

## Lifetime

The Minka-Aire® warranty is for one (1) year from the date of purchase from an authorized Minka-Aire® dealer. This warranty is only valid to the original purchaser or user against all defects in material and workmanship (light bulbs excluded) for one (1) full year. Additionally, Minka-Aire® warrants the motor only for the lifetime of the Minka Aire ceiling fan (excluding wall controls and electrical components), to the original purchaser or user.

* The warranty is voided with the use of any non- Minka-Aire®electrical devices, e.g., wall controls or electrical dimmer switches, etc...
* The warranty is void once the original purchaser or user ceases to own the fan or the fan is moved from its original point of installation.
* The warranty is void with the use of any hanger bracket (non-Minka Aire or non-fan specific) other than the hanger bracket supplied \& installed with this specific fan.


## Warranty Service Information

To obtain warranty service during the warranty period, the purchaser should return the fan with the sales receipt to the original place of purchase. The authorized Minka-Aire ${ }^{\circledR}$ dealer, at its sole discretion, will either repair or replace the fan after verifying the legitimacy of the warranty claim. Replacement is subject to availability of the same model. If the model is unavailable it will be replaced by one of equal value. This is a limited warranty; the original purchaser or user is responsible for the cost of removal and reinstallation of repaired or replacement product.

To obtain the name of the Minka-Aire ${ }^{\circledR}$ authorized dealer nearest you call the Minka-Aire ${ }^{\circledR}$ customer care department at 1-800-307-3267, or contact Minka-Aire ${ }^{\circledR}$ through www.minkagroup.net and select FAQ to answer any questions or if you require additional assistance submit the question form found there.

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## 1 SAFETY RULES

1. Before you begin installing the fan, shut power off the circuit breaker of the fuse box.
2. Be cautious! Read all instructions and safety information before installing your new fan. Review accompanying assembly diagrams. 3. Make sure that all electrical connections comply with local codes, ordinance, or National Electrical Codes, ANSI/NFPA 70. Hire a qualified electrician or consult a do-it-yourself wiring handbook if you are unfamiliar with installing electrical wiring. 4. Make sure the installation site you choose allows the fan blades to rotate without any obstructions. Allow a minimum clearance of 7 feet from the floor and 18 inches from the top of the blades to the wall.
3. If you are mounting the fan to a ceiling fan outlet box, use a U.L Listed metal octagonal outlet box marked"Acceptable For Fan Support". Secure the box directly to the building structure. The outlet box and its support must be able to support the moving weight of the fan (at least 50 pounds). Do not use a plastic box.
4. Caution: To reduce the risk of injury use only the screws provided with the outlet box in conjunction with the lock washers provided with the fan.
5. If you are mounting the fan to a joist, make sure it is able to support the moving weight of the fan (at least 50 pounds).
6. After you install the fan, make sure that all mounting components are secured to prevent the fan from falling.
7. Do not insert anything into the fan blades while the fan is operating.
8. Turn the fan off and wait for the blades to stop completely before performing any maintenance or cleaning.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution and care are factors which cannot be built into this product. These factors must be supplied by the person(s) installing, caring for and operating the unit.

## NOTE: READ AND SAVE ALL INSTRUCTIONS!

## WARNING

TO REDUCE THE RISK OF FIRE,ELECTRIC SHOCK OR OTHER PERSONAL INJURY, MOUNT FAN ONLY TO A U.L LISTED OUTLET BOX OR SUPPORTING SYSTEM MARKED ACCEPTABLE FOR FAN SUPPORT AND USE MOUNTING SCREWS PROVIDED WITH THE OUTLET BOX IN CONJUCTION WITH THE LOCK WASHERS PROVIDED WITH THE FAN. MOST OUTLET BOXS COMMONLY USED FOR THE SUPPORT OF LIGHTING FIXTURES ARE NOT ACCEPTABLE FOR FAN SUPPORT AND NEED TO BE REPLACED. CONSULT A QUALIFIED ELECTRICIAN IF IN DOUBT.

TO REDUCE THE RISK OF PERSONAL INJURY, DO NOT BEND THE BLADE HOLDERS WHILE INSTALLING BALANCING THE BLADES OR CLEANING THE FAN. DO NOT INSERT FOREIGN OBJECTS BETWEEN ROTATING FAN BLADES.

TO REDUCE THE RISK OF FIRE OR ELECTRONIC SHOCK, THIS FAN ONLY CAN USE DL-1170FCS-19 SOLID-STATE SPEED CONTROL WITH SW-T0004 REMOTE CONTROL ONLY.

## PACKAGE CONTENTS

Unpack your fan and check the contents. You should have the following items:

1. Fan blades (3)
2. Waterproof plastic plate
(Note: The waterproof plastic plate on the hanger bracket is necessary for outdoor use. Do not remove it.)
3. Hanger bracket
4. Canopy
5. Canopy cover
6. Standard downrod assembly(6")
7. Coupling cover
8. Fan motor/housing assembly
9. Switch cup
10. Transmitter + holder $+2^{*}$ mounting screws +2*1.5V 3A Battery
11. Receiver (1) + wire nuts (9)
A. Mounting hardware:

Wire nuts(3)
\#8×3/4"Machine screws (2)
\#10x1.5 Wood screws (2)
4 mm Star washers (2)
Metal washers (2)
Lock washers (2)
B. Blade attachment hardware:
$3 / 16^{\prime \prime} \times 8 \mathrm{~mm}$ screws ( $9+1$ spare)
Rubber washers ( $9+1$ spare)
C. Balancing kit (1)
D. Rubber cap (1)


Tools Required: Philips screw driver, slotted screw driver, step-Iadder, wire cutters, electrical tape.

## MOUNTING OPTIONS

If there isn't an existing mounting box, then read the following instructions. Disconnect the power by removing fuses or turning off circuit breakers.
Secure the outlet box directly to the building structure. Use appropriate fasteners and building materials. The outlet box and its support must be able to fully support the moving weight of the fan (at least 50 lbs .). Use a UL listed metal outlet box.
Do not use a plastic outlet box.
Figure1,2 and 3 are examples of different ways to mount the outlet box.
Note: You may need a longer downrod to maintain proper blade clearance when installing on a steep, sloped ceiling. Longer downrods are available from your Minka-Aire ${ }^{\circledR}$ dealer. To hang your fan where there is an existing fixture but no ceiling joist, you may need to install a hanger bar as shown in Fig.4(available at your Minka Aire ${ }^{\mathbb{Q}}$ dealer or local hardware store).


## HANGING THE FAN

WARNING: All of the parts, hardware and components such as the hanger bracket and hanger ball have been provided for your safety and the proper installation of your new ceiling fan. The use of other parts hardware or components not supplied by Minka Aire ${ }^{\circledR}$ with the fan will void the Minka Aire ${ }^{\circledR}$ Warranty.
REMEMBER to shut the power off at the circuit breaker or fuse box. Step 1.Secure the hanger bracket to the ceiling outlet box using screws and washers included with mounting hardware.(Fig.5)
Note: The waterproof plastic plate on the hanger bracket is necessary for outdoor use. Do not remove it.
Step 2.Loosen the two set screws and remove the hitch pin and lock pin from the top coupling of the motor assembly.(Fig. 6)

Step 3.Remove hanger ball from downrod assembly by loosening set screw, removing the cross pin, and sliding ball off rod.(Fig. 7)

Step 4. Carefully feed the fan wires up through the downrod. Thread the downrod into the fan motor assembly coupling. Line up the holes and replace the lock pin and the hitch pin. Retighten the fan motor assembly coupling set screws. (Fig.8\&9)

Step 5. Slip the coupling cover, canopy cover, and canopy onto the downrod. Carefully reinstall the hanger ball onto the downrod, and ensure that the cross pin is in the correct position, the set screws are tight, and the wires are not twisted. Carefully feed fan wires through the holes in the rubber cap and make the rubber cap cover the hanging ball. (Fig.9)
Step 6. Now lift motor assembly into position and place hanger ball into hanger bracket. Rotate until the check groove has dropped into the registration slot and seats firmly.(Fig 10)Rod should not rotate if this is done correctly.


## ELECTRICAL CONNECTIONS

WARNING: The use of Dimming devices not compatible with ceiling fans will cause unwanted behavior including loud humming and will cause permanent damage to you fans electrical component.

WARNING: To avoid possible electrical shock be sure electricity is turned off at the main fuse or breaker box before wiring.
NOTE: The Aire Control® System for this DC motor fans is equipped with a learning frequency function which has 1024 code combinations to prevent potential interference from other remote units.
The frequency on your Receiver and Transmitter units have been preset at the factory. (Fig. 11) No frequency change is necessary, should you desire to install another Minka Aire DC motor fan within the same home or area with a separate frequency code please see the 'frequency interference' troubleshooting section of this instruction manual to learn how to change the frequency.


Step 1. Insert the receiver into the mounting bracket with the flat side of the receiver facing the ceiling. (Fig. 12)

Step 2. Motor to Receiver Electrical Connections:
Connect the WHITE wire from the fan to the WHITE wire marked" Light $\mathrm{N}^{\prime \prime}$ from the Receiver. Connect the BLUE wire from the fan to the BLUE wire marked "Light L" from the Receiver.
Connect the YELLOW wire from the fan to the YELLOW wire marked" MOTOR $1^{\prime \prime}$ from the Receiver.
Connect the RED wire from the fan to the RED wire marked" MOTOR 2" from the Receiver.
Connect the GREY wire from the fan to the GREY wire marked" MOTOR $3^{\prime \prime}$ from the Receiver. (Fig.13)
Step 3. Receiver to House Supply Wires Electrical connections: Connect the WHITE wire(Neutral) from the outlet box to the WHITE wire marked "AC in $\mathrm{N}^{\prime}$ from the receiver.
Connect the BLACK wire(Hot) from the outlet box to the BLACK wire marked "AC in L" from the receiver.(Fig.13)

Step 4. If your outlet box has a GROUND wire (Green or Bare Copper), connect this wire to the Hanger Ball and Hanger Bracket and receiver Ground wires. If your outlet box does not have a Ground Wire, then connect the Hanger Ball and Hanger Bracket and Receiver Ground Wire together.Secure wire connection with the plastic wire nut provided.(Fig.13)

After all splices are made, check to make sure there are no loose strands.As an additional precaution we suggest to secure the plastic wire connectors to the wires with electrical tape.


FINISHING THE INSTALLATION

Step 1. Tuck connections neatly into ceiling outlet box.
Step 2. Remove one screw from the hanger bracket and loosen the other screw around 1/4"
Step 3. Align the canopy up to ceiling and over the loose screw. Place the canopy into key hole and rotate canopy clockwise. (Fig. 14)
Step 4.Secure the canopy by use previous removed screw.
Step 5. Place the canopy cover to the canopy and rotate canopy cover clockwise until it is locked into right position. (Fig. 14)

Align the 3 holes from the blade to the blade arm. Secure blade with 3 blade screws and rubber washers provided. Follow the same process for the remaining two blades. (Fig.15)

All blade sets are grouped together by weight.
NOTE: When installing the blades, ensure the sides with
"THIS SIDE UP" tace the "THIS SIDE UP" face the ceiling.


## OPERATING THE REMOTE CONTROL/WALL CONTROL

Remote Control only: Install two 3A 1.5 volt batteries (included). To prevent damage to transmitter remove the battery if not used for long periods of time.

Your DC brushless motor is equipped with a self earning frequency function remote control. Restore power to ceiling fan and test the transmitter as below for proper operation:
A. 1, 2, 3, 4, 5 and 6 button:

These six buttons are used to set the fan speed as follows:
1 = minimum speed
2 = low speed
3 = medium low speed
4 = medium speed
5 = medium high speed
$6=$ high speed
B. $\leftrightarrows$ Reverse button:

This button is used to change the direction of the rotation of the blades; forward for warm weather or reverse for cool weather.


## $\square$ button:

This button turns the fan off.
D. ${ }^{\circ}$ Button:

These buttons turn the light ON or OFF and also control the brightness settings of the light. The following instructions apply to ceiling fans that feature a DOWN light
(®) button) only or ceiling fans that feature an UP light ( 8 button) and a DOWN light ( 8 button) that are controlled independent of each other;

Press and release the button for the desired light to turn the light ON or OFF. Press and hold the button to set the desired light brightness. The light will cycle between bright and dim settings as long as the button is pressed. The light key has an automatic auto-resume feature that allows the light to remain at the same brightness as the last time it was turned off.

Note: This Remote control has Maximum Radio Transmitting range of 40 feet. Maximum Range depends on Quality of Materials used in Construction of Room/Building fan is hung in.

Note: The auto learning function will only mandate within 60 seconds when turning the fan's AC power ON.

1. Select desired frequency from the back of transmitter.
2. Press the transmitter's "Off" button, and hold the "Off" button for over 10 seconds. Once the receiver has detected the frequency, the down light of your fan if applicable will blink twice. (There is no indication if your fan is not equipped with a light).

Note: The learning frequency function will continue to retain the last set frequency even when the AC power is shut off.

The DC motor has a built in safety feature against obstruction during operation, if the fan motor senses a obstruction for 60 seconds or more it will get locked and will not rotate until the obstruction has been removed and the power has been disconnected for 5 seconds.
2. Over 60W protection: When the receiver detects motor power consumption which is greater than 60W, the receiver's power will stop and operation will be immediately discontinued. If you want to re-start the fan, Please remove obstacles and disconnect the power by turning off the circuit breaker. And turn the power on after 5 seconds.


Speed settings for warm or cold weather depend on factors such as room size, ceiling height and number of fans.
NOTE: to change the direction of the rotation of the blades the fan must be in operation mode.
Warm Weather (forward)
A DOWNWARD airflow creates a cooling effect as shown in Figure 18. This allows you to set your air conditioner on a warmer setting without affecting your comfort.
Cool Weather (Reverse)
An UPWARD airflow moves warmer air off the ceiling area as shown in Figure 19. This allows you to set your heating unit on a cooler setting without affecting your comfort.


## CARE OF YOUR FAN

Here are some suggestions to help maintain your fan.
1.Because of the fan's natural movement some connections may become loose. Check the support connections, brackets and blade attachment twice a year. Make sure they are secure. It is not necessary to remove fan from the ceiling).
2.Clean your fan periodically to help maintain its new appearance over the years. Use only a soft brush or lint free cloth to avoid scratching the finish. Plated finishes are sealed with lacquer to minimize discoloration or tarnishing.
Do not use water when cleaning, this could damage the motor, wood blades or possibly cause an electrical shock.
3. Use a lint free lightly damp cloth or duster to remove dust from the blades.
4.There is no need to oil your fan. The motor has permanently lubricated bearings.
5.If your fan is provided with glass shades, clean with lukewarm soapy water and a soft cloth or sponge. DO NOT IMMERSE GLASS SHADES IN HOT WATER. DO NOT PUT GLASS SHADES INTO AN AUTOMATIC DISHWASHER.

## WARNING

MAKE SURE THE POWER IS OFF AT THE ELECTRICAL PANEL BOX BEFORE YOU ATTEMPT ANY REPAIRS. REFER TO THE SECTION"ELECTRICAL CONNECTIONS"

## SYMPTOM

Fan will not start
SOLUTION

- Check to make sure the wall switch is turned on.
- Check circuit fuses or breakers.
- Caution! Make sure the power is turned off before performing the following steps.
- Remove canopy and check wire connections.
- Check wall control transmitter connections(if applicable).
- Note:fan must be installed at a maximum distance of 40 feet from the transmitting unit for proper signal transmission between the transmitting unit and the fan's receiving unit.


## SYMPTOM

Fan Sounds Noisy
SOLUTION

- Allow a 24 -hour "break in" period. Most noises associated with a new fan will go away during this time.
- Make sure the screws that attach the fan blade holder to the motor hub is tight.
- Make sure outlet box is secured to building structure, if necessary use the wood screws provided to further secure outlet box to joist.
- Make sure hanger bracket is secure to the outlet box, screws are tight.

SYMPTOM

## Fan Wobble

SOLUTION

- NOTE: All blade sets are grouped by weight. Because wood and plastic blades vary in density, the fan may wobble even though blades are matched.
- Make sure outlet box is secured to building structure, if necessary use the wood screws provided to further secure outlet box to joist.
- Make sure hanger bracket is secure to the outlet box, screws are tight.
- If a Balancing kit is provided follow the instructions included with the balancing kit to help correct any excessive wobble.


## SYMPTOM

Fans/Light Turn on and Off Unexpectedly
SOLUTION

- This is caused by interference. Please see "frequency interference" for step to charge the frequency.


## SYMPTOM

## Frequency Interference

## SOLUTION

1.Turn the power off to your ceiling fan.
2.Please use a small size tool to change the frequency
settings on the control system.
3.Retrun power to the unit.

Note: After the AC power is on, do not press any other button on the transmitter before pressing the "Stop" button, doing so will cause the procedure to fail.
4.Within 60 seconds of turning the fan's AC power ON. Press the transmitter's "Stop" button and hold the "Stop" button for 10 seconds.
5.Once the receiver has detected the set frequency, the down light of your fan will blink twice and the fan will begin to rotate for a short period and then shut off.
6.The receiver has now learn the frequency which has been selected on the transmitter. After completing the steps above, you should be able to operate the ceiling fan and light. If the fan is not responding to the transmitter. Please turn the power off to the receiver, and repeat the process.

These are typical readings. Your actual fan may vary. They do not include amps and wattage used by the light ( $s$ ).

For any additional information about your Minka Aire Ceiling fan, please write to:

| Fan Size | Speed | Volts | Amps | Watts | RPM | N.W. G.W. | C.F. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 60" | Low | 120 | 0.07 | 2.88 | 50 | 5.27 | 8.37 | $2.172^{\prime}$ |
|  | High | 120 | 0.63 | 41.45 | 137 | kgs <br> kgs |  |  |



PERFORMANCE AND ENERGY INFORMATION


| FAN SPEED | AIRFLOW <br> (CFM)* | POWER USE <br> (watts) | AIRFLOW EFFICIENCY <br> (CFM/watt) |
| :---: | :---: | :---: | :---: |
| Low | 2130 | 2.88 | 739 |
| High | 6198 | 41.45 | 149 |

Ceiling fan airflow is measured in cubic feet per minute (CFM). Power use is measured in watts. To maximize energy savings:

- Choose a fan with high airflow efficiency (CFM/watt).
- Use ENERGY STAR ${ }^{\oplus}$-labeled lighting in your fan.
- Remember to switch off your fan when you leave the room.
* Measured according
to the ENERGY STAR ${ }^{\circledR}$ approved Solid State

For any additional information about your
Minka Aire ${ }^{\circ}$ Ceiling fan, please write to;
1151 Bradford Circle, Corona, CA 92882 - For Customer Assistance Call: 1-800-307-3267

