

MAINTAINING THE LIBERTY 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.

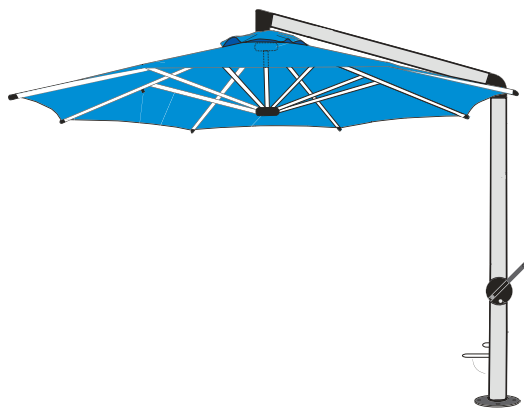
MAINTAINING THE LIBERTY CANOPY FABRIC

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 residues.
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 cleaning on a more frequent basis if installed in a location where the canopy is likely to become soiled.

REMOVAL & REPLACEMENT OF THE LIBERTY CANOPY

Follow these instructions should you choose to replace the canopy with a new canopy:

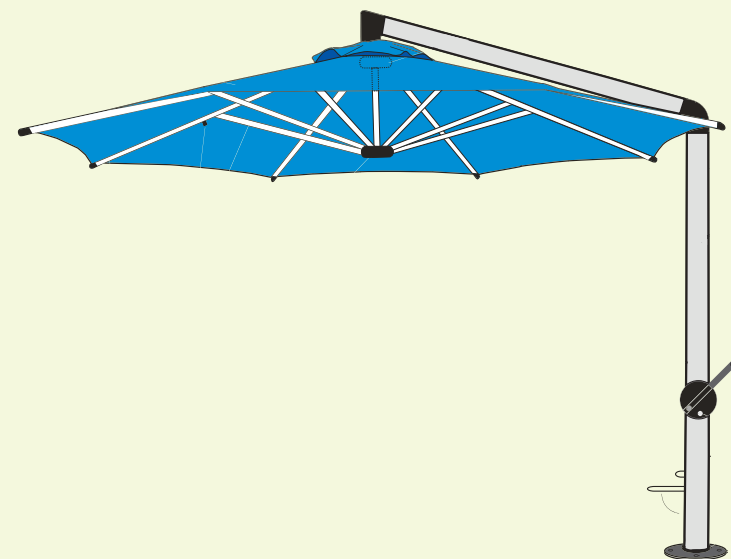
1. Lower the canopy to the closed position.
2. Remove canopy structure from boom. Disconnect sister clips.
3. Unsnap canopy vent cap (9).
4. Drill out CANOPY STRAP RIVETS X 4 or take out CANOPY SCREWS from webbing in top of arms. (Depending on your model, your LIBERTY will have RIVETS or SCREWS, not both.)
5. Remove the button/screw at the end of each arm.
6. Remove canopy from the structure.
7. To replace the canopy, reverse the above process.



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LIBERTY OWNER'S MANUAL
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LIBERTY ShadeMaker

IMPORTANT: Please read this entire manual before installing or operating your LIBERTY ShadeMaker.

WARRANTY

Upon receipt of your LIBERTY, please check to ensure you have received all the components. If anything is missing or damaged, contact your Shademakers agent. The LIBERTY is guaranteed by the manufacturer (Shademakers NZ Ltd) for 12 months against faulty workmanship, mechanical failure and defective materials. All acrylic canvas canopy fabrics have a five year limited manufacturer's warranty against material breakdown.

Damages resulting from an accident, careless use, or weather-related conditions are not covered under this warranty. See the enclosed Warranty Conditions on separate page.

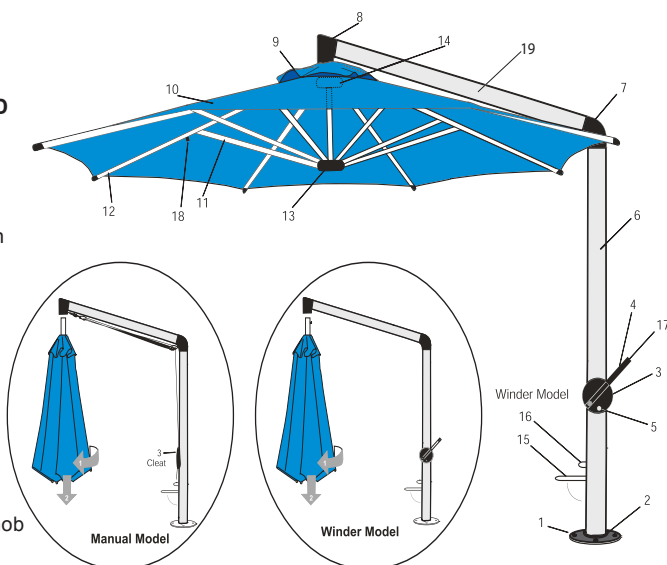
LIBERTY WIND RESISTANCE GUIDELINES: Moderate to Moderately Strong Winds

When installed properly, the Liberty Sidepost ShadeMaker is engineered to handle moderate to moderately strong wind conditions in the open position. Please adhere to these common sense wind guidelines:

1. As winds get stronger or in anticipation of uncertain/severe weather conditions, the canopy should be lowered to the folded and strapped position.
2. If unattended for an extended period of time, the Liberty should be left in the folded and strapped position.
3. In anticipation of and during extremely severe weather conditions, it is advisable to remove and store the entire Liberty structure to protect it from storm-related debris.

DIAGRAM & LEGEND

1. Spigot
2. Acetal ring
3. Winder
4. Winder Handle
5. Safety lock button
6. Mast
7. Elbow
8. Headfitting
9. Top hat
10. Canopy
11. Strut
12. Arm
13. Lower hub
14. Upper hub
15. Turning handle
16. Locator pin
17. Winder handle knob
18. Spacer button
19. Boom

**OPERATING INSTRUCTIONS (MANUAL VERSION - see diagram on page 2)****To open the Liberty canopy:**

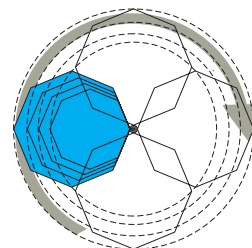
1. Simply pull rope until canopy is taut and fasten to cleat. Never force the arms!

To lower the Liberty canopy (Manual Model):

1. Simply uncleat rope and lower manually.
2. Strap canopy once lowered.

TO ROTATE THE LIBERTY Laterally THROUGH 360 DEGREES/12 POSITIONS

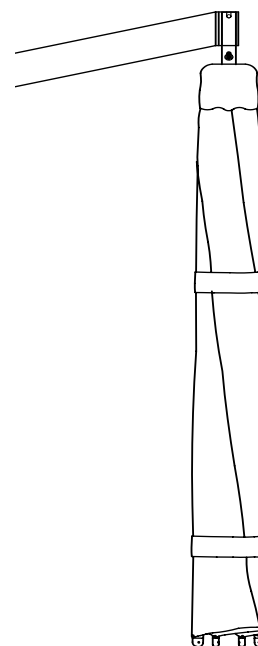
There are 12 holes on the top of the SPIGOT.



1. Pull out the LOCATOR PIN (16) above the TURNING HANDLE (15).
2. Raise the TURNING HANDLE (15) and rotate MAST (6) to a new position.
3. Push LOCATOR PIN (16) back in and turn it to lock it into any one of 12 positions.

TO PROPERLY FOLD THE LIBERTY CANOPY

The 100% Acrylic Canvas canopy is made of the finest premium fibre and components that are available today. Correct treatment of your Shademaker will prevent the canopy from being marked or damaged. To ensure longevity and long term aesthetic performance of your canopy please follow the instructions below.



1. Release the winder fully so that the canopy is closed and the entire canopy structure hangs off the mast. If you have a manual rope model, please release the rope.
2. In order to avoid the canopy fabric from being jammed between the frame components it is important to pull the fabric out from the frame [arms/struts] by putting a finger under the edge of the canopy and pulling the fabric outwards. Do this sequentially for all 8 panels as you walk around the canopy structure, furling the pleats until it looks like the folded canopy in the picture.
3. Put the canopy belts firmly around the canopy as shown in the picture above. Make sure that both belts sit tight as otherwise the canopy can move in windy conditions and get damaged through rubbing. If you require additional belts please contact your Shademakers agent.
4. For short term storage: We recommend a cover bag to protect your canopy section from dirt and prolong the life of your canopy. Pull coverbag over canopy and secure it by connecting velcro edges together. **Long term/winter storage:** If you are unlikely to use your Liberty for 2 weeks or more it is imperative to fold your canopy as described above, take off the entire canopy structure [see operating instructions for details] and store it in a dry and clean place [out of reach for rodents] to avoid soiling or damage.

COMPONENTS, FITTINGS & HARDWARE

A. SPIGOT: The LIBERTY MAST (6) slides directly over the SPIGOT (1) as a sleeve. The plate of the SPIGOT is 215mm in diameter and 12mm thick. The SPIGOT is 480mm in height and has 12 holes on the top which allow the LIBERTY to be rotated 360 degrees around the mast.

B. BASE PLATE: The 215mm diameter, 12mm thick BASE PLATE is bolted to an existing concrete slab or to a wooden deck. The SPIGOT then bolts to the top of the BASE PLATE utilising the threaded holes.

C. IN-GROUND FITTING: The IN-GROUND FITTING is concreted into the ground or built into newly-poured concrete. The plate of the IN-GROUND FITTING is 10mm thick, 215mm in diameter and 500mm in height. The SPIGOT is bolted to the top of the IN-GROUND FITTING which is 500mm in height.

D. FREE STANDING BASE: The FREE-STANDING BASE needs to be used with 4x600mm pavers. Then the SPIGOT is bolted to the top of the BASE. The BASE is 1250x1250mm.

E. SPIGOT BOLTS: Four (4) countersunk SPIGOT BOLTS are used to bolt the SPIGOT to the BASE PLATE or to the top of the IN-GROUND FITTING. SPIGOT BOLTS are 20mm in length. [M10X20]

F. CONCRETE BOLTS [optional extra]: Four (4) CONCRETE BOLTS are used to bolt the BASE PLATE OR THE SPIGOT to an existing concrete slab or through pavers or tiles. The CONCRETE BOLTS are 75mm OR 100mm in length (8x75mm or 8x100mm).

G. TIMBER BOLTS [optional extra]: Four (4) timber bolts are used to bolt the base plate or the spigot through the planks to the joists. The TIMBER BOLTS are 150mm in length. (see page 8)

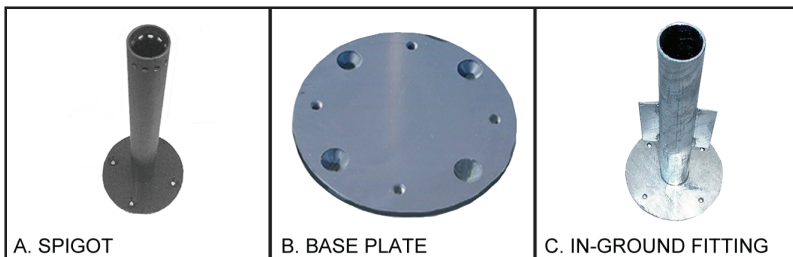
H. DECK SCREWS: [optional extra] These are approx 140mm long and may be used to bolt the base plate to the deck framing.

I. MAST OVER SPIGOT: This photograph shows how the mast looks when it is installed onto the SPIGOT. The SPIGOT is bolted either to a BASE PLATE or the plate of an IN-GROUND FITTING. An acetal washer (2) separates the mast from the spigot.

J. LOCATOR PIN: When the LOCATOR PIN (16) is inserted through the MAST (6) and SPIGOT (1), it locks the MAST (6) into place. The TURNING HANDLE (15) is located below the LOCATOR PIN (16). When the LOCATOR PIN (16) is pulled out, the TURNING HANDLE (15) can be lifted to rotate the MAST (6) to one of 12 holes, allowing the LIBERTY to rotate 360 degrees around the mast.

K. WINDER: The WINDER (3) facilitates the opening and closing of the LIBERTY canopy structure.

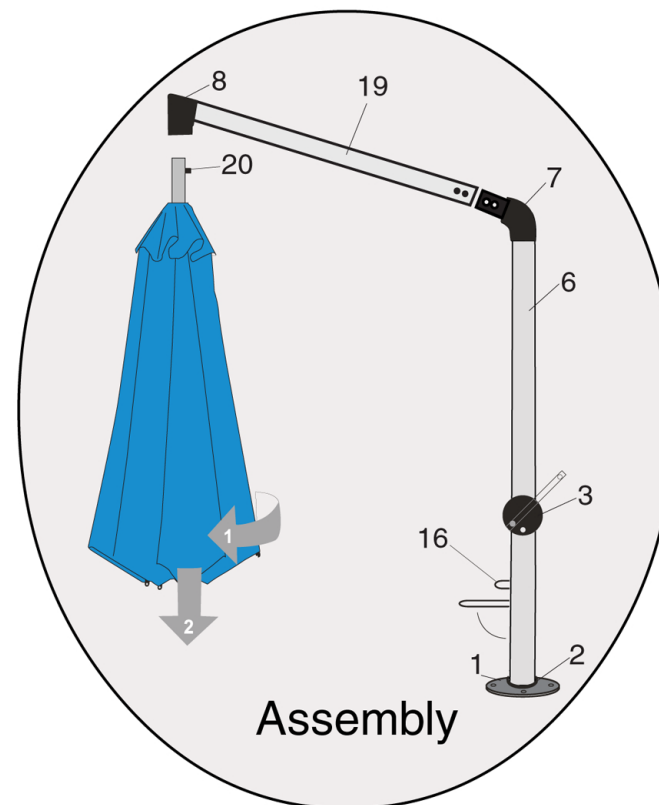
L. SPACER BUTTONS: Eight (8) SPACER BUTTONS are inserted into predrilled holes on the arms. SPACER BUTTONS must be left inserted at all times as they ensure the LIBERTY canopy structure opens easily by not allowing the arms to get locked down. See page 10 for SPACER BUTTON details.



ASSEMBLY INSTRUCTIONS

By now you have installed your BASE PLATE(S) or IN-GROUND FITTING and bolted your SPIGOT to the BASE PLATE or IN-GROUND FITTING.

1. Unpack the Liberty and lay it out on the ground as in the drawing, assuring the winder/ winch box(3) is facing upwards.
2. Slide mast (6) over newly mounted spigot (1). Make sure the mast seats on the acetal ring(2). Insert locator pin(16) through mast and spigot (1). If the Mast is properly seated and the LOCATOR PIN properly inserted, the LIBERTY will not rotate or lift.
3. Using a step ladder, fasten the boom (19) to the elbow (7) by inserting and tightening the four screws provided (two on each side). Or attach the boom to the mast while laid out on the ground, and then lift the entire mast and boom and slide over spigot as described above.
4. Connect the sister clips on canopy structure and on wire/rope.
5. Slide the canopy structure into the head fitting (8) by aligning the set screw on the top of the canopy structure with the slot in the head fitting (8).



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 winding. 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.

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

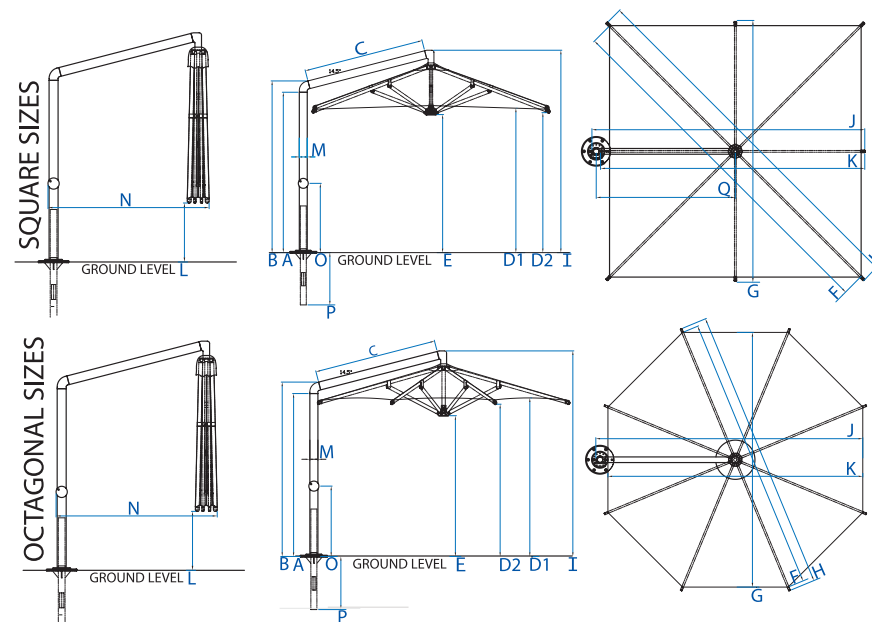
If you feel resistance in the winder, you should manually pull out a few arms to help facilitate winding. Once the canopy is open, look up into the arms to confirm all eight (8) SPACER BUTTONS are inserted. You should be able to locate eight small white plastic circular "buttons", one in each of the eight (8) arms. If you do not see all eight SPACER BUTTONS in place, contact Shademakers 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 LIBERTY warranty does not cover repairs resulting from not of having eight SPACER BUTTONS inserted at all times.

OPERATING INSTRUCTIONS (WINDER VERSION - see diagram on page 2)**To open the Liberty canopy:**

1. Undo strap and turn winder handle (4) in clockwise direction.
CAUTION: Arms may need to be freed manually to facilitate winding. Never force the arms! Continue winding until canopy is taut.
2. Locking lever located on winder (not shown) locks automatically when you stop winding.
3. Child-safety lock button(5) can be inserted and turned 90 degrees clockwise.
PLEASE NOTE: It is not necessary to use safety-lock button, however, it is recommended, particularly when children are present.

To lower the Liberty canopy (Winder Model):

1. If child-safety lock (5) is in use, turn 90 degrees counter-clockwise until button pops out.
2. Open winder handle (4) and turn clockwise. With right hand, lift locking lever located on the winder (not shown on diagram). Now turn winder handle counter-clockwise for several revolutions until all pressure is released. NOTE: Raise locking lever during unwinding.
3. Continue unwinding until canopy is lowered, strap canopy.

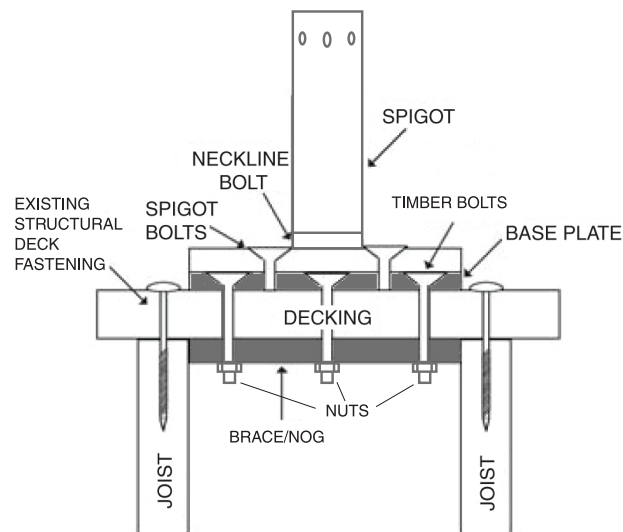


Liberty Specifications		2.5 Squ	3.0 Squ	3.0 Oct	3.5 Oct	4.0 Oct
A	Mast height [aluminum only]	2.320	2.420	2.200	2.320	2.420
B	Mast height including elbow	2.420	2.520	2.330	2.420	2.520
C	Boom length [aluminum only]	1.350	1.600	1.550	1.690	1.889
D1	Canopy above ground	2.130	2.220	2.220	2.030	2.200
D2	Arms above ground	2.100	2.115	2.115	2.180	2.170
E	Hub above ground Same length mast as 2.4	2.040	2.060	2.060	2.130	2.140
F	Canopy diameter	3.535	4.400	2.985	3.500	4.000
G	Flat edge to flat edge of canopy	2.500	2.930	2.730	3.220	3.620
H	Tip to tip diameter when measured across	3.555	4.450	2.995	3.360	4.030
I	Total overall height [top of headfitting]	2.805	2.850	2.730	2.875	3.020
J	Outside mast to outside opposite edge	2.720	3.140	3.005	3.350	3.700
K	Inside mast to outside opposite canopy edge	2.610	3.030	2.900	3.240	3.589
L	Height of arms off ground when folded down	0.750	0.425	1.025	0.945	0.770
M	Mast dimensions [oval]	110x65	110x65	110x65	110x65	110x65
N	Outside of mast to outside of arms when folded down	1.850	1.755	1.755	2.120	2.270
O	Center of winchbox [winder] above spigot plate	0.950	0.950	0.950	0.950	0.950
P	Height of inground shaft [pole]	0.490	0.490	0.490	0.490	0.490
Q	Centre of l/g fitting to centre of hub	1.460	1.645	1.615	1.745	1.930

* All Dimensions may vary +/- 3%

WOODEN DECK INSTALLATION

This requires one (1) BASE PLATE (B), four (4) MACHINED BOLTS with washers & nuts (G) or four (4) DECK SCREWS (H). Please carefully follow the deck installation diagram and written instructions below:



1. To fix spigot to timber deck - You will need four 10X150mm stainless countersunk bolts or similar. Attach these bolts through suitable braces or nogs securely fixed between the deck joists or beams (100X100mm recommended).
2. To fix spigot to base plate on timber deck - Fix base plate as outlined in 1. above. Fit spigot to base plate using four 10X20mm stainless machined bolts provided.
3. With 4 long countersunk bolts, bolt through the spigot, decking timber, and something solid in the deck framing. Refer diagram. You may alternatively bolt the base plate as above and secure the spigot to the base plate.

		 [optional extra]
<p>D. FREE STANDING BASE</p>	<p>E. SPIGOT BOLTS</p>	<p>F. CONCRETE BOLTS</p>
 [optional extra]	 [optional extra]	
<p>G. TIMBER BOLTS</p>	<p>H. DECK SCREWS</p>	<p>I. MAST OVER SPIGOT</p>
		
<p>J. LOCATOR PIN</p>	<p>K. WINDER</p>	<p>L. SPACER BUTTONS</p>

INSTALLATION OPTIONS & GUIDELINES

To ensure longevity, correct installation is essential. There are three standard installation options which provide the best stability for the LIBERTY. Depending on your situation, you will require one or more of the following LIBERTY installation components.

1. CONCRETE PATIO
one (1) BASE PLATE (B), four (4) CONCRETE BOLTS (F), one (1) 8mm METRIC CONCRETE DRILL BIT, one (1) SPIGOT (A), four (4) SPIGOT BOLTS (E), and one (1) ALLEN WRENCH (M6).
2. IN-GROUND FITTING one (1) IN-GROUND FITTING (C), one (1) SPIGOT (A), four (4) SPIGOT BOLTS (E), and one (1) ALLEN WRENCH (M6).
3. WOODEN DECK
one (1) BASE PLATE (B), four (4) TIMBER BOLTS with washers & nuts (G) or four (4) DECK SCREWS (H), one (1) SPIGOT (A), four (4) SPIGOT BOLTS (E) and one (1) ALLEN WRENCH (M6).

FREE STANDING BASE OPTION: If it is not feasible to mount your LIBERTY to a concrete patio, wooden deck or in ground, you may have purchased, or need to purchase, the optional FREE STANDING BASE (D). This base is an acceptable alternative but will not offer the same level of stability as the three standard installation options. We do not recommend the use of the FREE-STANDING BASE for the LIBERTY 3.5 or 4.0 (Octagonal). If using this BASE, the wind guidelines change from LIGHT to MODERATE WINDS to LIGHT WINDS ONLY.

INSTALLATION INSTRUCTIONS

To ensure proper installation, please carefully follow these instructions before installing your BASE PLATE or IN-GROUND FITTING:

PROPER ALIGNMENT OF THE LIBERTY

If the exact position of the LIBERTY canopy (when in the open position) is important to you, it is imperative that the installation fitting (BASE PLATE or IN-GROUND FITTING) is properly aligned. Please read the instructions below to assure that your canopy hangs in the desired position.

BASE PLATE: The BASE PLATE has four (4) countersunk holes and (4) tapped holes. The tapped hole bolt pattern on the BASE PLATE must be lined up square to whatever you are aligning your LIBERTY with (i.e. the side of your house, the edge of your patio, etc.). See Diagram A below. The countersunk holes on the SPIGOT will then match the tapped holes on the BASE PLATE and the LIBERTY canopy will hang in the desired position (PRIMARY MAST & CANOPY POSITION). If the BASE PLATE is not aligned properly, you may not achieve your intended PRIMARY MAST & CANOPY POSITION.

IN-GROUND FITTING: The IN-GROUND FITTING has four (4) tapped holes. The tapped hole bolt pattern on the IN-GROUND FITTING must be lined up square to whatever you are aligning your LIBERTY with (i.e. the side of your house, the edge of your patio, etc.). See Diagram B below. The countersunk holes on the SPIGOT will then match the tapped holes on the IN-GROUND FITTING and the LIBERTY canopy will hang in the desired position (PRIMARY MAST & CANOPY POSITION). If the IN-GROUND FITTING is not aligned properly, you may not achieve your intended PRIMARY MAST & CANOPY POSITION.

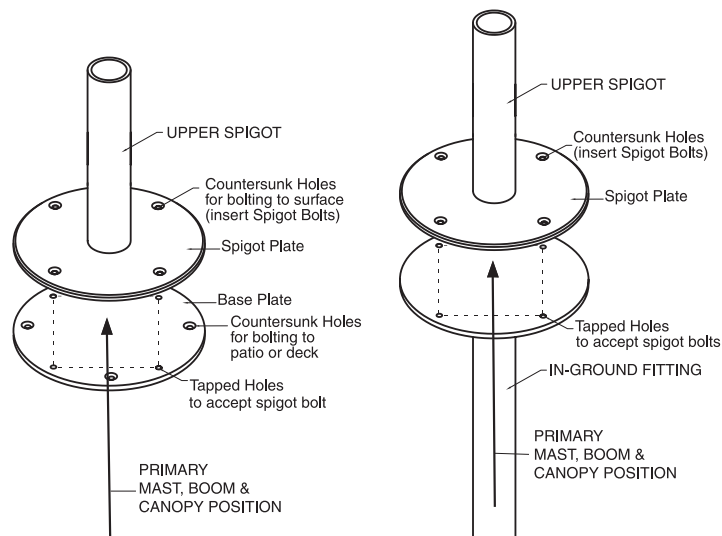
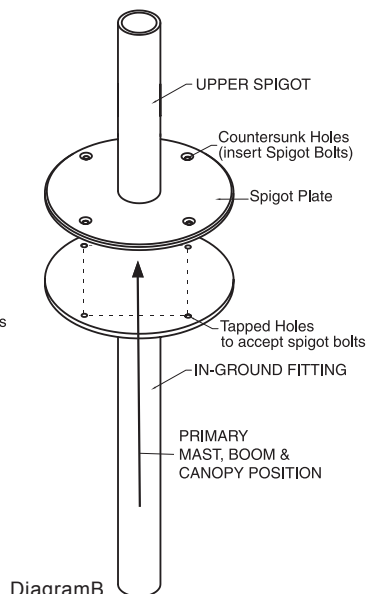


DiagramA
BASE PLATE ALIGNMENT



DiagramB
IN-GROUND FITTING ALIGNMENT

IMPORTANT: If the exact position of the LIBERTY canopy (when in the open position) is important to you, it is imperative that the installation fitting (BASE PLATE or IN-GROUND FITTING) is properly aligned. Please read the instructions above in detail to assure proper alignment.

CONCRETE PATIO INSTALLATION

This requires a BASE PLATE, four (4) CONCRETE BOLTS, and one (1) 8mm METRIC DRILL BIT.

1. Bolt the BASE PLATE to an existing concrete slab (or through tiles adhered to a concrete slab) using CONCRETE BOLTS similar to "F" on page 5. You will also need a drill bit.
Note: If bolting through tiles bolts should be a minimum 100mm long.
(IMPORTANT: SEE PAGE 6 FOR ALIGNMENT INSTRUCTIONS.)
2. Bolt the SPIGOT(1) to the BASE PLATE using the four (4) SPIGOT BOLTS and ALLEN WRENCH. Insert the SPIGOT BOLTS downward through the flanged holes in the SPIGOT base and screw them into the threaded holes in the top BASE PLATE. Make sure they are very tight.
3. Slide MAST (6) over newly mounted SPIGOT (1). Make sure the MAST seats on the ACETAL RING (2).
4. Insert LOCATOR PIN (16) through MAST (6) and SPIGOT (1). You are now ready to operate your LIBERTY. See OPERATING INSTRUCTIONS.
5. To remove the LIBERTY for seasonal storage or to move it to another BASE PLATE or IN-GROUND FITTING, simply undo the four (4) SPIGOT BOLTS and remove the SPIGOT(1) from the BASE PLATE, leaving an unobtrusive BASE PLATE on your patio.

IN-GROUND FITTING INSTALLATION

This requires one (1) IN-GROUND FITTING. The IN-GROUND FITTING needs concreting in the ground as per the diagram below. The hole size recommended assumes the terrain is thick clay. Should the terrain be fine soil or sand, the hole size should be increased. The recommended installation requires 0.6 cubic metres of concrete for fine soil and 0.4 cubic metres of concrete for heavy clay.

The IN-GROUND FITTING may also be built into newly poured concrete. For a perfect flush mount, set the plate of the fitting slightly more than 10mm below the final surface grade. When you add the 10mm thick SPIGOT to the plate, the SPIGOT will be flush with the concrete.

1. Once installed and the concrete has cured, bolt SPIGOT to the top of the inground fitting using the four (4) SPIGOT BOLTS and ALLEN WRENCH. Insert the SPIGOT BOLTS downward through the flanged holes in the SPIGOT base and screw them into the threaded holes in the plate of the IN-GROUND FITTING. Make sure they are very tight.
2. Slide MAST (6) over newly mounted SPIGOT(1). Make sure the MAST seats on the ACETAL RING(2).
3. Insert LOCATOR PIN (16) through MAST (6) and SPIGOT (1).
4. You are now ready to operate your LIBERTY. See OPERATING INSTRUCTIONS.
5. To remove the LIBERTY for seasonal storage or to move it to another BASE PLATE or IN-GROUND FITTING, simply undo the four SPIGOT BOLTS and remove the SPIGOT from the IN-GROUND FITTING.

IMPORTANT:(1) When concreting the IN-GROUND FITTING in place, take care not to get slurry in the screw threads. Either apply tape over the holes on both sides of the fitting, or place the SPIGOT BOLTS in the threads and withdraw them when the concrete is set. (2) Make sure that the IN-GROUND FITTING is perfectly level. (3) Allow the concrete to cure for the appropriate cure time for your area before installing the LIBERTY onto the fitting.

