

A note about our online installation instructions:

Most Modern Fan Co. products have been in our assortment for several years or longer. As we continually work to improve product performance and user experience, we occasionally introduce subtle (and sometimes dynamic) product changes. These can affect the steps associated with assembly and installation of our products depending on when a fan was produced.

The instructions posted here are intended to represent our most current product versions and configurations and the associated installation steps. If your fan or parts of your fan do not appear to match what is included here, please contact customer service for guidance and support in identifying which version of a fan you may have and provision of the associated installation instructions which correspond to that version.

If in doubt, or if you have any questions at all related to assembly, installation or operation of your fan, please contact us!



The Modern Fan Company, Inc.

709 Washington Street, Ashland, Oregon 97520

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Ball Flush

Installation Instructions and Owners Manual



Models: BAL-FM-XX-XX-XX-XX(X)-XXX

Net Weight of Fan: 16 lbs (7.3 kgs)

V2024/02



Please read and save these instructions.

If you have any questions while installing your fan,
call us first!

Customer Service

Monday–Friday, 8am–4pm (PST)

tel 888-588-3267

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Safety Instructions and Warnings

Please read all safety instructions prior to installing your ceiling fan and save this document for future reference. If you are in doubt with any of the information provided, we recommend that you consult or hire a qualified electrician to install your outlet box and ceiling fan.

If you have any questions or difficulty installing your fan, call Modern Fan Co customer service at **(888) 588-3267**.



Warning – To reduce the risk of fire, electrical shock, or personal injury please observe the following:

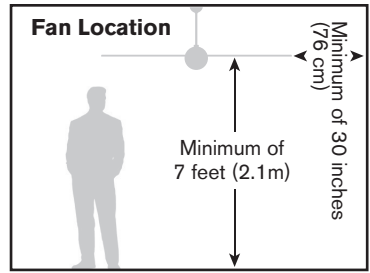
- ▶ Mount fan to outlet box marked “Acceptable for Fan Support” and use mounting screws provided with the outlet box. **Note:** Most outlet boxes commonly used for light fixtures are not acceptable for fan support and may need to be replaced. Consult a qualified electrician if in doubt.
- ▶ Prior to installation or servicing always disconnect the power by turning off the circuit breakers to the outlet box and associated wall switch location. If you cannot lock the circuit breaker in the off position, securely fasten a prominent warning device, such as a tag, to the service panel.
- ▶ Do not bend the blade brackets when installing the blades, balancing the blades, or cleaning the fan. Do not insert foreign objects in between rotating fan blades.
- ▶ Disconnect the electrical supply circuit to the fan before installing light kit.
- ▶ Do not use this fan with any solid-state speed control device other than one provided or approved by the manufacturer.
- ▶ This fan must be installed with an isolating wall control/switch.
- ▶ All wiring must be in accordance with national and local electrical codes ANSI/NFPA 70. If you are unfamiliar with wiring, use a qualified electrician.
- ▶ Use this unit only in the manner intended by the manufacturer. If you have any questions contact the Modern Fan Co at (888) 588-3267.
- ▶ Use only Modern Fan Co replacement parts.

Note: This fan is rated and marked as “Suitable for use in Damp Locations.” This fan is suitable for installation in locations protected from weather and subject to moderate degrees of moisture, such as some basements, barns, cold storage warehouses, and similar locations, and also partially protected locations such as under canopies, marquees, roofed open porches, and similar locations. This is not rated, nor intended for use in applications classified as Wet Locations.

Installation Preparation

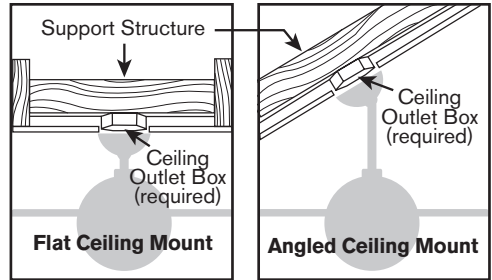
WARNING

Make sure the installation site you choose allows the fan blades to rotate without any obstruction. Allow a minimum clearance of 7 feet (2.1 meters) from the floor to the blades and 30 inches (76 cm) from the wall to the end of the blades.




WARNING

Your new ceiling fan will require a grounded electrical supply line of 120 volts AC, 60 Hz, 15 amp circuit. The outlet box must be securely anchored and capable of withstanding a load of 35 lbs (15.9 ww kg).





Control Installation, Wiring & Remote Control Handset

 **WARNING** If you are using an outlet box for wall control installation, the wires coming from the wall control must be grounded using the attached green wire.

After making wire connections, the wires should be spread apart with the grounded conductor and the equipment-grounding conductor on one side of the outlet box and the ungrounded conductor on the other side of the outlet box.

The splices after being made should be turned upward and pushed carefully up into the outlet box.

 **WARNING** This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) the device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

 **WARNING** (For configurations that include a handheld remote control)

- ▶ **INGESTION HAZARD:** This product may contain a button cell or coin battery.
- ▶ **DEATH** or serious injury can occur if ingested.
- ▶ A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- ▶ **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**.
- ▶ **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



(1) Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate. (2) Even used batteries may cause severe injury or death. (3) Call a local poison control center for treatment information. (4) This device uses a **CR2032** battery rated at **3.0 volts**. (5) Non-rechargeable batteries are not to be recharged. (6) Do not force discharge, recharge, disassemble, heat above **60°C or 140°F** or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns. (7) Ensure the batteries are installed correctly according to polarity (+ and -). (8) Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries. (9) Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations. (10) Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

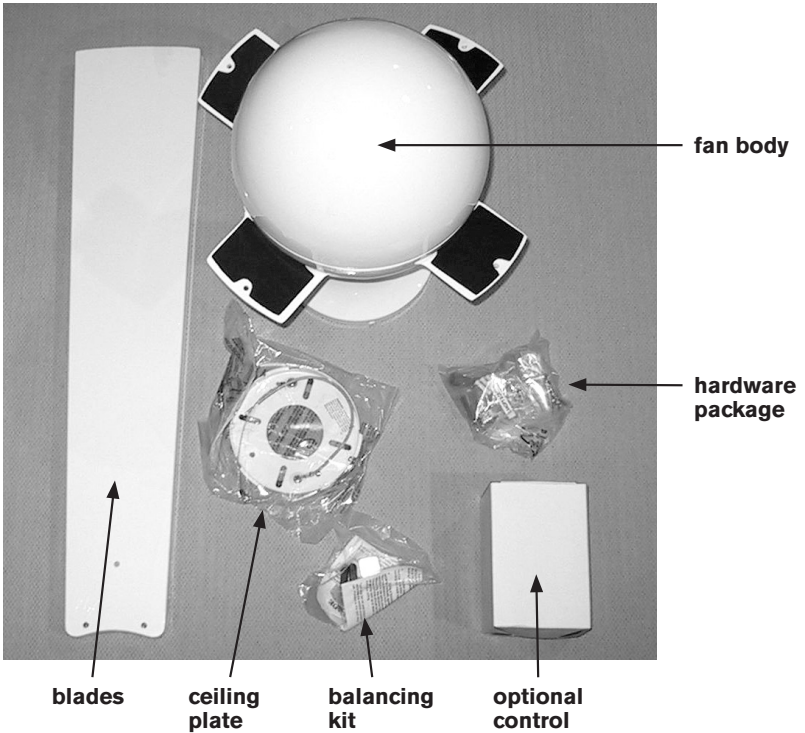
Fan Installation

Tools Needed

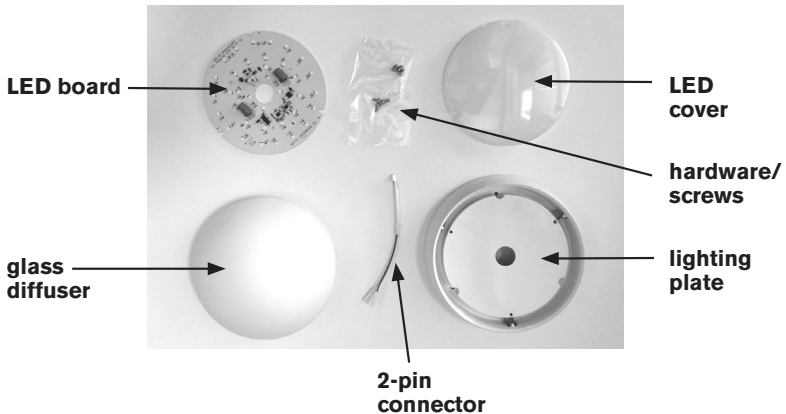
A stepladder, phillips head screwdriver and a wire stripper

Instructions

- 1 Remove and identify contents of carton.



Optional Light Kit parts:



See Page 2
WARNING

Circuit Breaker
POWER OFF

- 2** Place fan on work area, bottom side up. Remove bottom dome by rotating counterclockwise. You may need to hold the upper portion of the fan body with one hand as you are removing (unthreading) the bottom dome with the opposite hand.



- 3** Carefully insert blades into rotor slots, and using screws from hardware package, secure blades to rotor. The counter sink screws ("blade center screws") are for the single blade hole outside the rotor and the pan head screws ("blade holder screws") are for the two holes inside the rotor area for each blade.

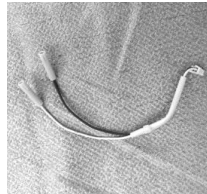


- 4** If your fan was ordered/configured with a light, identify all parts as shown here and follow steps **(a)** through **(e)**. Otherwise, proceed to **Step 5**.

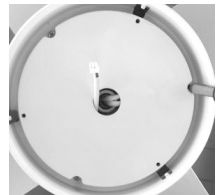
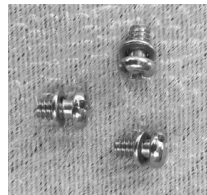
(a) Remove switch housing by unscrewing and removing three screws as shown here. Set the screws aside for reinstallation at step **(c)**.



(b) Depending on when your fan was produced, a 2-pin connector may already be present. If so, skip to step **(c)**. If your fan has separate wire connectors, join the bridge connector ends with light kit lead wires from fan.



(c) Route 2-pin connector through center hole of lighting plate and secure with screws from step **(a)**. Be sure that all wires are inside the outer edges of the switch housing.

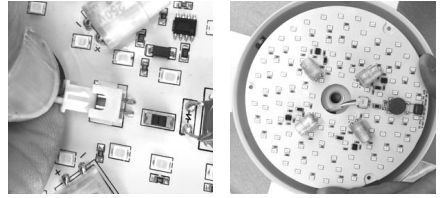


Fan Installation *(continued)*

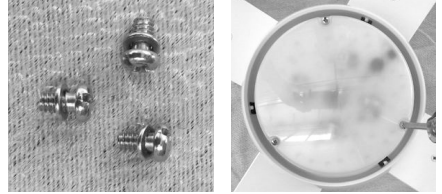
See Page 2
WARNING

**Circuit Breaker
POWER OFF**

(d) Route 2-pin connector through the center hole of LED board and insert into terminal block near the center hole. Position LED board flat on lighting plate so that three cutouts are positioned over attachment holes. Feed any excess wire back into area behind lighting plate.

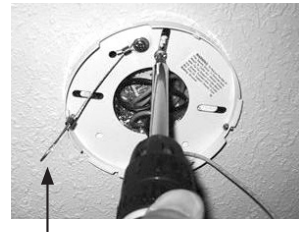


(e) Position LED cover over LED board so that attachment holes are aligned with cutouts and holes in adapter plate. Using three additional, small pan head screws included with hardware pack, secure LED cover and LED board to adapter plate.



Note: You may store the switch housing from step (a) and the bottom dome from **Step 2** for re-use in the future should you ever decide to remove your light kit.

- 5 Using the existing screws provided with your junction box, secure the mounting plate to the ceiling junction box. Junction box must be visibly marked as “Acceptable for Fan Support.” It is recommended that the flat washers and lock washers from the hardware pack be used for added security. Electrical supply wires should remain accessible through the center hole in mounting plate.



suspension cable and loop

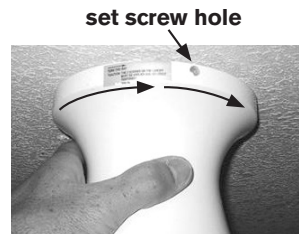
- 6 Secure suspension cable loop around the hook inside the top of the fan body.

With fan safely suspended by cable, make wire connections with wire nuts included in hardware package as described in the **control installation instructions**. If using the optional #003, #004 or #005 control, the receiving unit should be connected at this time and placed inside the top of the fan.



hook

- 7 Lift fan body and carefully align collar with ceiling plate. Tabs on ceiling plate should seat into channel on inside of fan collar. Rotate fan so that set screw holes on fan body align with set screw holes on ceiling plate.

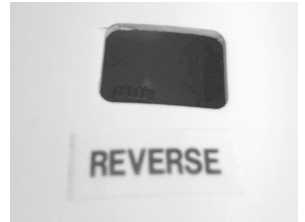


set screw hole

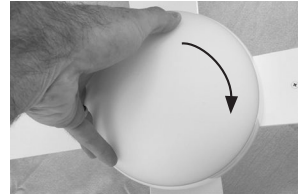
- 8** Insert and firmly tighten three set screws.
Hint: do not tighten down set screws until all three are partly screwed in.



- 9** Your fan is reversible for summer and winter operation. The reverse switch is located just inside the labeled opening on the upper motor housing. The LEFT position is for summer and the RIGHT position is for winter.



- 10** Reinstall bottom dome or glass diffuser if your fan has a light kit. Rotate in the clockwise direction until dome or diffuser comes to a stop.



- 11** Install wall control as described in the control installation instructions (unless you are using the handheld remote control only).

- 12** The rotor and motor of your fan have been dynamically balanced at the factory. In addition, the blades have been matched to the nearest gram to ensure a well balanced ceiling fan. Furthermore, a blade balancing kit has been included with your fan. Please refer to the instructions packaged with the balancing kit should your fan require additional balancing.

Control Installation and Wiring



When ordering your fan, you should have selected the control that was most appropriate for your fan, electrical requirements and desired functionality.

Controls are intended for use with one fan (except #FC-009A/009B as noted).

Control Options



#FC-001 Fan Speed Control

A basic fan control used to operate one fan only, providing four speeds.

Note: *Not compatible with remote control.*



#FC-004-LED Two Wire Fan Speed & Light Control

Designed for independent operation of a fan and light using only one circuit (two wires). Provides three speeds and full range dimming (or “on/off” switching) and wires into wall box. Includes wall control, switch plate and receiver.



#FC-002 Three Wire Fan Speed & Light Control

For operation of one fan with light. Requires two circuits (three wires). Provides four speeds and dimming of light.

Note: *Not compatible with remote control.*



#FC-005-LED Two Wire Wall Control with Remote Handset

A combination control set providing three speeds and full range dimming (or “on/off” switching) from wall control and/or remote handset. Includes one receiver, a remote handset with mounting bracket, battery and wall control with switch plate.

Note: *Refer to page 3 for button cell or coin battery warnings.*



#FC-003-LED Handheld Remote Control

Designed for independent operation of a fan and light using only one circuit (two wires).

Provides three speeds and full range dimming (or “on/off” switching). Includes handset, receiver, battery and comes with a wall mounting bracket for handset.

Note: *Refer to page 3 for button cell or coin battery warnings.*



#FC-009A/009B Multi-Fan Control

(sold separately from fans)

A three speed fan control designed to control two fans (#009A) or three to five fans (#009B) on a single circuit. Separate control/switching of lights must be planned if this control is to be used for fans with lights. For AC motors only.

Note: *Not compatible with remote control.*

See Pages 2-3
WARNING

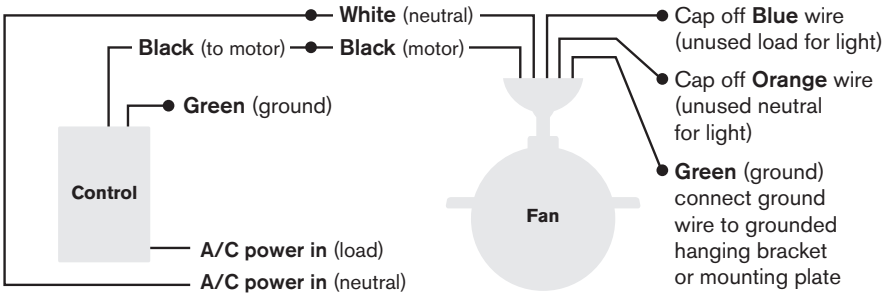
WARNING!! Power must be disconnected at circuit breaker prior to any contact with electrical wires.

Wiring

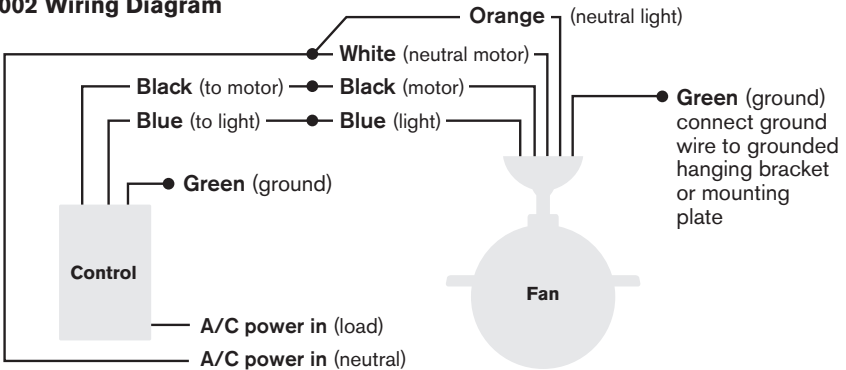
With power turned off at breaker, make wire connections from the fan to the power supply at the ceiling and from the control to power at wall box as shown in the wiring diagrams below.

Note: For #FC-009A or #FC-009B, refer to printed instructions included in control box/packageing.

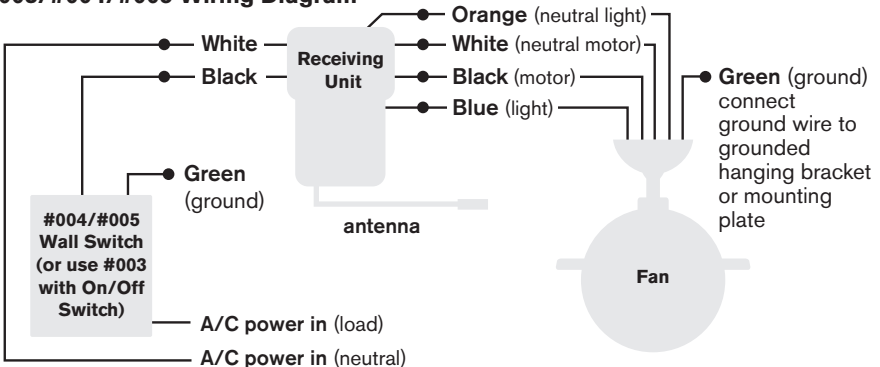
#FC-001 Wiring Diagram



#FC-002 Wiring Diagram

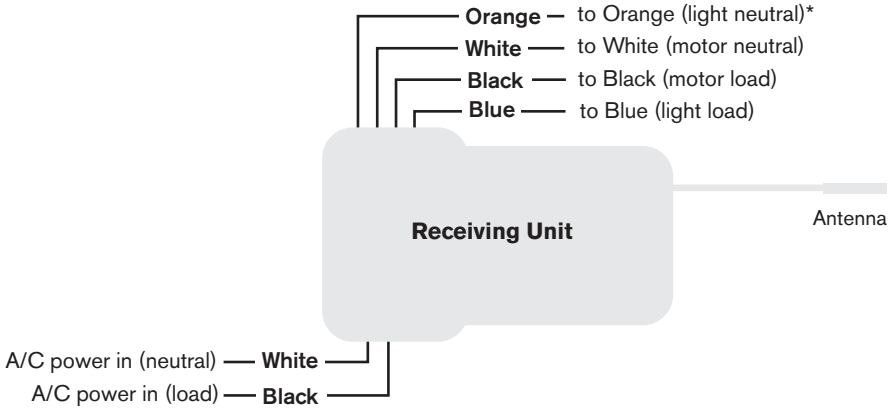


#FC-003/#004/#005 Wiring Diagram



Receiving Unit Wiring Detail (for #003, #004 and #005 only):

With fan suspended from ceiling and with power off at breaker box, make wire connections as shown below.



* If fan does not have orange wire, cap orange wire from receiving unit.

Receiving Unit Placement

The receiving unit sits in the top of the fan body as shown below. While there is ample room for the receiving unit as shown here, the wires can sometimes become difficult to manage in the space available. Trimming excess wire before making connections can ease wire management.

Tip: *Splicing lighter gauge wire to the power supply and positioning the heavier wires up into the junction box can also ease wire management.*



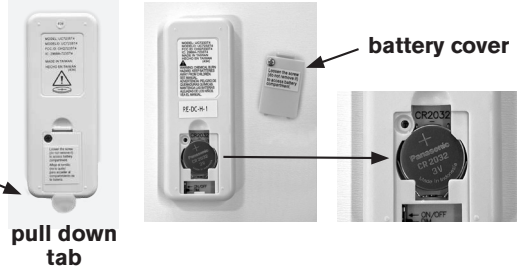
See Pages 2-3
! WARNING

Control Pairing: (for #FC-003, #FC-004 and #FC-005 only)


Once installed, you must pair your remote handset and/or wall control with the receiver. Begin by confirming that power is off at the wall control, at the main switch leg, or at the circuit breaker if there is no wall control or on/off switch in use.

Depending on the date of shipment, your battery may be pre-installed in the remote handset. If there is a tab extending down from the battery cover, pull down to remove the tab, which will activate the battery.

If your battery has not been pre-installed, remove battery cover from remote handset and install battery as pictured here.

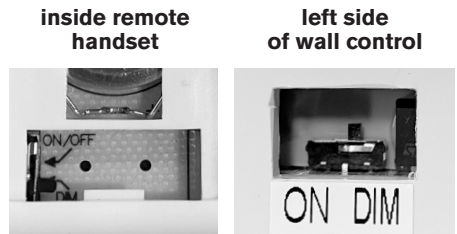


Note: Refer to page 3 for button cell or coin battery warnings.

Turn the power supply on. The fan should start spinning initially. Immediately press and continuously hold down the **FAN OFF** button . After approximately 5 seconds, the fan will begin to slow down and if your fan has a light, it will flash on, then off again. Either of these actions indicates that you have successfully paired your control, at which point, you can let go of the **FAN OFF** button. If using both a remote handset and a wall control with your fan, repeat these pairing steps with the second device.

Dimming Selector Switch: (for #003, #004 and #005 only)

The remote handset and wall control ship pre-set for “dimming” operation of the light. Pressing and releasing the **LIGHT** button will turn the light on and off. Pressing and holding the **LIGHT** button will increase or decrease brightness continuously until you let go of the button. To disable dimming function on either the wall control or the remote handset, move the dip switch(es) pictured here from **Dim** to **On/Off** or from **Dim** to **On**. These dip switches are located inside the battery cover of the remote handset and on the side of the wall control.



Timer Operation: (for #FC-003 and #FC-005 only)

If your fan was ordered with a remote handset, you have the option to set a timer for 1, 2 or 4 hours respectively. With the fan (and light) set to your desired setting, pressing any of the timer buttons will turn the fan (and light) off after the corresponding time has passed. Initially, upon pressing a timer button, the fan will speed up and then return to the original speed setting. Likewise, the light will flash full brightness then reset to previous setting. Any command sent to the fan (speed change or light setting) from your handset or a connected wall control will inactivate the timer function.

Troubleshooting

Please read all installation instructions carefully. After reviewing the following troubleshooting tips, if you are unable to solve a problem with the installation or operation of you fan, please contact customer service for additional assistance.

IMPORTANT: Do not return a fan or fan parts without first contacting us for troubleshooting assistance.

If we are unable to resolve a problem over the phone, a replacement fan or part will be provided and a prepaid shipping label will be issued for returning the defective product. Returns cannot be accepted without a Company issued return label.

For the return of non-defective, un-installed merchandise, please contact your dealer.

Often, noises such as ticking or humming can be caused by loose parts or structural factors in the ceiling. Please double check that all screws and parts are firmly tightened, including the outlet box from which the fan is hung. Next, review the troubleshooting tips listed below.

As stated in the warranty, Modern Fan Co. is not liable for costs incurred related to installation labor or equipment. Be sure to test all functions of your fan, and if need be, contact customer service while your contractor/electrician is still on site.

Troubleshooting Checklist

Blades don't turn...

- Check that the reverse switch is firmly in one position (Forward or Reverse).
- Check wire connections at ceiling and wall control.
- Verify that there are no physical obstructions preventing motor & blades from spinning (push blades by hand to confirm that they spin freely).
- Confirm power has been turned on at circuit breaker and wall switch.

Light doesn't work in the on position...

- Check wire connections at ceiling and wall control.
- Be sure lamp is screwed in completely so that base touches contacts or if equipped with a flat LED board, confirm that wire terminals are properly connected.

Fan wobbles...

- Make sure hanging bracket and mounting hardware at ceiling is secure and firmly fastened.
- Be sure ridge in hanging bracket is seated in the half-ball slot.
- Check that stopper screw (or stopper pin) and set screws are firmly tightened where down rod is attached to the fan body.
- Remove and reinstall two blades in opposite positions.
- Use blade balancing kit as instructed.

Note: blade sets should not be inter-mixed as they are weight matched when packaged together.

Fan makes repetitive ticking noise...

- Check for obstructions in rotor path.
- Make sure mounting hardware at ceiling is secure.
- Make sure all other hardware and blade attachments are tight.
- Give fan adequate “break in period” of several hours to several days then repeat steps above.

Fan makes humming noise...

- Be sure you are using a fan speed control with specific speed settings. Rheostats or continuous dimmers will cause motor noise.
- Be sure that all fittings (light kit, bottom dome, canopy, etc.) are firmly secured. Loose parts will often cause vibrational noise or humming. Removal and re-attachment can sometimes remedy such resonant vibrational noise.

Fan (or light) not responding to hand-held remote or wall mounted RF signal...

- Check that all wire connections are secure and made as instructed.
- Verify that power is on and reaching the receiver (using a voltmeter).
- Review and repeat pairing instructions.
- Be sure to firmly press the center area of the buttons on you handset or wall control.
- Verify that batteries are installed with proper polarity as indicated inside battery cover.

Unable to operate fan and light independently...

- Be sure you are using a control designed for a fan with light.
- Verify that wire connections at ceiling and wall are made as instructed.

Customer Service

Monday–Friday, 8am–4pm (PST)

tel 888-588-3267

info@modernfan.com



Maintenance



Before servicing or cleaning your fan, 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.

- Your fan uses maintenance free, sealed bearings. There is no need to lubricate the motor bearings or inner shaft.
- It is recommended that you inspect your fan at least annually to confirm that all blade screws and mounting hardware remain securely fastened as when originally installed.
- Periodic surface cleaning may be necessary depending on the amount of dust and particulate accumulation on the blades and surfaces of your fan. Use a damp cloth. If necessary, a light, non-abrasive soap solution may be used.
- If installed in a coastal, humid environment, regular surface cleaning may be necessary in order to avoid deterioration or oxidizing effects of salt or other corrosive elements. A Damp Location rating is not an assurance of finish durability. Preventative measures should be taken dependent on the environmental exposures your fan will undergo in order to preserve and protect the finish quality and appearance of your fan.
- If a wobble develops over time, you may need to rebalance your fan following the instructions that were included with the balancing kit. If the blades have warped, twisted, bent or become uneven in weight distribution, replacement blades may be the best course of action and can be purchased by contacting The Modern Fan Co. directly.
- If a noise develops over time (clicking, ticking, humming or otherwise), refer to the troubleshooting section of this manual (pages 12-13). If you are unable to remedy the issue, contact Modern Fan customer service for further assistance.

Use this unit only in the manner intended by the manufacturer. If you have any questions contact The Modern Fan Co.

Customer Service

Monday–Friday, 8am–4pm (PST)

tel 888-588-3267

info@modernfan.com



Lifetime Limited Warranty

All products manufactured and sold by The Modern Fan Co. meet the highest industry standards. We use only the finest materials and production processes resulting in quality ceiling fans backed by the following warranty:

Motors (dry locations):.....	Lifetime
Motors (damp locations):	10 years
Light Kits:.....	3 years
Component Parts (switches, capacitors, blades):	1 year
Finishes:	1 year
Wall and remote controls:.....	1 year

Limitations:

- This warranty covers failure of fan due to defect(s) in materials or workmanship and does not apply to defects, malfunctions or failures which are caused by repairs by persons not authorized by us, use of parts or accessories not authorized by us, mishandling, improper installation, modifications or damage to the fan while in your possession, or unreasonable use.
- This warranty applies only to products sold and installed within the United States.
- This warranty extends only to the original user or consumer purchaser of the ceiling fan.
- This warranty applies to private residential use of ceiling fans only. Use of products in commercial applications is backed by a 10-year “motor” warranty. All other aspects of this warranty remain the same.
- This warranty only covers the replacement or repair of ceiling fan or parts as specified above, and does not cover any other costs incurred related to installation labor or equipment, or shipping of fan or fan parts.
- No other expressed warranty is given. The repair or replacement of a product is your exclusive remedy. Any implied warranty of merchantability or fitness is limited to the duration of this written warranty. In no event shall the Company be liable for consequential or incidental damages. Some states do not allow exclusion or limitation of consequential or incidental damages, so the above exclusions or limitations may not apply to you.

Claims:

Prior to submitting a claim for a defective or failed fan, or prior to removal of your fan from its installation location, please contact customer service (888-588-3267) for troubleshooting assistance. Often our personnel can diagnose the cause of a nonfunctioning fan and provide either operational instructions, or replacement parts/components that don't require your fan be removed from the ceiling.

If we are unable to remedy the problem in this way, upon receipt of proof of purchase (including date and location of sale), we will provide the necessary replacement parts or fan as specified by this warranty, or provide instructions and an authorization for return of the product for diagnosis, repair or replacement.



The Modern Fan Company, Inc.

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