

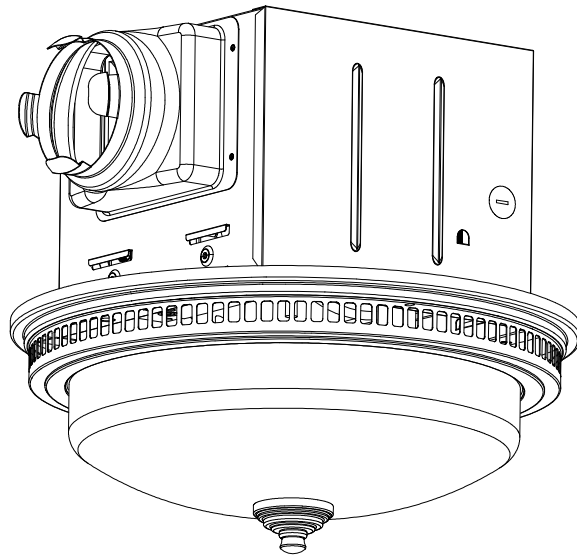


USE AND CARE GUIDE

BPT14-24AL-11

Bathroom Ventilation Fan with Light

READ AND SAVE THESE INSTRUCTIONS



Questions, problems, missing parts? Before returning to the store,
call AKICON Customer Service
8 a.m.-6 p.m., EST, Monday-Friday
1-302-213-4406 1-302-526-0542
AKICONSHOP.COM

Table of Contents

| | |
|---|-----|
| GENERAL SAFETY INFORMATION AND WARNINGS | 1-2 |
| LIST OF INCLUDED PARTS AND ACCESSORIES | 2 |
| LIST OF ADDITIONAL TOOLS/SUPPLIES REQUIRED FOR INSTALLATION | 3 |
| PLANNING INSTALLATION | 3 |
| SPECIFICATIONS | 4 |
| DIMENSIONS | 4 |
| WIRING DIAGRAM | 5 |
| FAN HOUSING INSTALLATION (DIRECT JOIST MOUNTING OR SUSPENSION BRACKET JOIST MOUNTING) | 5-7 |
| CLEANING THE VENTILATION FAN | 8 |
| WARRANTY | 8 |

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. Failure to comply with the instructions contained herein could result in personal injury or property damage. We recommend that you keep this booklet 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 40° C (104° F).
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. Do not install the unit where ducts where the airflow can be severely restricted.
8. There should always be an adequate air supply to the vented area.
9. This ventilating fan is approved for use over a bathtub or shower when installed in a GFCI (Ground Fault Circuit Interrupter)-protected circuit. The control device should not be installed within reach of the bathtub or shower.
10. Do not use to exhaust hazardous or explosive materials and vapors.
11. Disconnect the appliance from the power supply before servicing.
12. Do not use this fan with any solid-state control device.
13. This unit must be properly grounded.
14. Do not install in a cooking area. (See Fig.A)

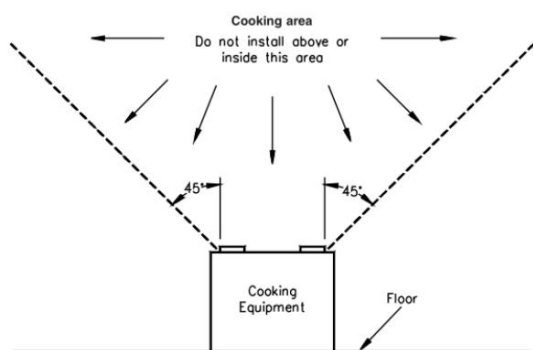


Fig A

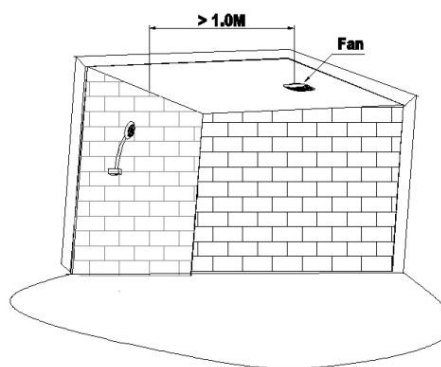


Fig B

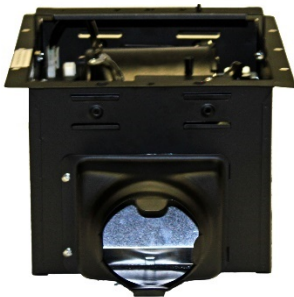
15. To reduce risk of fire and to properly exhaust air, be sure to duct air outside - Do not vent exhaust air into spaces within walls or ceilings or into attics, crawl spaces, or garages.
16. The fan is intended to be mounted at least 7 feet (2.1m) above the floor.

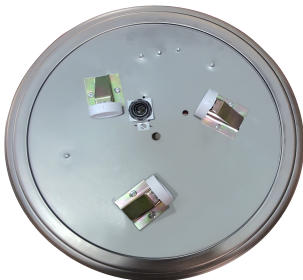
WARNING- TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:


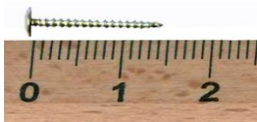

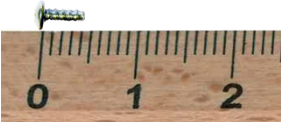
17. Use this unit in the manner intended by the manufacturer. If you have any questions, please call Customer Service.
18. Installation work must be carried out by qualified person(s) in accordance with all local and safety codes, including the rules for fire-rated construction.
19. Sufficient air supply 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 the local building code authorities.
20. Do not install in a ceiling thermally insulated to a value greater than R40.
21. Exercise care not to damage existing wiring and other hidden utilities when cutting or drilling into walls or ceilings.
22. Prior to servicing or cleaning this unit, shut off power supply at the panel and lock to prevent the power from being turned on. If the panel cannot be locked, clearly mark the panel with a warning tag not to turn on the power.
23. If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application. When the fan is going to install in the bathroom, the fan and the tub need to be more than 1.0 meter between each other, the fan required to install at the other side of the tub in ceiling. Acceptable for use over a bathtub or shower when installed in a GFCI protected branch circuit. (See Fig.B)
24. The product is not intended for connection to rigid metal conduit. For flexible conduit use only.
25. Ductwork should be installed in as straight a line as possible, with minimum bends.
26. Ductwork size must be a minimum of the discharge and should not be reduced.





LIST OF INCLUDED PARTS AND ACCESSORIES

NOTE: Unpack and carefully remove unit from carton. Refer to the supplies and parts list to verify that all parts are present.

| Part # | Part Name/Photo | Qty |
|--------|---|-----|
| 1 |  <p>Bath fan housing</p> | 1 |

| Part # | Part Name/Photo | Qty |
|--------|---|-----|
| 2 |  <p>Bath fan grille</p> | 1 |

| Part # | Part Name/Photo | Qty |
|--------|---|-----|
| 3 |  Bath fan shade | 1 |
| M4*30 |  | 8 |
| M4*12 |  | 2 |
| M4*10 |  | 2 |

| Part # | Part Name/Photo | Qty |
|--------|--|-----|
| 6 |  12" Suspension bracket | 2 |
| 7 |  14" Extension bracket | 2 |
| 8 |  Grille and shade mounting hardware | 1 |
| 9 |  GU24-9 W LED bulb | 3 |
| 10 |  Night light bulb | 1 |

LIST OF ADDITIONAL TOOLS/SUPPLIES REQUIRED FOR INSTALLATION

- ☒ Safety glasses
- ☒ 4-in. round duct, elbows if needed, installation tools and other supplies including foil duct tape or 4-in. clamp to secure to fan housing
- ☒ Switch(es) to operate fan and lights
- ☒ Phillips screwdriver
- ☒ Tape measure
- ☒ Utility knife or saw for cutting drywall
- ☒ Wire cutter/stripper
- ☒ Wire nuts
- ☒ Ladder

PLANNING INSTALLATION

When installing the ventilation fan in a new construction site, install the main body of the fan and ductwork during the rough-in construction of the building. The grille should be installed after the finished ceiling is in place. Use the dimensions provided in this manual to determine the required hole size for the ceiling.

The ducting from this fan to the outside of the building has a strong effect on the airflow, noise and energy-use of the fan. Use the shortest, straightest duct routing possible for best performance and avoid installing the fan with smaller ducts than specified in this manual. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated airflow. Do not install the ventilation fan in areas where the ductwork will require configurations as shown in Fig. 1 below.

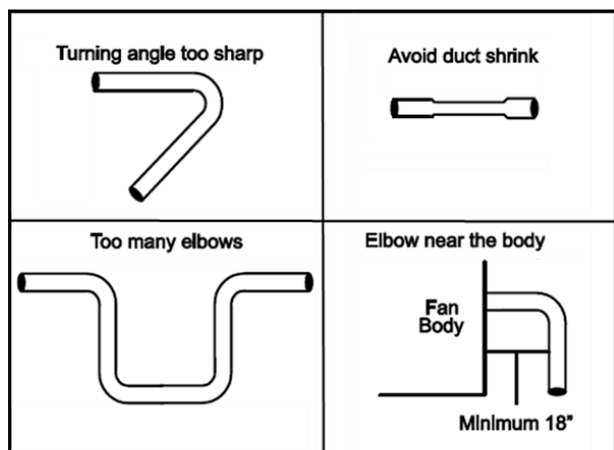


Fig. 1

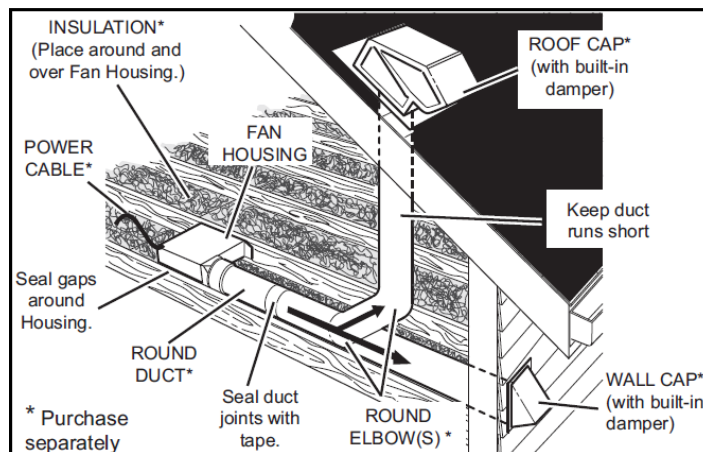


Fig. 2

Recommended installation includes insulating around ductwork and the fan housing to minimize heat loss (see Fig. 2 above). Seal all gaps around the housing with caulk or other similar material to inhibit air leakage to the exterior of the thermal envelope of the building. Rigid sheet metal duct and the shortest path to the outside will minimize static pressure losses and promote adequate air flow.

Sufficient air supply is required for proper combustion and the exhausting of gases 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 the local building code authorities.

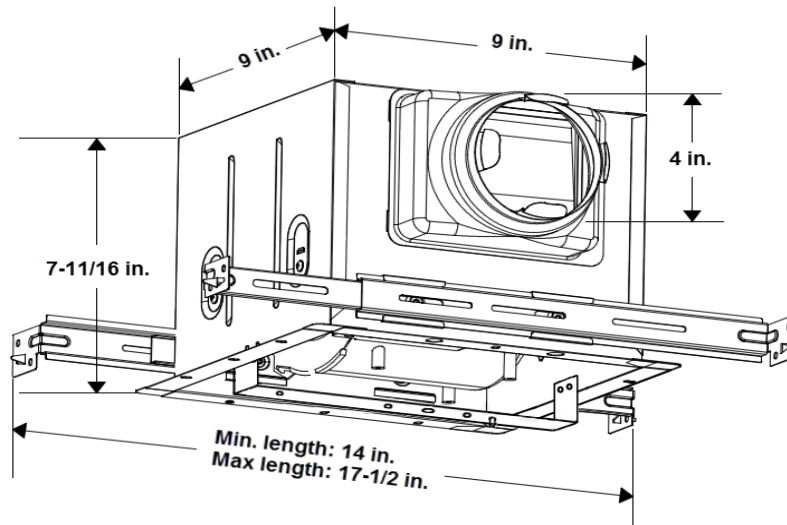
CAUTION: To reduce risk of fire and to properly exhaust air, be sure to duct air outside-Do not vent exhaust air into spaces within walls or ceilings or into attics,crawl spaces,or garages.The marking shall be visible during installation.

SPECIFICATIONS

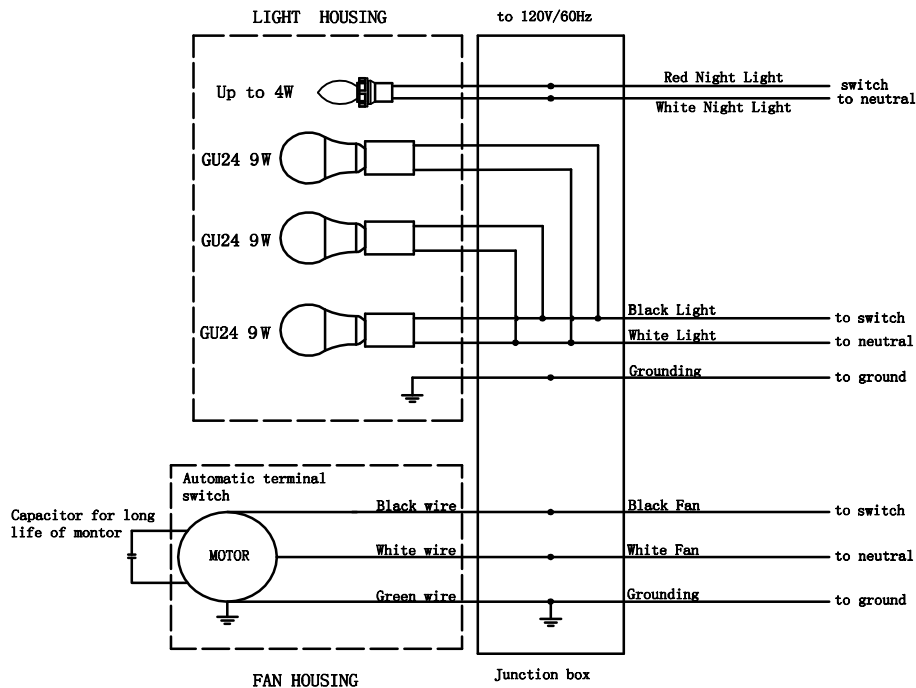
| Model No. | Air CFM | V | Hz | Duct Diameter | Noise (Sones) |
|---------------|---------|-----|----|---------------|---------------|
| BPT14-24AL-11 | 110 CFM | 120 | 60 | 4 in. (10 cm) | 1.5 |

DIMENSIONS

| Ceiling Opening – D | Ceiling Opening – W x L | Housing Dimension – W x L | Housing Dimension - D | Grille Dimension |
|---------------------|--|----------------------------------|--------------------------|-----------------------|
| 8 in. (20.3 cm) | 9 ¼ in. x 9 ¼ in. (23.5 cm x 23.5 cm) | 9 in. x 9 in. (23 cm x 23 cm) | 7 11/16 in. (19.5 cm) | 15 5/16 in (39 cm) |



WIRING DIAGRAM



FAN HOUSING INSTALLATION (DIRECT JOIST MOUNTING OR SUSPENSION BRACKET JOIST MOUNTING)

- Check the area above installation location to be sure that:
 - a. Ductwork can be run and there is sufficient area for proper ventilation;
 - b. Wiring can be run to the planned location (wires from the power supply to the unit should not be smaller than size 14 AWG);
 - c. There will be access to ductwork and wiring for inspection and future maintenance; and
 - d. No wiring or other obstructions will interfere with installation.

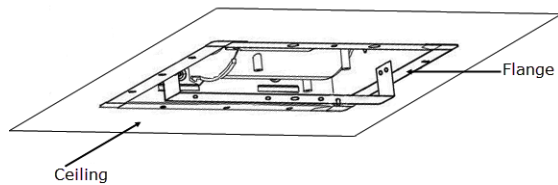
For installation in existing construction:

- 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: Select the location for your fan in the ceiling.

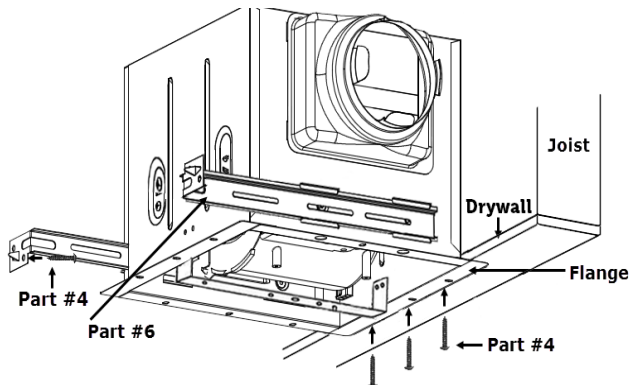
For optimal performance, plan for the shortest possible duct with the fewest elbows.

When positioning fan housing for installation, flange of housing trim ring must be level with the outside of the drywall and visible from the room below.

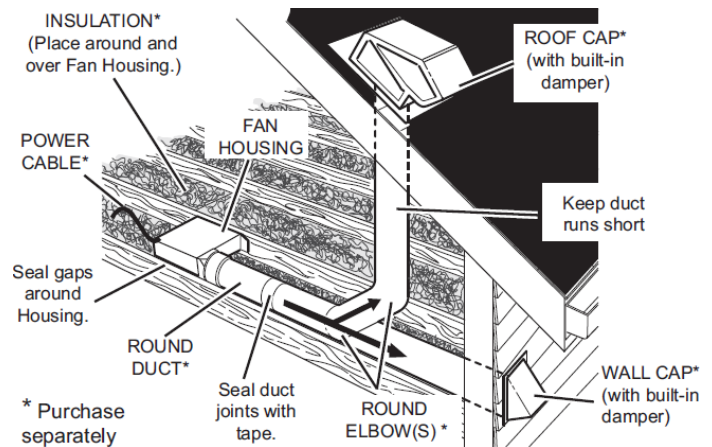
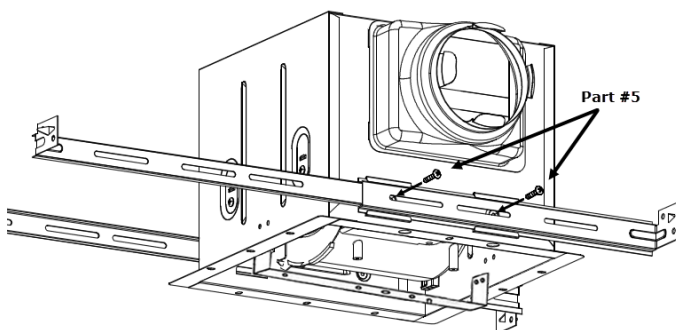


Step 2:

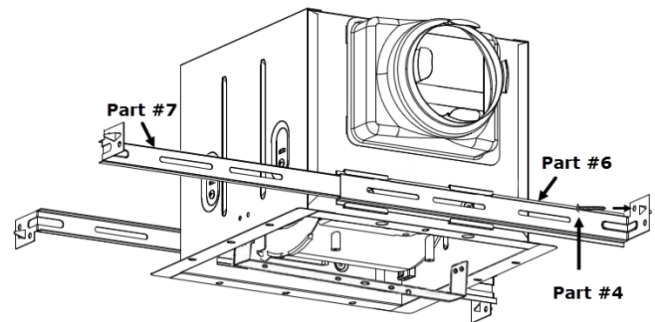
Direct Joist-Mount: Slide suspension brackets (Part #6) into slots in the fan housing. Using wood screws (Part #4), secure housing flange to joist, then secure suspension brackets to joist on other side. If spacing between joists is greater than 16", add extension brackets (Part #7, see diagram right).



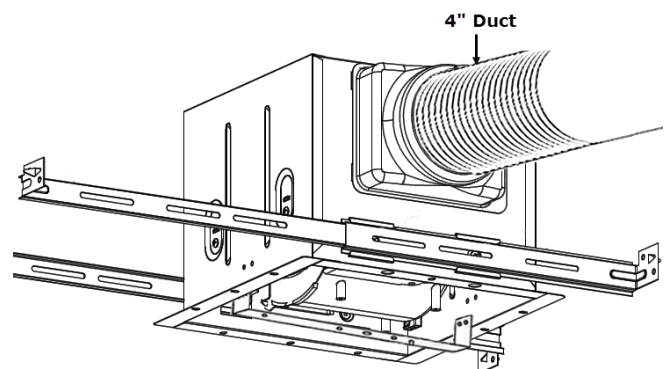
Step 3: To secure brackets to fan housing, insert machine screws (Part #5). Tighten machine screws to prevent housing vibration while fan is in operation.



Suspension Bracket-Mount: Slide suspension brackets (Part #6) into the fan housing. If spacing between joists is greater than 16", use extension brackets (Part #7). Secure brackets to joists on both sides using wood screws (Part #3).

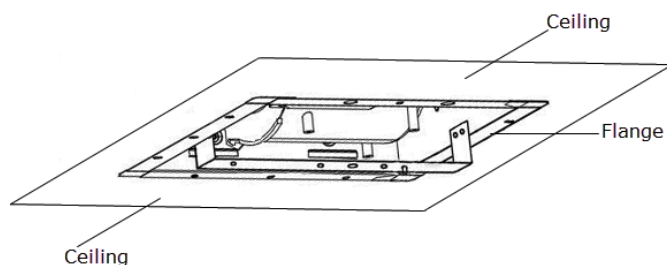


Step 4: Install a 4-in. circular duct and secure to housing with foil duct tape or clamp.

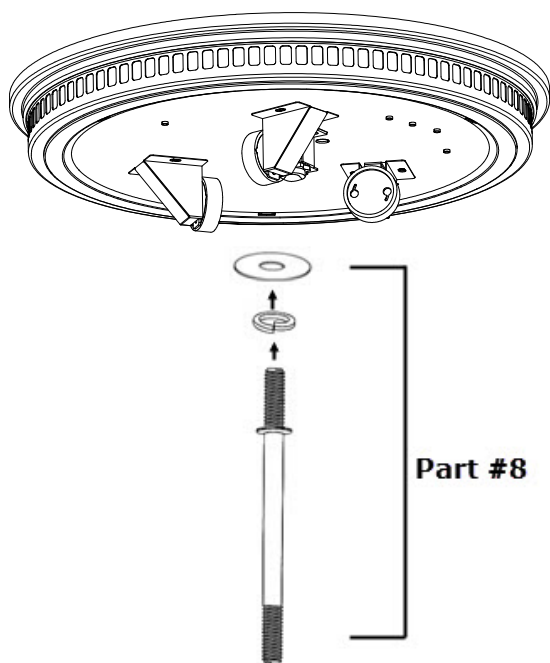


Step 5: Disconnect the power supply before proceeding with Step 5. Run 120V 60Hz house wiring (with ground) from wall switches to fan location. Remove junction box cover and, using wire nuts, connect house wires to unit wires. Refer to Wiring Diagram on page 4.

Step 6: Finish ceiling. Housing rim should overlap the ceiling board and be visible from the room below.

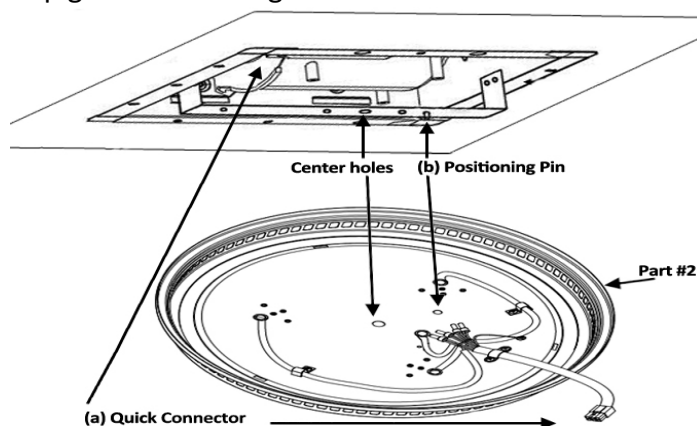


Step 8: Use hardware (Part #8) to secure grille to the fan housing, (a) place washer over center hole on grille, (b) add lock nut, and (c) insert the long bolt and tighten. Attach lightbulbs (Part #9 and Part #10).

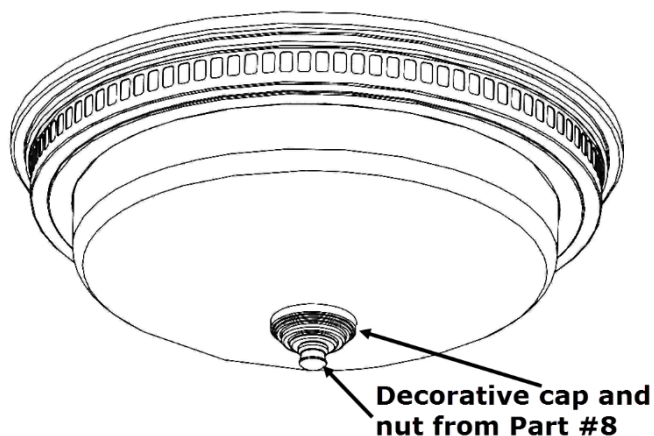


- **Green wires** are ground wires. House ground may be green or bare.
- **White wires** are neutral. They carry power back to the service panel.
- **Black wires** are hot. They carry power from the panel to the fan.
- **Red wire** is night light hot wire. It carries power from the panel to the night light.

Step 7: Before attaching grille (Part #2) to housing, plug quick connector (a) on grille into fan housing receptacle. Position the grille on fan housing, using the positioning pin (b) to guide it into place, and line up grille and housing center hole.



Step 9: Attach shade (Part #3) using decorative plate and nut (Part #8).



CLEANING THE VENTILATION FAN

Disconnect power source before working on the unit. Routine maintenance must be done manually.

Cleaning the unit periodically is advisable since dust, molds, grease, and other dirt particles can affect the conductivity of the air in the unit.

CAUTION

Does not use petrol, 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 60° C (140° F).

Acceptable for use over a bathtub or shower when installed in a GFCI protected branch circuit.

Clean the unit as follows:

- 1) Remove the plastic grille.
- 2) Wash the cover with lukewarm water and use mild detergent such as liquid soap (avoid harsh detergent or boiling water).
- 3) Dry the grille with a cloth or kitchen towel.
- 4) Clean inside of unit with vacuum cleaner (fan housing should not come into contact with harsh chemicals or liquids).
- 5) Put the grille back in place.

WARRANTY

Akicon bath fan Model BPT14-24AL-11 is covered by a 3-year limited warranty. The manufacturer warrants 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 3 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 IS LIMITED TO REPAIR OR REPLACEMENT OF DEFECTIVE PARTS ONLY, AND ANY COSTS RELATED TO SAME SHALL NOT EXCEED THE USER'S COST OF THE PRODUCT. MANUFACTURER ALSO RETAINS THE OPTION OF REFUNDING PURCHASE PRICE AS FULL SETTLEMENT OF ANY WARRANTY CLAIM.

Any changes related to installation, repair, replacement, or damages related to same are excluded.