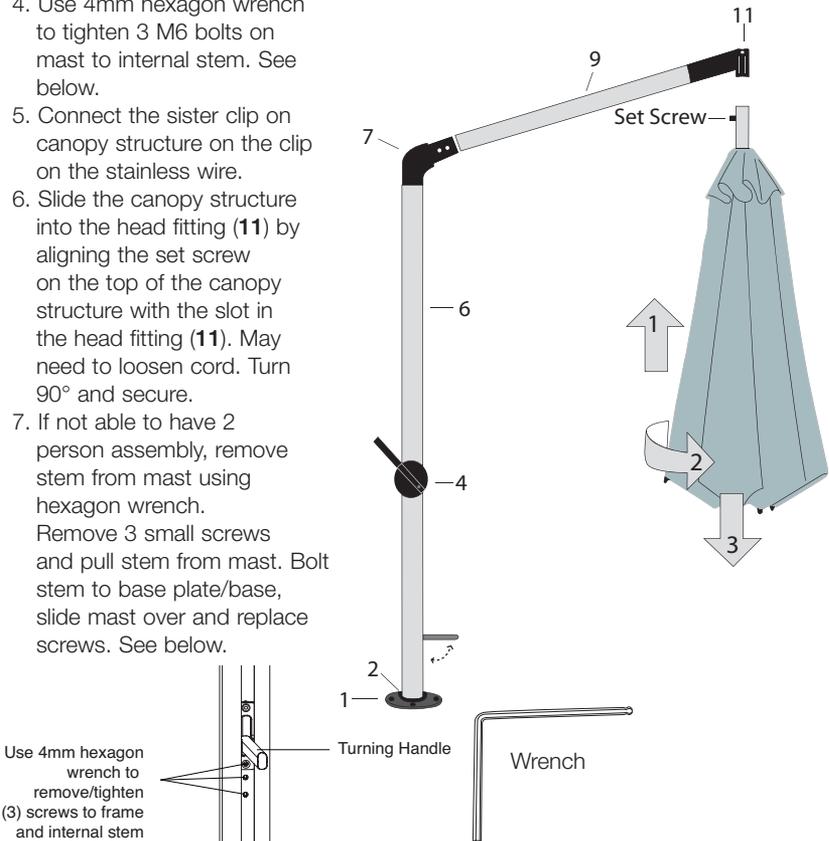
**IMPORTANT:**  
**Insert the Spacer Buttons Immediately!**

It is imperative that the eight (8) spacer buttons (white plastic cups/screws) are inserted after the canopy is opened for the first time. Spacer buttons stop the arms from closing completely and make it much easier to open the canopy single-handedly.

When opening the canopy for the first time, the arms will have to be helped open manually to facilitate cranking. **Never force the arms!** Once the canopy is open, insert the spacer buttons. Holes have been predrilled and you will need to insert the spacer buttons (white plastic cups/screws), one per arm.

**ASSEMBLY INSTRUCTIONS**  
**Two-person team is recommended for assembly.**

1. Unpack the Orion and lay it out on the ground as in the drawing, assuring the crank (4) is facing upwards.
2. Fasten the boom (9) to the elbow (7) by inserting and tightening the four screws provided (two on each side).
3. Lift the entire mast and boom and align countersunk holes on stem of umbrella with threaded holes on base plate(s) or mount kit.
4. Use 4mm hexagon wrench to tighten 3 M6 bolts on mast to internal stem. See below.
5. Connect the sister clip on canopy structure on the clip on the stainless wire.
6. Slide the canopy structure into the head fitting (11) by aligning the set screw on the top of the canopy structure with the slot in the head fitting (11). May need to loosen cord. Turn 90° and secure.
7. If not able to have 2 person assembly, remove stem from mast using hexagon wrench. Remove 3 small screws and pull stem from mast. Bolt stem to base plate/base, slide mast over and replace screws. See below.



## OPERATING INSTRUCTIONS

By now, you have installed your base plate(s) or in-ground fitting, bolted your internal stem to the base plate or in-ground fitting, and have followed the early instructions to slide the mast over the newly mounted internal stem. The mast should be seated on the acetal ring and bolts should be tightened on mast.

If the mast is properly seated, the Orion will not rotate or lift. You are now ready to operate your Orion.



Closed position

Horizontal (Open) position

### TO OPEN THE ORION CANOPY

1. Undo the strap and turn the crank handle in clockwise direction. **CAUTION:** Arms may need to be freed manually to facilitate cranking upon first opening. **NEVER force the arms!** Continue cranking until canopy is taut.
2. Install (8) spacer buttons as mentioned on page 6.

### **CAUTION: NEVER FORCE THE ARMS OPEN IF YOU FEEL RESISTANCE IN THE WINDER!**

If you feel resistance in the winder, you should manually pull out a few arms to help facilitate winding. Once the canopy is open, look up into the arms to confirm that all spacer buttons are inserted. You should be able to locate small white plastic circular “buttons”, one in each of the arms. If you do not see all eight spacer buttons in place, contact dealer immediately. Until you have received new spacer buttons and have all eight installed, continue to manually pull out a few arms with each opening to facilitate winding open the canopy. The Orion warranty does not cover repairs resulting from not having eight spacer buttons inserted at all times.

## **TO ROTATE THE ORION LATERALLY THROUGH 360°/ 10 POSITIONS**

There are 10 holes at the top of the internal stem.

1. Raise the turning handle and rotate mast to a new position.



## **TO LOWER THE ORION CANOPY**

1. Open winder handle and turn crank handle and continue winding until canopy is lowered, strap canopy.

## **TO PROPERLY FOLD THE ORION CANOPY**

The 100% solution dyed canopy will last longer if you fold it as it was packed and shipped. This technique is similar to the way a parachute is folded and is especially important when folding the Orion canopy for seasonal storage or when the Orion is to be left in the closed position for an extended period of time.

Using this technique at all times will significantly extend the life of the canopy.

1. When the canopy has been fully lowered, stand in front of the canopy structure and begin the folding process by pulling out two panels opposite the mast. Pull the two panels together and roll tight into the canopy.
2. Once rolled tight, pull adjacent panels out one at a time and fold to the center, alternating sides until all the panels have been pulled out from the arms and folded into the center.
3. Strap the canopy with provided strap.

## **TO PROPERLY REMOVE THE CANOPY STRUCTURE**

1. Lower the canopy to the closed position.
2. Disconnect sister clips on canopy structure from the clip on stainless wire.
3. Turn canopy structure 90° and slide out of head fitting.
4. Store away canopy structure.
5. Secure loose end of sister clip to sister clip stud.

## **PROTECTIVE COVER**

1. Screw rods together and insert into slit of the cover.
2. Unzip cover.
3. Using the rod as a guide, slide cover over your umbrella.
4. Pull on string to zip down your cover and tie.

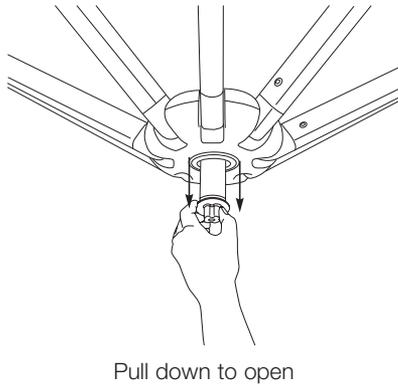
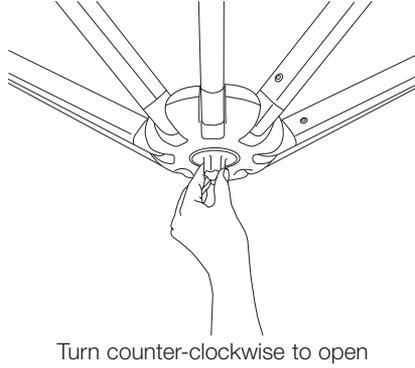
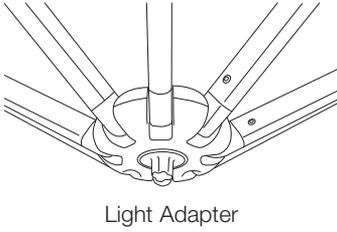
## LIGHT ADAPTER

### Open Light Adapter

Loosen light adapter built into the umbrella runner by turning counter-clockwise. After loosening, pull down light adapter post and attach umbrella light (sold separately).

### Close Light Adapter

Gently push up the light adapter post back into umbrella runner and tighten turning clockwise **NOTE:** It is not necessary to remove light to close umbrella.



## **MAINTAINING THE ORION FRAME & FITTINGS**

1. Hose mast and frame with water periodically, more often if installation is in a salty or industrial environment.
2. Inspect the installation fitting on a regular basis and tighten if necessary.

## **MAINTAINING THE ORION CANOPY FABRIC**

1. Clean up spills and stains right away. Spills can be removed by using a clean, absorbent cloth.
2. For general maintenance, use a soft brush to remove dust and dry soil or wash down with clean, warm water (i.e. garden hose) every so often so dirt does not become engrained. Allow the fabric to dry naturally before closing the canopy.
3. If a thorough cleaning is necessary, sponge over the fabric using a mild soap solution (2% solution). Rinse well with plenty of water to remove all soap residue.
4. Never use detergents, cleaning fluids, or solvents. Grease and oil stains may be removed by using turpentine or similar with an absorbent cloth.
5. We recommend giving the canopy a good clean on a more frequent basis if installed in a location where the canopy is likely to become soiled.

## **REMOVAL & REPLACEMENT OF THE ORION CANOPY**

Follow these instructions should you choose to replace your canopy with a new canopy.

1. Lower the canopy to the closed position.
2. Remove canopy structure from the boom. Disconnect sister clips.
3. Take out the canopy buttons from webbing at top of arms. (Depending on your model, your Orion will have rivets or screws, not both.)
4. Remove the button/screw at the end of each arm.
5. Remove canopy from structure.
6. To replace the canopy, reverse the above process.

## OTHER SHADEMAKER STYLES AVAILABLE

### Side Posts



**Galaxy**



**Sirius**

### Center Posts



**Astral**



**Corona**

### Top Mount



**Nova**

# shademaker

13401 Brooks Drive  
Baldwin Park, CA 91706  
p 626.338.8810  
f 626.338.8816  
info@shademakerusa.com

**shademakerusa.com**