EXCLUSIVE U.S. DISTRIBUTOR
Congratulations on purchasing your Eclipse Cantilever Umbrella. The Eclipse is manufactured using the highest standard materials and fabrics on the market, and is perfectly designed to give you many years of enjoyment. The following information is to inform you how to operate your Eclipse Cantilever Umbrella to ensure trouble free use and ease of operation. Please follow these instructions as they are designed to assist operation and prolong the life of your umbrella.

**General Information**

Your Eclipse Umbrella is principally intended for use in low to moderate wind conditions and will provide you with many hours of protection from sun and light rain. You will get maximum benefit from your umbrella when you use it in accordance with our instructions and in the weather condition for which it was designed.

- Do not leave umbrella open when unattended, particularly in windy conditions.
- Your Eclipse Umbrella should be closed and securely strapped in strong winds and adverse weather conditions.
- Always secure your umbrella to an appropriate base.
- Please avoid any modifications to your umbrella, except those made by an authorized Frankford Umbrellas customer service agent. Some modifications may void the warranty.
- Make sure your Eclipse is dry and clean prior to storing away for extended periods of time to prevent mold from developing.
- Be careful when closing to ensure the canopy does not get caught or “pinched” by the umbrella arms. This is particularly important before storing the umbrella away for extended periods of time or if the umbrella is to be laid horizontally for storage. Damage to the fabric caused by “pinching” is not covered by the warranty.
- Inspect the installation Fitting/Base on a regular basis and tighten as necessary.
Simple Maintenance Procedures

• In coastal or metropolitan environments, frequent washing (spray hose) of the complete unit is very beneficial. Particularly the slider car, slider car guide tracks, and rotating mechanism.

• Should the 16 rotating mechanism stop pin holes become filled with sand or dust etc., lifting your umbrella up off the spigot by 1” will allow the dust cover to be lifted and the 16 holes can be cleaned. This will be a two man operation.

• Silicon spray in the slide car guide tracks will assist operation if required.

• Fold acrylic canvas as mentioned in “Closing The Eclipse” (Page 8). This will prolong the new look of the canvas and prevent marking caused by “pinching” in the alloy frame.

• If you have a cover bag it is advisable to use if the umbrella is not to be used for an extended period of time.

• All parts are virtually maintenance free e.g. aluminum, stainless steel, fiberglass etc. However, it is recommended that if the umbrella is not to be used for a period of time (winter months) then it is a good idea to place the umbrella in storage. You may even remove the spigot when the umbrella is not in use, as it can be a tripping hazard.

• The acrylic canvas may be cleaned or mold removed by using a mild mixture of an approved mold remover and warm soapy water with a soft bristle brush. Test first on the securing strap to ensure no damage will be caused to the umbrella canopy fabric.

• Do not use bleach based detergents to clean the umbrella canopy.
FABRIC CARE

RECacril Marine Grade Acrylic Fabric Infinity Process is a highly technological finish, providing RECacril with long lasting protection against mold and mildew, excellent water and oil repellency and protection from both sun and water. However, the accumulation of dust, pollution particles, foreign organic materials and general dirt can damage this protection, shortening the life of the RECacril, so they should be removed. The most effective method for maintaining RECacril is to clean the canvas once a month with water using a low pressure hose. It is very important that after cleaning with water, the canvas be allowed to completely dry before rolling or storing your umbrella. If for any reason you have to roll and/or store a wet umbrella, it must be unrolled and opened as soon as possible to let it dry. In times of continuous rain it is advisable to keep the umbrella rolled and stored.

If periodic washing with water is done, in most environments, you should only need to do a more thorough cleaning every 2-3 years.
Casual Care & Cleaning

• Brush off dust and dirt with a soft brush. NEVER brush with stiff brushes since this can damage the fabric finish.

• Spray the umbrella with clean water. If a hose is used, avoid high pressure.

• Prepare a solution of solvent-free soap in warm water (no more than 100°F) and apply it to the fabric and stitching.

• Scrub with a soft brush, allowing the solution to penetrate the fabric.

• Rinse with water to remove all traces of soap.

• Let air dry and do not close the umbrella until the canvas is completely dry.

Intensive Care & Cleaning

RECacril® is highly resistant to the growth of fungus, mold, and mildew, however these can grow on embedded dirt. To clean these stains, follow these more intensive cleaning procedures.

• Brush off dust and dirt with a soft brush. NEVER brush with stiff brushes as this can damage the fabric finish.

• Prepare a solution with 10% household bleach, 20% solvent-free neutral detergent (Free & Clear detergents) and 70% water.

• Apply the solution to the fabric, allowing to remain between 15 and 20 minutes maximum.

• Rinse with clean water several times. Any singular bleach residues remaining on the canvas, combined with the sun, could damage the fabric and stitching.

• Let air dry and do not close the umbrella until the canvas is completely dry.

• Repeat the process if necessary.
NOTE:
When the ECLIPSE is closed, the swivel pulley is near the top inside of the mast. When the ECLIPSE is open, the swivel pulley is lower down inside the mast.
1 ARMS
2 SMALL END FITTINGS
3 SMALL STROPS
4 STOP CLOSURE BUTTON ON 4 ARMS ONLY
5 STRUTS
6 BUTTON HUB
7 TUBE LOCATER
8 STAINLESS STEEL CABLE
9 HUB TUBE
10 TUBE HOLDER
11 TOP HUB
12 CORD GUIDE PLUG
13 TOP HUB PULLEY
14 MAIN ARM
15 SMALL END FITTING
16 LARGE STROPS (ALLOY)
17 BARREL COUPLER
18 TOP STAY ARM
19 SLIDE CAR
20 SLIDE CAR WING INCLINATION PIN
21 DUST COVERS
22 TOP BRACKET
23 MAST CAP
24 MAST WALL PULLEY
25 "P" FITTING
26 SWIVEL PULLEY
27 MAST
28 MAIN ARM/MAST PULLEYS
29 4MM MARINE CORD
30 WINDER HANDLE
31 WINDER HOUSING
32 WINDER DRUM
33 SPIGOT
34 NYLON INDEXING SHIELD
35 ROTATING/LIFT HANDLE
36 ROTATING LOCK PIN
37 LIFT OFF PIN
OPENING THE ECLIPSE

• Remove the strap from the canopy.

• Gently spread the canopy arms open with your hand. *(Figure A)*

• Insert the Winder Handle (30) into the winder housing (31) on the mast and rotate in a clockwise direction. Ensure the slider car wing shaped inclination stop pin (20) is disengaged (pulled out) and in a vertical position with the steel pin lying horizontal in the slot. *(Figure B)*

• Continue winding until the slider car (19) has attained the maximum height (don’t force it, it will stop when fabric tension reaches maximum tautness) and the canopy is fully open. The Bottom Hub (6) will be seated into the Hub Tube (9) and the edge of the canopy should be taut. *(Figure C)*

**NOTE:** The Winder Handle will become a little harder to wind as the umbrella nears fully open. This is normal particularly when the acrylic canvas is new.

• The Winder Handle may be removed if desired as a safety and security feature.
CLOSING THE ECLIPSE

• Ensure the Slider Car wing shaped inclination stop pin (20) is disengaged (pulled out) and in a vertical position with the steel pin lying horizontal in the slot (Figure A). You may need to take some tension off the umbrella canopy to set the pin to vertical. Do this by rotating the Winder Handle (30) in a counter-clockwise direction.

• Rotate the Winder Handle (30) in a counter-clockwise direction. First the canopy will collapse and then the slider car (19) will descend down the mast.

• The lowering of the slider car may be assisted manually if required.

• Fold the canopy neatly to safeguard any “pinching” of the canvas within the umbrella frame. This is easily done by pulling the canvas to the outside of the frame using your hands to pull the excess in each of the 8 sections of the frame. Then fold each section of fabric left over right etc.

• Put the canopy strap securely around both the mast and canopy frame.

• Fit the cover bag over the mast and frame and zip up (Figure B).
TO TILT THE CANOPY

- Start with the umbrella almost completely closed (i.e. wind down to almost folded position - Figure A). Engage the slider car wing shaped inclination stop pin (20) by turning it to the horizontal position. You will feel it spring into the mast (Figure B).
- Wind the winder handle (30) in a clock-wise direction. The slider car inclination stop pin (20) will engage in a pre-drilled hole in the mast.
- Continue winding and the canopy will open fully in the desired position. (Approx. 30° of tilt - Figure C)
- To progress to the second tilt position, unwind the winder handle several full revolutions to release tension until the canopy starts to sag.
- Pull the slider car wing shaped inclination stop pin (20) out and continue to wind the winder handle clock-wise. As the slider car (19) begins to ascend, release the wing shaped inclination stop pin still in the horizontal position.
- Continue to wind the umbrella open and inclination stop pin will engage in the next pre-drilled hole. This is tilt position 2 (approx. 60° of tilt - Figure D).

NOTE: There are 2 positions of tilt in each of the Eclipse models. Additional tilt position holes may be drilled but this should be done with extreme caution as there is a winder mechanism inside the mast.
TO ROTATE THE ECLIPSE UMBRELLA

There are 16 pre-determined rotation positions in the spigot. These positions are found every 22.5° interval around the spigot base. They are located where indicated with notches on the spigot base. The position holes are under the nylon indexing shield (34) which acts as a dust cover for the holes not in use.

- Pull the rotation lift handle (35) out from the mast cavity (Figure A).
- Lift up on the handle and feel the resistance from the spring that houses the rotating lock pin (36). (WARNING: THIS IS NOT USED TO LIFT THE UMBRELLA).
- By using the rotating lift handle (35) as a lever you may rotate the umbrella on the base until you arrive at your desired position (Figure B). Each position is marked by a notch on the spigot. Align the indicator arrow with a notch (Figure C). Lower the rotating lift handle sufficiently to locate the rotating lock pin.

**NOTE:** There is some resistance to rotation as the weight and friction of the umbrella needs to be overcome. Also, the rotating lift handle will set back into place if the umbrella is not in a pre-determined position. Rotate counter or clock-wise to find the nearest lock position.
INSTALLING YOUR WIND STABILIZER KIT

Your Eclipse Cantilever Umbrella comes with a Wind Stabilizer Kit to assist its performance in a wider range of wind conditions. This Stabilizer Kit consists of two (joined) stabilizer bars.

**NOTE:** The Eclipse Cantilever Umbrella does not need to be fitted with the Stabilizer Kit for normal everyday operation in calm to moderate wind conditions. However, for higher wind strengths or for commercial applications, it is advised to use.

**To Install Stabilizer Kit:**

- Slide the stay block (38) up the internal mast housing to a height roughly the same as the height of the stabilizer bars when standing vertical (Figure A).

- Attach the threaded stainless screw with the two aluminum stays attached to the stay block and tighten the screw sufficiently for the stay block to remain in position without sliding down the mast (Figure B).

- Swing either aluminum stay arm off the ground and attach to the umbrella using the “T-Lock” or Star Screw. Position the T-Lock vertical and slide the hole in the plastic fitting at the end of the stabilizer bar over (Figure C). Set the T-Lock to horizontal to lock the bar in place (Figure C).
CONTINUED - STABILIZER KIT

- Attach the remaining arm to the other side.  
  **NOTE:** There is an adjustment to the outer end of the stays so as to align the knob/screw connection with the umbrella arms.

- You may need to loosen the central threaded stainless steel screw and adjust up or down the mast until you have applied a little upward tension on the umbrella arms. Tighten this screw in position (**Figure D for umbrella with stabilizer kit correctly fitted**).

- **CAUTION:** Do not over tension as this may distort the umbrella arms. Reverse the process to remove the stabilizer kit. The stabilizer kit must be removed to close the umbrella or tilt the canopy.

**Important:**
Your Eclipse Cantilever Umbrella, even when fitted with the stay kit, is not a permanent, all-weather structure. The umbrella should be closed and folded when not in use and never left open when unattended or in strong winds.
INSTALLATION PROCEDURE

Your Eclipse Cantilever Umbrella is delivered fully assembled. There are three different ways to install your Eclipse Cantilever Umbrella:

1. Installing on a wooden deck using a Deck Plate.
2. Installing on an existing concrete slab or pavers using a Deck Plate.
3. Installing into the ground (i.e. into a lawn, garden or paved patio) using the In-Ground fitting.

Prior to installing your installation fittings please read the important information below.

Your Eclipse Cantilever Umbrella can rotate 360° and be locked in 16 different locations. This means that every 22.5° of rotation there is provision to lock the umbrella. In most situations there will be a preferred area over which you will predominantly want shade. To ensure you have the ability to shade your preferred location you must have one of the 22.5° rotation locking holes in line with this position. Please have a look at the underside of your spigot to see these 16 locking holes.

There is a locking hole in line with each of the 4 spigot bolt holes in the spigot plate. There are also three intermediate holes between each of the spigot bolt holes and these are marked with an indicator mark on the top of the spigot plate.

To point your umbrella in the perfect direction or to have a symmetrical installation (especially when installing square umbrellas) it is very important to make sure you install the Base Plate or In-Ground fitting square to the direction that you predominantly want the umbrella to point.

There are three different ways to install your Eclipse umbrella. Select the installation method from the following pages for the relevant instructions.
The In-Ground Mount is a galvanized steel fitting that must be concreted into position. Because terrain differs from thick dirt to fine soil, a different sized hole must be prepared and a different volume of concrete is used. As a guide, a 19” x 19” x 27” deep hole is a minimum requirement for heavy dirt terrain. A post hole borer can be used to deepen the center of the footing. When pouring the concrete it is advisable to drop a few lengths of reinforcing steel bar into the hole to prevent the concrete from cracking. Remember that the depth of the hole is better than the width and it is much easier to make the hole oversized than to try to re-stabilize the In-Ground fitting should it shift over time. If applicable, patio tiles or pavers have to be removed to facilitate this In-Ground mount and then cut to suit when replaced. If installing through a thin layer of concrete or asphalt, a core drill should be used to drill a 6” diameter hole in the concrete/asphalt. The remainder of the hole below can then be dug out by hand or post hole digger.

**Important:** Align one of the screw holes in the top of the spigot with your desired 12 o’clock position on the umbrella. Ensure that the In-Ground fitting is level in the concrete. Allow adequate time for the concrete to cure before erecting the umbrella.

**Tip:** The In-Ground Mount comes with four “grub-screws” pre-installed in the threaded holes. This is to prevent concrete slurry working its way up into the threaded holes. As an added precaution it is a good idea to place tape on the underside of the holes. Once the In-Ground Mount has been installed, remove the grub-screws with an Allen key.
DECK/CONCRETE INSTALLATION OPTIONS

Your umbrella comes with a spigot. Once you have installed the Deck Plate according to the instructions below, attach the spigot to the Deck Plate using the supplied Allen key and bolts. Once the Deck Plate is fully secured, lift the umbrella on to the top of the spigot. This is recommended as a two man operation.

DECK PLATE INSTALLATION ALTERNATIVES

Installing on wooden deck: Your deck plate must be bolted to the frame of the deck and not only to the deck planking. You need to fasten 1 or 2 braces between the deck joists or bearers that form the structural frame of the deck. It is suggested that 2 pieces of wood of 8"W x 2"-4" thick be secured under the deck planking and between the deck bearers and fasten these braces to the joists/bearers with suitable fastenings. These may be large galvanized nails, brackets or similar. The Deck Plate should now be set in the required position and bolted through the deck planking and the fixed braces by using 1/2"x6” stainless steel bolts and nuts with a large washer on the underside.

Installing to a concrete slab: When installing your umbrella on a concrete surface, fix the Deck Plate to the concrete using 4 concrete screws, ‘Dyna-Bolts’ or similar fastenings. The diameter of the countersunk holes in the Spigot is .5”, use M10/M12 bolts included with your umbrella. The length of the fastenings will depend on the depth of the concrete and whether there are any tiles or pavers above the concrete. As a minimum, 3” of fastening in concrete is required.

IMPORTANT: Align one of the countersunk holes in the Deck Plate with your desired 12 o’clock position on the umbrella.

TIP: The Deck Plate comes with four “grub-screws” pre-installed in the threaded holes. Remove the grub-screws with an Allen key.
**WOODEN DECK**

- 2" Thick Cross Beams
- Deck Bearers
- Deck Plate
- 1/4" Deck Panels
- Counter Sunk Bolts
- M10 Concrete Screw or Dyna Bolt
  - Minimum Length 3"

**CONCRETE**

- 12.4" Diameter Deck Plate
- M10 Concrete Screw or Dyna Bolt
  - Minimum Length 3"

Concrete slab minimum depth 4”.
No screw or fixing to be within 6” of closest edge of concrete slab
WEIGHTED BASE INSTALLATION

Your umbrella comes with a spigot. Once you have assembled the base according to the instructions below, attach the spigot to the base using the supplied Allen key and bolts. Once the base is fully secured, lift the umbrella on to the top of the spigot. This is recommended as a two man operation.

TWO UMBRELLA BASE INSTALLATION ALTERNATIVES

Installing to the 550NGU: Galvanized Steel Base ships ready to use. The Spigot must be bolted to the universal deck plate already installed on the aluminum lid with the hardware supplied. Match threaded holes on the Spigot with the corresponding holes on the universal deck plate.

Installing to 40G+40+40: When installing your umbrella on a Galvanized Plate Stack, rotate the Spigot to match the threaded holes through the top and bottom plates. The diameter of the countersunk holes in the Spigot is .5”, use M10/M12 bolts included with your umbrella.

Important: All plates are stackable. There are 2 sets of holes on each plate - naked holes and threaded holes. Be sure to use the threaded holes on the bottom plate ONLY. Line up the naked holes on the upper plates and bolt your Stem through to the threaded holes on the bottom plate.

Note: The 40G three stack is the maximum stack available at 555 lbs. This is required for the Eclipse Cantilever Umbrella.
MINIMUM WEIGHT RECOMMENDED

*MAXIMUM PLATE STACK AVAILABLE 555lbs.

550lbs. GALVANIZED BASE
Base stores (8) 50lb. pavers (400lbs.) in galvanized box frame.

SPIGOT
Bolts through to the aluminum lid to galvanized steel box frame.
7 YEAR WARRANTY

Frankford uses Marine Grade 9 ounce solution-dyed acrylic fabric from several mills, including Sunbrella, Outdura, and Recasens. All Marine Grade acrylic fabrics we use carry a minimum warranty of 7 years against fading. All Furniture Grade fabrics we use carry a minimum warranty of 5 years against fading. This warranty does not cover damage to the fabric related to extreme weather, abuse, or misuse by our customers. This warranty does not cover improper cleaning techniques or chemicals used in cleaning the umbrellas, and does not cover damage caused by the storage method or location used by our clients.

Replacement fabric canopy is covered for the time remaining in the original warranty and does not activate a new 7 or 5 year warranty.

3 YEAR WARRANTY

OUR 3 YEAR WARRANTY COVERS THE FRAME STRUCTURE FOR THE FOLLOWING: ECLIPSE SERIES, NOVA SERIES, MONACO SERIES, GREENWICH SERIES, MONTEREY COLLECTION, and CATALINA COLLECTION. This warranty includes manufacturer defects to the notch, runner, center pole and skeleton structure. It does not cover damage to the umbrellas related to extreme weather, abuse, or misuse by our customers. If warrantable damage occurs, Frankford will replace or repair any item in this category at its own discretion.

1 YEAR WARRANTY

OUR 1 YEAR WARRANTY COVERS ALL POWDER COAT FINISHES (CHIPPING, PEELING, FLAKING, BUBBLING, FADING) OF ALUMINUM POLES (1) YEAR FROM THE DATE OF PURCHASE OF THE FOLLOWING: Aurora Series, Eclipse Series, Nova Series, Monaco Series, Greenwich Series, Monterey Collection, and Catalina Collection. The frame structure of the Laurel Collection is covered by a 1 year warranty. This warranty does not cover damage to the umbrellas related to extreme weather (including rust), abuse, or misuse by our customers. If warrantable damage occurs, Frankford will send parts, replace or repair any item in this category at its own discretion.

RUST

RUST IS A NATURAL PART OF THE AGING PROCESS OF ALL STEEL OR IRON BASED MATERIALS AND IS THEREFORE NOT CONSIDERED A DEFECT. STEEL BASES AND MOUNTS ARE DESIGNED TO REQUIRE MINIMUM MAINTENANCE. THEY SHOULD BE KEPT CLEAN.