GENERAL AWNINGS™

MAUI & DESTIN RETRACTABLE AWNINGS

OWNER'S MANUAL & INSTALLATION INSTRUCTIONS

NOTE: Please inspect the parts for damage from shipping and/or any missing parts. If you suspect there may be damage or a shortage, contact us within **5-days** of delivery to report shipping damage or within **30-days** of delivery to report missing or incorrect parts for a warranty replacement at no cost and we will send replacement parts if needed.

Contents

ATTENTION: Warning Statement

⚠ **Warning**: Adult assembly required

⚠ **Warning**: Assembly kit contains parts with sharp points, sharp edges, and small parts that can present choking hazards to children.

⚠ **Warning**: Components are packed in plastic bags that are a suffocation hazard.

⚠ **Warning:** Do not leave the awning extended during extreme weather conditions such as wind, rain, snow and ice. Extreme weather conditions may cause the arms to break and can cause personal or property damage. General Awnings shall not be liable for weather related damages and or improper use or handling.

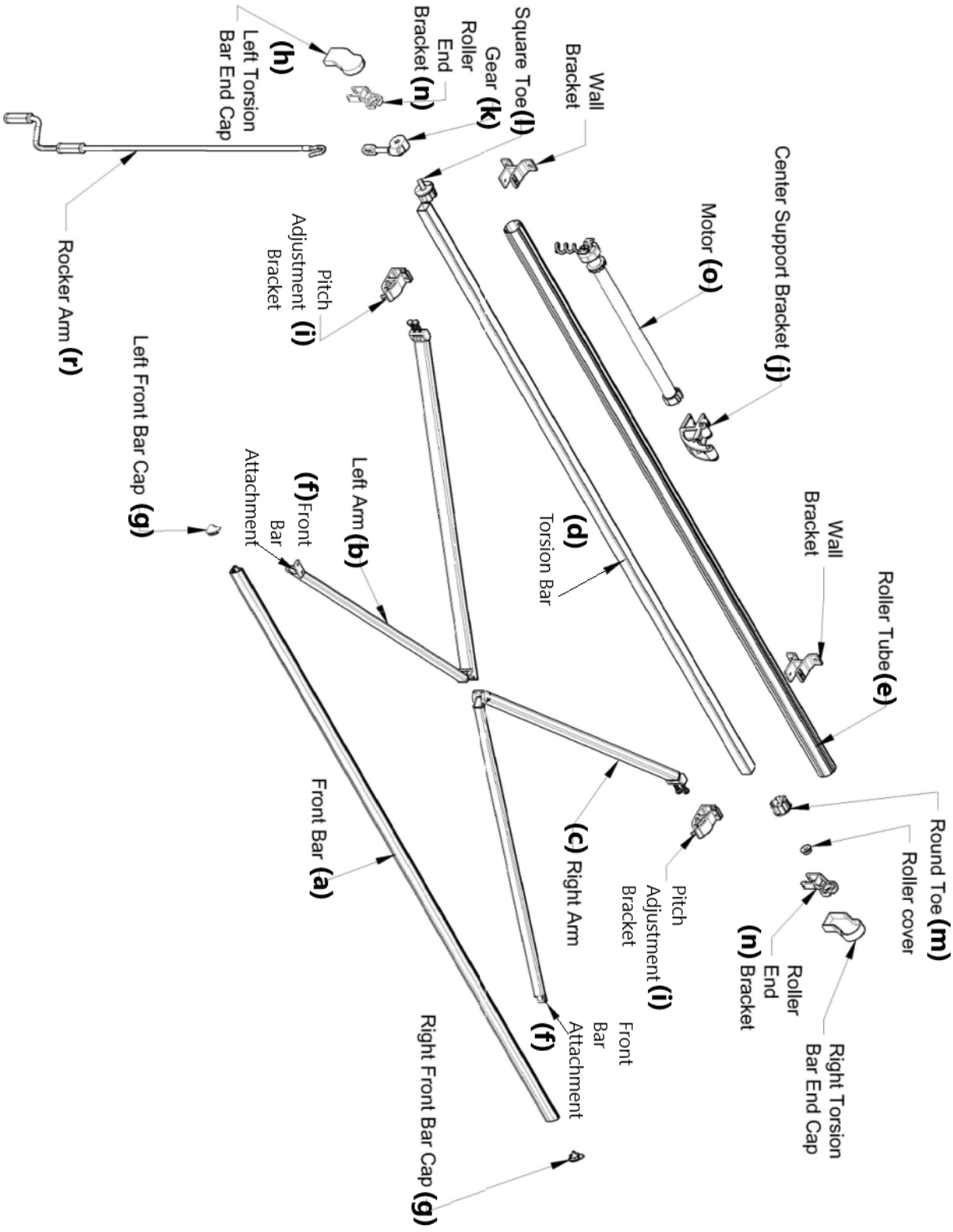
NOTE: Please inspect the parts for damage during shipping and/or for any missing items. If you suspect that there may be damage or a shortage, contact us and we will send replacement parts if needed. At this time, visualize how the components fit together and make sure that you have identified the various parts.

Hardware for different surface applications

Congratulations, and thank you for purchasing your retractable awning from General Awnings. We wish you, your family and friends many enjoyable gatherings beneath it. As you will see, the awning is fully assembled, so all you have to do is install the brackets, slide the awning into the brackets, secure the awning into the brackets, make some adjustments…and enjoy!

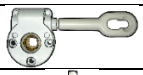
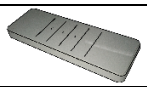
Different building materials utilize different hardware. We provide general advice on installation hardware and processes. If you are uncertain about necessary hardware or the installation process for your structure, please seek professional guidance in regards to necessary hardware and installation process for your specific structure and material requirements.

Assembly Parts Diagram



Parts List (Mounting Hardware not included)

NOTE: A bottle of touch up paint is included with each awning for your convenience. After assembly, please inspect your awning for scratches or exposed metal. If you notice exposed metal, liberally apply touchup paint to the afflicted areas. Please note that the touchup paint not only conceals the damages, but also protects the metal from corrosion or rust.

PART IMAGE	PART NAME	PART#
	FRONT BAR *style varies between models	**a**
	LEFT ARM	**b**
	RIGHT ARM	**c**
	TORSION BAR	**d**
	ROLLER TUBE	**e**
	FRONT BAR ATTACHMENT *style varies between models	**f**
	FRONT BAR END CAP *style varies between models	**g**
	TORSION BAR END CAP (MAUI)	**h1**
	TORSION BAR END CAP (DESTIN)	**h2**
	ADJUSTABLE PITCH BRACKET	**i**
	CENTER SUPPORT BRACKET (FULL CASSETTE SIZES 16+) (MAUI/DESTIN SIZES 14+)	**j**
	GEAR (MANUAL UNITS ONLY)	**k**
	SQUARE TOE	**l**
	ROUND TOE	**m**
	ROLLER END BRACKET (DESTIN ONLY)	**n**
	AT45MR-50 TUBULAR MOTOR (MOTORIZED UNITS ONLY)	**o**
	AT2700/AT90 REMOTE (MOTORIZED UNITS ONLY)	**p**
	MOTOR-LIMIT ADJUSTMENT TOOL (MOTORIZED UNITS ONLY)	**q**
	ROCKER ARM *for motorized units, use **only** when motor is **not** under power	**r**
	HOOD (DESTIN ONLY)	**s**
	WALL BRACKETS (SEE PAGE 7 BELOW)	**t**

Pre-Install Instructions

BEFORE YOU BEGIN: Please read through the installation instructions fully prior to installation. Damages to the awning during installation are not covered under manufacturer's warranty . After reading through the manual, if you feel that you will need installation assistance, we recommend immediately getting in contact with a local professional contractor. Please note that PLACEMENT OF THE BRACKETS IN THE OPTIMUM LOCATION WILL GREATLY AFFECT YOUR LONG-TERM HAPPINESS WITH YOUR AWNING.

TIME REQUIRED FOR INSTALLATION: 1-2 hours
NUMBER OF INSTALLERS REQUIRED: 2-3 depending on size

UNDESIRABLE DROP OF AWNING WHEN EXTENDED: Your mounting surface may not be 90° perpendicular to the ground. Use a level to check before installing. The weight of the awning when fully extended may cause unforeseen torque/force/depression on certain wall materials. Although it may not compromise the mounting surface, this will result in excess drop/drag of the awning when extended. It is important to make adjustments at the time of bracket installation if you desire zero drop/drag of the front bar when the awning is extended. See page 26 for more information on excessive pitch drop.

The following list of wall materials may require correction to avoid excess drop/drag:

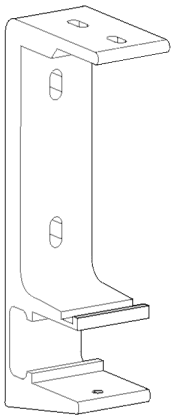
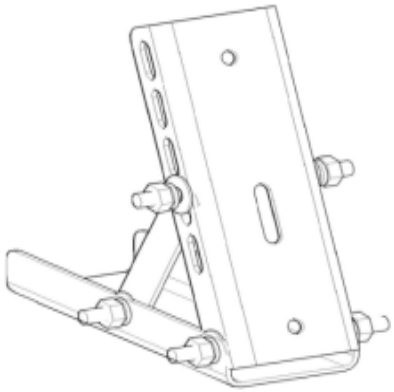
1. **Wood**: The awning weight will force the wood to bow/twist. Place enough (2-4) large washers between the wall and the bottom holes of the brackets to artificially pitch up the bracket. Changing the angle of the brackets will help to compensate for unwanted drop/drag of front bar when awning is extended.

2. **Siding**: The awning weight will force siding material to compress/warp/twist as there is a gap between siding and structural supports in the wall. Place enough washers (2-4) between siding and bottom holes of the brackets to artificially pitch up the bracket. Changing the angle of the brackets will help to compensate for unwanted drop/drag of front bar when awning is extended.

3. **Brick**: Bricks may be uneven. Place a board or flat surface across installation plane to determine whether brackets will be level. Place enough washers (2-4) between siding and bottom holes of the brackets to artificially pitch up the bracket. Changing the angle of the brackets will help to compensate for unwanted drop/drag of front bar when awning is extended.

DUE TO VARIOUS WALL TYPES, WE DO NOT PROVIDE THE HARDWARE TO MOUNT THE WALL BRACKETS TO MOUNTING SURFACE.

Mounting Bracket Styles

Wall Mounting Brackets (STANDARD)	Eave Mounting Brackets (OPTIONAL)	Roof Mounting Brackets (OPTIONAL)
		
These are the most commonly used brackets. They are included with all awnings. This bracket is designed for any flat exterior wall mounting surface with a horizontal band at least 10" and at least 8' height for head room allowance from the eave to the surface of the patio. It can also be mounted on a fascia (with guttering removed) 8'+ from the patio to the bottom of the facia.	This bracket is designed for any application where there is not a 10" tall horizontal vertical band to mount the awning to and there is an eave (or bottom of a beam) at least 8' head room allowance from the surface of the patio to the bottom of the eave. The eave (or bottom of the beam) must be at least 4.5" wide. It is also an effective tool if eaves are deep and you want to maximize the projection of your awning.	This bracket works in tandem with a Wall Mounting Bracket and is designed for any application where the wall mounting and eve mounting bracket conditions are either not met or acceptable and a roof mounting application is desired. It is not designed for composition roofs on wafer board or plywood decking. (At this time, we have no solution for clay tile, slate, or cedar shake applications over lath.) **NOTE: WE HIGHLY RECOMMEND THE PURCHASE OF A MOTOR FOR THIS APPLICATION.** We strongly recommend that a professional roofing contractor perform roof installations.

To purchase additional brackets, please contact support@generalawnings.com.

Mounting Bracket Requirements and Specifications

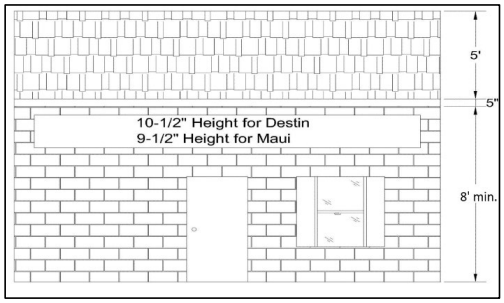
Awning Sizes and Brackets Quantity					
Width	**Projection**	**Brackets**	**Width**	**Projection**	**Brackets**
8	7’	2	16	10’ (12’ Optional)	4
10	8’	2	18	10’ (12’ Optional)	5
12	10’	3	20	10’ (12’ Optional)	5
14	10’ (12’ Optional)	3	24	10’ (12’ Optional)	6
Projection measured from the wall to the front bar. Optional projection available at additional cost.					

WALL BRACKET Measurements in Inches:		**SOFFIT BRACKET Measurements in Inches:**		**ROOF BRACKET Measurements in inches:**	
Height	5 1/2	*Height*	9 7/16	*Height*	9 1/4
Width	1 3/4	*Width*	2 5/16	*Width*	9 1/4
Depth	4	*Depth*	4 3/8	*Depth*	9
Between the Mounting Holes	4	*Between the Holes (Top)*	2 1/2	*Distance Between Bracket Mounting Holes*	Range: 3 1/4 4 3/4
		Between the Holes (Back)	3 1/4		

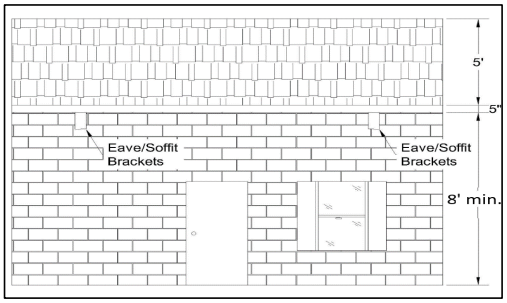
Determining Bracket Placement

Please refer to the following drawings to
determine your particular mounting application

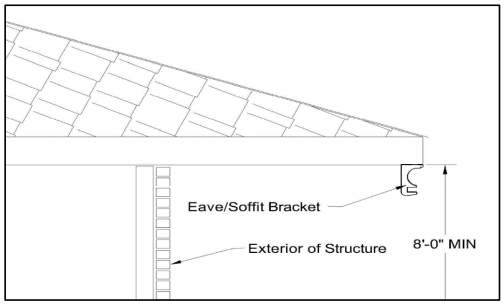
A



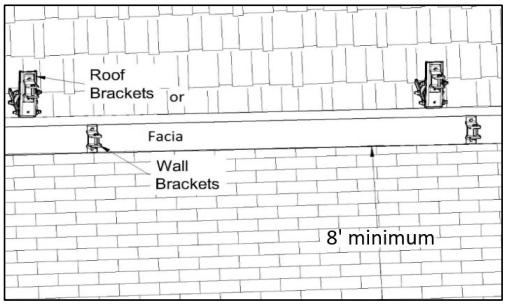
B



C



D



NOTE: Height and materials vary between structures

If **A** most closely reflects your application, this requires Wall Brackets, which are included with your awning.

If **B** or **C** most closely reflect your desired application, this requires that you purchase one Soffit Bracket to replace each Wall Bracket. For example, a Destin 12' wide awning requires 3 wall brackets (see page 8). For applications B and C, 3 soffit brackets will need to be purchased separately to replace the 3 standard wall brackets that came with your awning.

If **D** most closely reflects your desired application, you will need Wall Brackets for both applications (which come with your awning); However, should you choose a roof mounted application, you must purchase one Roof Bracket per Wall Bracket required. (Wall bracket works in tandem with roof bracket). For example, a Destin 12' wide awning requires 3 wall brackets (see page 8). For application D where the brackets are placed on the roof, 3 roof brackets will need to be purchased separately. The roof brackets are ***combined*** with the wall brackets.

Installation Instructions

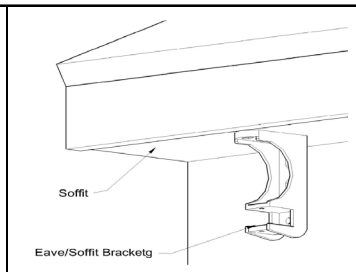
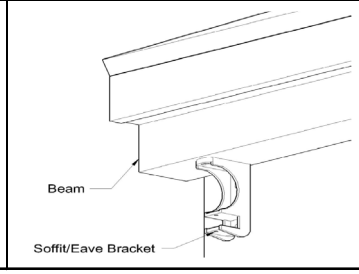
Hardware for different surface applications

Prior to assembly, please take a moment to understand the type of mounting surface you are working with. There are a variety of installation surfaces as shown in the tables below. Given the wide variety of mounting surfaces, please be aware that the manufacturer **does not** supply mounting hardware for your brackets. You will need to purchase installation hardware at your local hardware store tailored to your structure. Once you have secured your proper installation hardware, please be aware of the following when installing your brackets:

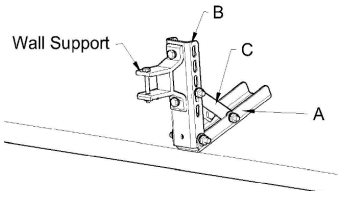
- The manufacturer is not liable for damages resulting from improper installations.
- All brackets should be horizontally even across to allow the awning to easily slide into all brackets. See awning installation instructions in the following pages.
- Be aware of your mounting surface type as it relates to the installation pre-read on page 6. If additional pitch is required to bring your brackets even with your mounting surface, consider having additional washers on hand to artificially raise your bracket pitch.
- It is highly recommended to place your brackets evenly across the awning to allow for an equal distribution of weight.
- It is highly recommended to place one bracket on each side within 12” of their respective ends. As an example, we would recommend a bracket placement as follows:

If you have any concerns regarding the installation process or necessary hardware for your specific application, please consult a professional. We have advised you on the following installation methods:

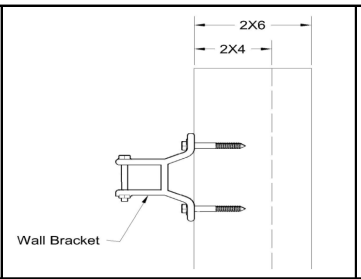
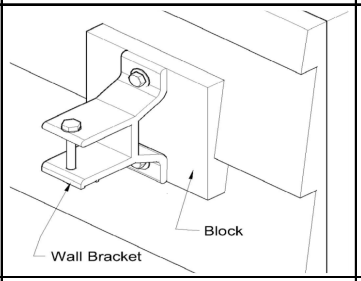
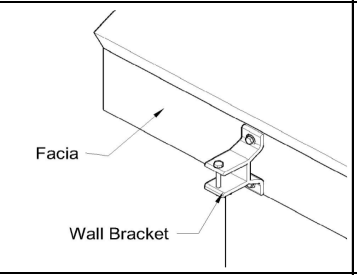
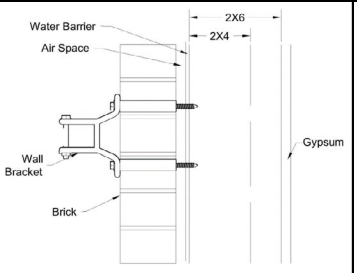
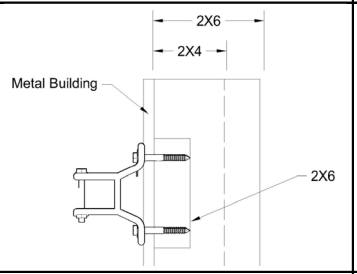
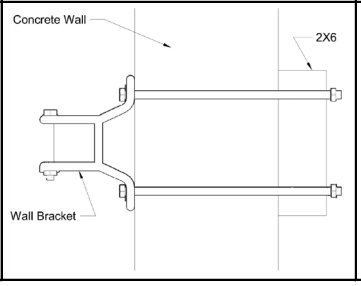
Soffit Mount Installation Applications

Eave		3/16” Drill bit 3/8”x3” Lag Screws λΩ 3/8” Washers
Beam		3/16” Drill bit 3/8”x3” Lag Screws λΔ 3/8” Washers
Δ Brackets must be fastened securely to a structural beam or studs inside the wall. *Ω Brackets must be fastened securely to rafters or beams.* **WE RECOMMEND A MINIMUM MOUNTING HEIGHT OF 8’ FOR HEAD CLEARANCE**		

Roof Mount Installation Applications

Roof: a motorized unit is recommended for all roof applications		Consult a Professional λΩ
You must center and secure your brackets into the center of studs or rafters. These are hidden from view behind your wall surfaces or roof surface. A stud finder is a tool that finds nails with an internal magnet. Nails are an indicator of where studs and rafters are, but not a guarantee. It is extremely important that you test your conclusions. Nails will be found in vertical lines. Fully install a bolt in the location where you have concluded your stud or rafter is located; if at any time it becomes easy to turn the ratchet, you ARE NOT in the stud or rafter. For guide purposes only; most studs and rafters are 12”, 16”, or 24” apart.		
Ω Brackets must be fastened securely to rafters or beams. **WE RECOMMEND A MINIMUM MOUNTING HEIGHT OF 8’ FOR HEAD CLEARANCE**		

Wall Mount Installation Applications

Flat Siding Stucco Cement Cultured Stone		Consult a Professional $^{\lambda\Delta}$
Aluminum Vinyl Hardboard Lap Siding		Consult a Professional $^{\lambda\Psi}$
Facia		Consult a Professional $^{\lambda\Omega}$
Brick Stone Wood		3/8” Masonry Bit $^{\lambda\Delta}$ Screws: $^{\lambda\Delta}$ 3/8”x3” Wedge Anchors; or 3/8”x3” Tapcon Screws; or 3/8”x3” Lag Screws 3/8” Washers (1 per screw)
Metal		Consult a Professional $^{\lambda\Delta}$
Concrete/Cinder Blocks		Consult a Professional $^{\lambda}$

Δ Brackets must be fastened securely to a structural beam or studs inside the wall.

Ψ Wood Blocks must be fastened securely to a structural beam or studs inside the wall.

Ω Brackets must be fastened securely to rafters or beams.

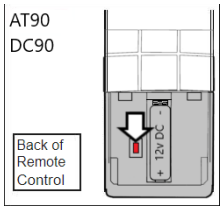
WE RECOMMEND A MINIMUM MOUNTING HEIGHT OF 8’ FOR HEAD CLEARANCE

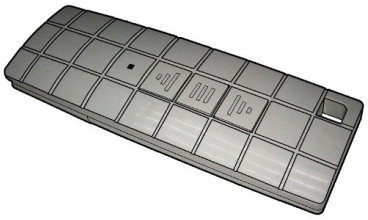
Installing the Awning into the Brackets

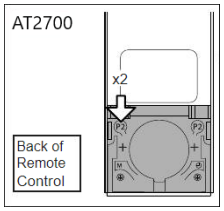
1. Begin by inspecting the awning to make sure all moving pieces are securely fastened:
    - **Throughout this process, ensure the awning arms are closed and tied to the cassette of the frame. Do not loosen the bindings until after the awning is securely fastened to its brackets.**
    - Ensure the roller tube (part **e** on page 4) is securely fastened to the inside end caps (part **h1** on page 4 for Maui) or end brackets (part **n** on page 4 for Destin). The roller tube should not be able to freely move on either end of the awning.
2. Once the awning is confirmed to be securely closed, set up the installation area by placing two ladders on a flat, dry, stable surface underneath both ends of the install surface. **As a reminder, please ensure that the awning is in the closed position and the arms are tied closed at all stages of this process**. This will prevent the unit from inadvertently opening while being lifted into the brackets.
3. With the help of an assistant (or 2+ assistants if your awning is more than 12' long), lift the awning up and slip the torsion bar (part **d** on page 4) into its brackets. Make sure the torsion bar slides all the way to the back of the bracket. If the torsion bar does not easily slip into the brackets, we recommend that you immediately pull off the awning and rest it on the ladder. Double check that all brackets on your mounting surface are horizontally aligned before reperforming this step.
4. Once the awning is secured into its brackets, slide the retaining bolts (bolts that come with the wall mounting brackets) into the pre-drilled bracket holes. Horizontally center the unit as needed, then tighten the nuts on the remaining bolts.
5. Once the awning is fully secure, retighten the nuts on the brackets and carefully cut the bindings from all arms.

AT2700/AT90 433MHz Remote Control for AT45MR Tubular Motors

Remotes are paired to motors at the factory during manufacturing, but you may need to re-pair yours again, from time to time.







Battery Life: Expected life of the battery is 1-2 years with operating load of 3-4 times per day. If the battery is low, the LED on the front of the remote control will not light up or send signal to the receiver. To change the battery, open the back panel of the remote control and replace the battery.

To pair your awning remote to its motor, please perform the following:

Step 1) Unplug motor and remove back cover from remote.
Step 2) Once you plug the motor back in, you have 6 seconds to perform next steps.
Step 3) Press P2 button on back of remote TWICE.
Step 4) Press UP button on front of remote ONCE.

Your remote should now be paired to the motor. Our motorized awnings are programmed to extend and retract fully. This motor has a manual override option. In case of power failure, you can retract or extend the awning by using the manual rocker arm (part **r** on page 4). For motorized units, please note that the manual crank should only be used when the motor is not under power. The motor **must be disengaged/unplugged** to use the manual crank.

REMOTE TECHNICAL SPECIFICATIONS

Remote Model	AT2700	AT90
Power Supply	3V DC	12V DC
Battery Type	Lithium CR2450	Alkaline 27A
Working Temperature	23°F to 160°F	23°F to 160°F

Post-Install Adjustments

Once your awning is installed into the mounting brackets and you are able to extend it, you may notice aspects of it that you wish to alter. Our retractable awnings' functionality can be adjusted in several ways, whether it be your motor limits, fabric tightness, or awning pitch at full extension to name a few. Please refer to the table of contents on page 2 for a list of desired adjustments. Although all of these adjustments can be performed without the need of additional assistance, **should you need help we ask that you contact** support@generalawnings.com. Our technical support team can arrange a time to schedule a live call for real-time assistance over the phone. We've walked through a few common adjustments herein.

Motor-Limits (Opening and Closing distance for motorized awnings)

Our AT45MR tubular motors are preset at the factory to open and close at the optimal open/close locations; however, these limits can be adjusted to automatically stop anywhere you prefer. Before you begin adjusting, please ensure you have your motor-limit adjustment tool (part **q** on page 4) on hand. Please also ensure that all adjustments are being made to the limit switches located on the **bottom** of the motor head, or the side closes to the ground. **Please be aware that the manufacturer is not responsible for motor failures resulting from incorrectly adjusted motor limits. Damages resulting from incorrectly adjusted motor limits are not covered under the manufacturer's warranty. Please read the below instructions carefully. If you need assistance, feel free to reach our team at support@generalawnings.com.**

TOOLS NEEDED	PART #
Motor-Limit Adjustment Tool	q

1. **TO INCREASE OPENING LIMITS**: **Red** Screw for Right Motor and **White** Screw for Left Motor. Fully extend the awning by pressing the OPEN button on the remote. Let the awning come to a stop by itself and do not press any other buttons on the remote. At the fully opened position, turn the respective limit screw in the **CLOCKWISE** one half-turn at a time until it reaches your desired extension.

2. **TO INCREASE CLOSING LIMITS**: **Red** Screw for Left Motor and **White** Screw for Right Motor. Fully retract the awning by pressing the CLOSE button on the remote. Let the awning come to a stop by itself and do not press any other buttons on the remote. If awning stops closing before fully closed, turn the respective limit screw in the **CLOCKWISE** direction one half-turn at a time until it reaches your desired position. **We recommend closing within a ½ inch of fully closed – be wary of closing the awning too far in**:

   ⚠ **CAUTION: overcorrecting closing limits can result in the motor trying to close more than it physically can. The awning will remain permanently activated in this scenario, which results in premature motor failures from overheating. The manufacturer is not**

responsible for motor failures resulting from incorrectly adjusted motor limits.

3. **TO DECREASE OPENING LIMITS**: **Red** Screw for Right Motor and **White** Screw for Left Motor. Open the awning to about 1 foot away from full extension and press the STOP (middle) button on the remote. Turn the respective limit screw in the **COUNTER CLOCKWISE** direction approximately 20 full-turns. Press the OPEN button on the remote. If the motor responds, press STOP immediately and repeat another 20 additional turns. Repeat this process until the motor does not respond to the OPEN button any longer. Next, retract the awning halfway from fully open. Once retracted halfway, press OPEN to extend the awning until it stops on its own. It should stop short of the desired extension. Now start turning the respective limit screw in the **CLOCKWISE** direction one half-turn at a time until it reaches your desired extension.

4. **TO DECREASE CLOSING LIMITS**: **Red** Screw for Left Motor and **White** Screw for Right Motor. Retract the awning until it reaches about 1 foot away from fully closed and press the STOP button on the remote. Turn the respective limit screw in the **COUNTER CLOCKWISE** direction approximately 20 full-turns. Press the CLOSE button on the remote. If the motor responds, press STOP immediately and repeat another 20 additional turns. Repeat this process until the motor does not respond to the CLOSE button any longer. Next, open the awning halfway from fully open. Once opened halfway, press CLOSE to retract the awning until it stops on its own. It should stop short of the desired retraction. Now start turning the respective limit screw in the **CLOCKWISE** direction one half-turn at a time until it reaches your desired position. **We recommend closing within a ½ inch of fully closed – be wary of closing the awning too far in**:

   ⚠ **<u>CAUTION</u>: overcorrecting closing limits can result in the motor trying to close more than it physically can. The awning will remain permanently activated in this scenario, which results in premature motor failures from overheating. The manufacturer is <u>not</u> responsible for motor failures resulting from incorrectly adjusted motor limits.**

LEFT MOTOR: Increase OPENING and CLOSING			DIRECTION
Closing	Red	Right Turn	
Opening	White	Right Turn	
LEFT MOTOR: Decrease OPENING and CLOSING			
Closing	Red	Left Turn	
Opening	White	Left Turn	

RIGHT MOTOR: Increase OPENING and CLOSING		
Closing	White	Right Turn
Opening	Red	Right Turn
RIGHT MOTOR: Decrease OPENING and CLOSING		
Closing	White	Left Turn
Opening	Red	Left Turn

Adjustable Pitch Bracket

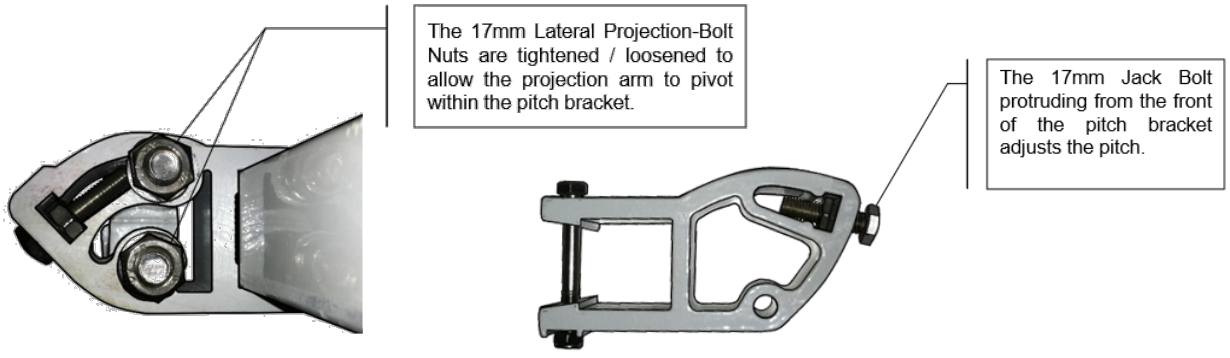
Before performing pitch adjustments, you will want to make sure your awning wall brackets are flush against your mounting surface at full extension. **Ensure your awning isn't pitching forward as a result of misaligned wall brackets. Please review the installation pre-read on page 6 for more information.** The pitch bracket allows the customer to adjust their awning pitch from near-zero (~0) degrees, up to fifteen (15) degrees in downward pitch.

These adjustments require that the awning be fully deployed for up to 30 minutes. For this reason, only adjust the pitch bracket in calm weather conditions. **Please note that neither the manufacture nor vendor cover weather-related damages under its manufacturer warranty.**

These adjustments require that the awning be fully deployed for up to 30 minutes. Significant torque is applied to the supporting hardware within the pitch bracket under these conditions. Improperly following the steps below (not loosening the projection arms, or not removing the load off of the pitch bracket by raising the arms) can cause the supporting pitch bracket hardware to strip / cross-thread when making pitch adjustments. **Please note that neither the manufacture nor vendor cover stripping/cross threading damages to the pitch bracket under its manufacturer warranty.**

To make pitch bracket adjustments, please review the following procedures:

TOOLS NEEDED	PART #
Hand Ratchet + 17mm Socket	N/A
A second person to assist	N/A



1. *Prepare the awning*: Begin by fully extending the awning. Have one person (Person1) at the end of the awning holding the front bar, and another person (Person2) at the respective pitch bracket. As a reminder, only perform these adjustments in calm weather conditions.

2. *Loosen the projection arms' connection to the pitch bracket*: Using a hand ratchet + 17mm socket, have Person2 begin by loosening both Lateral Projection-Bolt Nuts (see left image above). This will give the projection arm room to pivot forwards and backwards in the pitch bracket in steps 3-5 below.

⚠ **Failure to perform this step can cause the Jack Bolt to strip/cross thread. The manufacturer is <u>not</u> responsible for pitch bracket damages resulting from improper adjustments to the pitch bracket.**

3. *Release the load off of the jack bolt*: Have Person1 raise the front bar on the side being adjusted. For example, if the left pitch bracket is being adjusted, Person1 should raise the front bar on the left side of the awning to relieve the pressure on the left pitch bracket's jack bolt.

   ⚠ **Failure to perform this step can cause the Jack Bolt to strip/cross thread. The manufacturer is <u>not</u> responsible for pitch bracket damages resulting from improper adjustments to the pitch bracket.**

4. *Adjust the height of the front bar*:
   - **INCREASE HEIGHT OF AWNING**: With Person1 still raising the respective end of the front bar, Person2, using their fingers, must turn the Jack Bolt **CLOCKWISE** ↷ to **INCREASE** the awning height at the front bar. This adjustment allows the jack bolt to sit further inside the pitch bracket, which prevents the lateral projection arm bolts from pitching forward. This increases the height at the front bar. **If the jack bolt cannot be turned by hand, <u>do not use force to turn the jack bolt</u>. Immediately repeat steps 2 and 3 above to ensure the load is removed off of the jack bolt. Using force on the jack bolt risks cross-threading the jack bolt, rendering the pitch bracket useless.**

   - **DECREASE HEIGHT OF AWNING**: With Person1 still raising the respective end of the front bar, Person 2, using their fingers, must turn the Jack Bolt **COUNTER-CLOCKWISE** ↶ to **DECREASE** the awning height at the front bar. This adjustment pulls the jack bolt further outside of the pitch bracket, which allows the lateral projection arm bolts to pitch forward. This reduces the height at the front bar. **If the jack bolt cannot be turned by hand, <u>do not use force to turn the jack bolt</u>. Immediately repeat steps 2 and 3 above to ensure the load is removed off of the jack bolt. Using force on the jack bolt risks cross-threading the jack bolt, rendering the pitch bracket useless.**

5. *Measure and adjust*: After each adjustment, have Person1 slowly release the front bar. This will allow the projection arms to pitch forward / rest in the pitch bracket. Measure the distance from the front bar to the ground. Repeat this process (steps 3 and 4) until both ends of the front bar measure the same desired distance from the ground (assuming that the awning is installed over a flat area). Once both ends of the front bar match in height, you should see that the front bar is parallel with the ground when viewed from a distance.

6. Once the front bar is parallel with the ground and you are comfortable with the pitch of the awning, have Person2 tighten up the Lateral Projection-Bolt Nuts. Please note that as you tighten the Lateral Projection-Bolt Nuts, the awning arms move up and down on the frame with respect to the torsion bar. This is not noticeable until the awning is retracted / the arms are closed. See section "Adjusting the Evenness of the Arms on the Frame" below.

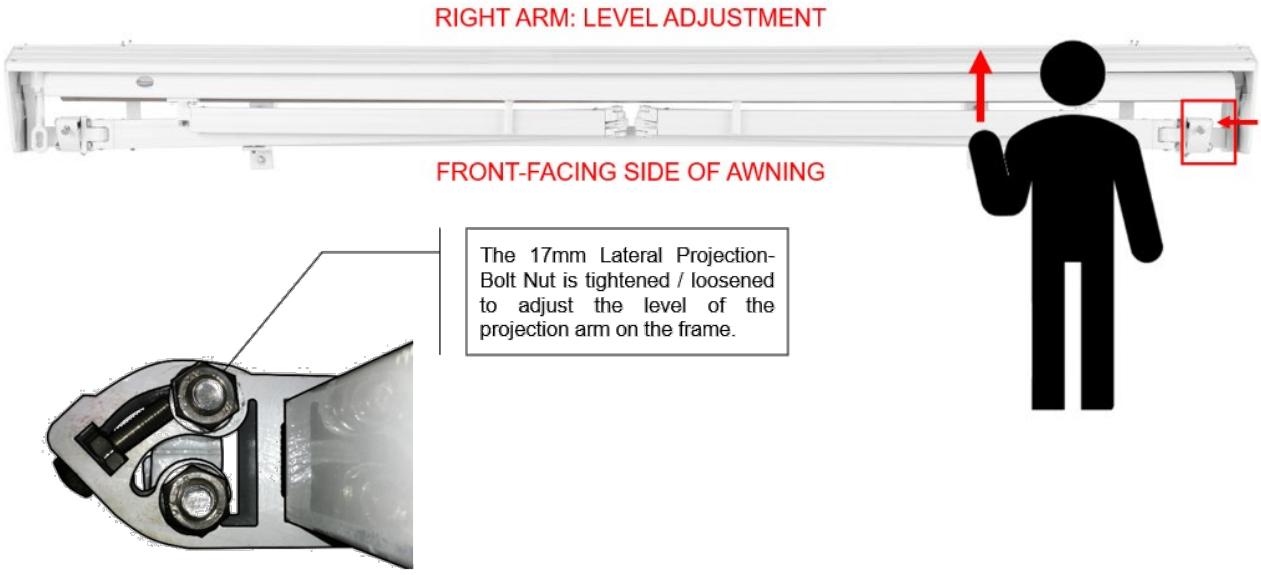
Adjusting the Evenness of the Arms on the Frame

When fully retracted, rattling in shipping or pitch bracket adjustments (see above) may result in one of the projection arms sitting higher / dropping lower than the other(s). If this is the case, you will need to adjust the level of the arm using the adjustable pitch bracket (part **i** on page 4). The desired outcome of these adjustments is to have your projection arms sit even / parallel with the torsion bar of the awning. Note that the torsion bar is the long steel square tubing that sits in the brackets connected to the wall. The torsion bar makes up the base of the awning frame.

The steps below require adjustments directly to the arms. Please note that any time you are making adjustments to your arms and the supporting hardware, that you **must** tie down the spring-loaded arms. This is a general safety precaution for when you are working on your arms. Improperly following the steps below (not binding the arms) can result in serious injury or death. **Please note that under the manufacturer's warranty, damages from improperly securing the projection arms while making adjustments to the projection arms are not covered.**

To adjust the evenness of the projection arms when fully retracted, please review the following procedures:

TOOLS NEEDED	PART #
Hand Ratchet + 17mm Socket	N/A



1. Begin by fully retracting the awning. Once closed, secure the arms by binding them to prevent them from releasing.

   ⚠ **Failure to bind the projection arms when making the below adjustments can result in serious injury or death. The manufacturer is not responsible for damages from improperly securing the projection arms while making adjustments to the projection arms.**

2. Using the diagram above of a right-arm adjustment, begin by standing with the left hand on the projection arm, and the right hand within reach of the top Lateral Projection-Bolt Nut shown in the profile-view of the pitch bracket above.

3. **RAISE THE ARM**: Lift the arm using the left hand. This will relieve pressure on the Lateral Projection-Bolt Nut. Using the right hand and the hand ratchet + 17mm socket, tighten/turn **CLOCKWISE** the Lateral Projection-Bolt Nut. Once tightened, release the left arm and determine if any further adjustments are necessary.

4. **LOWER THE ARM**: Lift the arm using the left hand. This will relieve pressure on the Lateral Projection-Bolt Nut. Using the right hand and the hand ratchet + 17mm socket, loosen/turn **COUNTER-CLOCKWISE** the Lateral Projection-Bolt Nut. Once loosened, release the left arm and determine if any further adjustments are necessary.

   ⚠ **Do not fully remove the Lateral Projection-Bolt Nut. Removal can cause significant tension on the bottom lateral bolt if the arm is released, which may result in catastrophic damage, serious injury, or even death. The manufacturer is not responsible for damages from improperly securing the projection arms while making adjustments to the projection arms.**

5. Continue adjusting the arms until the desired evenness is achieved, typically when the projection arms run in parallel with the torsion bar. Once complete, ensure the awning is fully retracted before removing the binding off of the arms.