



**LIFT BRIDGE
KITCHEN & BATH**

INSTALLATION MANUAL AND USER GUIDE



Bathroom Ventilation Fan with LED Light

READ AND SAVE THESE INSTRUCTIONS
CONTRACTORS: THIS MANUAL STAYS WITH THE CUSTOMER

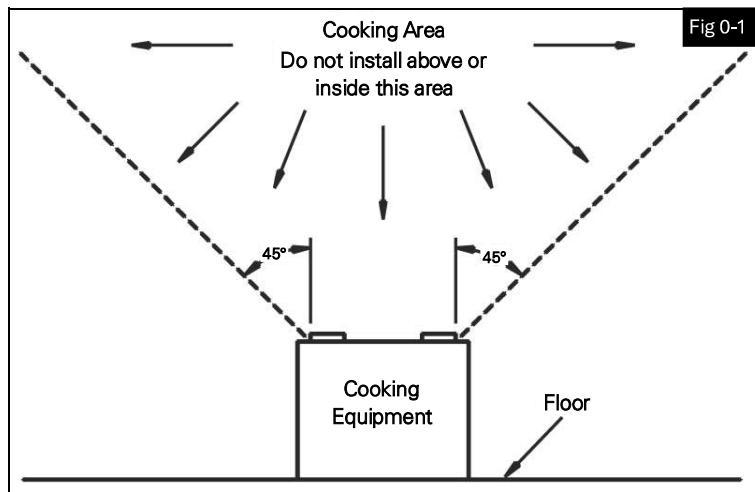
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GENERAL SAFETY INFORMATION AND WARNINGS

For your safety and to ensure proper performance of the unit, it is very important to read these instructions carefully before installation. Non-compliance could result in personal injury or property damage. Keep this guide for future reference. All units should be installed by a licensed electrician.

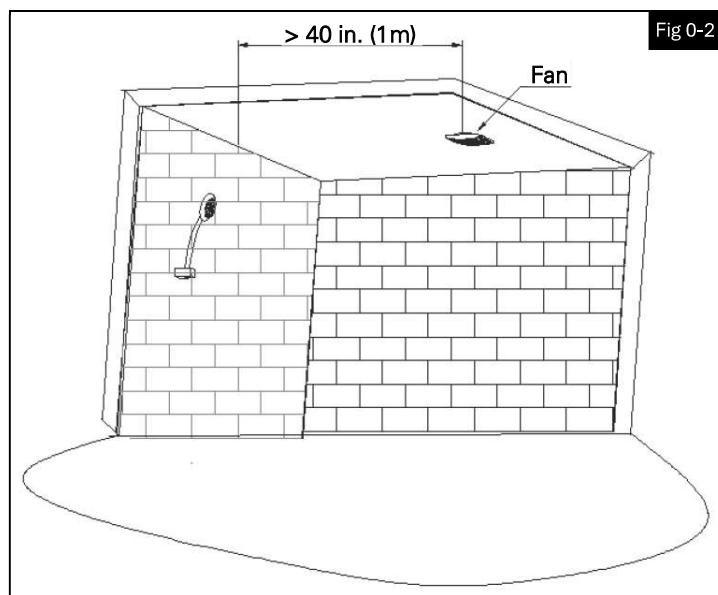
1. Electrical service supply must be 120V 60Hz.
2. Do not install where the air temperature will exceed 104°F (40°C).
3. Do not bend or kink the power wires.
4. Follow all local safety and electrical codes, as well as requirements for NEC (National Electrical Code) and OSHA (Occupational Safety and Health Act)
5. Always disconnect the power supply prior to servicing the fan, motor, or junction box.
6. Protect the electrical wires from sharp edges, oil, grease, hot surfaces, chemicals, or other objects.
7. Avoid installing the unit in locations where ducts restrict airflow significantly.
8. There should always be adequate air supply to the vented area.
9. This ventilation fan is approved for use over a bathtub or shower when installed in a GFCI-protected circuit, with controls placed out of reach from these areas.
10. Do not use unit to exhaust hazardous or explosive vapors.
11. Disconnect fan from power supply before servicing.
12. The fan component of this unit is not compatible with any solid-state control devices, such as remote controls, certain electronic timers, or dimmer switches designed for fan speed control. Mechanical timers are suitable for controlling the fan.
13. The LED light component of this unit is compatible only with LED-compatible dimmer switches.
14. This unit must be properly grounded.
15. Do not install in a cooking area (Fig 0-1).



16. To reduce risk of fire and to properly exhaust air, be sure to duct air outside. Do not vent exhaust air into spaces within walls, ceilings, attics, crawl spaces or garages.
17. Installation work must be carried out by qualified person(s) in accordance with all local and safety codes, including the rules for fire-rated construction.
18. The fan is intended to be mounted at least 7 feet (2.1m) above the floor.

GENERAL SAFETY INFORMATION AND WARNINGS

19. Ensure that the installation height of the fan positions its lowest moving part at least 8 feet 2 inches (2.5m) above the floor or the exterior ground level. This requirement applies to products certified for use in Canada (CUL certified).
20. Sufficient air supply is required for proper combustion and the exhaustion of gasses through the chimney (flue) of fuel burning equipment to prevent back-drafting. See the standards of NFPA (National Fire Protection Association) and ASHRAE (American Society for Heating, Refrigeration and Air Conditioning Engineers) and your local building code authorities.
21. Do not install into a ceiling with insulation greater than R40.
22. Exercise care not to damage existing wiring when cutting or drilling into walls or ceilings.
23. Before servicing or cleaning, turn off and lock out the power supply. If locking out is not possible, clearly mark the panel with a warning tag not to turn on the power.
24. For installation over a tub or shower, maintain a distance of at least 40 in. (1m) between the fan and the tub, with the fan installed on the opposite side of the tub on the ceiling, in a GFCI-protected circuit (Fig 0-2).



25. This unit is not intended for direct connection to rigid metal ducting. For flexible ducting use only.
26. Ductwork should be installed in as straight a line as possible, with minimum bends.
27. Ductwork size must not be smaller than the unit's discharge outlet (4 in.)
28. This unit is equipped with a built-in thermal cut-off for safety and to prolong the life of the motor.

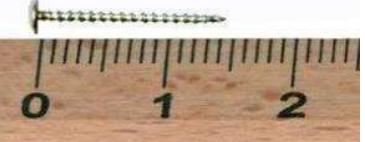
Use this unit only in the manner intended by the manufacturer. If you have any questions, please contact Customer Support at:

Email: support@StrategicRetailSolutions.com

Phone: (888) 930-8528

Website: www.StrategicRetailSolutions.com/#contact

INCLUDED PARTS AND ACCESSORIES

Part #	Part Name	Qty	Photo
1	Bath Fan Housing Grille w/ Integrated LED Light	1	
2	Glass Shade	1	
3	Threaded screw rod (a) LED light panel (b)	1	
4	30mm Screw (M4*30)	4	
5	Grille & Shade Mounting Hardware	1	
6	Lock nut	1	

REQUIRED TOOLS AND SUPPLIES

- Safety glasses
- Ducting Supplies
 - 4-inch round ducting
 - Elbows (if needed)
 - Foil duct tape
 - 4-inch clamp
- Switch(es) to operate fan and lights
- Phillips screwdriver or drill
- Tape measure
- Utility knife or saw for cutting drywall
- Wire cutter/stripper
- Wire nuts
- Ladder

SPECIFICATIONS AND DIMENSIONS

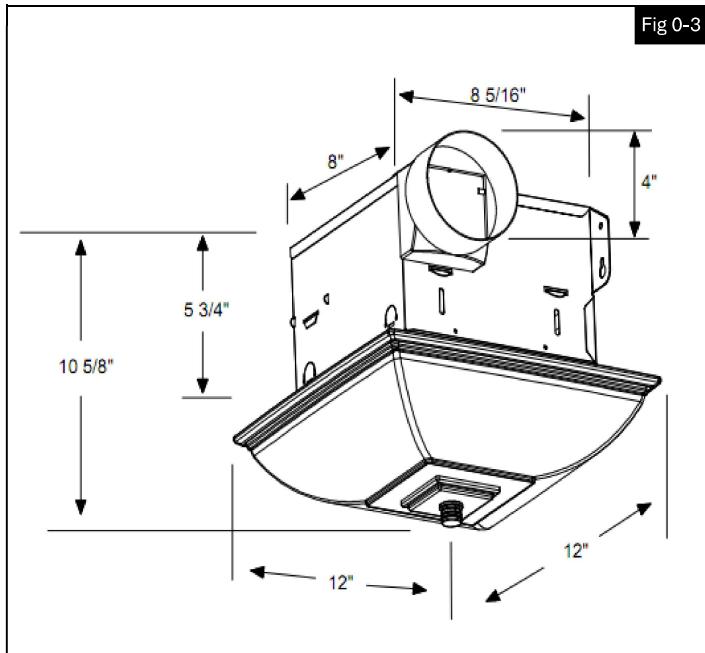
Specifications

- Electrical Service Requirements: 120v / 60 Hz
- LED Lights Power Consumption: 14 Watts
- Fan Unit Power Consumption: 33 Watts
- Amperage: 0.35A
- Air CFM: 70 CFM
- Maximum Room Size: 85 sq. ft.
- Noise Level: 1.5 Sones

Dimensions

- Ceiling Opening (Depth): **6-1/4 in.**
- Ceiling Opening (W x L): **8-7/16 in. x 8-3/16 in.**
- Housing (Depth): **5-3/4 in.**
- Housing (W x L): **8 in. x 8-5/16 in.**
- Grille Dimensions: **12 in x 12 in.**
- Duct Diameter: **4 in.**

Fig 0-3

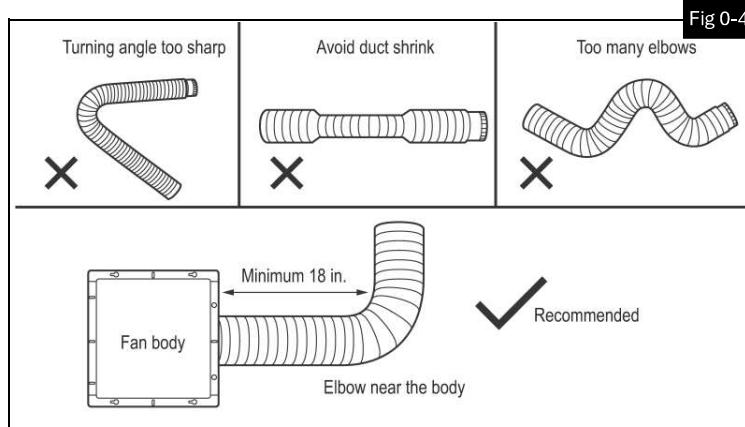


NOTE: The Ceiling Opening dimensions provided here are meant to serve only as a guideline to begin the installation process. For an optimal fit, we recommend making precise measurements and cuts tailored to the specific dimensions of the bath fan housing. The goal is to minimize any gaps around the housing for a clean and secure installation.

PLANNING YOUR INSTALLATION

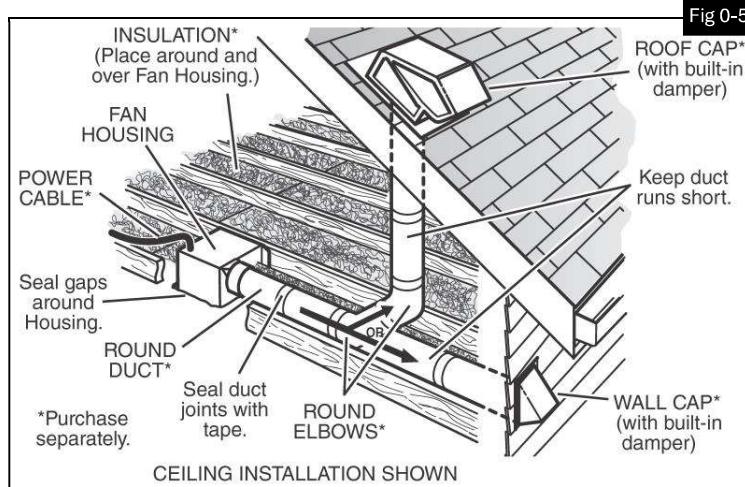
When installing the ventilation fan into a new construction site, install the main body of the fan and ductwork during the rough-in construction of the building. Once the finished ceiling is installed, proceed with the grille installation. Refer to the dimensions specified in this manual to determine the correct hole size for the ceiling.

The performance, noise level, and energy efficiency of this fan are significantly influenced by the ducting route to the building's exterior. For optimal performance, opt for the shortest and most direct ducting route. Use 4-in. ducting as recommended in this manual and do not reduce the ducting to a smaller diameter. Insulating the ducts can minimize energy loss and prevent mold growth. Be aware that using existing ductwork may result in the fan not achieving its intended airflow rate. Additionally, avoid locations requiring duct configurations like those depicted in **Fig 0-4**, as they can adversely affect the fan's operation.



For optimal efficiency, we recommend insulating both the ductwork and fan housing to minimize heat loss. Ensure all gaps around the housing are sealed with caulk or a similar sealant to prevent air leakage.

While the use of rigid metal ducting is advised for reducing static pressure losses and enhancing airflow, it should follow the shortest possible path to the exterior, as shown in **Fig 0-5**. Note that a direct connection of this unit to rigid metal conduit is not intended. Use flexible ducting for connections directly to the fan, which can then be integrated into rigid ducting as necessary for your installation setup.



FAN HOUSING INSTALLATION

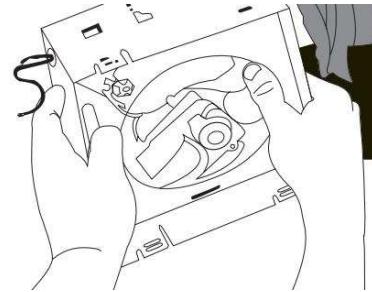
- Check the area above installation location to be sure that:
 - Ductwork can be run and there is sufficient area for proper ventilation,
 - Wiring can be run to the planned location (wires from the power supply to the unit should not be smaller than size 14AWG),
 - Ensure that no wiring or other obstructions will interfere with installation,
 - Inspect ductwork and wiring before proceeding with installation,
 - Plan a suitable location for ventilation fan, (next to ceiling joist)
 - There will be access to ductwork and wiring for inspection and future maintenance.

For installation in existing construction:

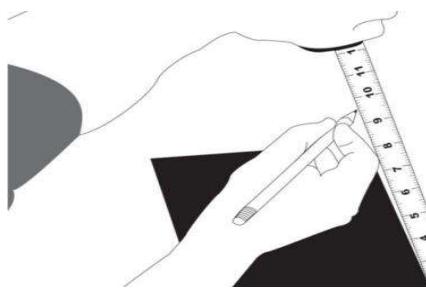
- Installing the fan housing in an existing building requires access (attic or crawl space) in the planned installation location above the existing ductwork and wiring.
- Inspect existing ductwork and wiring before proceeding with installation.

Step 1: Turn off power source. Review all safety precautions. Fig 1

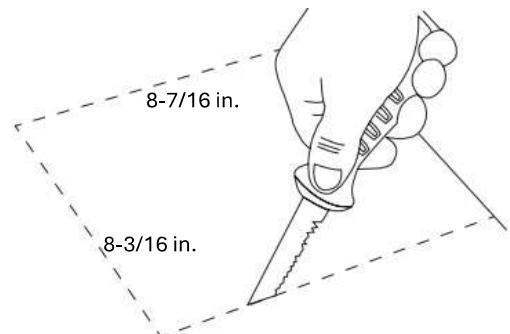
Step 2: Remove the existing fan. Fig 2



Step 3: Measure the opening to ensure it is large enough to accommodate the new fan housing. (8-7/16 in. x 8-3/16 in.) Fig 2



Step 4: If this fan is not replacing an old fan, be sure cut a 8-7/16 in. x 8-3/16 in. opening for the bath fan housing. Fig 3



FAN HOUSING INSTALLATION(cont.)

Step 5: Place the bath fan housing next to a ceiling joist or wall stud. The fan housing should be level and perpendicular to the joist or stud. Allow for thickness of the ceiling board used in your application.

NOTE: Do NOT flush mount to joist. Bottom of fan housing should be flush with ceiling board.

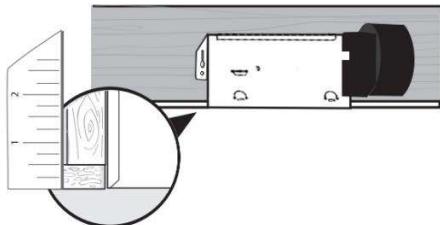


Fig 4

Step 6: Mount fan housing to the joist or stud using long wood screws (Part#4) where indicated by arrows outside fan housing.

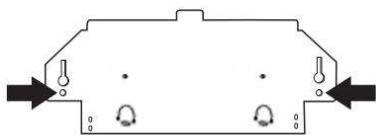


Fig 5

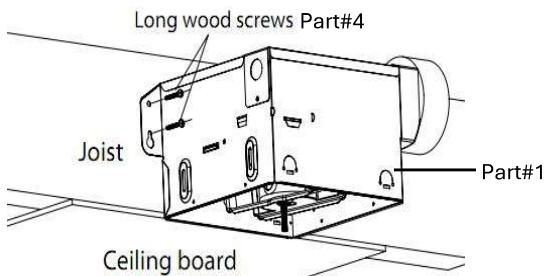


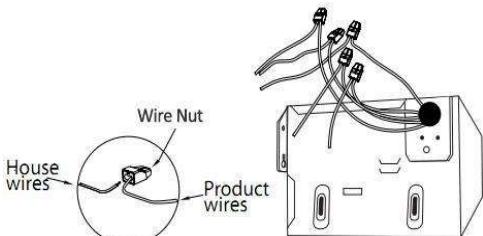
Fig 6

Disconnect the power supply before proceeding with Step 7.

Step 7: Run 120V 60Hz house wiring (with ground) from wall switches to fan location. Remove junction box cover, and use wire nuts, connect house wires to unit wires. Refer to Wiring Diagram (Fig.13) on Page 7.

NOTE: 12AWG is the minimum conductor to be used for branch-circuit wiring.

Caution: If your electrical wires do not match the colors listed, you must determine what each house wire represents before connecting. You may need to consult an electrical contractor to determine safely.



FAN HOUSING INSTALLATION(cont.)

Wire Nuts Instructions:

WARNING: Wiring must comply with all applicable electrical codes. Turn OFF power before removing or installing connectors COPPER TO COPPER ONLY. Do not use aluminum wire.

CAUTION: Accessory part(Wire nuts) should meet installation instructions below.

NOTE: The connector is reusable on solid wires of the same wire gage or smaller. Do not reuse the nut on stranded wires.

- Strip wires 3/8 in.-1/2 in.
- Grip the wire firmly and push the stripped end of the wire into the open port of the nut. Use only one conductor per port.
- Verify the stripped end of the wires is fully inserted to the back of the nut.

NOTE: Important wire information.

Maximum temperature rating 105°C (221°F)

600 volts maximum for building wire, 1000 volts maximum in signs and lighting fixtures. The acceptable wire range includes: solid 12-18 AWG.

Proceed with the installation of house wiring into the bath fan housing's Junction box as outlined in WARING CONFIGURATION on Page 6.

Step 8: Install a circular 4 in. duct and secure it with duct tape or clamps.

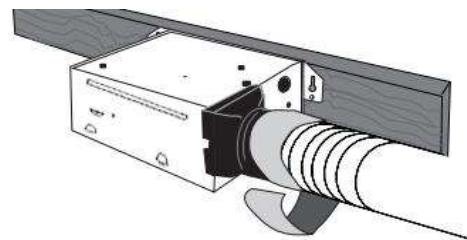
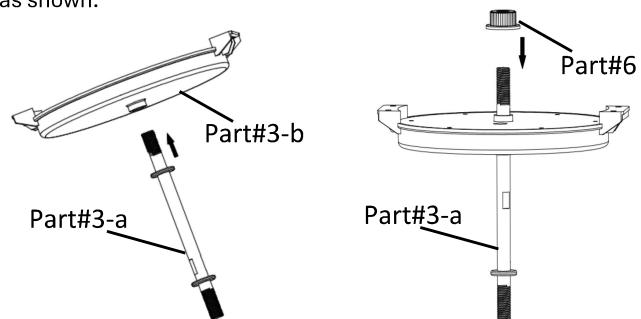


Fig 7

Finish ceiling work.(Ceiling hole should be aligned with edge of fan housing.)

Fig 8

Step 9: First, screw the Threaded screw rod(Part#3-a) into the LED panel(Part#3-b) as shown. Then screw the white rubber lock nut (Part#6) into the threaded screw rod as shown. At last, screw the Light Harness Plug(A) into the threaded nut on the fan housing as shown.



FAN HOUSING INSTALLATION(cont.)

Fig 9

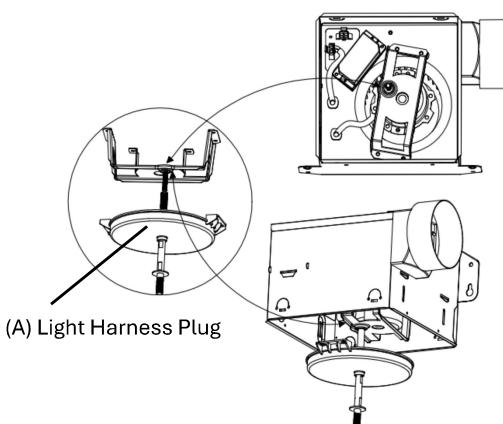


Fig 10

Step 10: Connect the Light harness plug(A) into the receptacle of the power box in the fan housing.

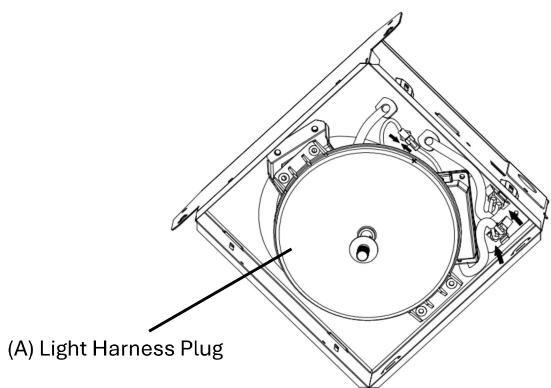
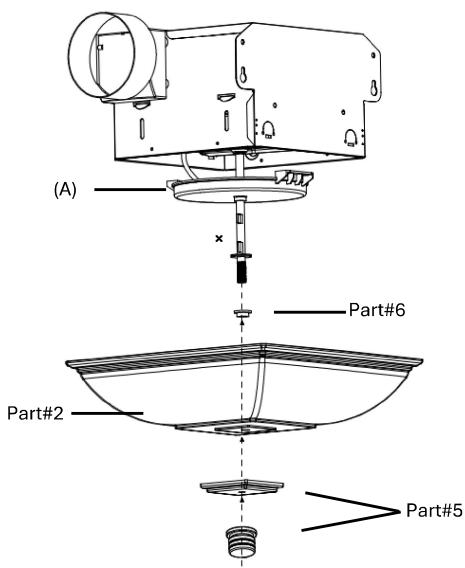


Fig 11

Step 11: Place the rubber lock nut(Part#6) into the bath fan shade(Part#2) and then onto the Light Harness Plug(A). Secure bath fan shade to rob with finial cap and finial nut(Part#5). At last, turn on electricity at breaker box after finishing installation.



FAN HOUSING INSTALLATION(cont.)

NOTE: There should be an approximately 1/2 in. gap between the Glass Globe(Part#2) and the ceiling board once installed. This gap is required for adequate airflow.

WIRING CONFIGURATION

This bath fan features separate wiring for both the fan unit and the LED light kit with each set of non-ground (black & white) wires clearly labelled as '**Fan Connection**' and '**Light Kit Connection**'. For optimal use, we recommend connecting the fan unit and LED light kit to separate switches (Fig.12 & Fig.13). However, if only one switch is available, you can wire the fan and light kit together, provided it is not a dimmer switch. If fitting all connections within the bath fan's junction box is difficult, using an external junction box is permissible. Ensure wires are not left dangling or unsecured outside the fan unit. Should your home's electrical setup not align with the fan's specifications, seeking advice from a qualified electrician is strongly recommended.

- **Green wires** are ground wires. House grounds may be green or bare.
- **White wires** are neutral. They carry power back to the service panel.
- **Black wires** are hot. They carry power from the panel to the fan.

Fig 12

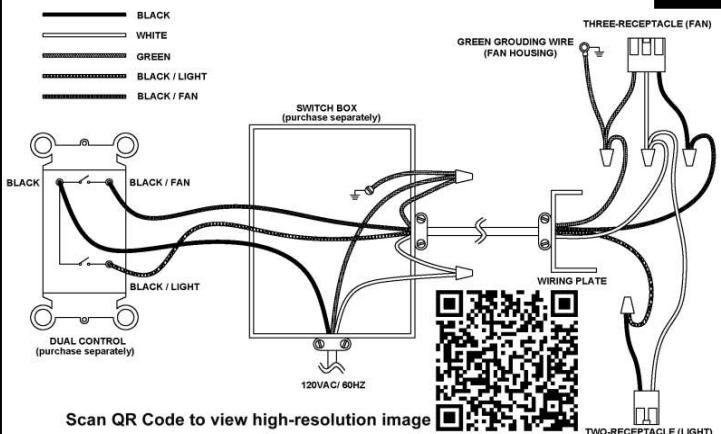
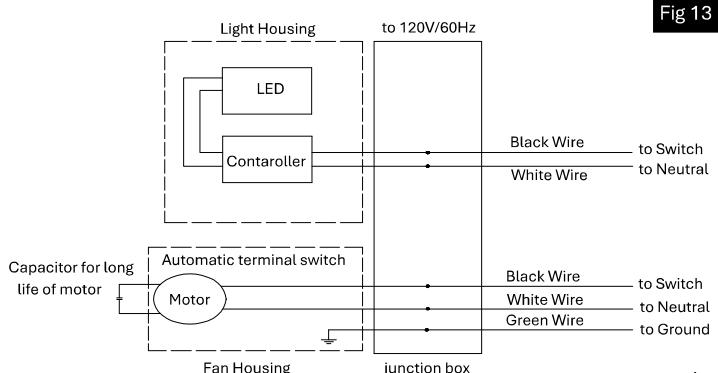
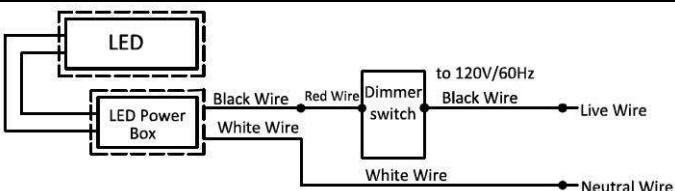


Fig 13



LED LIGHT PANEL CONFIGURATION



Color Temperature Operating Instructions

The included LED light allows you to cycle through color temperatures of 3000K, 4000K and 5000K using only your wall switch. Quickly toggle the power on and off at 1-second intervals to switch between these color temperatures. The LED light's built-in memory function will save your selected color temperature if the light is turned off for a minimum of **10 seconds**, preventing unintentional changes during normal use.

Dimming Operation Instructions

The brightness of the LED light can be adjusted via the dimmer switch's knob or slider. Some dimmer switch models have a sensitivity dial built into its housing which may need to be adjusted for optimal performance. Please refer to the dimmer switch manual for specific instructions.

NOTE: The fan blower is not compatible with a dimmer switch. If you are using a dimmer switch for the LED light, the fan blower must be wired to a separate switch.

CLEANING AND MAINTENANCE

Cleaning the unit periodically is advisable since dust, mold, grease, and other dirt particles can affect the conductivity of the air in the unit. Routine maintenance should be done at least once a year.

1. Clean glass shade with a soft towel or paper towels and glass cleaner (avoid harsh detergent).
2. Clean inside of unit with a vacuum cleaner. Do not use liquid cleaner as the motor should not come into contact with any liquid.

WARNING: Disconnect power supply before servicing. See SAFETY INFORMATION (Page 2) before proceeding.

CAUTION:

- Do not use gasoline, benzene, paint thinner or any other such chemical for cleaning the fan.
- Never allow water to enter the motor.
- Never immerse resin parts in water over 140° F (60° C)
- Only use a GFCI protected branch circuit when using over a bathtub or shower.

WARRANTY INFORMATION

This bath fan with related model numbers:

- DSQR70SFL

is covered by a 5-year limited warranty. The manufacturer warranties the bath fan motor and all other parts/components on this bath fan present at the time of shipment from the factory to be free from defects in workmanship and material for 5 years after the date of purchase by the original purchaser, when properly installed and under normal conditions of use. To obtain warranty service, you must register your product as directed below. This warranty does not cover products that have been abused, altered, damaged or misused. The manufacturer *DISCLAIMS* all other implied or express warranties including warranties of merchantability and/or fitness for a particular purpose. As some states do not allow exclusions or limitations on an implied warranty, the above exclusions and limitations may not apply. This warranty gives you specific rights, and you may have other rights that vary from state to state.

This warranty covers only the repair or replacement of parts that are found to be defective. The amount covered for these repairs or replacements will not be more than the original purchase price. Additionally, instead of repair or replacement, the manufacturer may choose to refund the amount paid for the product as a complete resolution of a warranty claim.

Any costs or charges related to installation, repair, replacement, or damages associated with these actions are not covered by this warranty.

CUSTOMER SUPPORT

For Customer Support, you may use one of three means to contact us:

Email: Support@StrategicRetailSolutions.com

Website: www.StrategicRetailSolutions.com/#contact

Phone: (888) 930-8528

PRODUCT REGISTRATION

To streamline any possible warranty claims on your bath fan, we recommend registering it to make the process smoother. You can register through either of the following methods:

1. Fill out the registration form on our website (*recommended*):
www.StrategicRetailSolutions.com/#registration
2. Fill out the warranty registration form below and mail it to this address:

Strategic Retail Solutions
Attn: Bath Fan Registration
P.O. Box 528
Sheboygan, WI 53082

Name:	<hr/>		
Address:	<hr/>		
City:	State:	Zip:	<hr/>
Phone:	(____)	Purchase Date:	/ /
Model Number: DSQR70SFL			