

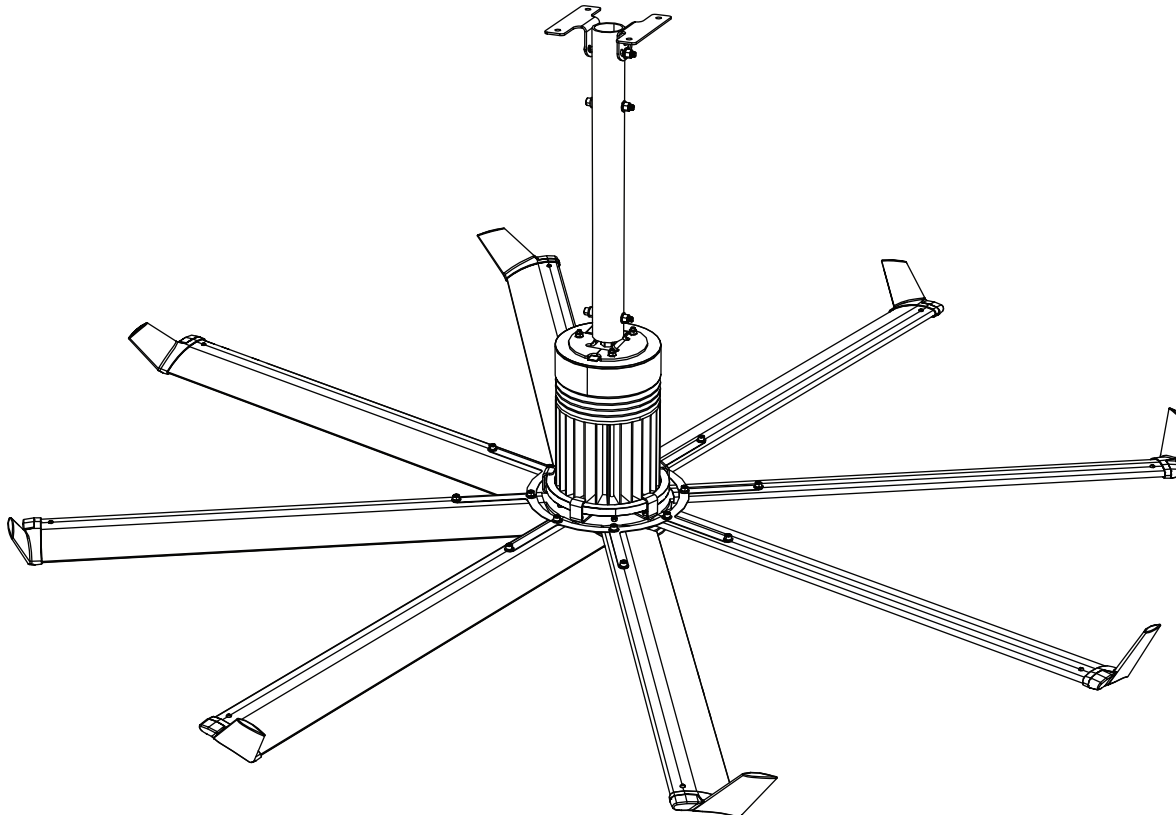


BIGASS[®]
FANS

No Equal[™]

INSTALLATION GUIDE

Isis[®]



For help, call 1-877-BIG-FANS
or visit www.bigassfans.com

Installation Checklist

Did a structural engineer approve the mounting structure? See page 7 for Big Ass Fans-approved mounting structures.

Will the fan be installed so that the airfoils are at least 10 ft (3.05 m) above the floor?

Will the fan be installed so that the airfoils have at least 2 ft (0.61 m) of clearance from obstructions?

Will the fan be installed so that it is not subjected to high winds such as from a Heating, Ventilating, and Air Conditioning (HVAC) system or near a large garage door? If the fan is mounted at the same level or higher than a diffuser, the winglets or airfoil tips must be at a distance that is at least 1x the measure of the fan's diameter. If the fan is mounted at the same height or below a diffuser, the winglets or airfoil tips must be at a distance that is at least 2x the measure of the fan's diameter.

Will the fan be mounted where it will not come into direct contact with water? The fan should not be mounted where it will come into direct contact with water unless it is labeled, "Suitable for use in wet locations."

Will the distance between multiple fans be at least 2.5x the fans' diameter when measured from the centers of the fans?

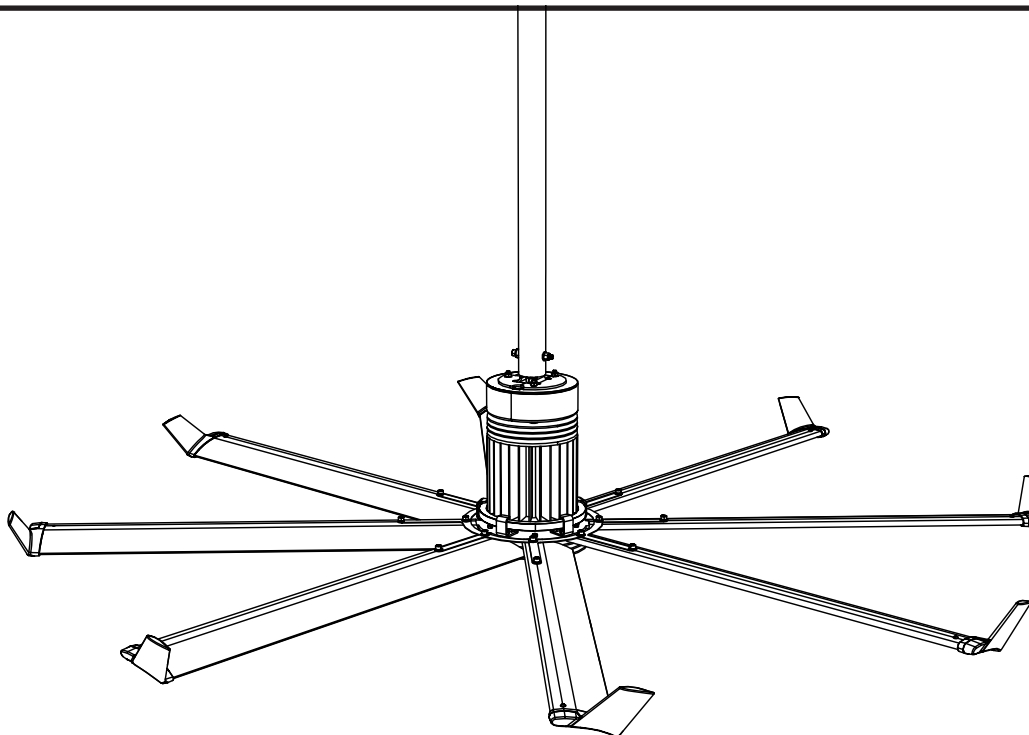
If you ordered multiple fans, did you keep the parts of each fan together?

What type of circuit does your building structure have, 3-wire or 2-wire? Isis® 120 V is shipped with a controller that is compatible with 3-wire circuits. If your building structure includes a 2-wire circuit, the Limited Access Controller and Remote must be installed with the fan. If you require the Limited Access Controller and did not note it at the time of order, contact Customer Service.

Customer Service: 1-877-BIG-FANS
(International: +1 859 233 1271)

Installation Guide

Isis®



Installation Guide:
Apr. 2015
Rev. D



Intertek

Conforms to ANSI/UL STD 507–Electric Fans
Certified to CAN/CSA C22.2 No.113–Fans & Ventilators



This product was manufactured in a plant whose
Management System is certified as being in
conformity with ISO 9001:2008.

Contact Information

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www.bigasssolutions.com/patents



IMPORTANT SAFETY INSTRUCTIONS READ AND SAVE THESE INSTRUCTIONS

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

CAUTION: Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards.

CAUTION: When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

CAUTION: Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.

WARNING: Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

CAUTION: The installation of a Big Ass Fan must be in accordance with the requirements specified in this installation manual and with any additional requirements set forth by the National Electric Code (NEC), ANSI/NFPA 70-2011, and all local codes. Code compliance is ultimately YOUR responsibility!

CAUTION: Exercise caution and common sense when powering the fan. Do not connect the fan to a damaged or hazardous power source. Do not attempt to resolve electrical malfunctions or failures on your own. Contact Big Ass Fans if you have any questions regarding the electrical installation of this fan.

WARNING: To reduce the risk of fire, electric shock, and injury to persons, Big Ass Fans must be installed with Big Ass Fan supplied controllers that are marked (on their cartons) to indicate the suitability with this model. Other parts cannot be substituted.

CAUTION: When service or replacement of a component in the fan requires the removal or disconnection of a safety device, the safety device is to be reinstalled or remounted as previously installed.

WARNING: Risk of fire, electric shock, or injury to persons during cleaning and user-maintenance! Disconnect the fan from the power supply before servicing.

CAUTION: Do not bend the airfoils when installing, adjusting, or cleaning the fan. Do not insert foreign objects in between rotating airfoils.

WARNING: Stay alert, watch what you are doing, and use common sense when installing fans. Do not install fans if tired or under the influence of drugs, alcohol, or medication. A moment of inattention while installing fans may result in serious personal injury.

CAUTION: The installation of this fan requires the use of some power tools. Follow the safety procedures found in the owner's manual for each of these tools and do not use them for purposes other than those intended by the manufacturer.

CAUTION: The Big Ass Fans product warranty will not cover equipment damage or failure that is caused by improper installation.

Leave this installation guide with the owner of the fan after installation is complete.

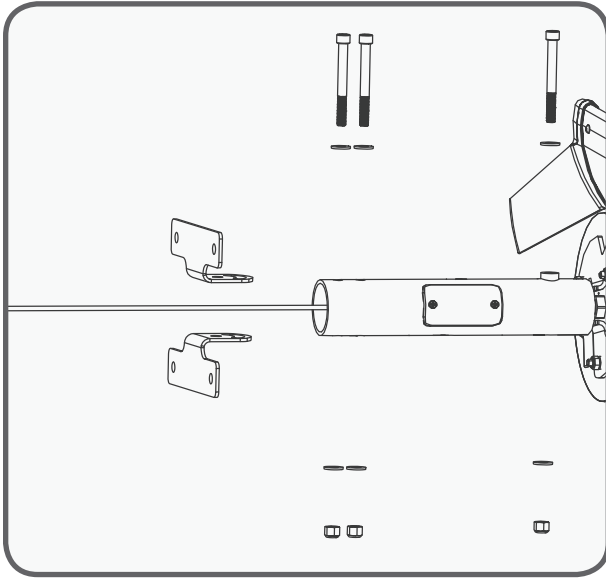
CAUTION: Do NOT install the fan where it may come into direct contact with water unless the fan is labeled, "Suitable for use in wet locations."

ATTENTION: If installing the fan in the United States, the fan must be installed per the following National Fire Protection Association (NFPA) guidelines:

- The fan must be centered approximately between four adjacent sprinklers.
- The vertical distance from the fan to the sprinkler deflector must be at least 3 ft (91.4 cm).
- The fan must be interlocked to shut down immediately upon receiving a waterflow signal from the alarm system.

Reference Guide

The following is intended as a reference guide. See the referenced pages for complete fan installation and operating instructions.



Mounting the fan

If mounting to bar joists, see *Mounting Structure: Bar Joists* on page 9.

If mounting to a wood frame structure, see *Mounting Structure: Wood Frame* on page 14.

If mounting to a solid beam, see *Mounting Structure: Solid Beam* on page 18.

For alternative mounting methods, see page 4.

Hanging the fan

See *Hanging the Fan* on page 20.

Wiring the controller and fan

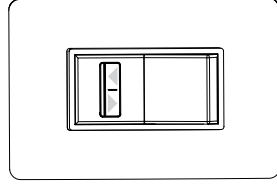
See *Electrical Installation* on page 27.

Mounting the controller

See *Mounting the Wall Controller* on page 32.

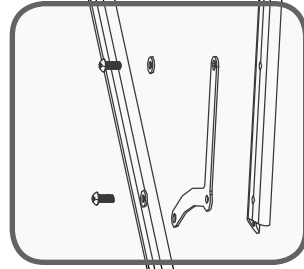
Operating the fan

See *Fan Operation* on page 33.



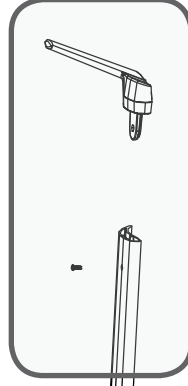
Airfoil installation

See *Installing Airfoils* on page 25.



Winglet installation

See *Installing Airfoils* on page 25.

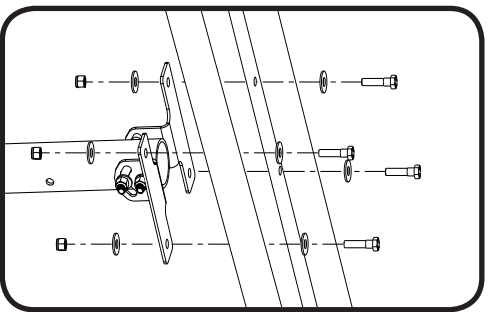
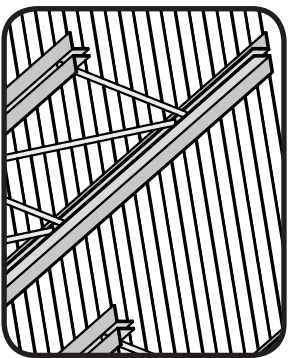


*Winglets are standard. Airfoil tips are available as an option.

Reference Guide: Mounting

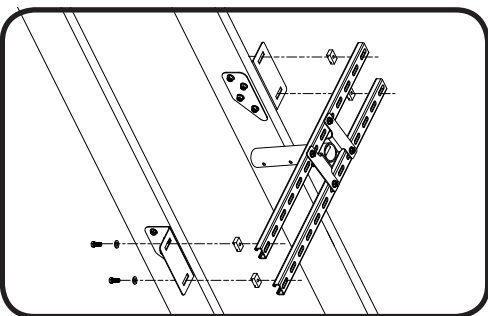
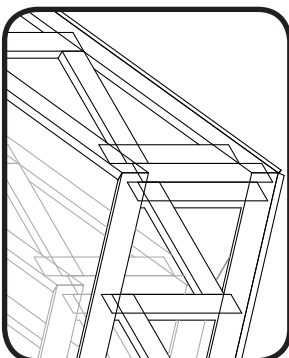
The following is intended as a reference guide for Isis® fan mounting methods. See the referenced pages for complete fan installation and operating instructions. Consult a structural engineer to determine which mounting method best suits your building structure. To order optional mounting kits, see the Optional Parts Order Form (page 43).

Bar Joists



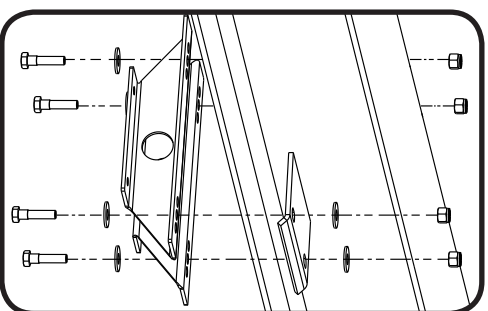
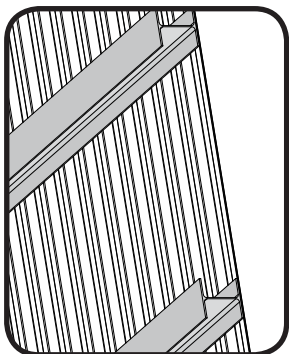
See page 9 for mounting instructions.

Wood Frame Structures



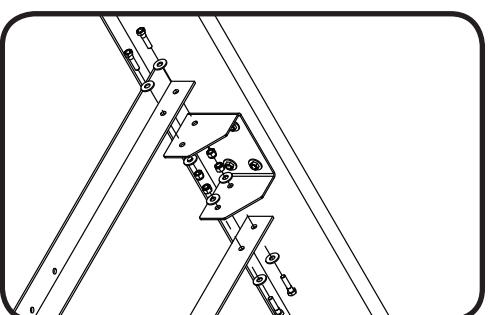
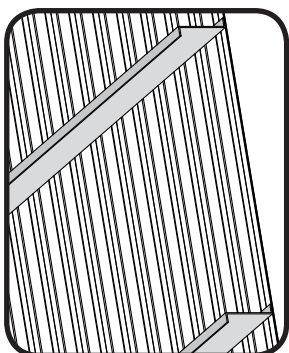
See page 14 for mounting instructions.

I-Beam



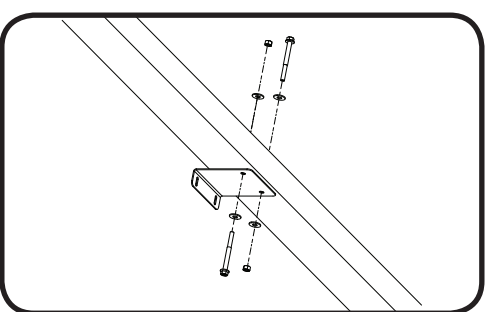
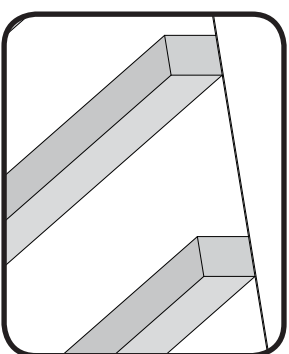
See complete instructions included with the I-Beam Adapter Installation Kit.

Z-Purlin



See complete instructions included with the Z-Purlin Installation Kit.

Solid Beam



See page 18 for mounting instructions.

Contents

General Information	Important Safety Information.....	ii
	Reference Guide.....	iii
	Reference Guide (Mounting).....	iv
Introduction	Thank You.....	1
	About Big Ass Fans.....	1
	About this Fan.....	1
Pre-Installation	What's in the Box.....	2
	Parts Included.....	3
	Alternative Mounting Methods.....	4
	Tools Needed.....	5
	Fan Diagram.....	6
	Preparing the Work Site.....	7
Mounting Structure: Bar Joists	1. Select Proper Angle Irons.....	9
	2. Pre-drill Angle Irons.....	10
	3. Secure Angle Irons (span is longer than 8 ft).....	10
	4a. Fasten Single Angle Irons to Roof Structure Mounting Points.....	11
	4b. Fasten Double Angle Irons to Roof Structure Mounting Points.....	12
5. Attach Upper Mount (to Angle Irons).....	13	
Mounting Structure: Wood Frame	1. Identify Mounting Location.....	14
	2a. Fasten Brackets (to Vaulted Ceiling Beams).....	14
	2b. Fasten Brackets (to Floor Joists).....	15
	2c. Fasten Brackets (to Ceiling Joists).....	15
3. Attach Upper Mount (to Wood Framing Channels).....	16	
4. Fasten Wood Framing Channels (to Brackets).....	17	
Mounting Structure: Solid Beam	1. Pre-drill Suitable Mounting Structure.....	18
	2. Determine Bracket Orientation.....	18
	3a. Attach L-Brackets (to Mounting Structure).....	19
	3b. Attach L-Brackets (to Mounting Structure with Safety Clips).....	19
4. Attach Upper Mount (to L-Brackets).....	19	
Hanging the Fan	1. Attach Extension Tube (to Upper Mount).....	20
	2a. Secure Safety Cable (to Angle Irons).....	20
	2b. Secure Safety Cable (to Wood Frame).....	20
	2c. Secure Safety Cable (to Solid Beam).....	21
	2d. Secure Safety Cable (to Solid Beam with Safety Clips).....	21
3. Attach Main Fan Unit (to Extension Tube).....	21	
Installing Guy Wires	1. Attach Guy Wire Clamps.....	22
	2. Attach Locking Carabiners to Guy Wire Clamps.....	23
	3a. Attach Beam Clamp (Bar Joist Mounting).....	23
	3b. Attach Eyebolt (Wood Frame Mounting).....	23
	4. Route Guy Wire through Gripple®.....	24
5. Install Three Remaining Guy Wires.....	24	
Installing Airfoils	1. Attach Winglets or Airfoil Tips (to Airfoils).....	25
	2. Position Airfoils.....	25
	3. Attach Airfoils (to Main Fan Unit).....	26
Electrical Installation	Electrical Installation Safety.....	27
	Power Requirements.....	27
	Wiring: Single Fan Application (120 V Isis®).....	28
	Wiring: Multi-Fan Application (120 V Isis).....	29
	Wiring the Fan (240 V, 50 Hz Isis).....	30
	Wiring the Fan (240 V, 50/60 Hz Isis).....	31
	Mounting the Wall Controller (120 V Isis).....	32
	Mounting the Wall Controller (240 V, 50 Hz Isis).....	32
Mounting the Wall Controller (240 V, 50/60 Hz Isis).....	32	

Contents

Fan Operation	120 V Isis®.....	33
	240 V, 50 Hz Isis.....	33
	240 V, 50/60 Hz Isis.....	33
	Changing the Fan Direction.....	34
Alternative Wiring Methods (120 V Isis®)	Limited Access Application.....	35
	Limited Access Fan Controller and Controller Remote Operation.....	36
	3-Way Single Fan Application.....	37
Preventive Maintenance	Annual Preventive Maintenance.....	38
	General Preventive Maintenance.....	38
Troubleshooting	General Troubleshooting.....	39
	Electrical Troubleshooting.....	39
	Replacing Fuses.....	40
Annual Maintenance Checklist	Annual Maintenance Checklist.....	41
Optional Parts Order Form	Optional Parts Order Form.....	43
Warranty Return Instructions	Acknowledgment & Return Instructions.....	45
	Warranty Claim Form Instructions.....	46
	Warranty Claim Form.....	47
	Responsibility Agreement.....	48
Big Ass Fan Certified Installers	Check-In Procedure.....	49
	Close-Out Procedure.....	51

Introduction

Thank you and congratulations on your purchase of a Big Ass Fan, an efficient and cost-effective way to stay cool in the summer and warm in the winter. The revolutionary design of our fans combines the best of both form and function to bring power performance and a sleek look to any setting. More importantly, you have purchased a product that is backed by extensive research, thorough testing, and quality manufacturing. We're ready to answer any questions or comments at 1-877-BIG-FANS or visit our Web site at www.bigassfans.com.

Who we are and what we do

Big Ass Fans has been the preeminent manufacturer of large-diameter, low-speed fans since 1999. With a worldwide presence and located in beautiful Lexington, KY, we research, design, and manufacture the most effective air movement solutions on the market. Our never-ending commitment to quality and innovation keeps us at the leading edge of a burgeoning industry. With an eye to helping customers satisfy their needs, and a strong sense of corporate responsibility to the community, Big Ass Fans has redefined the way business is done.

About this fan

Isis® is shipped with either a 110–125 VAC motor or a 200–240 VAC motor. The fan's voltage is marked on the fan packaging and on the label on top of the main fan unit. **The voltage cannot be changed during installation.** Ensure your fan is the correct voltage prior to beginning installation.

110–125 VAC Isis

Fan diameter	Input power	Minimum required supply circuit size	Full load amps	Max RPM	Airfoil length
8 ft (2.44 m)	110–125 VAC, 60 Hz	10 A	3.9	120	40" (101 cm)
10 ft (3.04 m)	110–125 VAC, 60 Hz	10 A	3.9	80	52" (132 cm)
12 ft (3.70 m)	110–125 VAC, 60 Hz	10 A	3.9	55	64" (162 cm)

200–240 VAC Isis

Fan diameter	Input power	Minimum required supply circuit size	Full load amps	Max RPM	Airfoil length
8 ft (2.44 m)	200–240 VAC, 50–60 Hz	10 A	2.4	120	40" (101 cm)
10 ft (3.04 m)	200–240 VAC, 50–60 Hz	10 A	2.4	80	52" (132 cm)
12 ft (3.70 m)	200–240 VAC, 50–60 Hz	10 A	2.4	55	64" (162 cm)

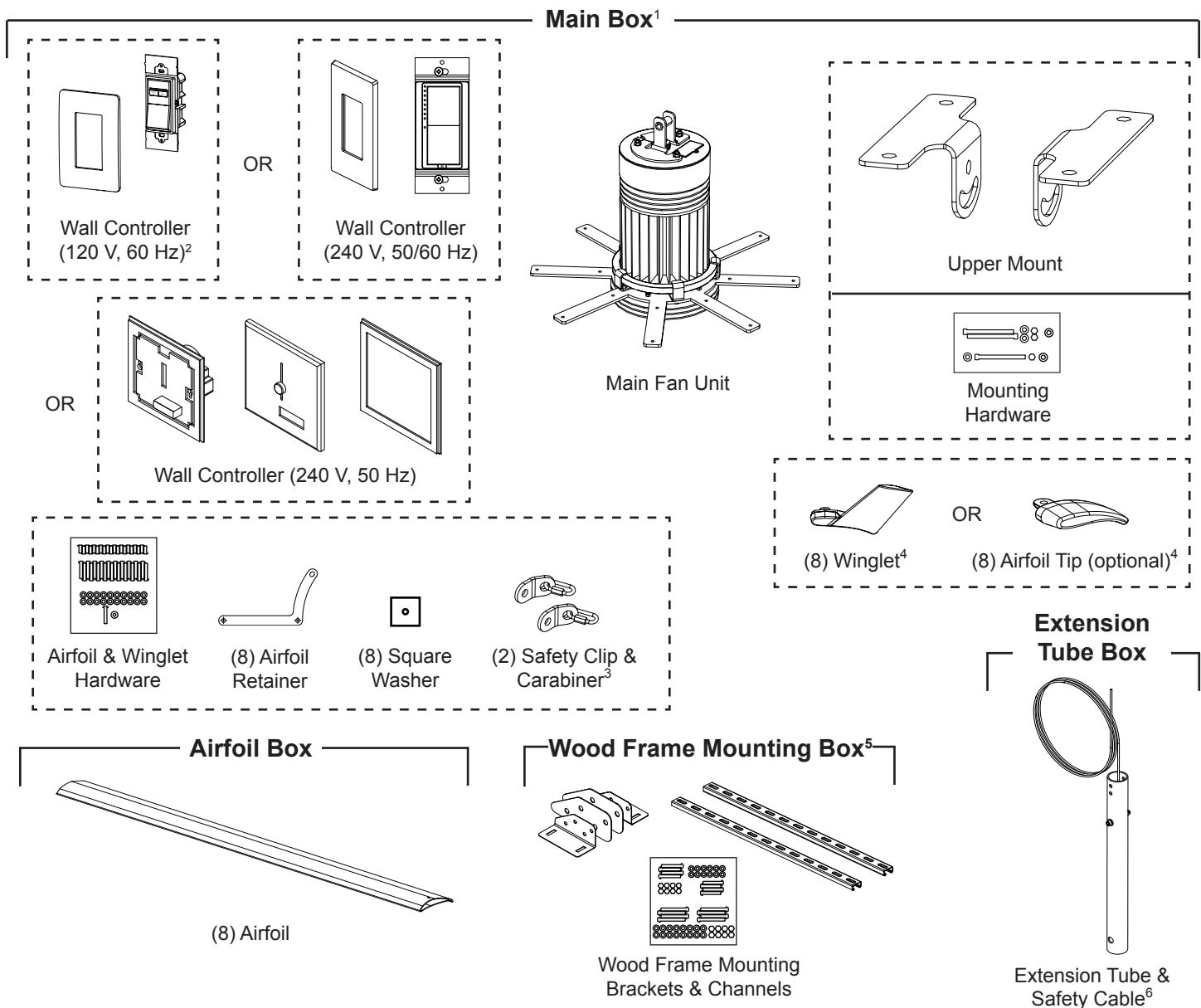
2 Pre-Installation

What's in the box

- ⚠ **CAUTION:** Do not remove the motor from its protective packaging prior to hanging it!
- ⚠ **CAUTION:** If you ordered multiple fans, be sure to keep the components of each fan together.

The fan is shipped in three labeled boxes. The large, square box contains the main fan unit, upper mount, wall controller, wallplate, airfoil retainers, winglets or airfoil tips, hardware, and fire relay. The fire relay and its Installation Guide (not shown below) are packaged in a small box within the main box. A smaller box contains the airfoils. Another small box contains the extension tube and safety cable. Optional parts are shipped in separate boxes that are labeled to identify the contents. If you are missing any piece required for installation, contact Big Ass Fans.

Note: Dashed lines indicate internal boxes or bags within the main box. Drawings below are not to scale. All boxes are labeled to identify the contents.

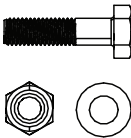
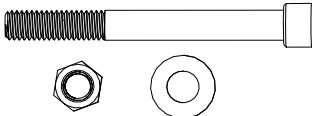
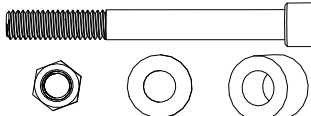
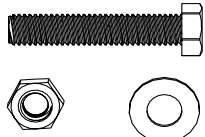
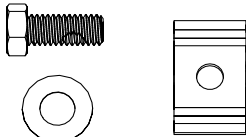
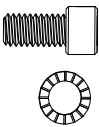



1. Guy wires (if ordered) are marked and packaged separately within the main box. Brackets for guy wires are included for tubes longer than 4 ft.
2. If installing the fan on a typical lighting circuit with one basic light switch, the Limited Access Controller must be installed.
3. Safety clips and carabiners are only used when the top of the mounting structure is inaccessible.
4. Winglets are standard on Isis® fans; however, airfoil tips are available as an option. Winglets or airfoil tips are installed on the airfoils during airfoil installation.
5. Optional. The Wood Frame Mounting kit is included only if ordered.
6. 1-ft extension tubes are labeled and packaged in the main box.

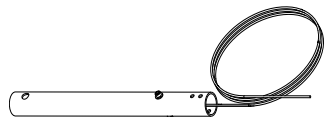
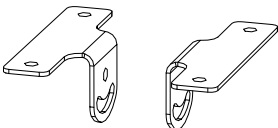
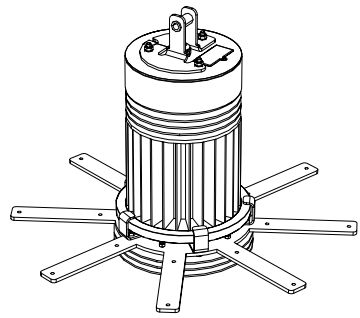
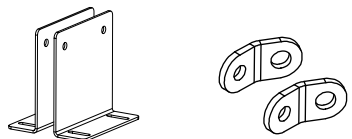
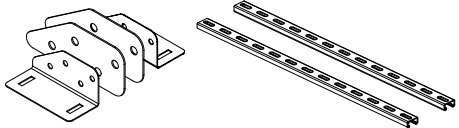
Parts included

Mounting methods vary by mounting structure. See the appropriate Mounting Structure section for specialized installation instructions. A fire relay is also included with the fan (not shown below). *Note: Drawings below are not to scale.*

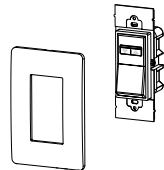
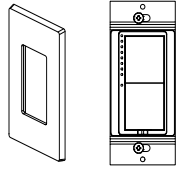
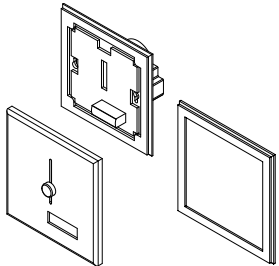
Hardware

			
Mounting Hardware (4) M10 x 40 mm Hex Head Cap Screw (8) M10 Flat Washer (4) M10 Nylock Nut	Extension Tube Hardware (2) M10 x 90 mm Socket Head Cap Screw (4) M10 Flat Washer (2) M10 Nylock Nut	Main Fan Unit Hardware (1) M10 x 90 mm Socket Head Cap Screw (1) 3/8" x 3/4" OD x 1/2" Spacer (2) M10 Flat Washer (1) M10 Nylock Nut	
			
Wood Frame Mounting Hardware (10) 5/16"-18 x 2-1/2" Bolt (20) 5/16" Flat Washer (10) 5/16"-18 Nylock Nut	Airfoil Hardware (16) M8 x 18 mm Socket Head Cap Screw (16) 8 mm Belleville Washer	Winglet Hardware (8) M5 x 12 mm Button Head Screw	

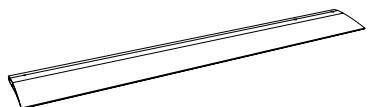
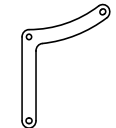
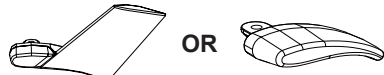
Mounting

		
Extension Tube¹	Upper Mount	
		Main Fan Unit
L-Bracket Mounting Kit² (2) L-Bracket (2) Safety Clip	Wood Frame Mounting Kit² (2) Wood Framing Channels (2) Wood Frame Mounting Brackets	

Wall Controller

		
120 V, 60 Hz³	OR 240 V, 50/60 Hz	OR 240 V, 50 Hz

Airfoils

	
(8) Airfoil	
	
(8) Winglet⁴	(8) Airfoil Tip⁴
	(8) Airfoil Retainer

- The safety cable is attached to the extension tube with a 3/8" bolt and nut.
- Optional. L-Brackets or the Wood Frame Mounting kit are included only if ordered. *Note: L-Bracket hardware is customer-supplied. Big Ass Fans recommends using 1/2"-13 or M12 Grade 8 hardware.*
- If installing the fan on a typical lighting circuit with one basic light switch, the Limited Access Controller must be installed.
- Airfoils can be purchased with winglets (standard) or airfoil tips (optional). Winglets or airfoil tips are installed on the airfoils during airfoil installation.

4

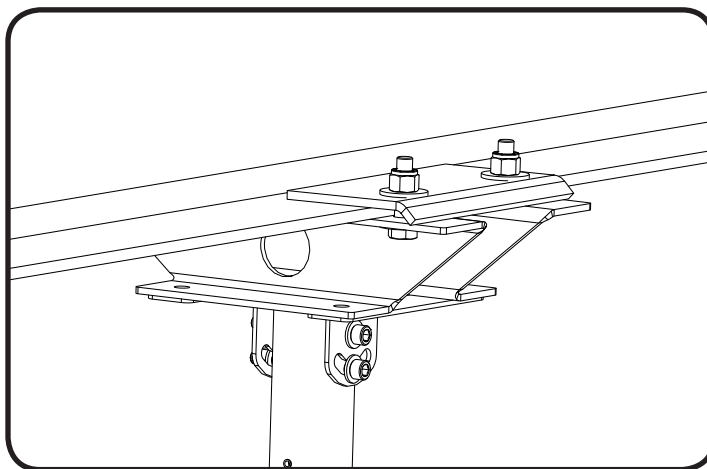
Pre-Installation (cont.)

Alternative mounting methods

The following can be purchased for unique residential mounting methods not covered in this manual by filling out the Optional Parts Order Form (page 43). Consult a structural engineer prior to fan installation. For more information, contact your Big Ass Fans Sales Representative or Customer Service.

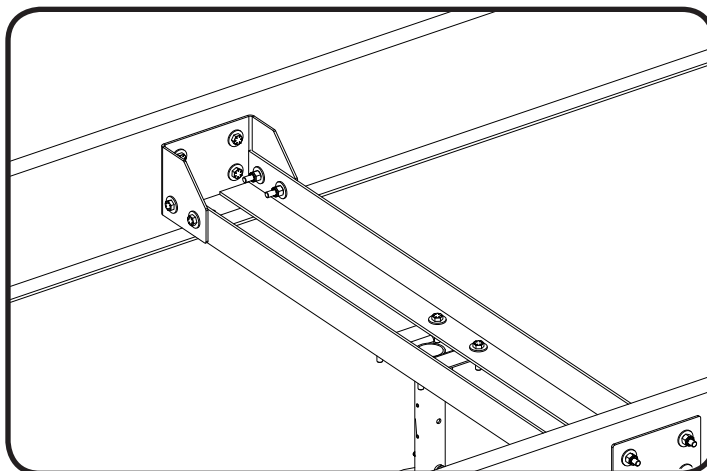
I-Beam Adapter

The I-beam adapter can be purchased for hanging the Isis from I-beams. Big Ass Fans offers both a small and large adapter depending on the width of the I-beam. The I-Beam Adapter can only be used on I-beams that are 5" (12.7 cm) to 9-7/8" (25 cm) (small adapter) or 9-7/8" (25 cm) to 14-5/8" (37 cm) (large adapter) in width. It is not recommended to mount the fan from fabricated I-beams. Consult a structural engineer to ensure your building structure meets the necessary requirements.



Z-Purlin Brackets

Specialized brackets can be purchased for hanging the Isis from building structures consisting of Z-purlins with lengths ≤ 30 ft and heights ranging from 8" (20.3 cm) to 10" (25.4 cm), and spaced ≤ 5 ft apart. The Z-purlin brackets accommodate up to a 5:12 roof pitch. Consult a structural engineer to ensure your building structure meets the necessary requirements. *Note: Angle irons are not supplied.*



Tools needed

Big Ass Fans recommends gathering the following tools prior to beginning installation.

Mechanical installation	Electrical installation
Standard and metric wrench sets	Phillips and flat head screwdrivers
Standard and metric socket and ratchet sets	#10 to #14 AWG strippers
Torque wrench capable of 29 ft·lb (39.3 N·m)	Medium size channel locks
Phillips and flat head screwdrivers	Multimeter
Standard and metric Allen wrench sets	
Metric Allen head sockets	
Drill	
Hacksaw	
Level	
Tape measure	

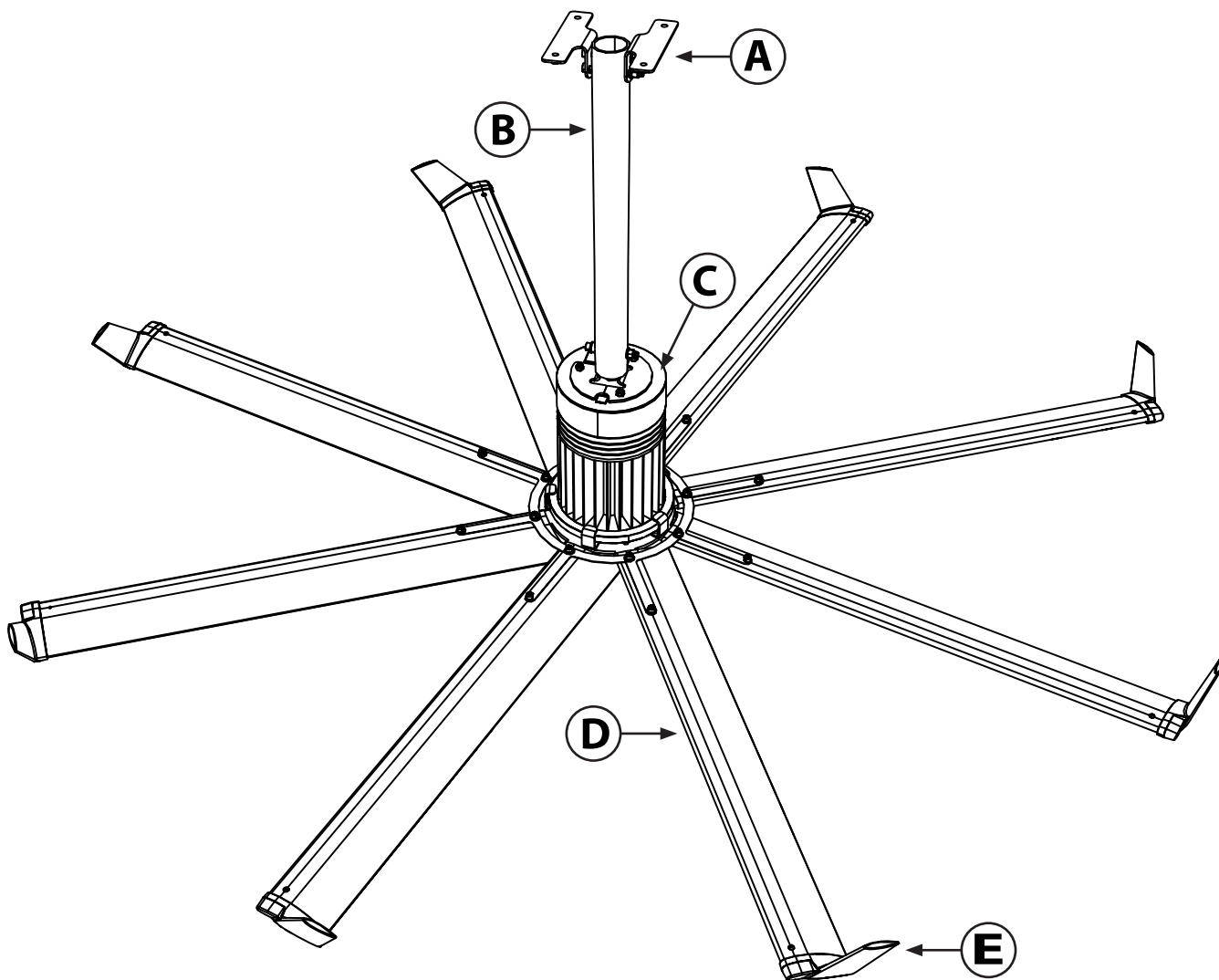
6

Pre-Installation (cont.)

Fan diagram

Refer to the diagram below to identify the fan components. *Note: Fan setup may differ from the illustration depending on the required mounting method. The safety cable is not pictured below; however, it is an important part of the installation.*

- A. Upper mount.** Secures the fan to the mounting structure.
- B. Extension tube.** Extends the fan from the ceiling and provides a path for wiring.
- C. Main fan unit.** Includes motor, hub, lower mount, and power wire.
- D. Airfoil.** Provides air movement. The unique, patented design provides efficient and effective air movement.
- E. Winglet.** Improves the efficiency of the fan. Winglets are standard on Isis® fans; however, airfoil tips are available as an option.



Preparing the work site

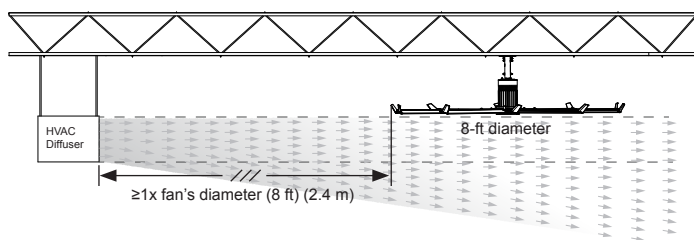
The fan should only be installed according to the instructions described in this manual. Consult a structural engineer for installation methods not covered in this manual. For optional mounting methods, refer to the installation instructions included with the fan parts.

When surveying the work site, keep the following mechanical and electrical guidelines in mind.

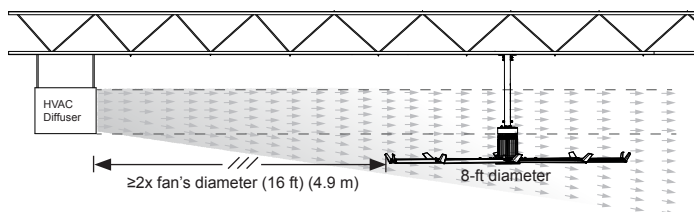
Mechanical

- A suitable means for lifting the weight of the fan, such as a scissor lift, and at least two installation personnel will be required.
- If hanging the fan from angle irons, the minimum dimensions of the angle iron must be 2-1/2"×2-1/2"×1/4" (6.4 cm × 6.4 cm × 0.6 cm) and it cannot be longer than 12 ft (3.6 m). It must be secured to the structure. Do not mount the fan to a single purlin, truss, or bar joist. Consult a structural engineer for installation methods not covered in this manual.
- To reduce the risk of injury to persons, install the fan so that the airfoils are at least 10 ft (3.05 m) above the floor.
- If mounting the fan in the vicinity of an infrared/radiant heater, it is recommended that the fan be mounted outside of the clearances recommended by the manufacturer of the heater and at a height equal to or above the shielding on the heating element with the controller on the opposite side of the heater. If mounting the fan below the heater shielding, all fan elements must be outside of the clearances recommended by the heater manufacturer. The installation manual for the specific model of heater will typically provide the minimum clearance to combustibles (MCC).
- Ensure the mounting location will not expose the fan to direct contact with water unless the fan is labeled, "Suitable for use in wet locations."
- Adhere to the safety requirements in the table below when selecting where to mount the fan.

Safety requirement	Minimum distances
Clearance	≥2 ft from all fan parts and ≥3 ft below sprinklers. The fan installation area must also be free of obstructions such as lights, cables, or other building structure.
Blade height	≥10 ft above the floor
HVAC equipment	≥1x fan diameter if above diffuser. ≥2x fan diameter if below diffuser. Refer to the illustration below.
Fan spacing	2.5x fan diameter, center-to-center
Radiant/IR heaters	See the manufacturer's requirements for the minimum clearance to combustibles.



The fan is located at or above the HVAC discharge or intake.



The fan is located below the HVAC discharge or intake.

Electrical

- Identify the existing wiring to determine which wiring application is needed to install the fan.
- If installing a 120 V fan on a typical lighting circuit with one basic light switch in which the critical red conductor or "traveler" is absent, you will need to purchase the Limited Access Controller. Please discuss this option with your Big Ass Fans representative.
- Isis® is shipped with either a 110–125 VAC motor or a 200–240 VAC motor. The fan's voltage is marked on the fan packaging and on the label on top of the main fan unit. **The voltage cannot be changed during installation.** Ensure your fan is the correct voltage prior to beginning installation.

Mounting Structure: Bar Joists

⚠ WARNING: The fan can weigh up to 120 lbs (54.4 kg). The fan should not be installed unless the structure on which the fan is to be mounted is of sound construction, undamaged, and capable of supporting the loads of the fan and its method of attachment. A structural engineer should verify that the mounting structure is adequate prior to fan installation. Verifying the stability of the mounting structure is the sole responsibility of the customer and/or end user, and Big Ass Fans hereby expressly disclaims any liability arising therefrom, or arising from the use of any materials or hardware other than those supplied by Big Ass Fans or otherwise specified in these installation instructions.

⚠ CAUTION: Do not install the fan from a single purlin or truss or junction box.

⚠ CAUTION: Unsupported angle iron spans should not exceed 12 ft (3.7 m).

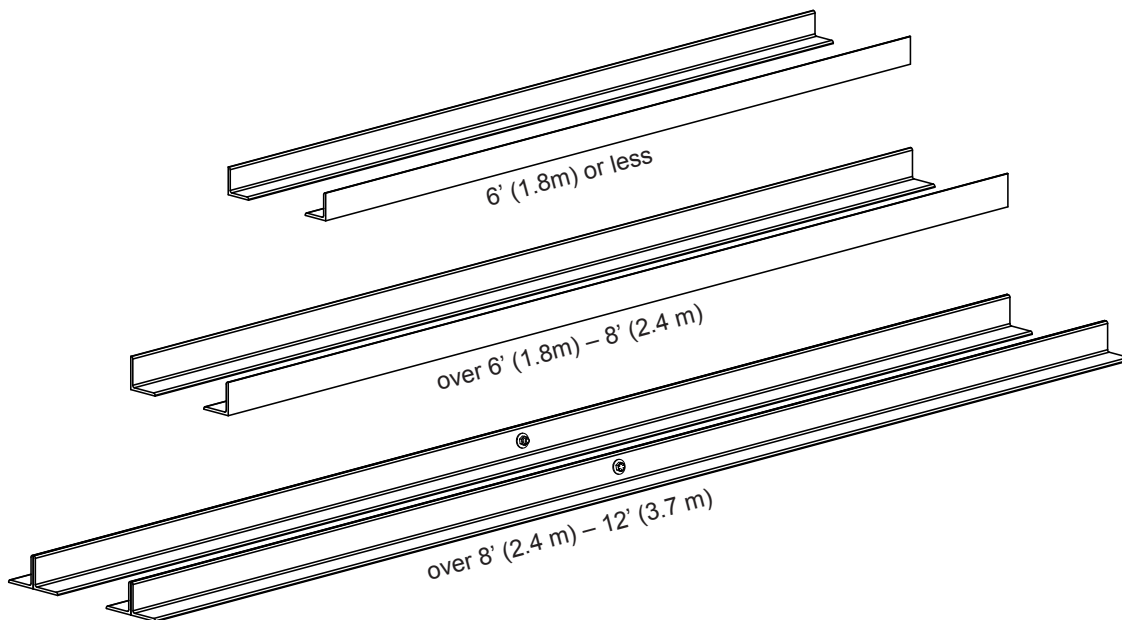
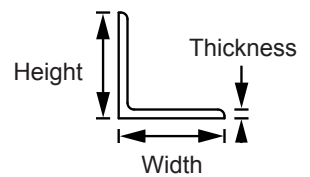
1. Select proper angle irons

Follow the table below when selecting angle irons for fan installation. *Note: Angle irons and angle iron hardware are not included with the fan.*

Angle iron span (between mounting points)	Minimum angle iron dimensions (W x H x T)	Number of angle irons needed
6 ft (1.8 m) or less	2.5" (6.4 cm) x 2.5" (6.4 cm) x 0.25" (0.6 cm)	2
over 6 ft (1.8 m) to 8 ft (2.4 m)	3" (7.6 cm) x 3" (7.6 cm) x 0.25" (0.6 cm)	2
over 8 ft (2.4 m) to 12 ft (3.7 m)	3" (7.6 cm) x 3" (7.6 cm) x 0.25" (0.6 cm)	4*

*Two pairs of angle irons. Pairs should be placed back to back and fastened in center (see step 3).

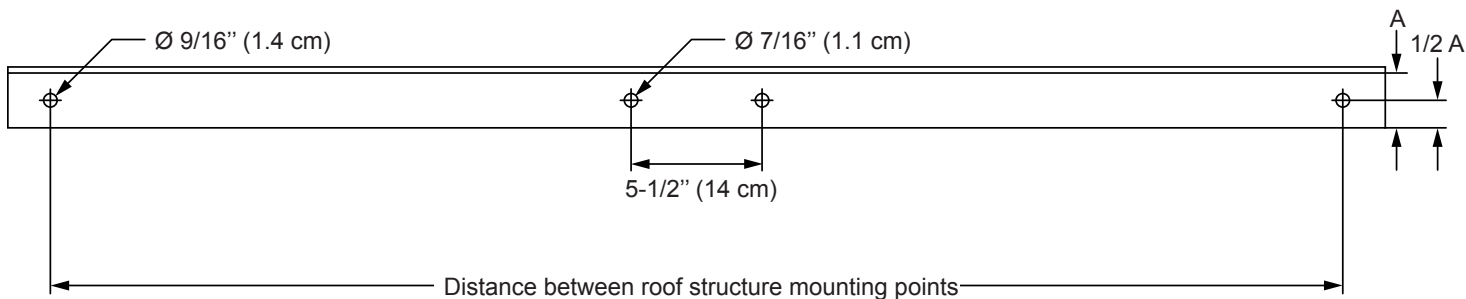
Angle Iron Side View
(see table for dimensions)



2. Pre-drill angle irons

Drill two $\text{Ø } 7/16''$ (1.1 cm) holes exactly $5\text{-}1/2''$ (14 cm) apart in the centers of two angle irons.

Measure the distance between the mounting points of the roof structure that the angle irons will span. Measure the same distance on the angle irons, and drill $\text{Ø } 9/16''$ (1.4 cm) holes through each end of the angle irons. Drill holes in two angle irons if span is 8 ft (2.4 m) or less. Drill holes in four angle irons if span is greater than 8 ft (2.4 m).



3. Secure angle irons (if span is longer than 8 ft)

If the angle iron span is 8 ft (2.4 m) or less, proceed to step 4a on the following page.

If the angle iron span is longer than 8 ft (2.4 m), it is necessary to use double angle irons.

Locate the center of the angle iron length. Drill $\text{Ø } 9/16''$ (1.4 cm) hole through the center of the vertical wall of the angle iron. Drill a total of four angle irons.

Place two drilled angle irons back to back. Fasten the angle irons together with customer-supplied Grade 8 hardware.

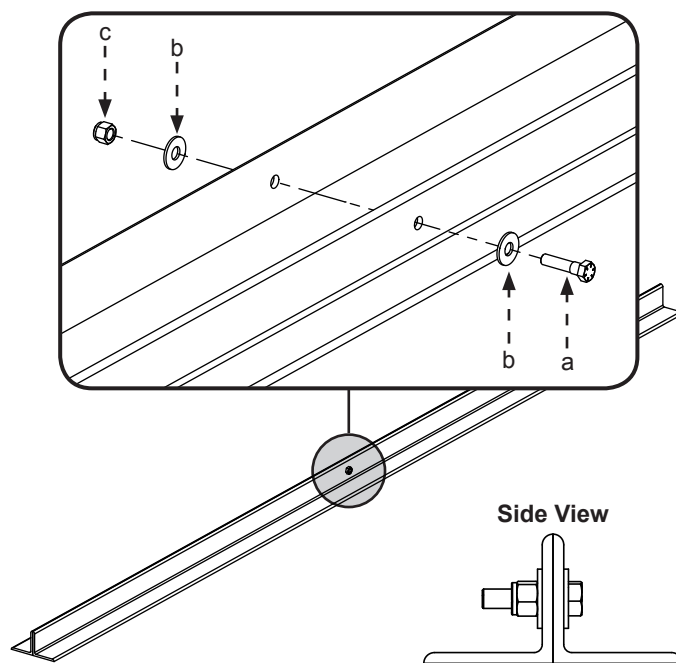
Align the angle irons to each other and tighten the bolts to **25 ft·lb (33.9 N·m)** using a $3/4''$ socket with torque wrench.

Repeat step for remaining two angle irons.

Proceed to step 4b.

Angle Iron Hardware (Customer-Supplied):

- (2) $1/2\text{-}13$ or M12 Bolt
- (4) $1/2''$ or M12 Washer
- (2) $1/2''$ or M12 Nut



4a. Fasten single angle irons to roof structure mounting points

If installation requires double angle irons, i.e., span is greater than 8 ft (2.4 m), proceed to step 4b.

⚠ CAUTION: The angle irons must be fastened to the roof structure at each end.

Fasten the angle irons to the roof structure mounting points at each end with customer-supplied Grade 8 hardware as shown. **Do not tighten the hardware until the fan has been mounted to the angle irons.** Note: *Big Ass Fans* recommends orienting the angle irons so that the horizontal legs are facing each other. Refer to the illustration below.

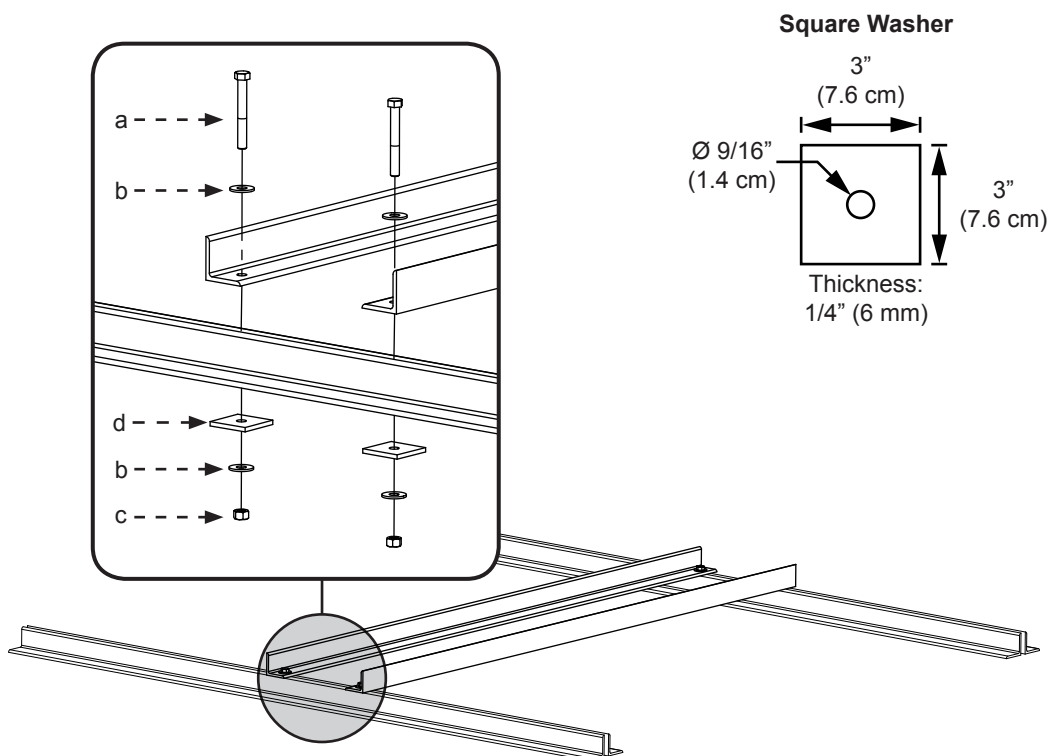
Proceed to step 5.

Angle Iron Hardware (Customer-Supplied):

- (4) 1/2-13 or M12 Bolt
- (8) 1/2" or M12 Washer
- (4) 1/2" or M12 Nut

Angle Iron Hardware (BAF-Supplied):

- (8) 3" Square Washer (see diagram)



4b. Fasten double angle irons to roof structure mounting points

⚠ CAUTION: The angle irons must be fastened to the roof structure at each end.

Fasten the angle irons to the roof structure mounting points at each end with customer-supplied Grade 8 hardware as shown. **Do not tighten the hardware until the fan has been mounted to the angle irons.**

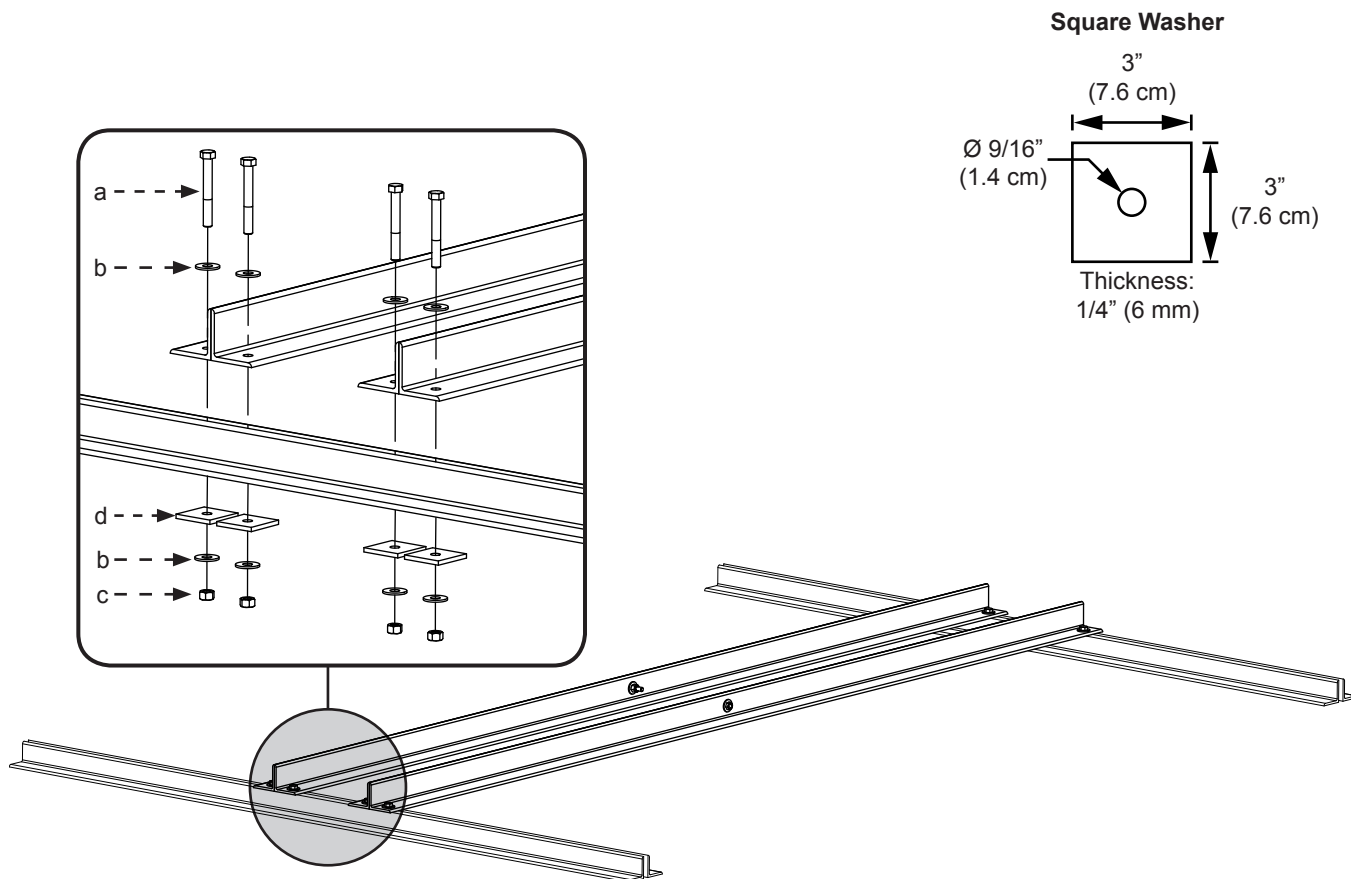
Proceed to step 5.

Angle Iron Hardware (Customer-Supplied):

- (8) 1/2-13 or M12 Bolt
- (16) 1/2" or M12 Washer
- (8) 1/2" or M12 Nut

Angle Iron Hardware (BAF-Supplied):

- (8) 3" Square Washer (see diagram)



5. Attach upper mount (to angle irons)

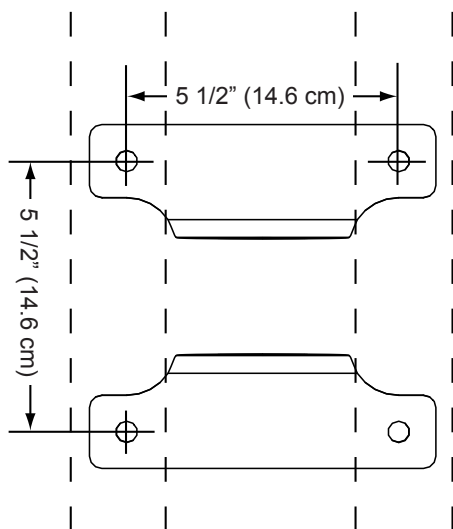
Secure the upper mount directly to the angle irons using the Mounting Hardware as shown. Consult the diagrams below for distances between the angle irons. Tighten the Mounting Hardware to **25 ft·lb (33.9 N·m)** using a torque wrench with a 17 mm socket.

Note: If desired, the upper mount and extension tube can be pre-assembled. DO NOT tighten the bolts until the fan is installed and hanging freely to allow for balancing.

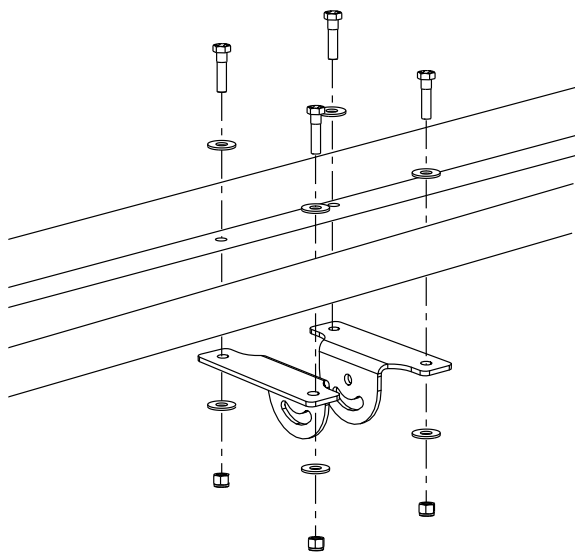
Mounting Hardware (BAF-Supplied):

- (4) M10 x 40 mm Hex Head Cap Screw
- (8) M10 Flat Washer
- (4) M10 Nylock Nut

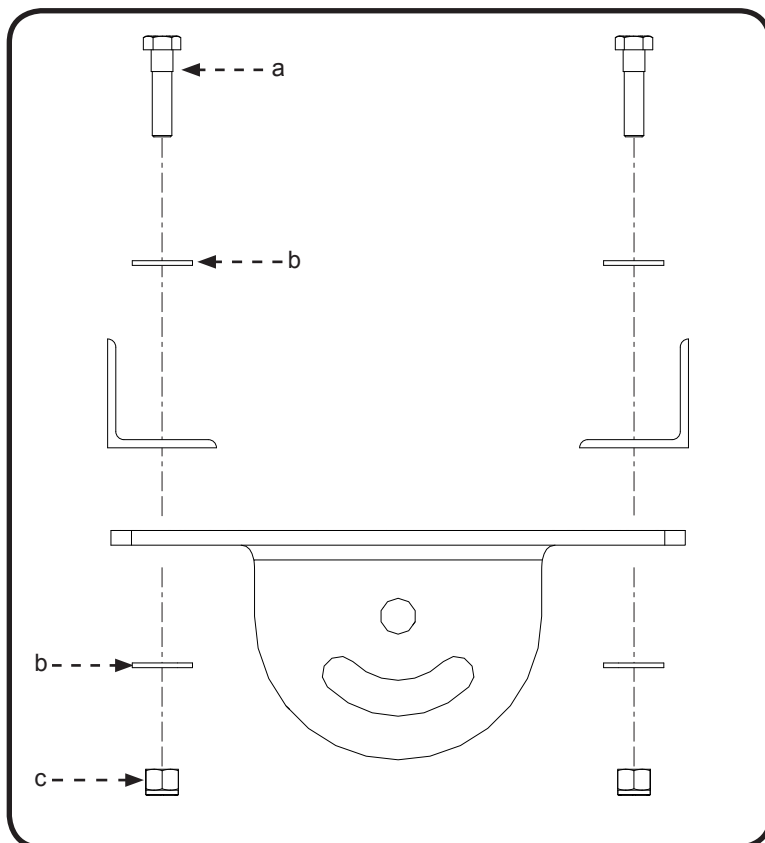
If the hardware is stainless steel (outdoor fans only), do not use power tools!



Note: Dashed lines represent angle irons.



Side View



14 Mounting Structure: Wood Frame

Wood framing channels are mainly used in residential homes. Consult a structural engineer to ensure you have selected the correct mounting method for your building structure.

⚠ WARNING: The fan can weigh up to 120 lbs (54.4 kg). The fan should not be installed unless the structure on which the fan is to be mounted is of sound construction, undamaged, and capable of supporting the loads of the fan and its method of attachment. A structural engineer should verify that the structure is adequate prior to fan installation. Verifying the stability of the mounting structure is the sole responsibility of the customer and/or end user, and Big Ass Fans hereby expressly disclaims any liability arising therefrom, or arising from the use of any materials or hardware other than those supplied by Big Ass Fans or otherwise specified in these installation instructions.

1. Identify mounting location

⚠ CAUTION: Do not install the fan from a single beam or a conduit box.

Locate the area on the beams from which the fan will hang. Big Ass Fans recommends mounting the fan so that the airfoils are at least 10 ft (3 m) from the floor. *The center-to-center distance between the two beams between which the fan will hang cannot be greater than 24 in (61 cm).*

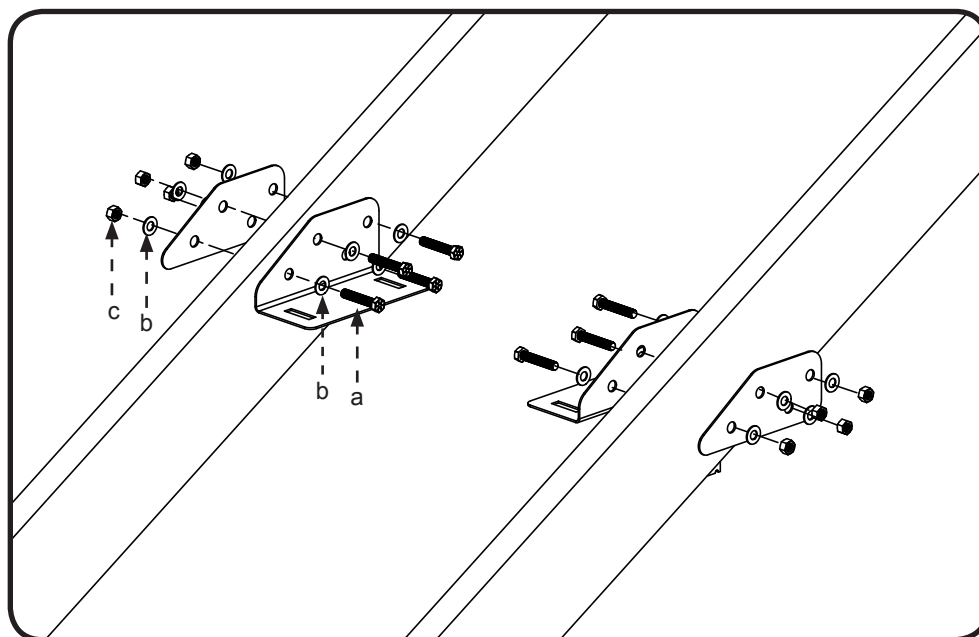
2a. Fasten brackets (to vaulted ceiling beams)

Fasten the brackets to the roof structure mounting points at each end using the Wood Frame Mounting Hardware as shown. The brackets should be pointing inward. Torque to **25 ft·lb (33.9 N·m)**.

Using a level and carpenter's square, ensure the mounting brackets are level and the opposing holes are concentric.

Wood Frame Mounting Hardware (BAF-Supplied):

- (8) 5/16"-18 x 2-1/2" Bolt
- (16) 5/16" Flat Washer
- (8) 5/16"-18 Nylock Nut



2b. Fasten brackets (to floor joists)

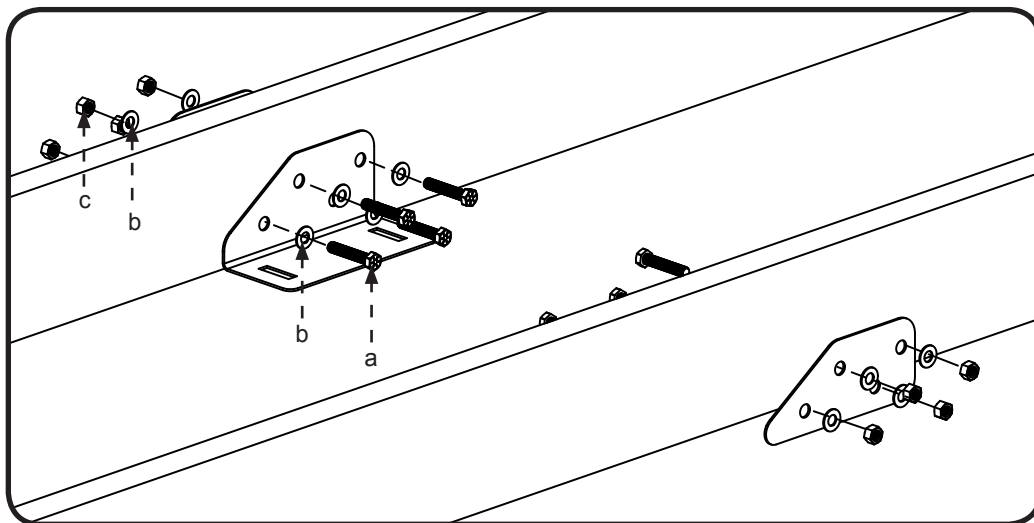
Note: This method should be used when the tops of the joists are inaccessible.

Fasten the brackets to the mounting points on the floor joists using the Wood Frame Mounting Hardware as shown. Torque to **25 ft·lb (33.9 N·m)**. The brackets should be facing inward and be mounted flush with the tops of the joists or in the centers of the joists. *Note: Ensure the brackets are positioned so the fan will not interfere if the ceiling section is replaced.*

Using a level and carpenter's square, ensure the mounting brackets are level and the opposing holes are concentric.

Wood Frame Mounting Hardware (BAF-Supplied):

- (8) 5/16"-18 x 2-1/2" Bolt
- (16) 5/16" Flat Washer
- (8) 5/16"-18 Nylock Nut



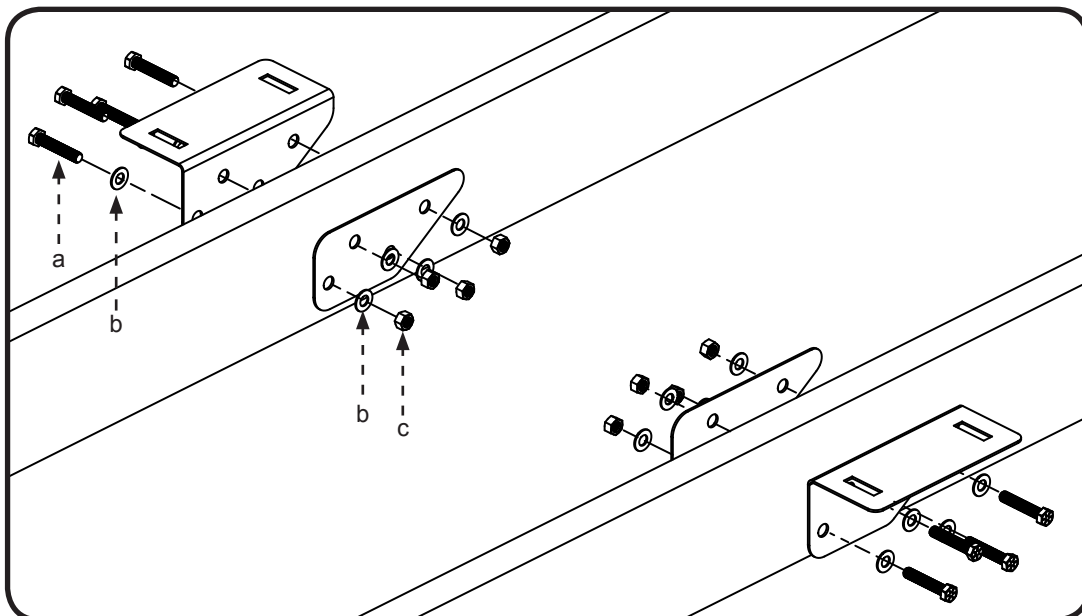
2c. Fasten brackets (to ceiling joists)

Fasten the brackets to the mounting points on the ceiling joists using the Wood Frame Mounting Hardware as shown. Torque to **25 ft·lb (33.9 N·m)**. The tops of the brackets should be facing outward and flush with the tops of the beams.

Using a level and carpenter's square, ensure the mounting brackets are level and the opposing holes are concentric.

Wood Frame Mounting Hardware (BAF-Supplied):

- (8) 5/16"-18 x 2-1/2" Bolt
- (16) 5/16" Flat Washer
- (8) 5/16"-18 Nylock Nut



3. Attach upper mount (to wood framing channels)

When cutting the wood framing channels, be sure the holes on each end will line up with the holes on the mounting brackets!

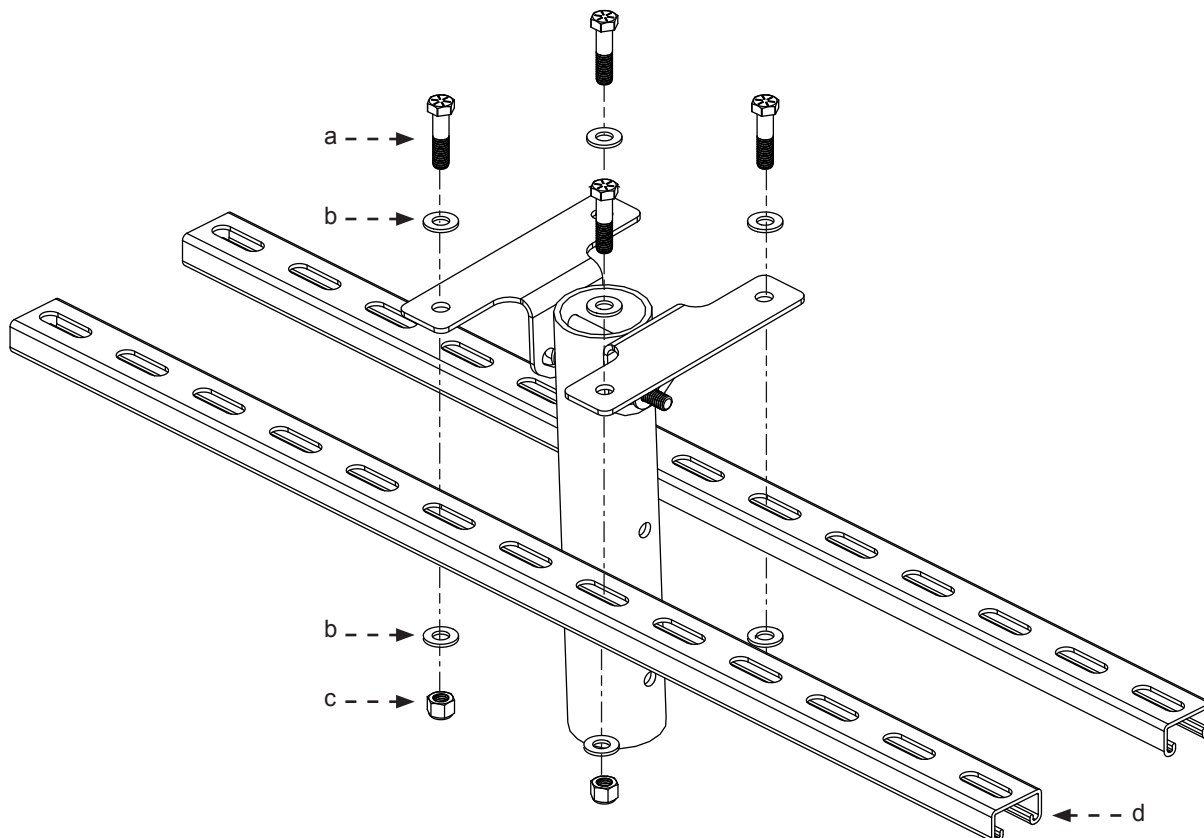
Loosely attach the extension tube to the upper mount to determine where on the channels the mount should be attached. Fasten the mount to the wood framing channels using the Mounting Hardware as shown. Tighten the Mounting Hardware to **25 ft·lb (33.9 N·m)** using a torque wrench with a 17 mm socket.

Measure the distance between the mounting brackets (bolt head to bolt head) so that the wood framing channels have enough clearance in between the brackets. Cut both wood framing channels to the measured length.

Mounting Hardware (BAF-Supplied):

- a. (4) M10 x 40 mm Hex Head Cap Screw
- b. (8) M10 Flat Washer
- c. (4) M10 Nylock Nut
- d. (2) Wood Framing Channel

If the hardware is stainless steel (outdoor fans only), do not use power tools!



4. Fasten wood framing channels (to brackets)

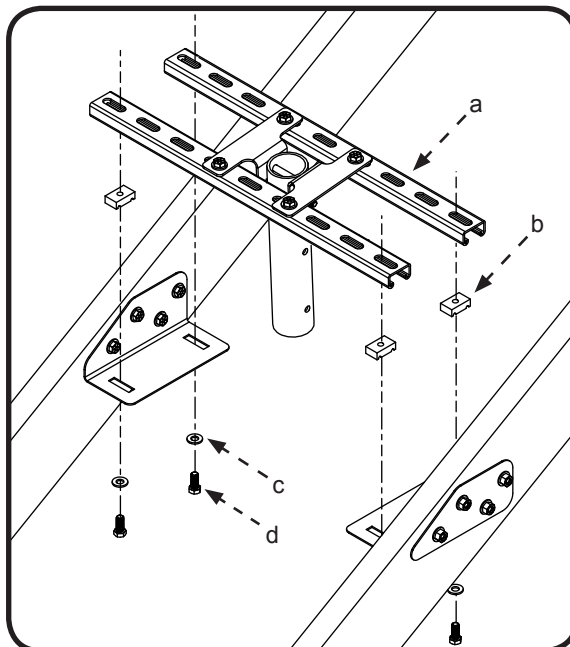
⚠ CAUTION: The center-to-center distance between the two beams or joists between which the fan will hang cannot be greater than 24" (61 cm).

Fasten the wood framing channels to the brackets using the Wood Frame Mounting Hardware as shown. Torque to **25 ft·lb (33.9 N·m)**. See the appropriate illustration for your specific mounting structure.

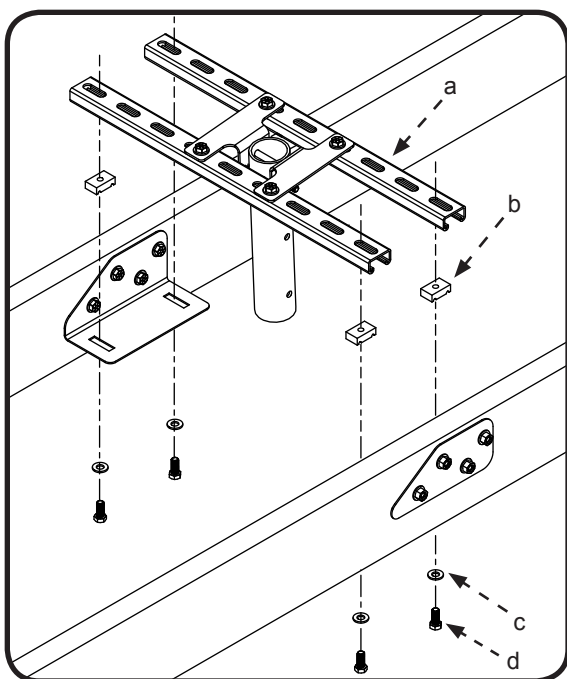
Wood Frame Mounting Hardware (BAF-Supplied):

- a. (2) Wood Framing Channel
- b. (4) 3/8"-16 Spring Nut
- c. (4) 3/8" Flat Washer
- d. (4) 3/8"-16 x 7/8" Bolt

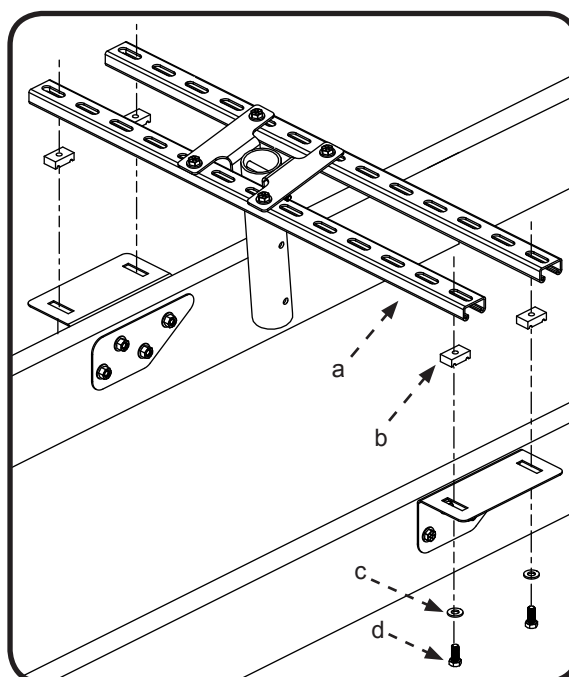
Vaulted Ceiling Beams



Floor Joists



Ceiling Joists



*Mount the brackets either flush with the tops of the beams or toward the middles of the beams as shown above.

L-brackets are used to mount the fan to a solid beam. Consult a structural engineer to ensure you have selected the correct mounting method for your building structure.

⚠ WARNING: The fan can weigh up to 120 lbs (54.4 kg). The fan should not be installed unless the structure on which the fan is to be mounted is of sound construction, undamaged, and capable of supporting the loads of the fan and its method of attachment. A structural engineer should verify that the structure is adequate prior to fan installation. Verifying the stability of the mounting structure is the sole responsibility of the customer and/or end user, and Big Ass Fans hereby expressly disclaims any liability arising therefrom, or arising from the use of any materials or hardware other than those supplied by Big Ass Fans or otherwise specified in these installation instructions.

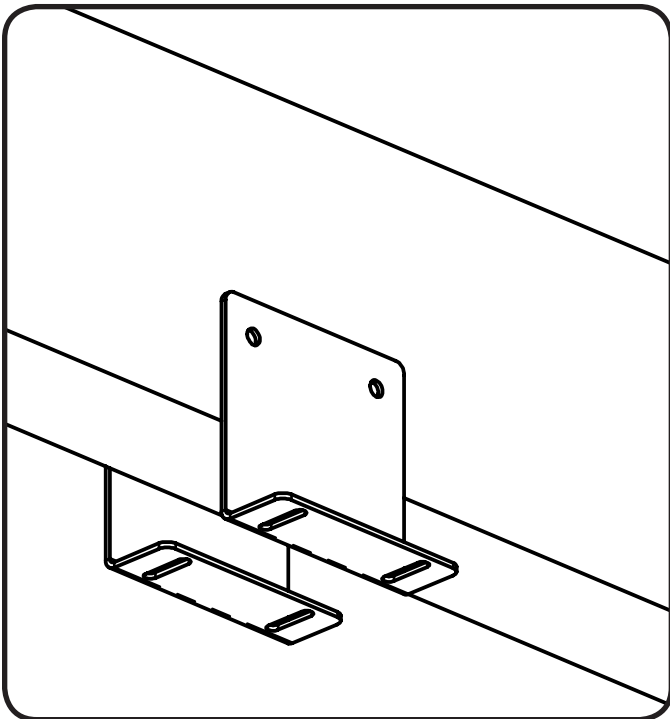
1. Pre-drill suitable mounting beam

Drill two $\varnothing 1/2"$ (13 mm) holes in the mounting beam exactly $5-1/2"$ (14 cm) apart. Consult a structural engineer to determine the exact location of the mounting holes. *Note: The holes should be drilled so that at least $1"$ (2.5 cm) of clearance will be available between the lower face of the mounting beam and the top of the upper mount to allow space when tightening the mounting bolts.*

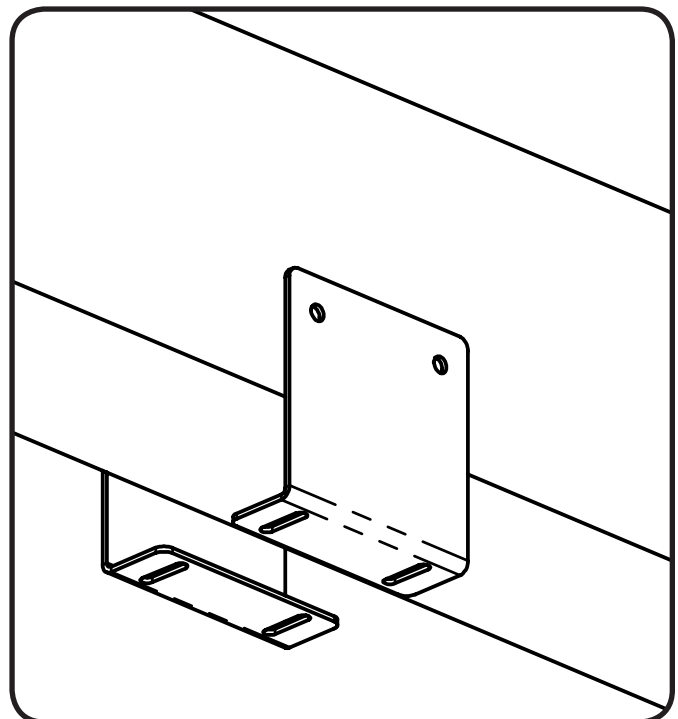
2. Determine bracket orientation

Big Ass Fans recommends orienting the L-brackets as shown below depending on the thickness of the mounting structure. The thickness of the structure cannot exceed $9-1/2"$ (24 cm).

3-3/4" to 6-3/4" (95 mm to 171 mm) thickness



6-3/4" to 9-1/2" (171 mm to 241 mm) thickness

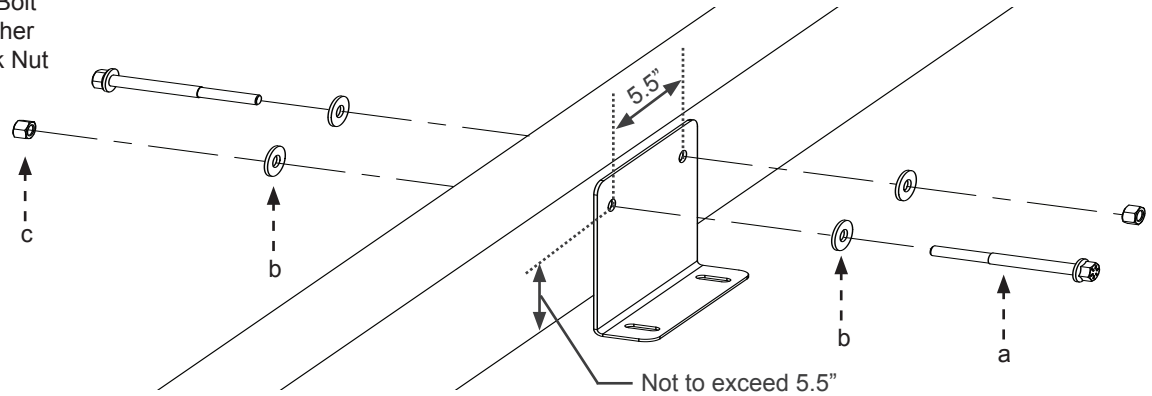


3a. Attach L-brackets (to mounting structure)

Fasten the L-brackets to the mounting structure using the customer-supplied 1/2-13 or M12 L-Bracket Hardware as shown below. *Note: L-bracket orientation may differ from the illustration.*

L-Bracket Hardware (Customer-Supplied):

- (2) 1/2-13 or M12 GR 8 Bolt
- (4) 1/2" or M12 Flat Washer
- (2) 1/2-13 or M12 Nylock Nut

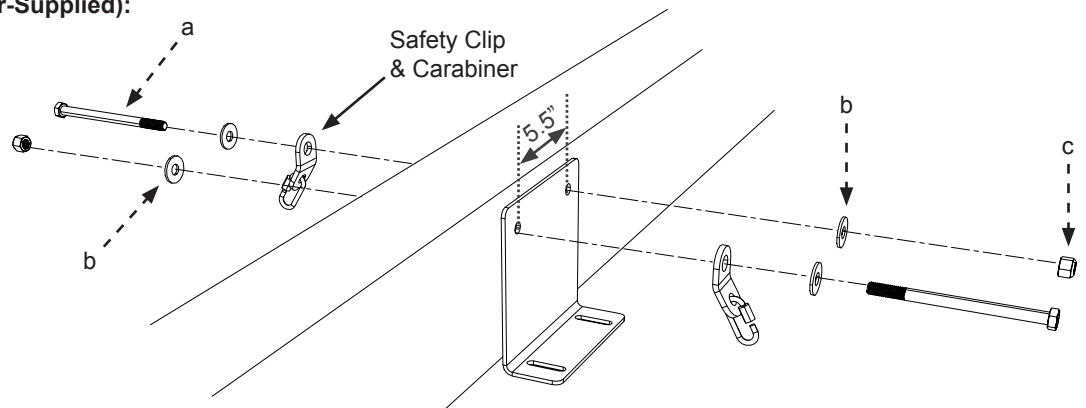


3b. Attach L-brackets (to mounting structure with safety clips)

Fasten the L-brackets to the mounting structure using the customer-supplied 1/2-13 or M12 L-Bracket Hardware and the BAF-supplied safety clips as shown below. *Note: Safety clips are used only if the top of the mounting structure is inaccessible due to a ceiling. A ceiling is not shown in the illustration below. L-bracket orientation may differ from the illustration.*

L-Bracket Hardware (Customer-Supplied):

- (2) 1/2-13 or M12 GR 8 Bolt
- (4) 1/2" or M12 Flat Washer
- (2) 1/2-13 or M12 Nylock Nut



4. Attach upper mount (to L-brackets)

Secure the upper mount to the L-brackets using the Mounting Hardware as shown. **If the top of the beam is inaccessible, safety clips must be used (step 3b).** Tighten the Mounting Hardware to **25 ft·lb (33.9 N·m)** using a torque wrench with a 17 mm socket.

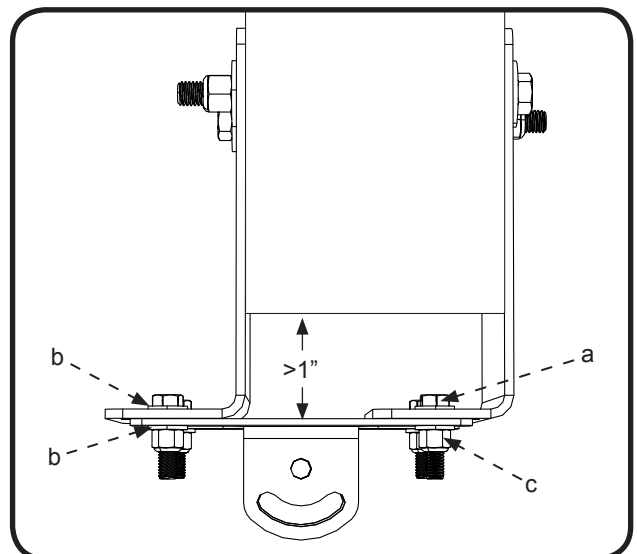
Note: L-bracket orientation may differ from the illustration.

Proceed to "Hanging the Fan" on the following page.

If the hardware is stainless steel (outdoor fans only), do not use power tools!

Mounting Hardware (BAF-Supplied):

- (4) M10 x 40 mm Hex Head Cap Screw
- (8) M10 Flat Washer
- (4) M10 Nylock Nut



1. Attach extension tube (to upper mount)

Pull the safety cable that is attached to the extension tube through the upper mount, and then fasten the extension tube to the upper mount (already attached to the mounting structure) using the Extension Tube Hardware as shown. *Note: If the extension tube is already attached, simply secure the bolts.*

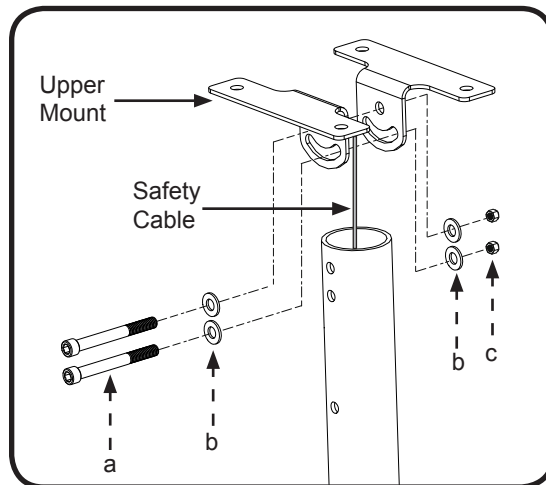
Before tightening the hardware, allow the extension tube to hang freely and balance itself.

Tighten the hardware to **10 ft·lb (13.6 N·m)** using an 8 mm Allen wrench and a torque wrench with a 17 mm socket.

If the hardware is stainless steel (outdoor fans only), do not use power tools!

Extension Tube Hardware (BAF-Supplied):

- a. (2) M10 x 90 mm Socket Head Cap Screw
- b. (4) M10 Flat Washer
- c. (2) M10 Nylock Nut

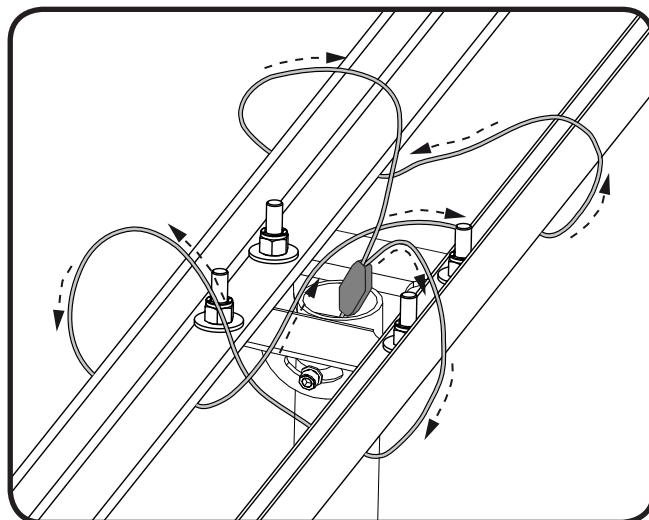


2a. Secure safety cable (to angle irons)

⚠ WARNING: The safety cable is a crucial part of the fan and must be installed correctly. If you have any questions, call Customer Service.

Secure the safety cable to the mounting structure by wrapping it around the structure and securing the loose end with the Gripple® as shown. The cable must be drawn tightly around the structure, leaving as little slack as possible with the Gripple tucked inside the extension tube.

Note: Exact mounting installation may differ from the illustration.



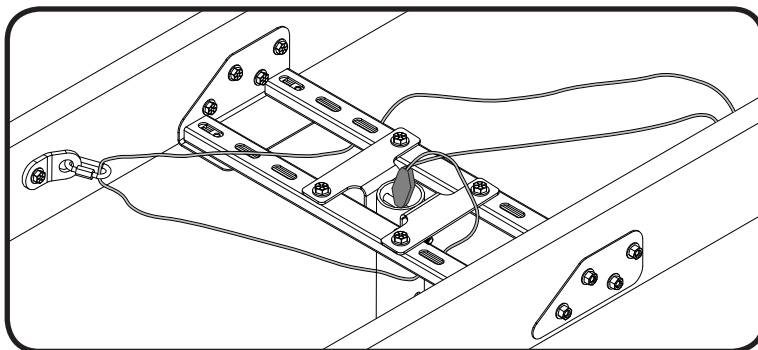
2b. Secure safety cable (to wood frame)

⚠ WARNING: The safety cable is a crucial part of the fan and must be installed correctly. If you have any questions, call Customer Service.

Attach the safety clips to the mounting structure as shown. Route the safety cable through the (2) carabiners on the safety clips, leaving as little slack as possible. Secure the loose end with the Gripple as shown. *Note: Exact installation may differ depending on the mounting method. The Safety Cable Hardware listed below is included with the Wood Frame Mounting Hardware.*

Safety Cable Hardware (BAF-Supplied):

- a. (2) 5/16"-18 x 2-1/2" Bolt
- b. (4) 5/16" Flat Washer
- c. (2) 5/16"-18 Nylock Nut

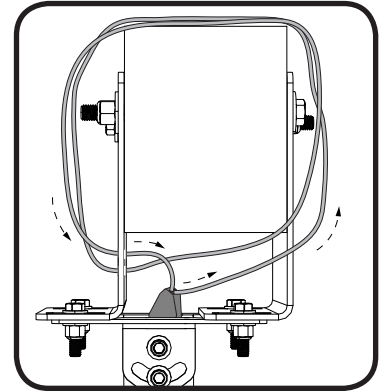


2c. Secure safety cable (to solid beam)

⚠ WARNING: The safety cable is a crucial part of the fan and must be installed correctly. If you have any questions, call Customer Service.

Secure the safety cable to the mounting structure by wrapping it around the structure and securing the loose end with the Gripple® as shown. The cable must be drawn tightly around the structure, leaving as little slack as possible with the Gripple tucked inside the extension tube.

Note: Exact installation may differ from the illustration.



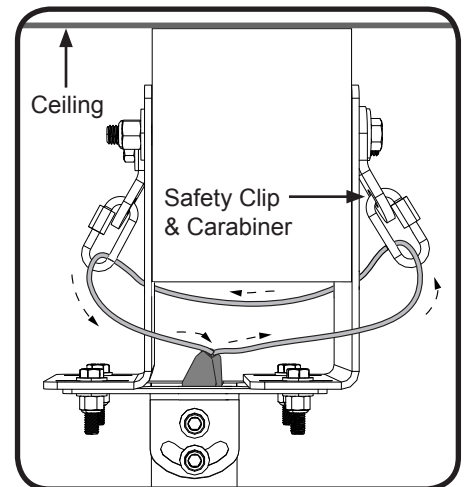
2d. Secure safety cable (to solid beam with safety clips)

⚠ WARNING: The safety cable is a crucial part of the fan and must be installed correctly. If you have any questions, call Customer Service.

Safety clips are used only when the top of the mounting structure is inaccessible due to a ceiling.

Route the safety cable through the (2) carabiners on the safety clips, leaving as little slack as possible. Secure the loose end with the Gripple as shown.

Note: Exact installation may differ from the illustration.



3. Attach main fan unit (to extension tube)

Before attaching the main fan unit to the extension tube, route the power cable from motor through the extension tube and upper mount.

- ⚠ CAUTION:** The main fan unit is heavy. Use caution when raising it.
- ⚠ CAUTION:** Do not discard the main fan unit packaging and foam. It should be used if the fan is ever moved or relocated.

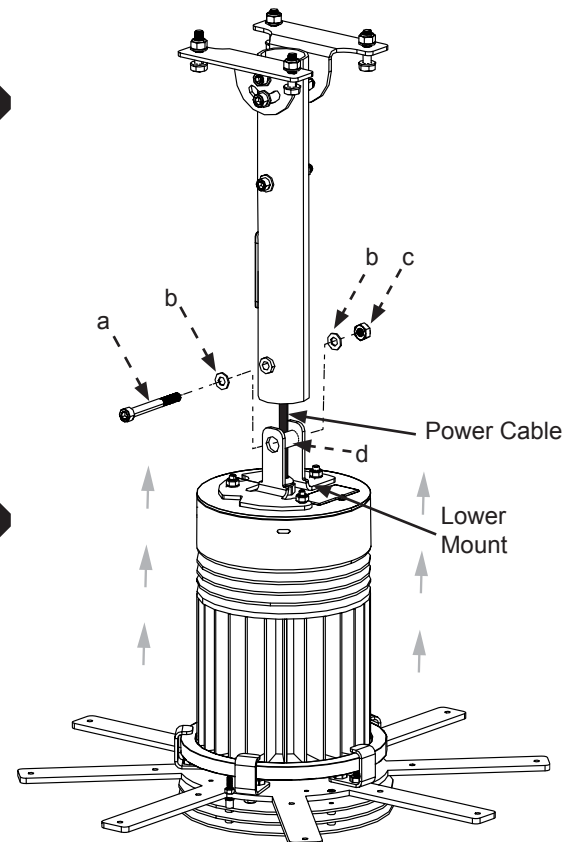
Raise the main fan unit directly from its packaging to the extension tube. Attach the lower mount to the extension tube using the Main Fan Unit Hardware as shown.

Tighten the hardware to **10 ft·lb (13.6 N·m)** using an 8 mm Allen wrench and a torque wrench with a 17 mm socket.

If the hardware is stainless steel (outdoor fans only), do not use power tools!

Main Fan Unit Hardware (BAF-Supplied):

- a. (1) M10 x 90 mm Socket Head Cap Screw
- b. (2) M10 Flat Washer
- c. (1) M10 Nylock Nut
- d. (1) 3/8" x 3/4" OD x 1/2" Spacer



Installing Guy Wires

Guy wires may not be included in your fan order. They are intended to restrain the fan's lateral movement and are only included in fan orders that have extension tubes 4 ft (1.2 m) or longer. Depending on the operational environment (wind, mounting structure, etc.), guy wires may be needed regardless of extension tube length. If, during operation, any lateral movement (wobbling) occurs, a guy wire kit should be purchased from Customer Service.

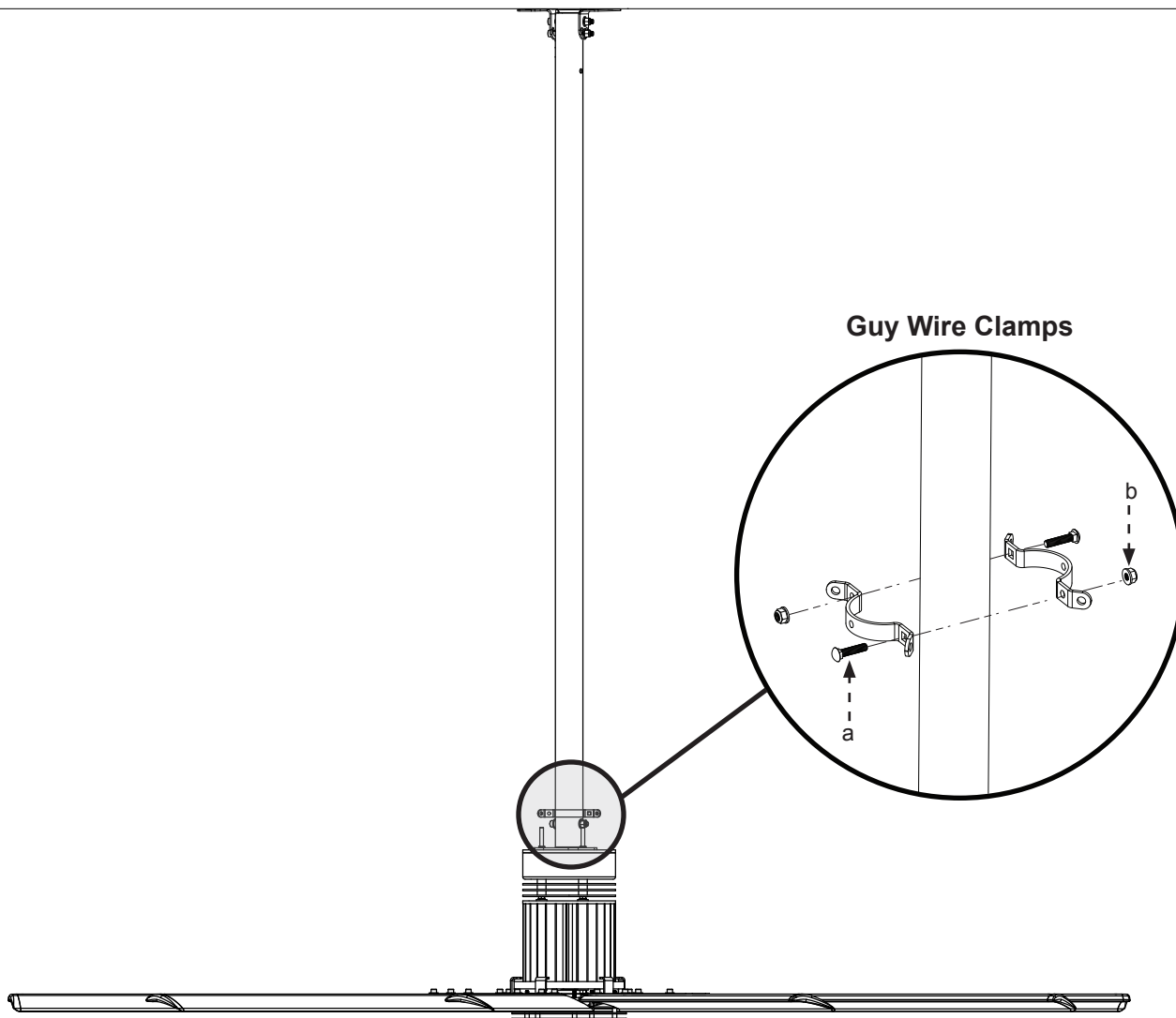
⚠ WARNING: Disconnect power to the fan before installing the guy wires.

1. Attach guy wire clamps

Position the guy wire clamps on the extension tube as close to the motor as possible. Refer to the diagram below. Secure the clamps to the extension tube using the Guy Wire Hardware.

Guy Wire Hardware (BAF-Supplied):

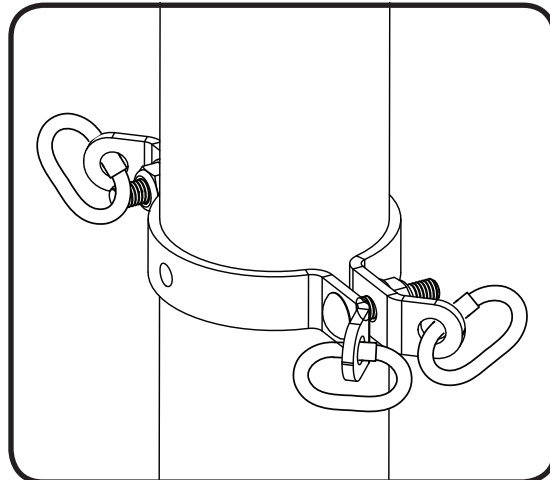
- a. (2) 1/4-20 x 1" Carriage Bolt
- b. (2) 1/4-20 Nylock Flange Nut



2. Attach locking carabiners to guy wire clamps

Secure the four (4) locking carabiners to the guy wire clamps as shown.

Securely tighten the carabiners.



3a. Attach beam clamp (bar joist mounting)

The guy wire should be at a 45° angle from the extension tube (see the illustrations on the following page). Attach the beam clamp to the mounting structure accordingly.

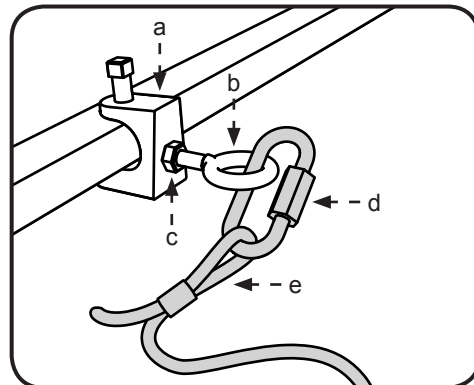
For best results, the guy wires should be installed at 45° in the X-Y, Y-Z, and X-Z planes as shown on the following page. If the angle deviates by more than 15°, contact Customer Service for assistance.

Fasten the small eyebolt and nut onto the beam clamp (the nut will be on the outside of the beam clamp).

Loop the crimped end of the guy wire into the locking carabiner and secure to the eyebolt as shown. Securely tighten the carabiner.

Guy Wire Hardware (BAF-Supplied):

- a. 1/4" Beam Clamp
- b. 1/4-20 x 1" Eyebolt
- c. 1/4-20 Hex Nut
- d. Locking Carabiner
- e. Guy Wire



3b. Attach eyebolt (wood frame mounting)

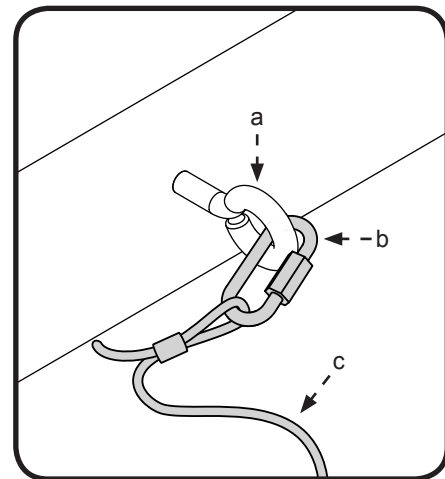
The guy wire should be at approximately a 45° angle from the extension tube (see the illustrations on the following page). Attach the eyebolt to the wood frame accordingly.

For best results, the guy wires should be installed at 45° in the X-Y, Y-Z, and X-Z planes as shown on the following page. If the angle deviates by more than 15°, contact Customer Service for assistance.

Loop the crimped end of the guy wire into the locking carabiner and secure to the eyebolt as shown. Securely tighten the carabiner.

Guy Wire Hardware (BAF-Supplied):

- a. 1/4-20 x 1" Eyebolt
- b. Locking Carabiner
- c. Guy Wire

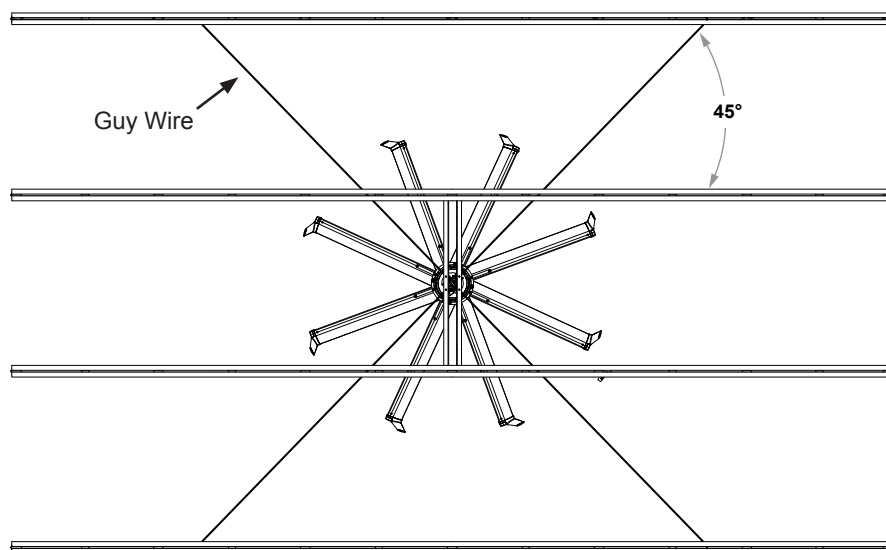
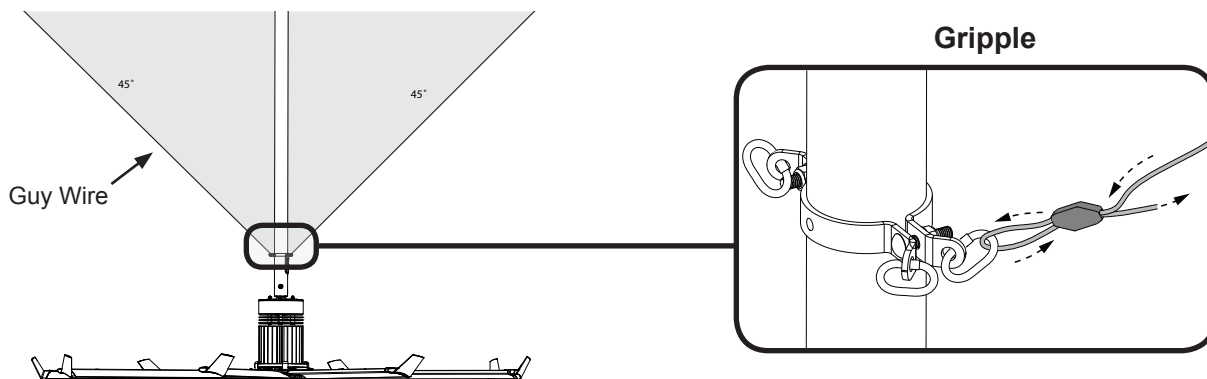


4. Route guy wire through Gripple®

Route the guy wire through the Gripple and the carabiner on the guy wire clamp, and then back through the Gripple as shown below. **Do not tighten the Gripple until the remaining guy wires have been installed.**

Note: To back the guy wire out of the Gripple, the small tool included with the Gripple set or a 0.050" Allen wrench into the small hole on the Gripple.

Note: Angle irons mounted to bar joists are shown in the illustration below. Your mounting structure may differ.



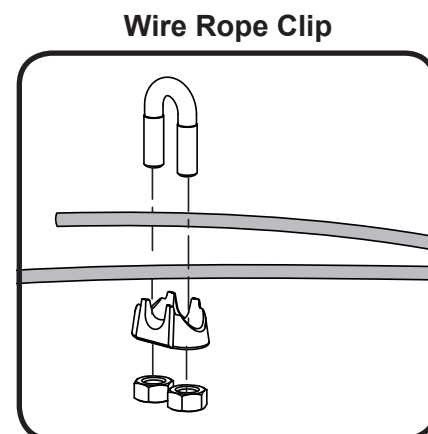
5. Install three remaining guy wires

⚠ CAUTION: Over-tightening the guy wires could throw the fan off balance.

Repeat steps 3–4 to install the three remaining guy wires.

Evenly cinch all four guy wires into place using the Gripples. The guy wires should be taut, evenly spaced around the fan, and away from the path of the airfoils. Maintain a distance of 6"–8" between the Gripple and the carabiner.

Once all of the guy wires are taut, secure their loose ends with the wire rope clips and torque to **4.5 ft·lb (6.1 N·m)**. *Ensure all electrical cords/cables are unobstructed by the guy wire system.*



Installing Airfoils

Big Ass Fans recommends completing electrical installation (p. 27) before installing the airfoils.

⚠ WARNING: Disconnect power to the fan before installing the airfoils.

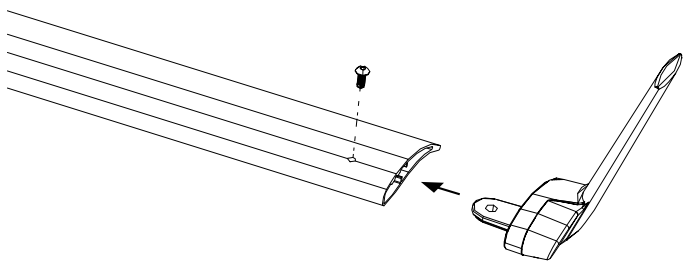
1. Attach winglets or airfoil tips (to airfoils)

Note: Winglets are standard on Isis® fans; however, airfoil tips are available as an option.

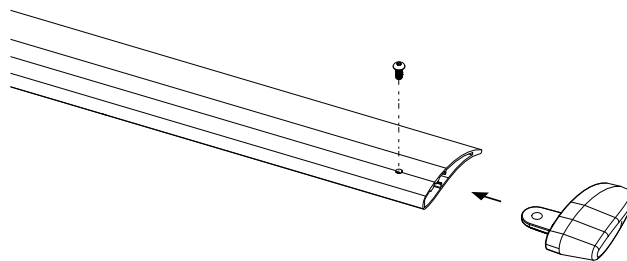
Attach the winglets or airfoil tips to the airfoils using the Winglet Hardware as shown. Securely tighten the screws using a 3 mm Allen wrench. Attach winglets or airfoil tips to all eight (8) airfoils before attaching the airfoils to the fan.

Winglet Hardware (BAF-Supplied):

(8) M5 x 12 mm Button Head Screw



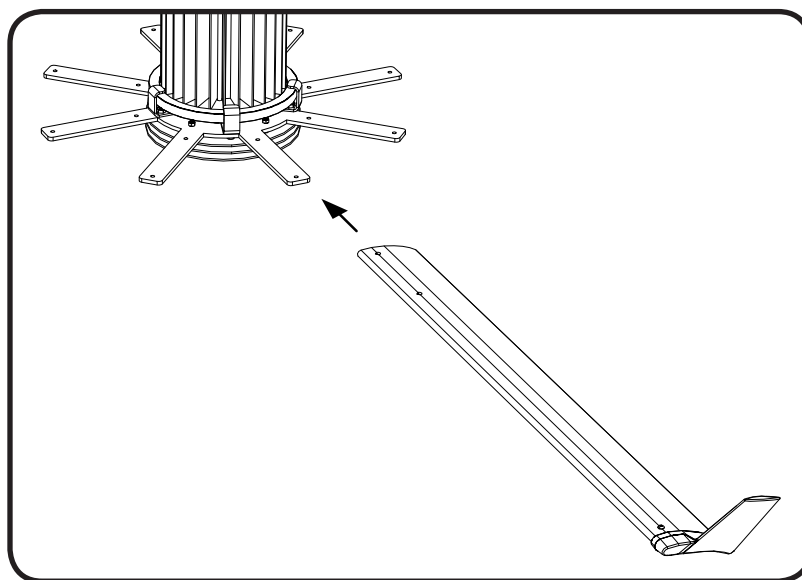
Winglet (standard)



Airfoil Tip (optional)

2. Position airfoils

Slide the airfoils onto the tabs as shown.



3. Attach airfoils (to main fan unit)

After the fan is completely assembled and securely hanging from the mounting structure, peel off the protective plastic from the bottom of the hub.

⚠ WARNING: Disconnect power to fan before installing airfoils.

Attach the eight (8) airfoil retainers using the Airfoil Hardware. Moving clockwise around the fan hub, position the airfoil retainers as shown. Hole A of the retainer should be positioned over top of Hole B. **Do not tighten bolts until all airfoil retainers have been attached!**

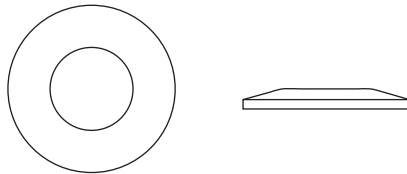
Tighten the bolts along the outside perimeter to **29 ft·lb (39.3 N·m)** using a torque wrench with a 6 mm Allen head socket. After the outer perimeter bolts are torqued, tighten the bolts along the inner perimeter to **29 ft·lb (39.3 N·m)**.

Airfoil Hardware (BAF-Supplied):

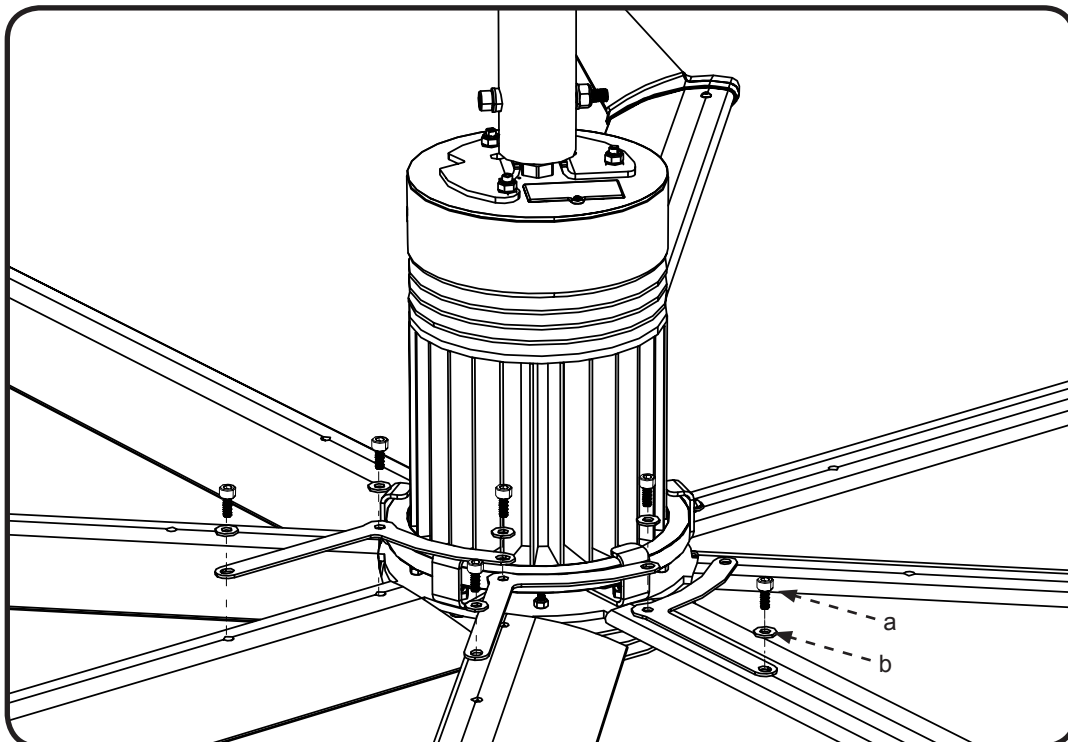
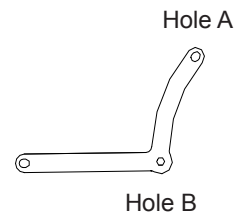
- a. (16) M8 x 18 mm Socket Head Cap Screw
- b. (16) 8 mm Belleville Washer

If the hardware is stainless steel (outdoor fans only), do not use power tools!

Belleville Washer



Airfoil Retainer



Electrical Installation



WARNING: To reduce the risk of electric shock, wiring should be performed by a qualified electrician! Incorrect assembly can cause electric shock or damage the motor and the controller! Hazard of electrical shock!

WARNING: The installation of a Big Ass Fan must be in accordance with the requirements specified in this installation manual and with any additional requirements set forth by the National Electric Code (NEC), ANSI/NFPA 70-2011, and all local codes. Code compliance is ultimately YOUR responsibility! Failure to comply with these codes could result in personal injury or property damage.

- ⚠ **CAUTION:** The Big Ass Fans product warranty will not cover damage or failure caused by improper installation.
- ⚠ **WARNING:** Exercise caution and common sense when powering the fan. Do not connect the fan to a damaged or hazardous power source. Do not attempt to resolve electrical malfunctions or failures on your own. Contact Big Ass Fans if you have any questions regarding the electrical installation of this fan.
- ⚠ **CAUTION:** The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.
- ⚠ **CAUTION:** Do NOT install the fan where it may come into direct contact with water unless the fan is labeled, "Suitable for use in wet locations."

Power requirements

Isis® is shipped with either a 110–125 VAC motor or a 200–240 VAC motor. The fan's voltage is marked on the fan packaging and on the label on top of the main fan unit. **The voltage cannot be changed during installation.** Ensure your fan is the correct voltage prior to beginning installation.

110–125 VAC Isis

Fan diameter	Input power	Minimum required supply circuit size	Full load amps
8 ft (2.44 m)	110–125 VAC, 60 Hz	10 A	3.9
10 ft (3.04 m)	110–125 VAC, 60 Hz	10 A	3.9
12 ft (3.70 m)	110–125 VAC, 60 Hz	10 A	3.9

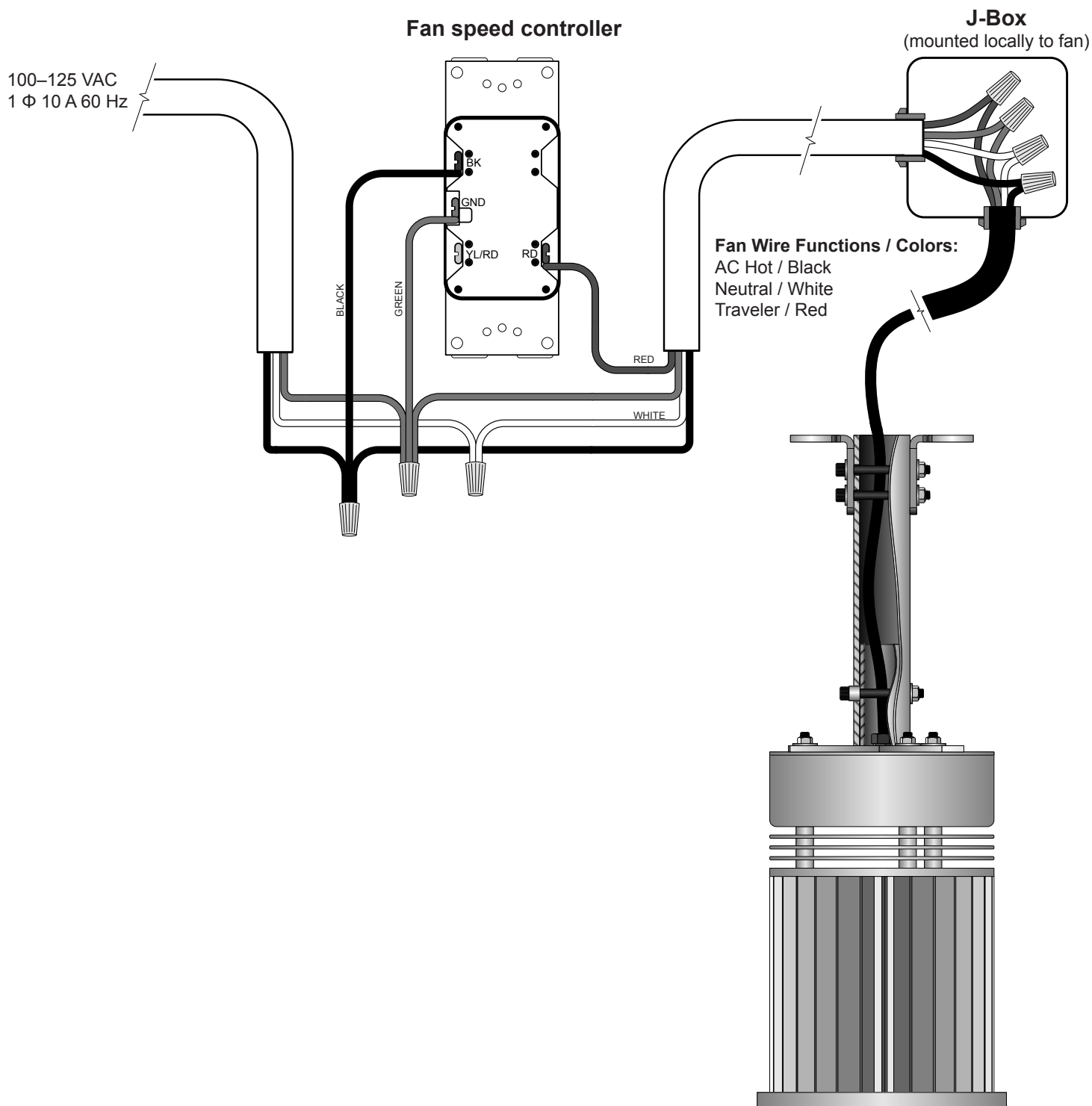
200–240 VAC Isis

Fan diameter	Input power	Minimum required supply circuit size	Full load amps
8 ft (2.44 m)	200–240 VAC, 50–60 Hz	10 A	2.4
10 ft (3.04 m)	200–240 VAC, 50–60 Hz	10 A	2.4
12 ft (3.70 m)	200–240 VAC, 50–60 Hz	10 A	2.4

Wiring: single fan application (120 V Isis®)

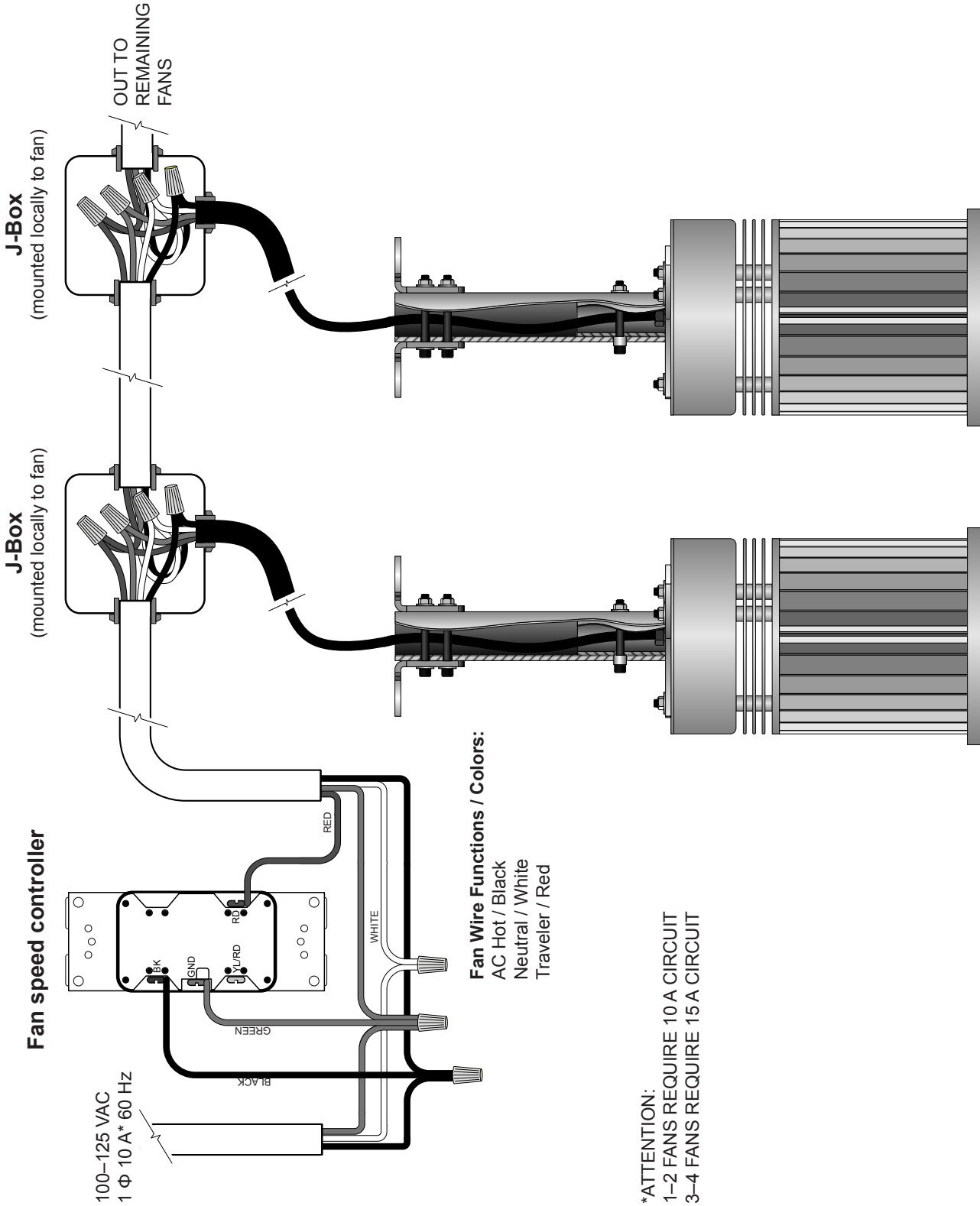
⚠ CAUTION: The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.

If installing the fan using a typical lighting circuit in which the critical red conductor or “traveler” is absent, an optional Limited Access Controller can be installed, allowing the utilization of a typical residential lighting system. See “Limited Access Application” on page 35.



Wiring: multi-fan application (120 V Isis®)

⚠ CAUTION: The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.



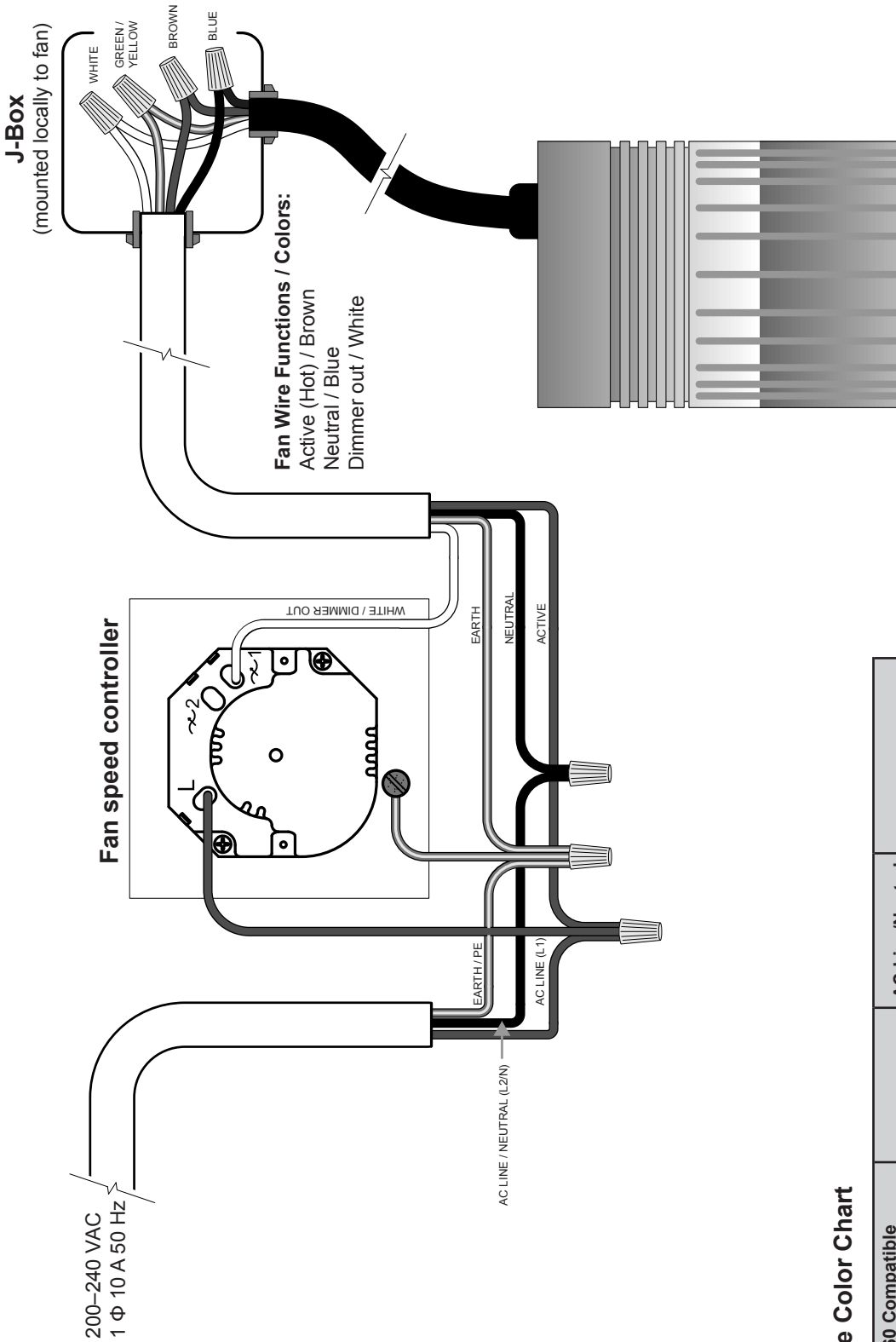
Up to four (4) fans can be controlled from a single controller. Multiple sets of wires are paralleled downstream from the fan controller. All fans will start or stop simultaneously and operate at the same speed.

This multi-fan application can also be used with a 3-way control configuration as explained on page 37.

Wiring the fan (240 V, 50 Hz Isis®)

Before wiring the controller, temporarily attach the mounting plate to the wall box and pull the wires through the center.

CAUTION: The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.



Wire Color Chart

50/60 Compatible Power Supply Wire Color	AC Line (L1)	AC Line/Neutral (L2/N)	Earth/PE
North America 100-120V System	Black	White	Green or Bare Copper
North America 208-240V System	Black, Red, or Blue	Red, Blue, or Black	Green or Bare Copper
European Union, United Kingdom 220-240V System	Brown, Black, or Grey	Blue	Green with Yellow Tracer
Australia* 240V System	Brown or Red	Black or Light Blue	Green with Yellow Tracer

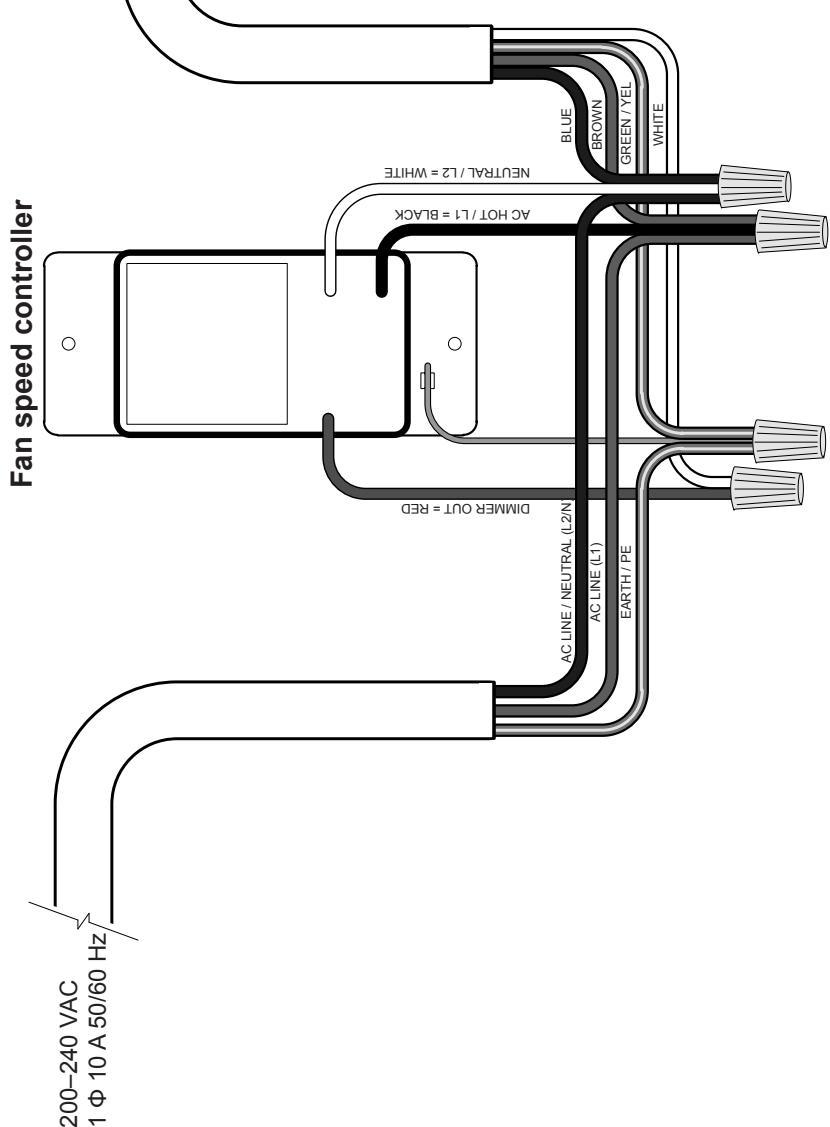
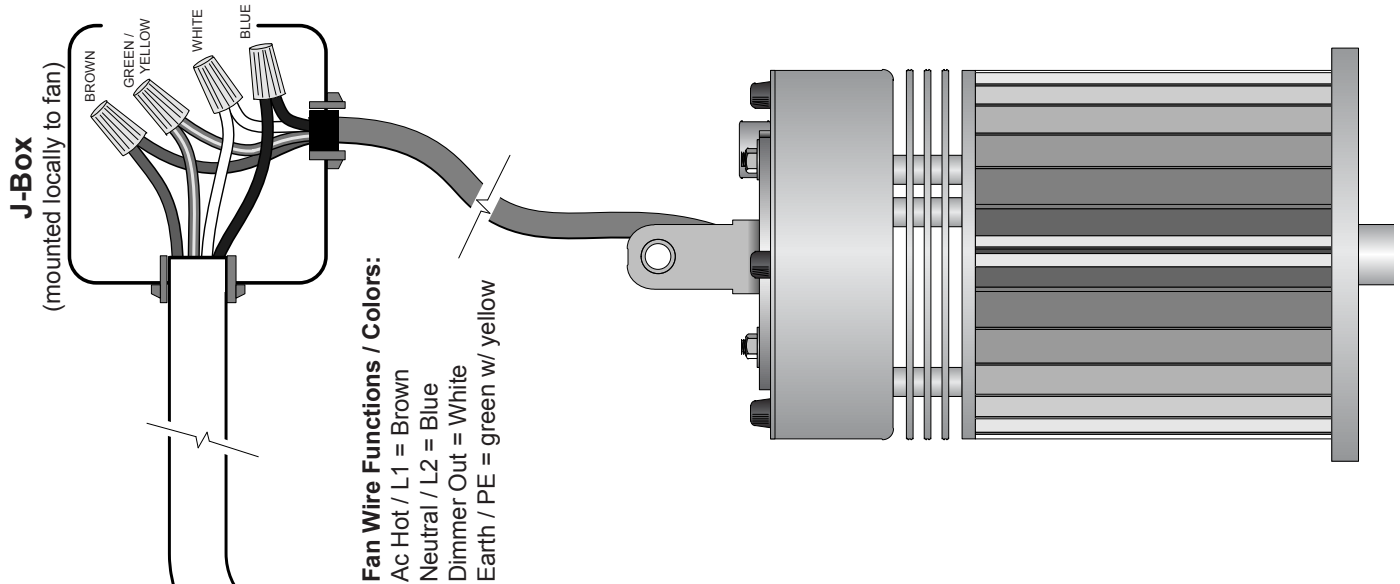
Fan Status LED Definitions

LED Off	"OK"
One 1-Sec. Flash / 5-Sec. Off.	Buss Under/Over voltage
Two 1-Sec. Flashes / 5-Sec. Off.	Motor Over-current
Three 1-Sec. Flashes / 5-Sec. Off.	Communication/Motor Stall
Four 1-Sec. Flashes / 5-Sec. Off.	Motor Over-temperature
Five 1-Sec. Flashes / 5-Sec. Off.	Drive Over-temperature

* Note: If installing the fan in Australia, a licensed electrician must perform the electrical installation.

Wiring the fan (240 V, 50/60 Hz Isis®)

⚠ CAUTION: The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.



Wire Color Chart

50/60 Compatible Power Supply Wire Color	AC Line (L1)	AC Line/Neutral (L2/N)	Earth/PE
North America 100-120V System	Black	White	Green or Bare Copper
North America 208-240V System	Black, Red, or Blue	Red, Blue, or Black	Green or Bare Copper
European Union (EU), United Kingdom 220-240V System	Brown, Black, or Grey	Blue	Green with Yellow Tracer
Australia* 240V System	Brown or Red	Black or Light Blue	Green with Yellow Tracer

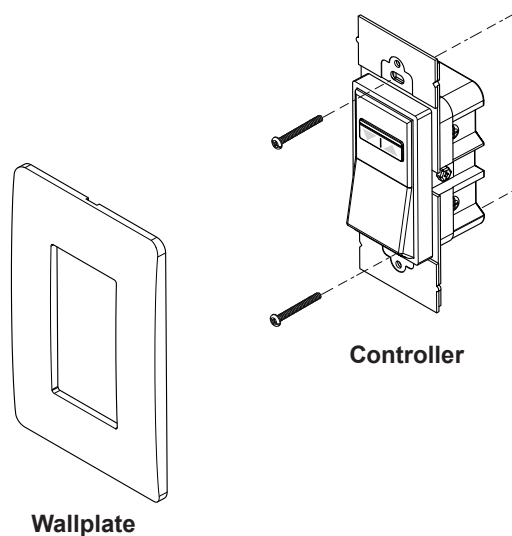
* Note: If installing the fan in Australia, a licensed electrician must perform the electrical installation.

Mounting the wall controller (120 V Isis®)

⚠ WARNING: To reduce the risk of electric shock, wiring should be performed by a qualified electrician! Incorrect assembly can cause electric shock or damage the motor and the controller! Hazard of electrical shock!

Mount the fan controller so that the fan it controls is visible from the controller location. Install the controller on a flat surface that is readily accessible, free from vibration, and where there is adequate distance from foreign objects or moving equipment.

After wiring the controller, mount the controller with two (2) screws. Make sure the controller is oriented as shown below. *Do not overtighten the screws.* Snap the wallplate to the controller.



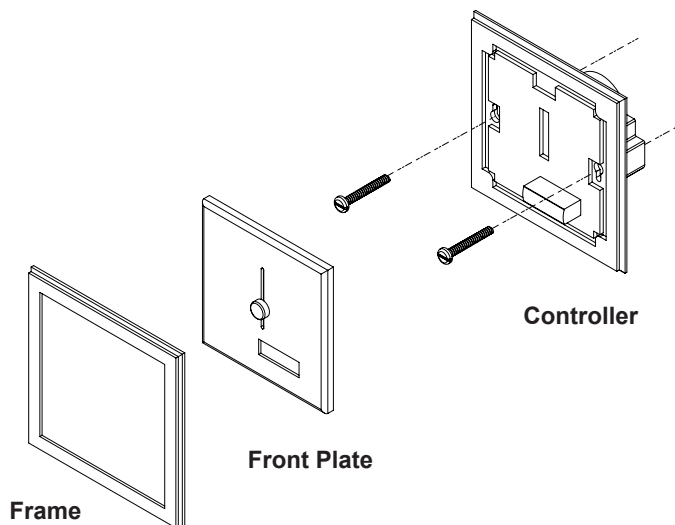
Mounting the wall controller (240 V, 50 Hz Isis®)

⚠ WARNING: Disconnect power to the wall box before wiring the fan controller.

Select a mounting location from which the fan is visible. Install the controller on a flat surface that is readily accessible, free from vibration, and where there is adequate distance from foreign objects or moving equipment. After wiring the controller, insert and tighten two (2) screws. DO NOT overtighten.

Before attaching the front plate, to ensure proper alignment, move the slider on the controller to the lowest position. On the front plate, move the slider knob to the lowest position. Snap the front plate to the controller.

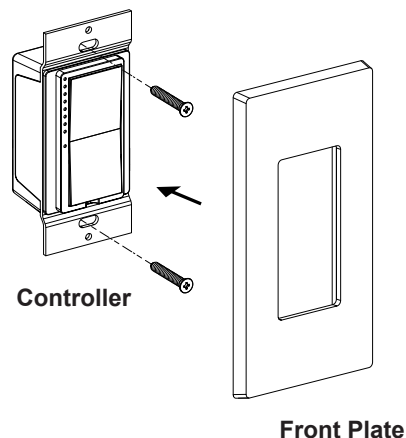
Line up the alignment pins on the frame with the alignment holes in the front plate. Press the frame into place.



Mounting the wall controller (240 V, 50/60 Hz Isis®)

⚠ WARNING: Disconnect power to the junction box before wiring the fan controller.

Select a mounting location from which the fan is visible. Install the controller on a flat surface that is readily accessible, free from vibration, and where there is adequate distance from foreign objects or moving equipment. After wiring the controller, insert and tighten two (2) screws. DO NOT overtighten.

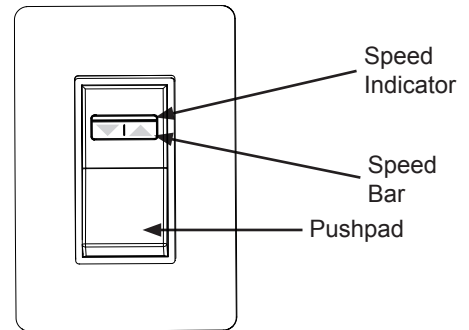


120 V Isis®

To start the fan, press the pushpad on the controller. The fan may take up to 30 seconds to start rotating. To turn the fan on full speed, press and hold the pushpad.

To stop the fan, press the pushpad or press and hold the left side of the fan speed bar. *Note: When power is turned off, the light at the bottom of the controller remains lit.*

Use the fan speed bar to control the speed of the fan. **To increase fan speed,** press the right side of the fan speed bar. **To decrease fan speed,** press the left side of the fan speed bar.



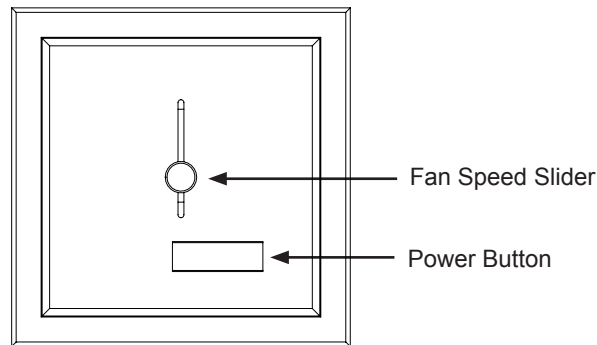
Wall Controller with Wallplate

240 V, 50 Hz Isis®

To start the fan, press the button on the controller. When the power is turned on, the status light will illuminate.

To stop the fan, press the button on the controller. When power is turned off, the status light is not illuminated.

Use the fan speed slider to control the speed of the fan. **To increase fan speed,** slide the knob upward. **To decrease fan speed,** slide the knob downward.

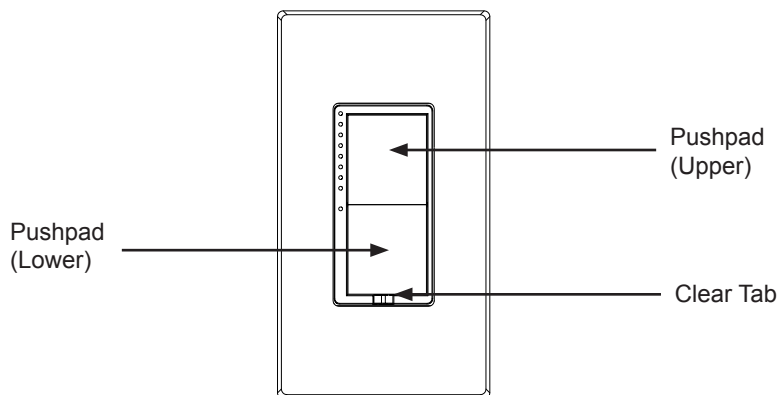


Fan Controller with Front Plate and Frame

240 V, 50/60 Hz Isis®

To start the fan, tap the upper portion of the pushpad once. The fan may take up to 30 seconds to begin rotating. **To stop the fan,** tap the lower portion of the pushpad once. To disable the fan, pull out the clear tab at the bottom of the controller.

To increase fan speed, press and hold the upper portion of the pushpad. **To decrease fan speed,** press and hold the lower portion of the pushpad.



Fan Controller

Moving at a low speed means less energy used for operation, translating into more energy savings year-round. Follow the procedures below to ensure the most efficient operation of your Big Ass Fan.

To ensure proper fan rotation:

1. Turn on the fan.
2. Verify that the fan is rotating in the counterclockwise direction (when viewed from below).
3. If the fan is not rotating counterclockwise, reverse the fan direction.

Heating season

Isis® fans return heat from the ceiling to floor level more efficiently than smaller ceiling fans. For maximum energy savings, the fan should be operated continuously during the heating season and should not be operated in reverse (clockwise). Big Ass Fans are designed to operate efficiently at very low speeds, so turning the fan very slowly in the forward direction (counterclockwise) will provide enough air movement to circulate the hot air at the ceiling down to the floor without causing a draft.

Stand directly below the tips of the airfoils with hand outstretched. If you feel a draft, slightly decrease the fan speed (0.5). Repeat until the draft is no longer noticeable.

Cooling season

The cooling effect created by the breeze from Isis fans keeps occupants comfortable with the thermostat at a higher setting. During the cooling season, every degree higher that the thermostat is reset reduces the energy consumed by the air conditioner by 1.5–2%. To minimize energy usage during the cooling season, operate the fan only when building occupants are present.

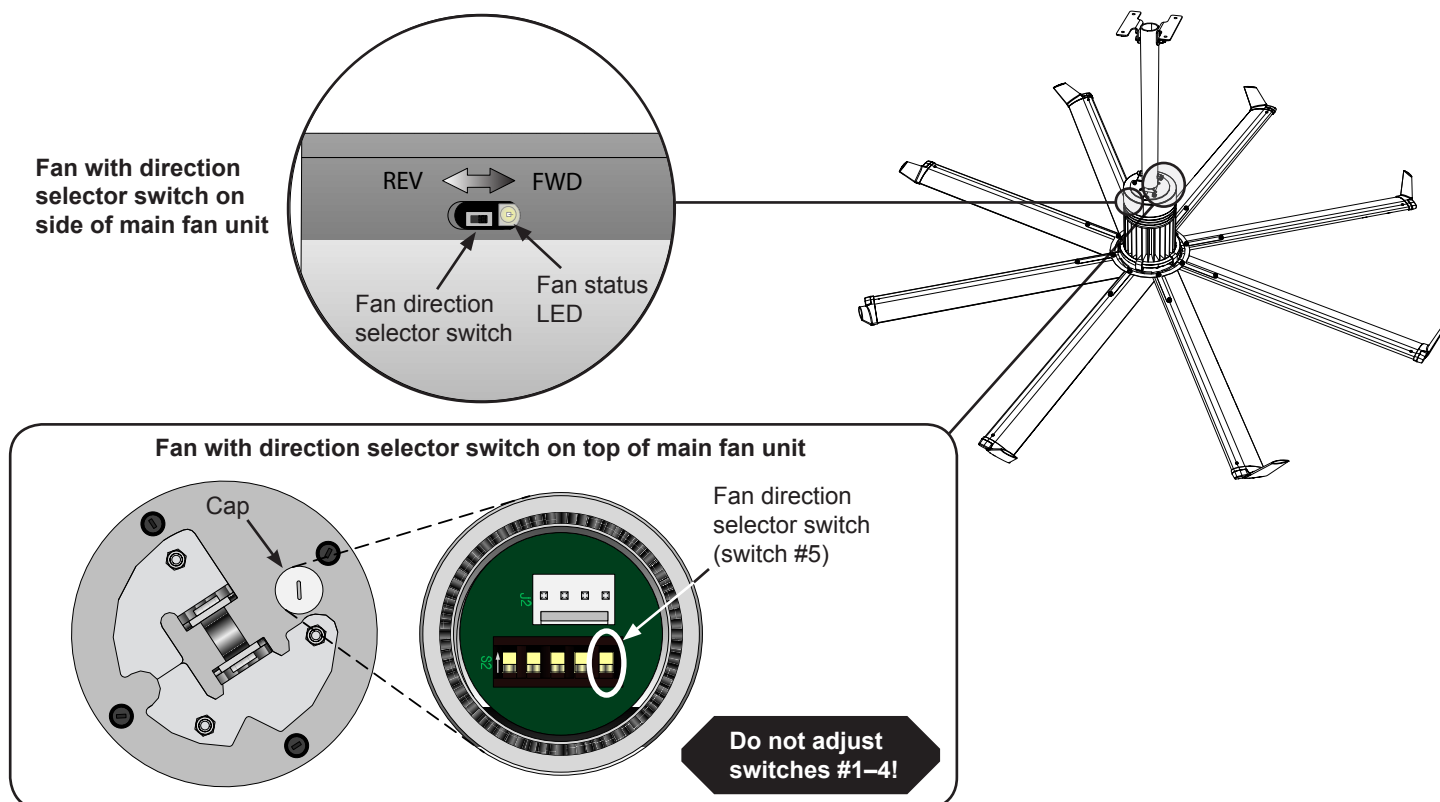
Increase the speed of the fan until desired air speed or maximum fan speed is reached. In air conditioned facilities, increase the thermostat setting by 2–7°F to save energy.

Changing the fan direction

⚠ CAUTION: When adjusting the fan direction selector switch, be careful not to damage internal components!

⚠ CAUTION: Do not insert foreign objects into the fan direction selector switch.

To reverse the direction of the fan, remove power from the fan. Select the direction of the fan using the fan direction selector switch. Reapply power to the fan. For fan status LED definitions, see *Troubleshooting* on page 39.



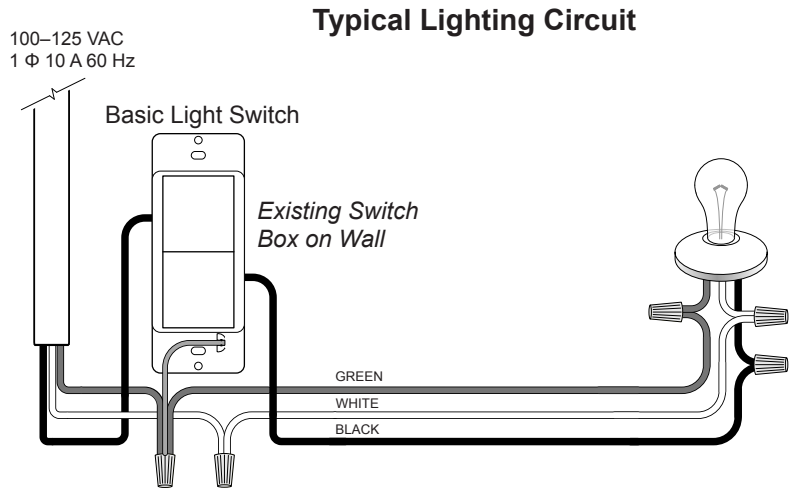
To order optional wiring kits, contact Customer Service.

Limited access application

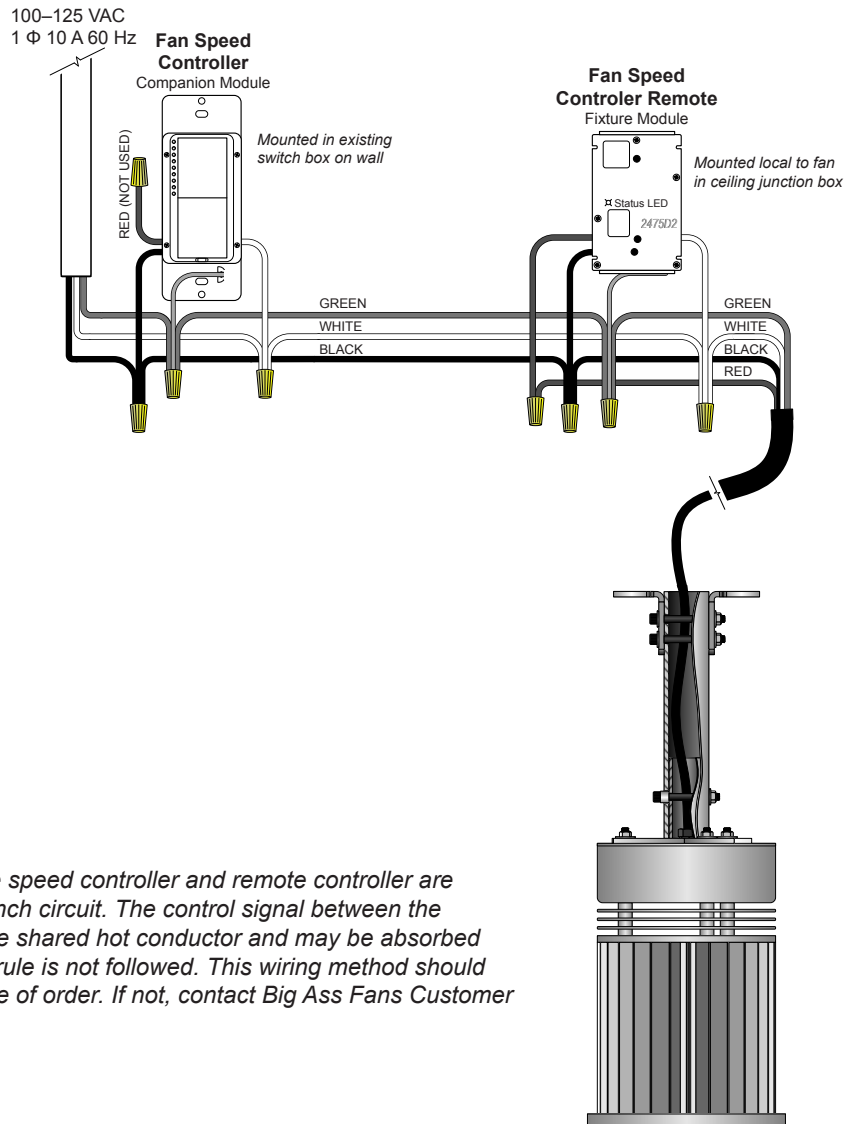
⚠ CAUTION: The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.

Illustrated on the right is a typical lighting circuit with one basic light switch. The fan operational critical red conductor or “traveler” conductor is absent. For Isis® fan applications in which installing a 3-wire plus ground circuit (black, white, and red) is impractical or impossible, an optional limited access fan controller can be installed to eliminate the required red traveler conductor between the controller and the fan, allowing the utilization of the existing 2-wire plus ground circuit (black and white) shown on the right.

Note: This scenario is common in residences in which only a light circuit was previously installed.



Basic 2-Wire (Plus Ground) Single Fan Application



Note: It is essential that the speed controller and remote controller are installed on a common branch circuit. The control signal between the devices is modulated on the shared hot conductor and may be absorbed at the breaker panel if this rule is not followed. This wiring method should have been noted at the time of order. If not, contact Big Ass Fans Customer Service.

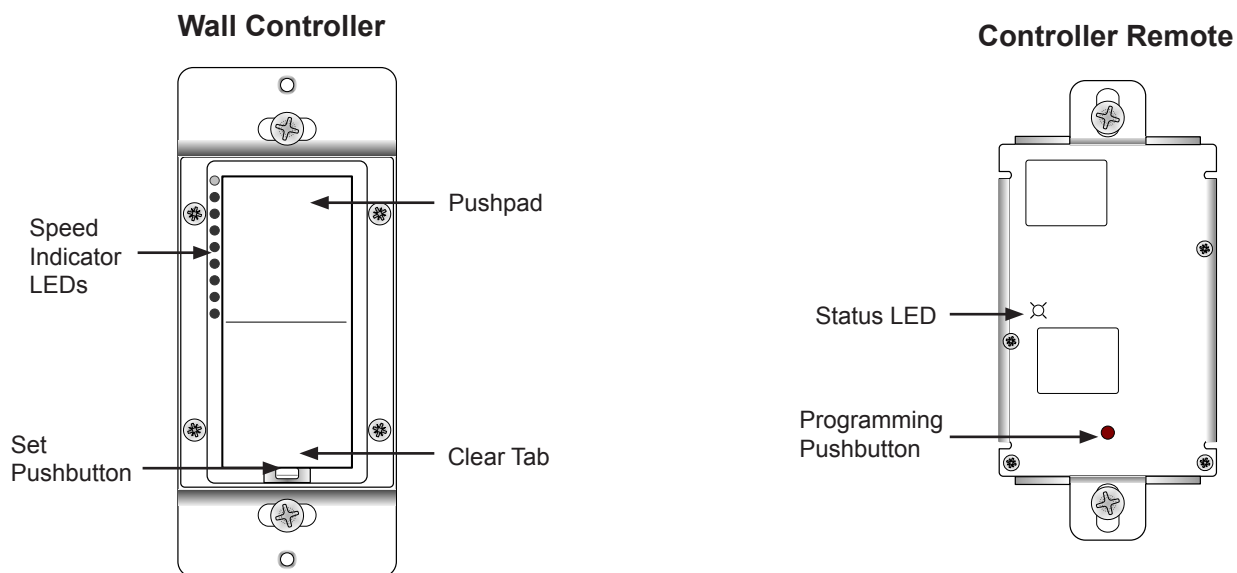
Limited access fan controller and controller remote operation

As a convenience, the fan controller and the controller remote sets are factory paired by Big Ass Fans. See the previous page for wiring instructions.

To start the fan, tap the upper portion of the pushpad once. The fan may take up to 30 seconds to start rotating. **To increase fan speed**, press and hold the upper portion of the pushpad. **To decrease fan speed**, press and hold the lower portion of the pushpad.

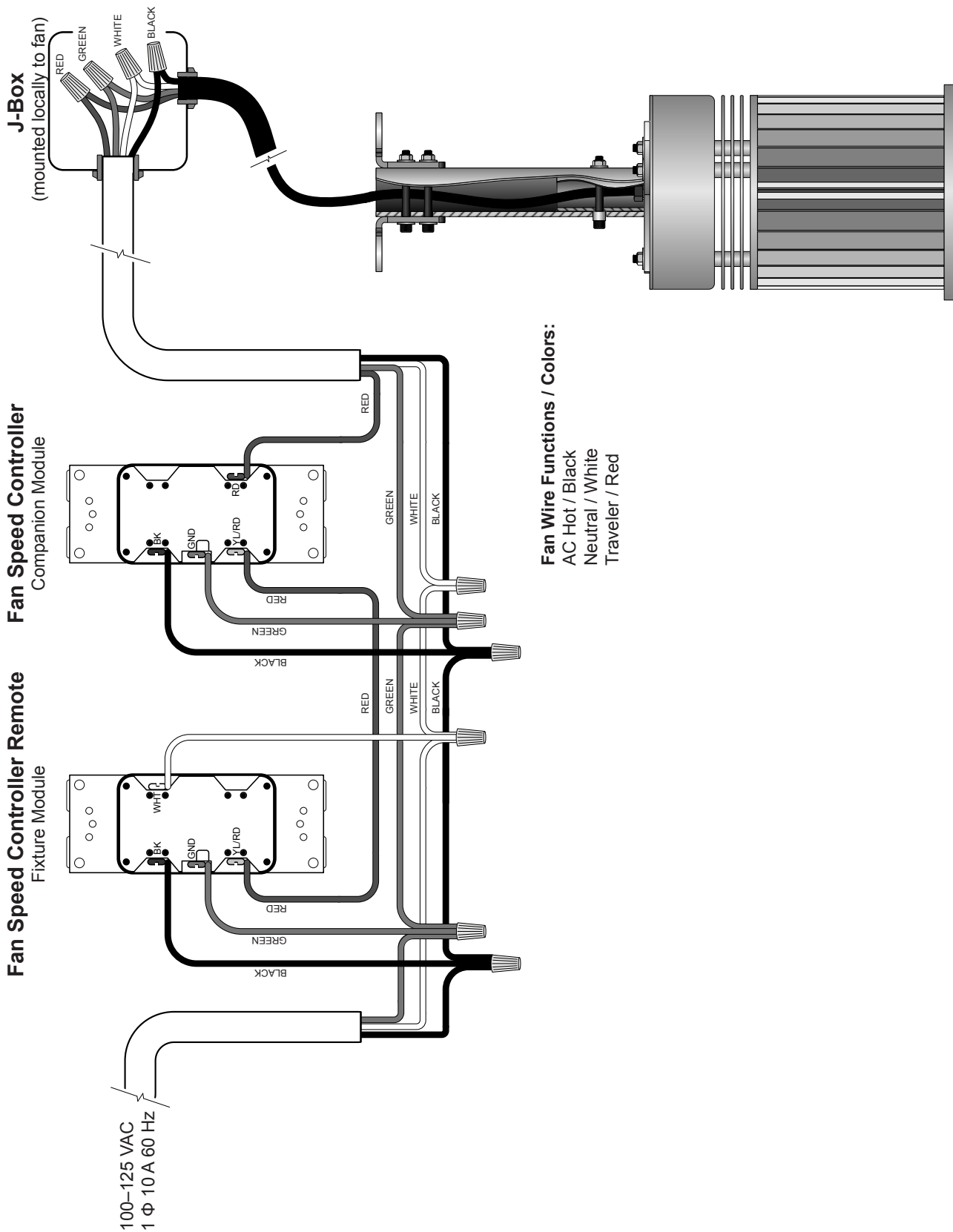
To stop the fan, tap the lower portion of the pushpad once. To disable the fan, pull out the clear tab at the bottom of the controller.

Note: The Limited Access Controller is only necessary if you are utilizing the Limited Access wiring method described on the previous page.



3-way single fan application

⚠ CAUTION: The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.



This method of control is referred to as a 3-way switch because either switch (controller) can be used to start or stop the fan or adjust fan speed. The connection diagram above illustrates how the installer can utilize the existing 3-way wiring to add the additional control location.

Note: The controller provided with the fan (AT106) does not include a neutral conductor; however, the optional part required for 3-way operation (ATR001-1L) does include a neutral conductor. This is the only physical difference between the two controllers and can be used for identification if necessary.

38 Preventive Maintenance

- ⚠ **WARNING:** Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device (such as a tag) to the service panel.
- ⚠ **WARNING:** When service or replacement of a component in the fan requires the removal or disconnection of a safety device, the safety device is to be reinstalled or remounted as previously installed.

Please take a few moments each year to perform the following preventive maintenance inspection on your fan to ensure its safe and efficient operation. Before contacting Customer Service, try resolving the issue using the troubleshooting procedures on the following page. If you have any questions, contact Customer Service. *Note: Actual installation setup may differ from picture.*

Annual preventive maintenance

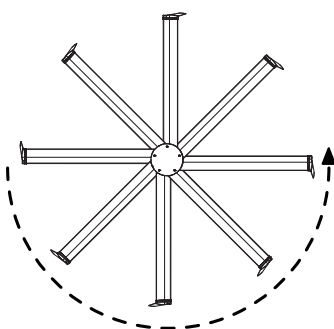
Perform the following maintenance procedures each year using the Annual Maintenance Checklist on page 41.

1. Ensure all four mounting bolts are present and torqued to 25 ft·lb (33.9 N·m).
2. Ensure airfoils are secured to one another by airfoil retainers.
3. Ensure all 16 bolts securing the airfoils to the fan are present and torqued to 29 ft·lb (39.3 N·m).
4. Ensure all three (3) nuts securing the lower mount to the motor are tight.
5. Ensure all winglet hardware is secure.
6. Check guy wires (if installed) for fraying or damage (not shown in illustration below).

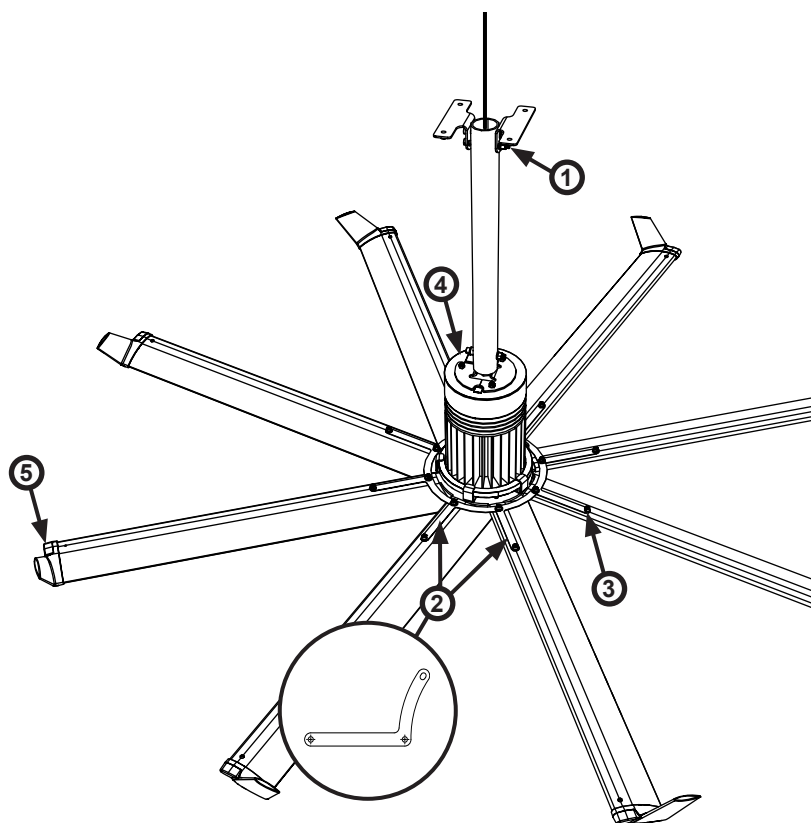
General preventive maintenance

- Verify proper fan rotation. To be effective, the fan must be turning counterclockwise when viewed from the floor.
- Dust airfoils and motor. If desired, use a gentle cleaner or degreasing agent to polish the airfoils. Do not use Clorox® or other chlorine based cleaners! This could result in the release of toxic/fatal fumes. Do not use cleansers on the electronics enclosure.
- Check that the safety cable and upper mounting system are secure.
- Ensure the fan is not exposed to direct contact with water unless labeled, "Suitable for use in wet locations."
- Observe the motion of the fan during operation. The fan should not wobble or precess. If any wobble is noticed, ensure the mounting structure is rigid enough to support the fan and that the guy wires, if used, are sufficiently taut. If guy wires were not used, Big Ass Fans suggests installing them. Contact Customer Service.

- ⚠ **WARNING:** Do not operate a fan with missing or damaged components. Please contact Customer Service.



View from Below



Troubleshooting

- ⚠ **WARNING:** When servicing or replacement of a component in the fan requires the removal or disconnection of a safety device, the safety device is to be reinstalled or remounted as previously installed.
- ⚠ **CAUTION:** Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- ⚠ **WARNING:** Before servicing or cleaning unit, switch power off at the service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

Customers in the United States For questions about your product or customer service inquiries, please call our toll free number (877-BIG-FANS) or visit www.bigassfans.com/service .	Customers outside of the United States For questions about your product or customer service inquiries, please contact your local Big Ass Fans representative or fill out a contact form at www.bigassfans.com/service .
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General troubleshooting

Some issues can be resolved before requesting service. Review the below troubleshooting tips before contacting Customer Service for support.

Symptom	Possible solution(s)
<i>A popping noise is coming from the fan.</i> Airfoil noise is a result of airfoils that are not tightened to the specified torque.	Switch off power at the service panel and lock the service disconnecting means. (If it cannot be locked, fasten a prominent warning device.) Tighten the airfoil hardware to 29 ft·lb (39.3 N·m). If popping still occurs, verify that the airfoils are not contacting each other. If the airfoils are contacting each other, please contact Customer Service.
<i>The fan will not start.</i>	Verify the following: <ul style="list-style-type: none"> • All wires are securely connected. • The wall controller has power. • Supply power is adequate and functional. If the fan still does not start, contact Customer Service.

Note: Some motor noise is to be expected and is normal.

Electrical troubleshooting

Fan status LED definitions

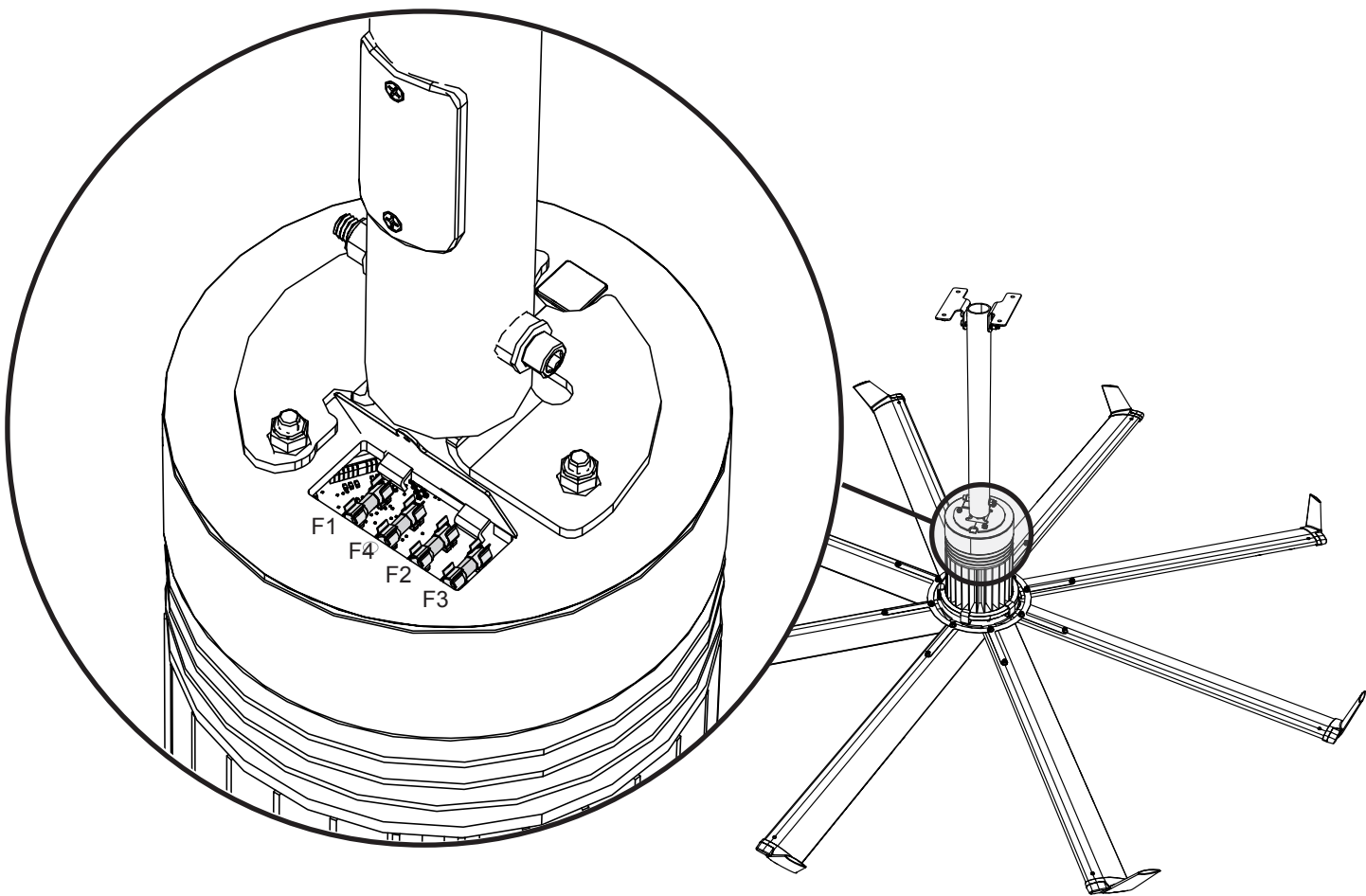
LED status:	Definition:
One 1-Second Flash/5 Seconds Off	Buss Under / Overvoltage
Two 1-Second Flashes/5 Seconds Off	Motor Over-current
Three 1-Second Flashes/5 Seconds Off	Commutation / Motor Stall
Four 1-Second Flashes/5 Seconds Off	Motor Over-temperature
Five 1-Seconds Flashes/5 Seconds Off	Drive Over-temperature

Note: For information on changing the fan direction, see p. 34.

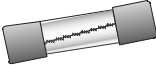
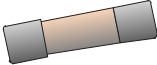
Replacing fuses

⚠ WARNING: Ensure power is disconnected before replacing fuses.

To replace the fuses on the main fan unit, remove the screw securing the fuse cover. Replace the appropriate fuse, and reinstall the cover. Refer to the table below for fuse recommendations. *Note: If your fan's fuse cover is in a different location than shown below, contact Customer Service for assistance.*



Suitable fuse replacements

F1 Internal LV Supply 250 VAC 500 mA	F4 AC Mains Traveler Input 250 VAC 100 mA	F2, F3 AC Mains Supply 250 VAC 10 A
Schurter 0034.3114	Schurter 0034.3107	Schurter 0034.2526
Cooper/Buss S506-500-R	Cooper/Buss S506-100-R	Cooper/Buss S505-10-R
Littelfuse 0218500	Littelfuse 0218100	Littelfuse 0234010
		

Optional Parts Order Form

Fully complete this form, and then fax to Big Ass Fans at **859-967-1695**. A Big Ass Fans representative will phone or e-mail you with the total cost of part(s) and shipping. Credit card information will also be obtained at that time.

Optional parts

Enter the number in the Quantity column for the required part.

Quantity	Part Description
	I-Beam Adapter Mounting Kit (Large)
	I-Beam Adapter Mounting Kit (Small)
	L-Bracket Mounting Kit
	Z-Purlin Bracket Mounting Kit
	Wood Frame Mounting Kit
	Guy Wire Kit

Shipping information

Enter your shipping address and contact information in the fields below, and then select your preferred shipping method.

Company Name: _____

Contact Name: _____

Shipping Address: _____

City, State, ZIP: _____

Phone Number: _____ Ext: _____

E-mail Address: _____

I prefer UPS Ground Shipping.

I prefer UPS Next Day Air Shipping.

Warranty Return Instructions

Congratulations on your purchase of a Big Ass Fan! We are delighted that you have chosen our product to improve the quality of your indoor environment, and hope you'll have much pleasure using the fan for years to come.

Replacement of products under warranty acknowledgment & return instructions

If you believe a part failed during normal operation and is covered under warranty, Big Ass Fans will ship a replacement part to you pursuant to your notice that you will be replacing the original part within 10 days. The replacement part will be shipped to you prior to our receipt of the item that failed, and prior to our evaluation of this part to determine the reasons for its failure and whether it is covered under warranty.

In order to evaluate the cause of the product failure, we will need you to return the original part to our offices within 10 working days of receipt of the replacement part. Should the part be covered under warranty, you will not be charged for the replacement item; however, you will be charged for the replacement part plus shipping if (1) the part is not under warranty because the source of failure is outside the scope of the warranty, or (2) the warranty period has expired. If there is no warranty coverage, we will send you a detailed letter of explanation. We also will charge you for the replacement item plus shipping and handling if you do not return the original item within 10 days of the receipt of the replacement item.

Instructions for returning the original item

1. Please use the return label that is included in the box containing the replacement part. The return shipment address is:

Big Ass Fan Company
ATTN: RMA# _____
800 Winchester Road
Lexington, KY 40505

2. Use the packaging for the replacement part to return the original part.
3. Include the packing list we have provided which includes the RMA#.
4. If the part weighs over 50 lbs., you will be provided a prepaid Bill Of Lading. To schedule a freight pick up, please contact Customer Service. We will only charge back the freight costs if the original part is not under warranty, or if you do not return the original component within 10 days of receipt of the replacement.
5. If the part weighs 50 lbs. or less, please use the provided prepaid UPS Ground shipping label and drop off at your nearest UPS pickup location.

If you have questions, please contact us at 1-877-BIG-FANS.

Warranty claim form instructions

1. Complete Warranty Claim Form and Responsibility Agreement and fax them to 859-967-1695, Attn: Customer Service. These pages will be faxed back to you for your records. The Warranty Claim Form will include our acknowledgment and a Return Materials Authorization (RMA) number. **Do not return any item without first being assigned an RMA# by Big Ass Fans Customer Service.**
2. No more than 10 days prior to the date you have made arrangements to replace the component part, call Customer Service at 1-877-BIG-FANS to arrange for replacement component delivery and original component pickup. At that time, we will fax you a written acknowledgment of your call that includes a reminder of the return instructions. Note: Even if you are not able to replace the component immediately following your initial notice to us, returning the Warranty Claim Form and Responsibility Agreement will effectively stop the warranty clock from running. You can then make the product exchange when you are prepared to do so. However, the warranty period will continue to run until we receive these completed pages back from you, and no warranty will be honored without receipt of these pages within the warranty period. We will not send out any replacement part until you have called to let us know that you have scheduled installation of the replacement. This ensures that the replacement part is not lost or damaged while awaiting installation, and that you are not billed for the replacement because you have waited too long to return the original component (see Responsibility Agreement).
3. When you receive the replacement part, you have 10 working days to remove and replace the existing component and return it to us at **800 Winchester Road, Lexington, KY 40505**.
 - a. Upon receiving the replacement part, verify that replacement part order is correct. If order is incorrect or damaged, notify Big Ass Fan Company within 24 hours after receiving order.
 - b. Use care unpacking the replacement component, as you will need to use *both* the packaging from the replacement part and the packing list and a return address label included inside this packaging to return the original part. If the original packaging and return documents are not used, you will be responsible for any damage incurred in transit as well as any additional costs involved. **Note: The RMA# must appear on the outside of the box being returned. Items without an RMA# will not be accepted.**
 - c. Use the delivery service or one of the truck lines specified in the acknowledgement for return of the part. We will refuse receipt of any shipment that is returned via an unauthorized carrier. If you prefer, we can make all arrangements for delivery and pickup.
 - d. Fax a copy of the bill of lading or other tracking information to 859-967-1695 when the item has been shipped so that we know to expect delivery of the original part.
4. If we do not receive the original part back within 15 working days from the date you receive delivery of the replacement, you will be invoiced for the cost of the replacement part, plus freight, on Net 15 terms (see Responsibility Agreement), and this invoice will be due and payable. If you subsequently return the replacement part to us after payment has been made, we will refund any payment made for the replacement part, unless we subsequently determine that the part is not covered under warranty.



800 Winchester Road
Lexington, KY 40505
Phone: 1-877-BIG-FANS
Fax: (859) 967-1695
www.bigassfans.com

Warranty Claim Form

Name (print): _____ Signature: _____

Company: _____

Shipping Address: _____

City/State/ZIP: _____

Phone: _____ Fax: _____

Items Returned: _____ Date of Purchase: _____

Reason(s) for returning item (please provide detail, including length of time after fan had been in operation that problem was noticed, nature of problem, any attempts you made to remedy the problem, etc.):

ATTENTION: Do not return any item without first being assigned an RMA# by Big Ass Fan Company Customer Service Department. The RMA# must appear on the outside of the box being returned. Items without an RMA# will not be accepted.

Date replacement parts should be shipped (if known): _____

Please do not request shipment until you are prepared to install; you may call us at 1-877-BIG-FANS to arrange shipment when you have scheduled installation.

Acknowledgment of Receipt of Warranty Return Notification
(to be completed by Big Ass Fan Company)

Acknowledged by: _____ Date: _____

RMA#: _____

Authorized Truck Line(s): _____



800 Winchester Road
Lexington, KY 40505
Phone: 1-877-BIG-FANS
Fax: (859) 967-1695
www.bigassfans.com

Responsibility Agreement

To: Big Ass Fan Company

The undersigned understands and acknowledges receipt of the Warranty Claim Form and Instructions and agrees that Big Ass Fan Company has the right, upon receipt of returned merchandise, to make final determination as to whether this merchandise should be replaced at no cost under Big Ass Fan Company's stated warranty policy.

The undersigned further agrees that if Big Ass Fan Company determines that this merchandise does not qualify under its stated warranty policy, Big Ass Fan Company can invoice for the replacement merchandise, plus shipping and handling for the original part and all replacements, and such invoice will be paid within 15 days of receipt of the same.

The undersigned agrees to ship to Big Ass Fan Company's location at 800 Winchester Road, Lexington, KY 40505 all of the merchandise replaced by Big Ass Fan Company, including, but not necessarily limited to, defective or failed components, within 10 working days of the receipt of the any replacements.

The undersigned further agrees that if said replaced merchandise has not been shipped to Big Ass Fan Company within 10 working days, Big Ass Fan Company can invoice for the replacement merchandise plus shipping and handling, and the invoice will be paid within 15 days of receipt.

Signed: _____

Title: _____

For: _____
(Name of Company)

Date: _____



2348 Innovation Drive
Lexington, KY 40511
Phone: 1-859-233-1271
www.bigasssolutions.com

Check-In Procedure

(for Big Ass Fans Certified Installers Only)

ATTENTION: These items must be completed prior to any additional installation crew members entering jobsite or any installation material being unloaded.

Date: _____

Company: _____ Job Name: _____

Address: _____ Purchase Order No.: _____

City/State/ZIP: _____

Contact Name: _____ Phone: _____

E-mail: _____

****SEE THE FOLLOWING PAGE FOR NFPA 13 REGULATIONS****

<input type="checkbox"/>	Fan placement is to be in accordance with agreed upon original Scope of Work and Layout. If this is to change, please note change and consult Field Service Manager for approval.
<input type="checkbox"/>	Installation techniques have been discussed (type of conduit, L-brackets if required, mounting technique explained). If the extension tubes exceed 4 ft (1.2 m), guy wires are explained and fully understood.
<input type="checkbox"/>	Times in/out, duration, and schedule presented and accepted.
<input type="checkbox"/>	Time (please list the number of employees and total duration of jobs):
<input type="checkbox"/>	Safety rules and regulations have been brought to installer's attention (e.g., badges, safety harnesses, vests, hard hats, footwear, lock out/tag out, certification processes, work area free of trash and debris, etc.). If there are any areas that are forbidden or secure, they are brought to the supervisor's attention and instructed not to enter. If there are any special site conditions (i.e., open areas and operating machinery to be avoided), they are also brought to the supervisor's attention and instructed how to bypass the area if required. Safety Rules and Regulations listed:
<input type="checkbox"/>	The facility manager understands all electrical requirements, i.e., breaker size, voltage, brand, main panel space, and they are in accordance with original Scope of Work and Layout.
	Additional comments:

Check-In Procedure (cont.)

(for Big Ass Fans Certified Installers Only)

National Fire Protection Association Standard

In accordance with NFPA 13 Standard from the National Fire Prevention Association as referenced in sections 12.1.4 and 11.1.7: High Volume Low Speed (HVLS) Fans:

The installation of HVLS fans in buildings equipped with sprinklers, including ESFR sprinklers, shall comply with the following:

- The maximum fan diameter shall be 24 feet (7.3 m).
- The fan shall be approximately centered between four adjacent sprinklers.
- The vertical clearance from the fan to sprinkler deflector shall be a minimum of 3 feet (0.9 m).
- All fans shall be interlocked to shut down immediately upon receiving a water flow signal from the alarm system in accordance with the requirements of NFPA 72- National Fire Alarm and Signaling Code.

WARNING: The fan should not be installed unless the structure on which the fan is to be mounted is of sound construction, undamaged, and capable of supporting the loads of the fan and its method of mounting. Verifying the stability of the mounting structure is the sole responsibility of the customer and/or end user, and Big Ass Fans hereby expressly disclaims any liability arising therefrom, or arising from the use of any materials or hardware other than those supplied by Big Ass Fans or otherwise specified in the installation instructions.

If this installation will be performed outside the scope of work or not within the specifications of Big Ass Fans by customer's request, please provide specific details:

Please sign below if both parties agree that all aspects of this installation have been thoroughly explained and are of clear understanding and agreement of the installation to be completed.

Customer Signature: _____

Printed Name: _____ **Date:** _____

Contractor Signature: _____

Printed Name: _____ **Date:** _____

The supervisor is to hold all documents until the job is complete and send all forms back to Field Service Manager. This will consist of the service/work order, Check-In document, and Close-Out document. The installation crew will not receive payment until all forms are signed by the facility manager and the supervisor. These documents will then be forwarded to the Field Service Manager at Big Ass Fans.



2348 Innovation Drive
Lexington, KY 40511
Phone: 1-859-233-1271
www.bigasssolutions.com

Close-Out Procedure

(for Big Ass Fans Certified Installers Only)

Date: _____

Company: _____ Job Name: _____

Address: _____ Purchase Order No.: _____

City/State/ZIP: _____

Contact Name: _____ Phone: _____

E-mail: _____

****SEE THE FOLLOWING PAGE FOR NFPA 13 REGULATIONS****

The field crew supervisor and facility manager are to walk through the completed installation.

<input type="checkbox"/>	The installation is complete and on time in accordance with the original Check-In document. If not, explain:
<input type="checkbox"/>	Conduit runs are installed in accordance with the Check-In document, Scope of Work, and Layout. If not, explain:
<input type="checkbox"/>	The fans are correctly placed in accordance with both the Check-In document, Scope of Work, and Layout. If not, explain:
<input type="checkbox"/>	Breaker size and wire type are in accordance with the Check-In document, Scope of Work, and Layout. If not, explain:
<input type="checkbox"/>	All safety rules and regulations met in accordance with the Check-In document, Scope of Work, and Layout. If not, explain:
<input type="checkbox"/>	Fans have been running for over an hour and operate without visible defect or issue.
<input type="checkbox"/>	The fan is spinning in the correct direction (counterclockwise when viewed from floor).
<input type="checkbox"/>	Angle irons are securely fastened and are without any apparent problems in accordance with installation techniques discussed at check-in.
<input type="checkbox"/>	If extension tube is 4 ft (1.2 m) or longer, guy wires are in place and there is no evidence of a wobble.
<input type="checkbox"/>	Supervisor or contractor has supplied and explained the Installation Guide. If not, explain:
<input type="checkbox"/>	The supervisor or contractor has explained and I understand how to operate fan including starting/stopping, speed operation, and power disconnect. If not, explain:
<input type="checkbox"/>	Time in/out and duration are in accordance with Check-In document.
	Additional comments:

Close-Out Procedure (cont.)

(for Big Ass Fans Certified Installers Only)

National Fire Protection Association Standard

In accordance with NFPA 13 Standard from the National Fire Prevention Association as referenced in sections 12.1.4 and 11.1.7: High Volume Low Speed (HVLS) Fans:

The installation of HVLS fans in buildings equipped with sprinklers, including ESFR sprinklers, shall comply with the following:

- The maximum fan diameter shall be 24 feet (7.3 m).
- The fan shall be approximately centered between four adjacent sprinklers.
- The vertical clearance from the fan to sprinkler deflector shall be a minimum of 3 feet (0.9 m).
- All fans shall be interlocked to shut down immediately upon receiving a water flow signal from the alarm system in accordance with the requirements of NFPA 72- National Fire Alarm and Signaling Code.

WARNING: The fan should not be installed unless the structure on which the fan is to be mounted is of sound construction, undamaged, and capable of supporting the loads of the fan and its method of mounting. Verifying the stability of the mounting structure is the sole responsibility of the customer and/or end user, and Big Ass Fans hereby expressly disclaims any liability arising therefrom, or arising from the use of any materials or hardware other than those supplied by Big Ass Fans or otherwise specified in the installation instructions.

NOTE: The customer's initials are required as acknowledgement for the following instances:

- ___ Return Trip Required – Additional Charges Apply (Customer not Ready/Lift Issues)
- ___ Work Completed Outside Scope of Work (if applicable)
- ___ Installation Not Performed Per BAF Recommendations or Specifications For Any Reason
- ___ Customer Understands and Approves Additional Charges As Explained in amount of \$_____ (if applicable)
- ___ Other (Please Explain Below)

If any portion of this installation was performed outside the scope of work or not within the specifications of Big Ass Fans at any capacity or for any reason, please provide specific details below:

Signatures of both parties are required below to acknowledge that this installation has been completed to customer's satisfaction, to activate fan(s) warranty, and to issue payment to contractor (with required documentation):

Customer Signature: _____

Printed Name: _____ **Date:** _____

Contractor Signature: _____

Printed Name: _____ **Date:** _____

The supervisor is to hold all documents until the job is complete and send all forms back to Field Service Manager. This will consist of the service/work order, Check-In document, and Close-Out document. The installation crew will not receive payment until all forms are signed by the facility manager and the supervisor. These documents will then be forwarded to the Field Service Manager at Big Ass Fans.



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2425 Merchant St., Lexington, KY 40511
1 (877) BIG-FANS | WWW.BIGASSFANS.COM