Owners Manual

TroposAir

Fusion
(10AM66+WiFi)

This instruction contains 18 pages:

ETL LISTED US
Intertek
3110124

Net weight

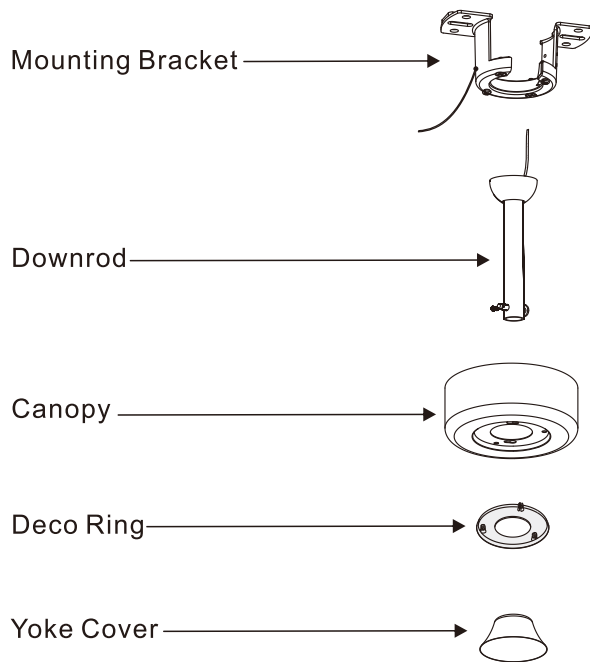| 9.1	KGS.
20	LBS.

Toll Free: 1-855-676-7247

READ AND SAVE THESE INSTRUCTIONS

WARNING : TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK, OR INJURY TO PERSONS, PLEASE OBSERVE THE FOLLOWING :

1]. To ensure the success of the installation, be sure to read the instructions and review the diagrams thoroughly before beginning.

2]. **To avoid possible electric shock, be sure electricity is turned off at the main power box before wiring.** All electrical connections must be made in accordance with local codes, ordinances and/or the National Electric Code. If you are unfamiliar with the methods of installing electrical wiring and products, require the services of a qualified and licensed electrician as well as someone who can check the strength of the supportive ceiling members and make the proper installations and connections.

3]. Make sure that your installation site will not allow rotating fan blades to come in contact with any object when fan is in operation. **Blades must mounted at least 7 feet from the floor.**

4]. If possible, mount ceiling fan on a ceiling joist - the joist must be able to support the motion and weight of the moving fan. If the fan will be mounted on a ceiling outlet box, a 4" x 2-1/8" deep METAL octagon box is required ; one UL listed as " suitable for fan support ". The box and its supporting members must not be able to twist or work loose. DO NOT USE PLASTIC BOXES. Installation on a concrete ceiling should be performed by qualified personnel.

5]. Blades should be attached after motor housing is hung and in place. Fan motor housing should be kept in carton until ready to be installed to protect its finish. If you are installing more than one ceiling fan, make sure that you do not mix fan blade sets.

6]. After making electrical connections, spliced conductors should be turned upward and pushed carefully up into outlet box. The wires should be spread apart with the grounded conductor and the equipment - grounding conductor on one side of the outlet box and the " HOT " wires on the opposite side.

7]. Electrical diagrams are for reference only. Light kits that are not packed with the fan must be UL/ETL listed and should be installed per the light kit's installation instructions.

8]. After fan is completely installed, check to make sure that all connections are secured to prevent fan from falling and/or causing damage or injury.

9]. The fan can be made to work immediately after installation. There is no need to oil your fan. The motor has permanently lubricated bearings.

10]. The fan must be turned off and stopped before reversing fan direction.

11]. **The fan is for downrod mount only.**

12] .**This fan is reversible.**

13]. **This fan is controlled by remote.**

14]. **This fan is suitable for damp location use.**

" Special note: All green grounding wire(s) from fan must be attached to house Ground/Earth wire to prevent flickering of LED. "

Unpack and inspect fan carefully to ensure all contents are included.

Mounting Bracket

Downrod

Canopy

Deco Ring

Yoke Cover

Wire — Safety Cable

Fan Assembly

Bottom Cap

Blades(10)

Hardware Bag

For Mounting Bracket:
Flat Washer	x3
Spring Washer	x3
Machine Screw	x2
Wood Screw	x3

For Blade Installation:
Flat washer x 31 (one spare washer included)

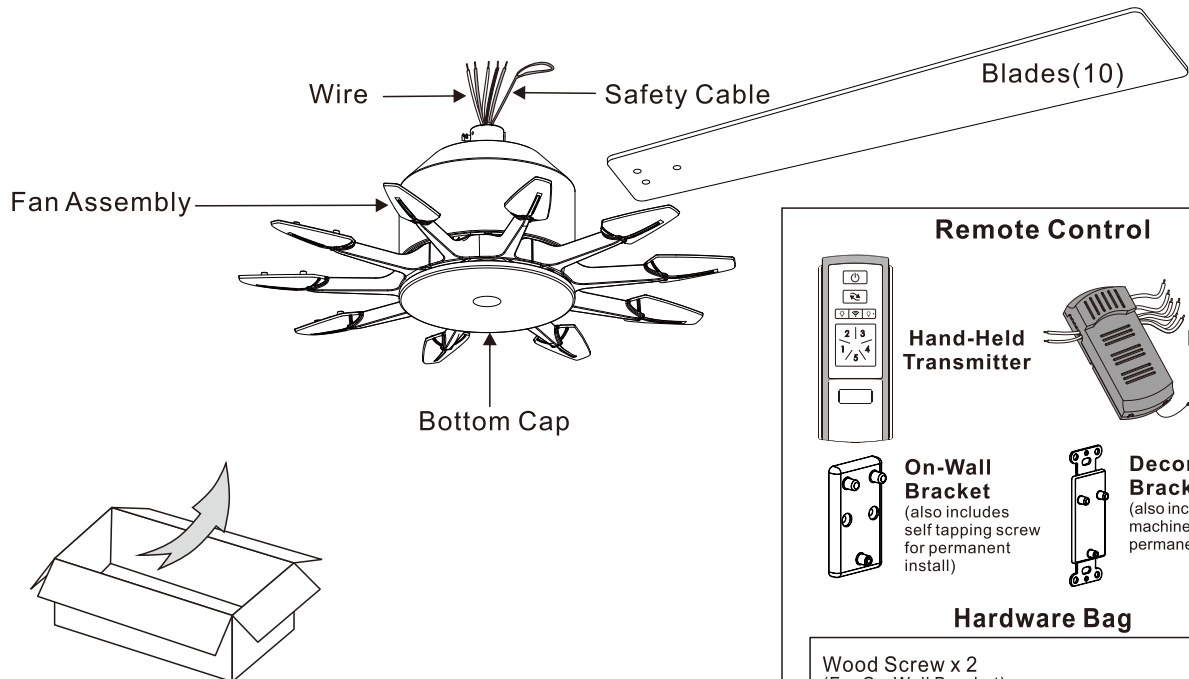Blade Screw x 31 (one spare screw included)

For Blade Balance :
Weight Block (3G x 3)

For Wire Connection:
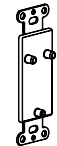Wire Nut x 8

Remote Control

Hand-Held Transmitter

Recevier

On-Wall Bracket
(also includes self tapping screw for permanent install)

Decora In-Wall Bracket
(also includes machine screw for permanent install)

Hardware Bag

Wood Screw x 2
(For On-Wall Bracket)

Wall Anchor x 2
(For On-Wall Bracket)

Wire Nut x 3

Self-tapping screw x 1
(For battery cover)

Self-tapping screw x 1
(For On-Wall Bracket with permanent install)

Machine screw x 1
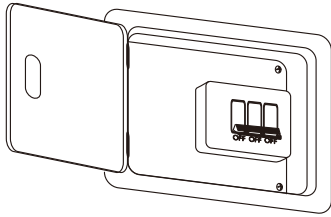(For Decora In-Wall Bracket with permanent install)

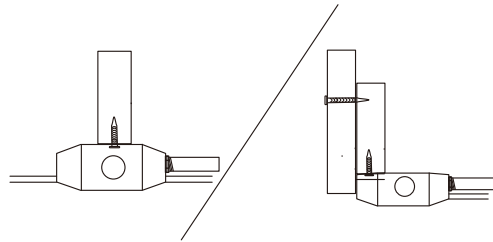12V(A23) Battery x 1
(Packaged with Transmitter)

Note 1:

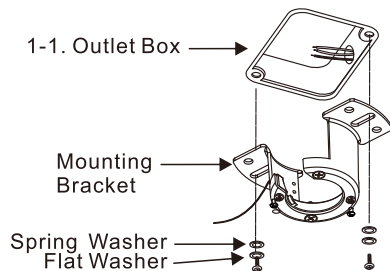Turn off power at breaker box to avoid possible electrical shock.

Note 2:

Use metal outlet box suitable for fan support. Outlet box must support 35 lbs min.
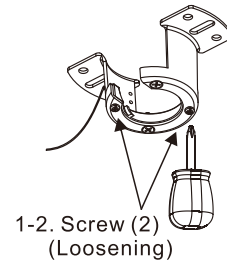
1. HANGING SYSTEM INSTALLATION

Installing mounting bracket to ceiling outlet box
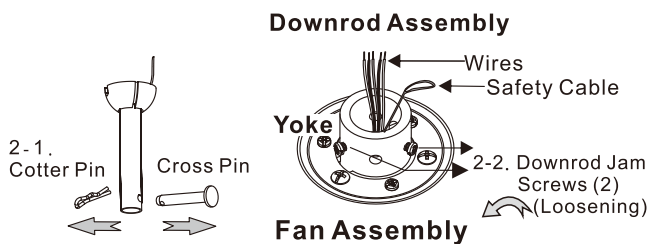
1-1. Outlet Box

Mounting Bracket

Spring Washer
Flat Washer

1-1. Install mounting bracket to outlet box on ceiling by using screws included with the outlet box and washers from the hardware bag.

1-2. Screw (2)
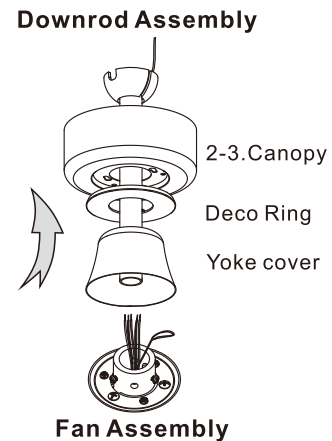(Loosening)

1-2. Loosen the screws at mounting bracket. **Do not remove.**

2. DOWNROD INSTALLATION

Downrod Assembly

Wires
Safety Cable

Yoke

2-1.
Cotter Pin   Cross Pin

2-2. Downrod Jam
Screws (2)
(Loosening)

Fan Assembly

2-1. Remove cross pin and cotter pin from downrod.
2-2. Lossen 2 downrod jam screws at yoke.

Downrod Assembly

2-3.Canopy

Deco Ring

Yoke cover

Fan Assembly

2-3. As shown above, assemble yoke cover, deco ring and canopy onto downrod.

Lead Wires

Yoke Cover

Downrod Assembly
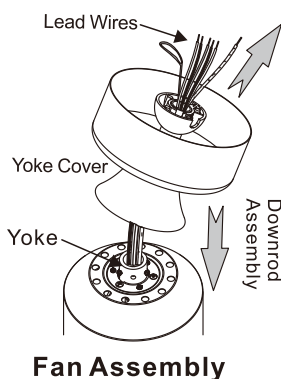
Yoke

Fan Assembly

2-4. Insert the lead wires through the downrod assembly.

Cross Pin

Canopy

Cotter Pin

Yoke cover

Downrod Jam
Screws (2)
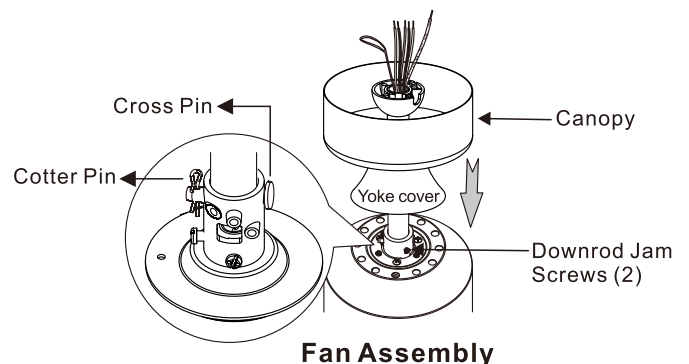
Fan Assembly

2-5. Insert downrod assembly into yoke and attach the cross pin through yoke & downrod, secure with cotter pin.

Hex Nut

Downrod Jam
Screws (2)
(Tightening)
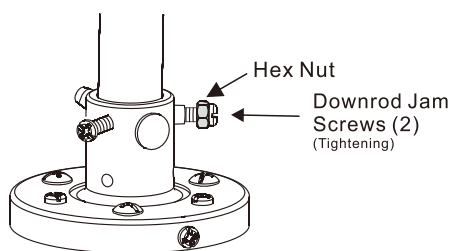
2-6. Make sure the Hex nut is positioned out to the screw head before tightening the jam screw.
2-7. Tighten 2 jam screws to secure downrod.

Canopy

Yoke cover

Hex nut

Downrod Jam
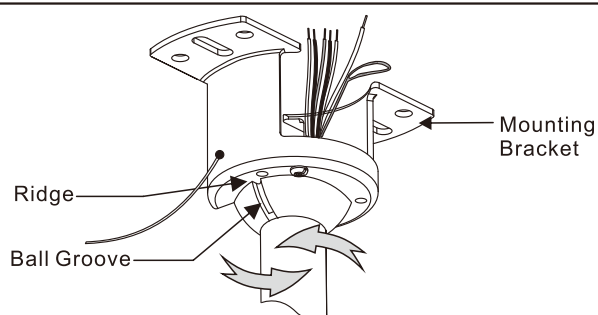Screws (2)
(Tightening)
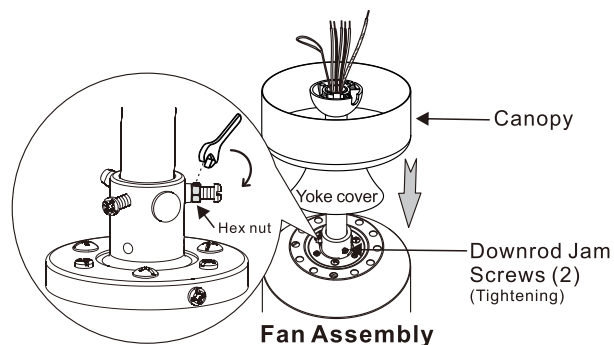
Fan Assembly

2-8. Use spanner or small wrench to tighten the Hex nut to the collar, so the jam screw will not loosen.
2-9. Pull down the yoke cover to cover yoke.

3. HANGING THE FAN ONTO MOUNTING BRACKET
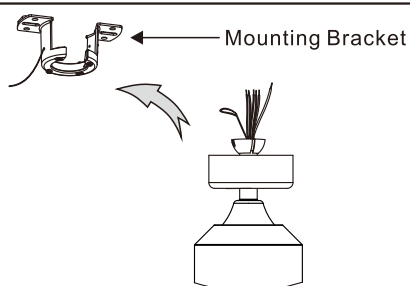
Mounting Bracket

3- 1. Lift fan assembly onto mounting bracket.


Mounting
Bracket

Ridge

Ball Groove

3- 2. Rotate fan so that the groove on the ball engages the ridge in the mounting bracket.

## IMPORTANT Attaching safety cable to ceiling joist

Use wood screw, spring washer, and flat washer from hardware bag. Pass wood screw through closed loop of safety cable. **Secure wood screw to ceiling joist through any available slot on mounting bracket. Make sure safety cable has been tightened securely.**

CAUTION: THE WOOD SCREW AND ITS SUPPORT MUST BE ABLE TO FULLY SUPPORT THE WEIGHT OF AT LEAST 100 LBS.

Outlet Box

Mounting Bracket

Safety Cable

Canopy

Safety
cable

Flat Washer

Spring Washer

Wood Screw
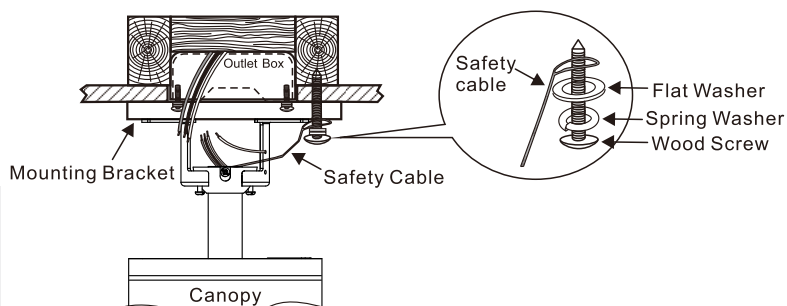
4. BLADE INSTALLATION

Attach blade to fan assembly by using flat washers & blade screws provided from hardware bag.
(* Repeat until all 10 blades are installed firmly.)

Blade Screw(3)

Flat Washer(3)

Blades (10)

Fan Assembly
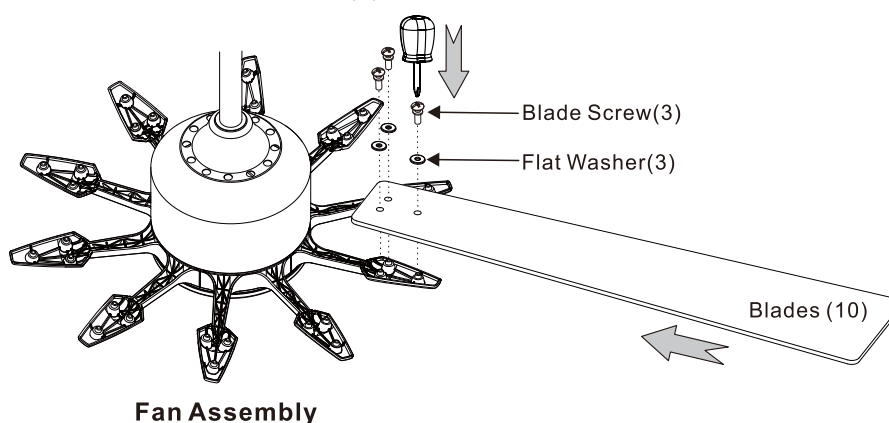
*Note: Make sure all blade washers & screws are tightened to avoid operating noise.
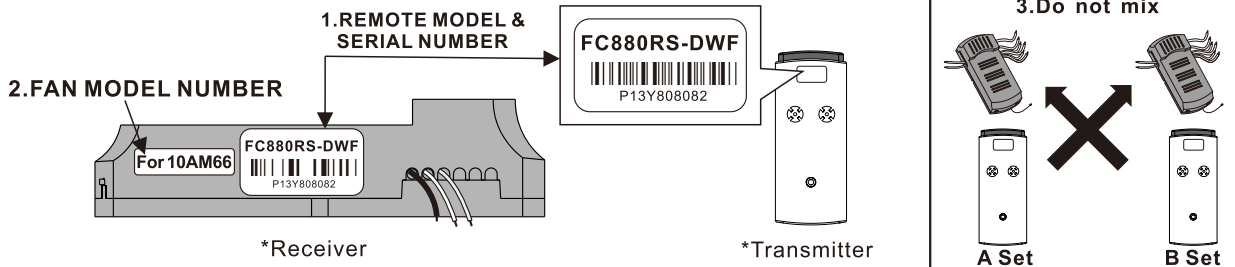
5. WIRE CONNECTION

## 5-1. Verify that serial Number & Model Number match on the Receiver and Transmitter

NOTICE :

Many remote sets for DC fans look the same. This remote set is pre-paired and labeled at the factory, please note the following before operation:

1a. The Remote Model Number on transmitter and receiver <u>must</u> be the same.

1b. The Remote Serial Number will be the same on a pre-paired remote set. If it is different, it will need to be paired (See page 11)

2. The Fan Model Number label <u>must</u> be the same as the fan's model number in front page (10AM66) for proper operation.(There is no Fan Model Number on transmitter.)

3. Do not mix the remote sets if you are installing more than one fan.

1.REMOTE MODEL & SERIAL NUMBER

2.FAN MODEL NUMBER

FC880RS-DWF
P13Y808082

For 10AM66 FC880RS-DWF P13Y808082

*Receiver

*Transmitter

3.Do not mix

A Set   B Set

5-2. Insert receiver into mounting bracket

NOTE: Do not squeeze all the wires while inserting the receiver into the mounting bracket.

Receiver

Mounting Bracket
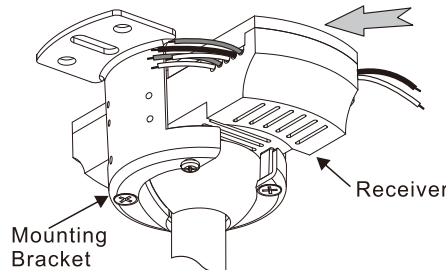
5-3. Making electrical wire connection
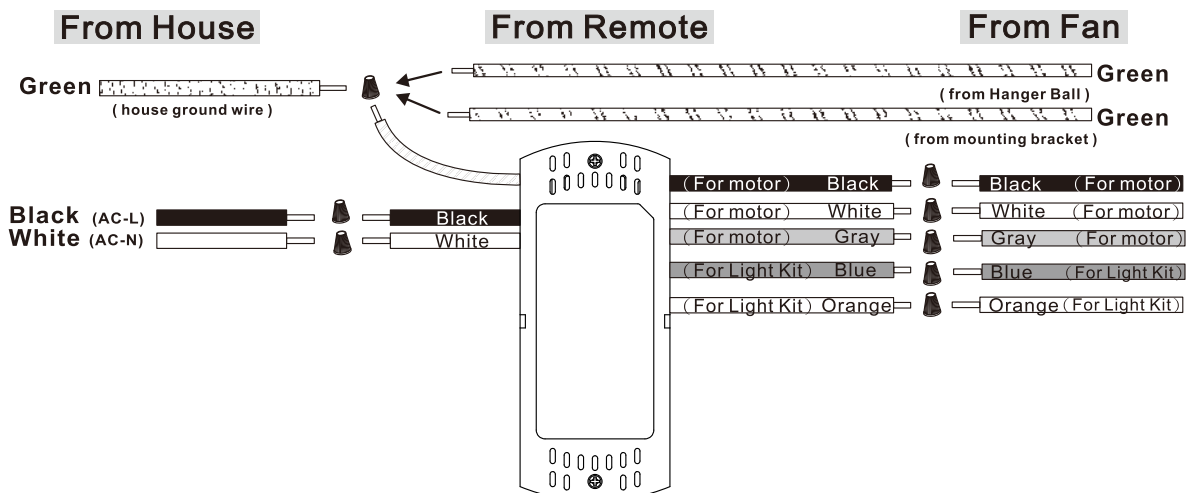
The standard lead wire is 54" long.
You may need to cut all 5 lead wires (from motor) to proper length & strip them for wire connection to make it easier for Canopy installation.

Follow diagram below and make sure that all exposed wires are secured inside wire nuts.

Note: Wires from house may vary in color. If the house wires do NOT include a ground/earth wire (bare or green)
AND you are installing the optional #640 Light, please consult an electrician. To prevent flickering in the light, this unit must be grounded/earthed.
After wiring is completed, gently push wires into junction box with wire nuts pointing upward.

From House   **From Remote**   **From Fan**

Green (house ground wire)

Green (from Hanger Ball)
Green (from mounting bracket)

Black (AC-L)
White (AC-N)

Black
White

(For motor) Black
(For motor) White
(For motor) Gray
(For Light Kit) Blue
(For Light Kit) Orange

Black (For motor)
White (For motor)
Gray (For motor)
Blue (For Light Kit)
Orange (For Light Kit)

" Special note: All Green grounding wires, from <u>Hanger ball/Mounting bracket/Receiver,</u> must be well attached to House Ground/Earth to prevent flickering of LED. "

6. CANOPY INSTALLATION

6-1. Canopy

Screw (2)

6-2. Key Hole (2)
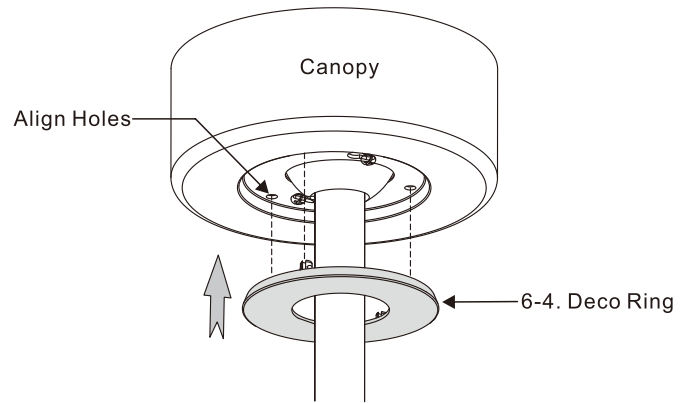
Canopy

Align Holes

6-4. Deco Ring
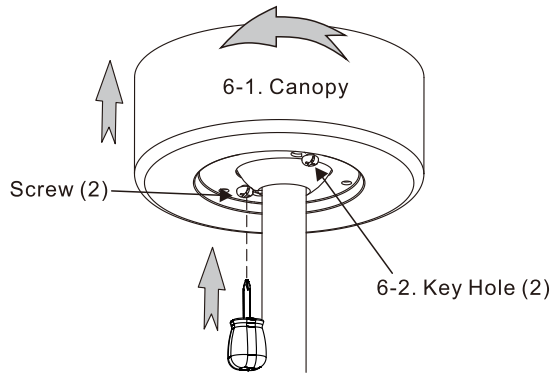
Note: Two screws are installed on mounting bracket for canopy installation.

6-1. Push up canopy until two pre-installed screws on mounting bracket are engaged with two key holes on canopy.

6-2. Rotate canopy slightly until two pre-installed screws heads are engaged in the narrow end of key holes.

6-3. Tighten both screws.

6-4. Push deco ring up to canopy, align holes on canopy with nibs on deco ring, and push to snap in.

7. TRANSMITTER INSTALLATION

**The enclosed Transmitter can be mounted in many ways:**
1. On-Wall at any convenient location, see Section (2) next page.
2. In-Wall in US switch boxes (multi-gang and single-gang decora), see Section (3).
3. Either way can be still used as a Hand-Held transmitter, or
4. It can be Permanently Stationed either On-Wall or In-Wall, see Section (4).
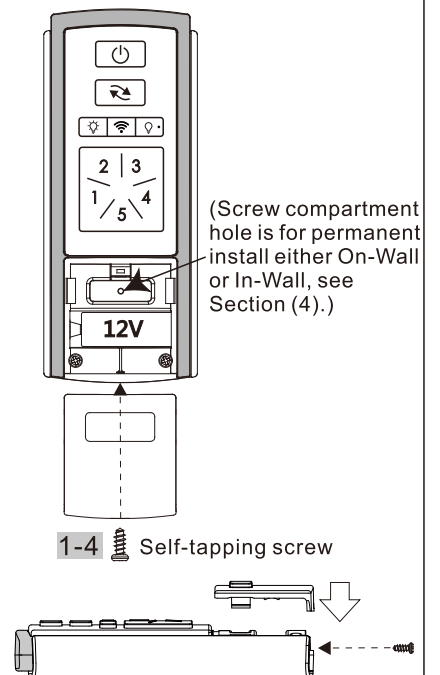
(1) HAND-HELD ASSEMBLY

1-1. Open the front cover of Hand-Held.
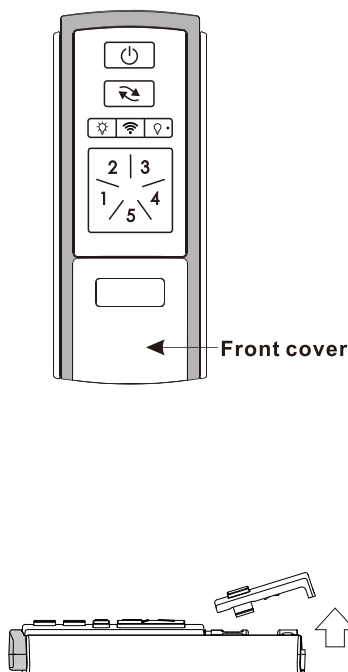
1-2. Install the 12V battery. (provided)
1-3. Note the location of the Dimmer/On Switch. (Factory default is set to Dimming)
Set dip switch in **D** position for LED Dimming.
Set dip switch in **O** position for LED ON/OFF only.
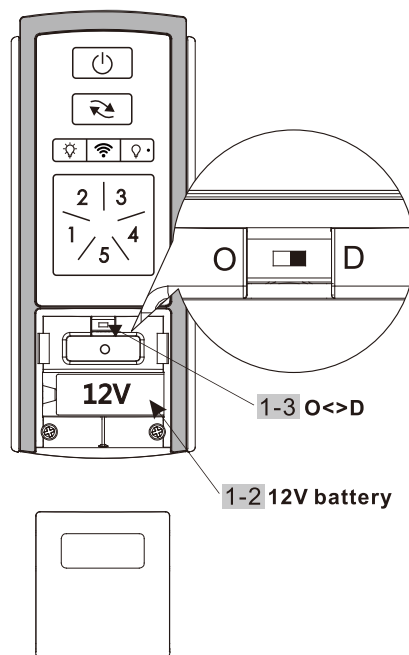
1-4. Reinstall the front cover and secure into place using the small self-tapping screw from the hardware bag.

Front cover

O ■ D

12V

1-3 O<>D

1-2 12V battery

(Screw compartment hole is for permanent install either On-Wall or In-Wall, see Section (4).)

12V

1-4 Self-tapping screw

A. On-Wall Mount

(2) ON-WALL BRACKET INSTALLATION

2-1. Position the bracket on the wall where desired, with the single post at the bottom as shown, secure the bracket with the two Wood Screws provided. (Wall anchors are for concrete wall.)

Wall

Wall Anchor

2-1

On-Wall Bracket

Wood Screw
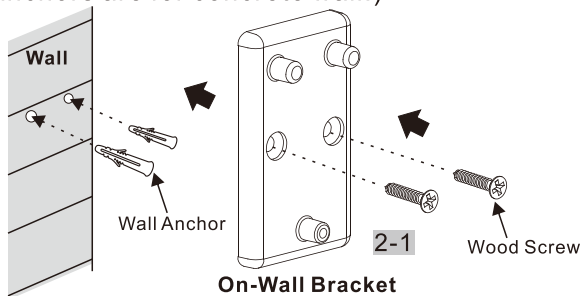
2-2. Snap the Hand-Held onto the On-Wall Bracket by aligning 3 posts to three recessed holes in back of Hand-Held.

2-2

On-Wall Bracket

Hand-Held
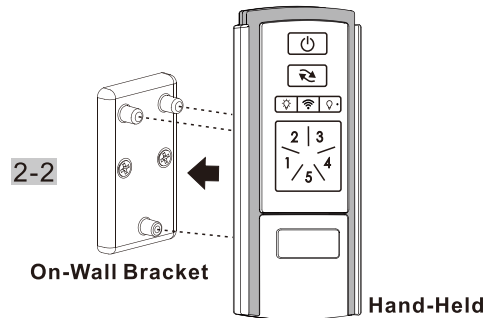
IMPORTANT: Single post of wall bracket must be downward.

You have completed the Wall mount installation.

B. Decora In-Wall Installation (for U.S.A.)

## (3) DECORA IN-WALL INSTALLATION (USA)

Warning: Turn off power at breaker box to avoid possible electric shock.

3-1. Remove the wall plate by loosening screws from the wall plate. (Keep these screws for step 3-6.)
Note: Can be installed in single- or multiple-gang switch box.

Wall

Wall plate
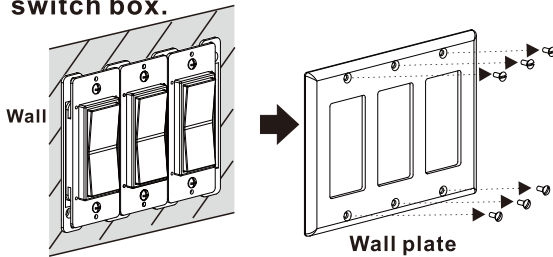
3-2. Uninstall the wall switch from the switch box by removing two screws from the switch box. (Keep these screws for step 3-5.)

Wall switch
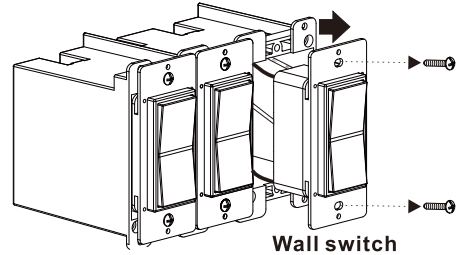
Warning: Make sure the power is turned off at the breaker box before touching anything in this box.
*Caution: If you are uncomfortable identifying and connecting 120V AC wiring connections, we recommend you hire a licensed electrician to perform this installation.*

Caution: The following wiring instructions are valid for a simple on/off toggle switch in a single gang box.
Caution: If your switch has more than two wires (not counting any ground wire or jumpers), we recommend hiring a licensed electrician to identify and complete the wiring connections.

3-3. Remove the wall switch from the switch box, and disconnect the following wires from the wall switch:
① Remove Black wire that goes to ceiling junction box
② Remove Black wire(s) that come from AC source

SWITCH BOX
WALL SWITCH
① wires to ceiling
② wires to AC source
Also remove Ground (if present)
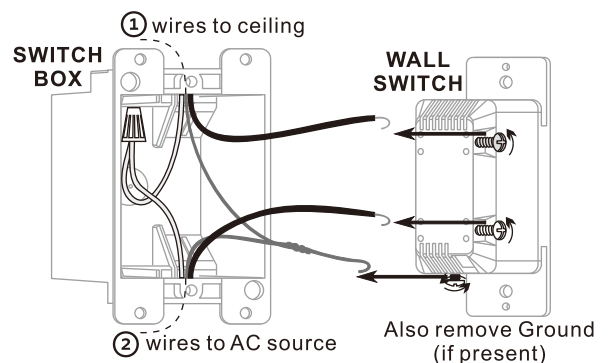
3-4. Connect the Black wire that goes to the ceiling box to the Black wire(s) from the AC source using the wirenuts provided.

  Note: Ground wires are usually twisted together in the box and do not require wire nut. If your ground wires are separated, connect them with a provided wire nut.

  Note: The White wires (neutral) should remain tucked in the back of the box.

  Note: Make sure that all exposed wires are secured inside wire nuts. Carefully tuck wires neatly back into switch box.

SWITCH BOX
① wires to ceiling
White (AC-N)
Black (AC-L)
Bare (Ground)
② wires to AC source
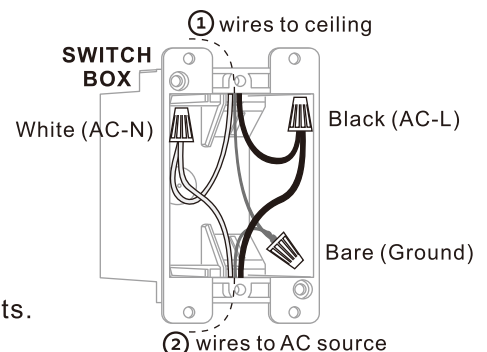
IMPORTANT: FAN'S REMOTE RECEIVER IS NOW DIRECTLY CONNECTED TO AC POWER. ON/OFF IS NOW OPERATED BY REMOTE TRANSMITTER.

3-5. Install the Decora In-Wall bracket onto the switch box with the single post at the bottom as shown, and attach two screws removed from step 3-2.
(If in a multiple-gang box - align the bracket using the wall plate first, then tighten the screws.)

Wall

Decora In-Wall Bracket
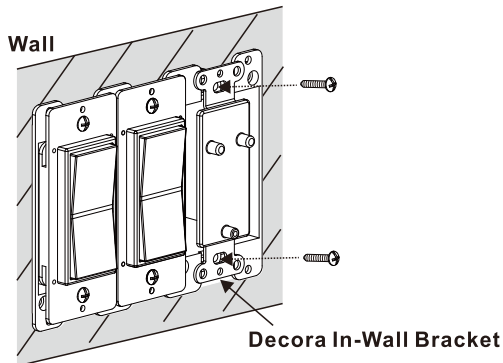
3-6. Install the wall plate onto the switch box and attach the screws removed from step 3-1.
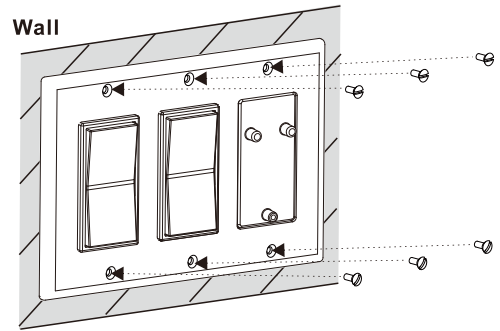
Wall

3-7. Snap the Hand-Held onto the In-Wall Bracket by aligning 3 posts to three recessed holes in back of Hand-Held.

Wall

Decora In-Wall Bracket

Wall

3-7
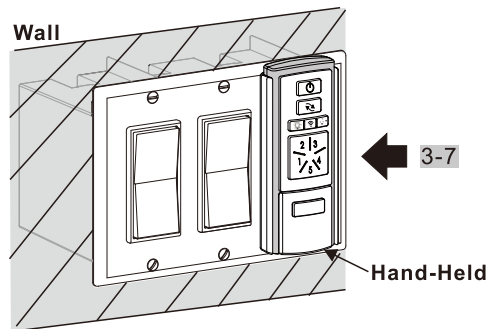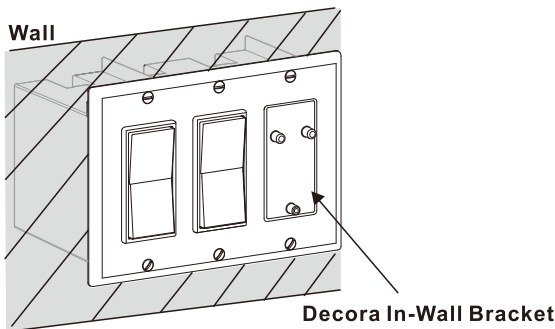
Hand-Held

You have completed the mounting bracket installation.
The next section (4) details how to make it a Permanently Stationed control.

(4) FOR PERMANENTLY STATIONED CONTROL
(For school, hotel or public facility so the hand-held cannot be easily removed.)

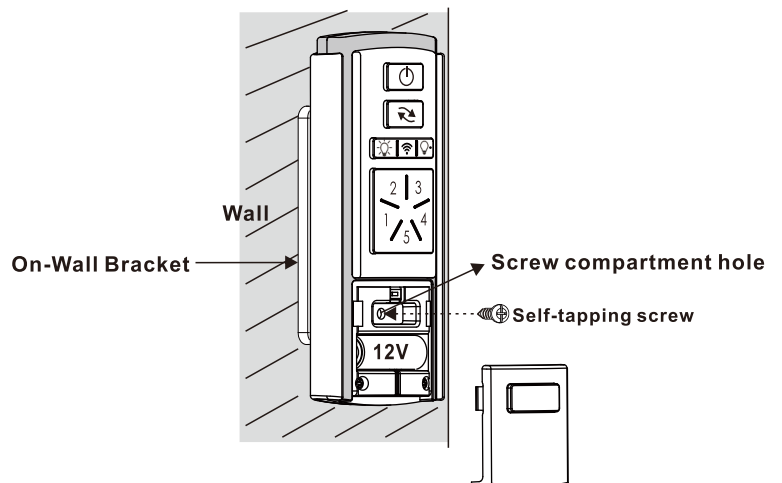4-1.Open battery cover of Hand-Held by removing the self-tapping screw.

Front cover
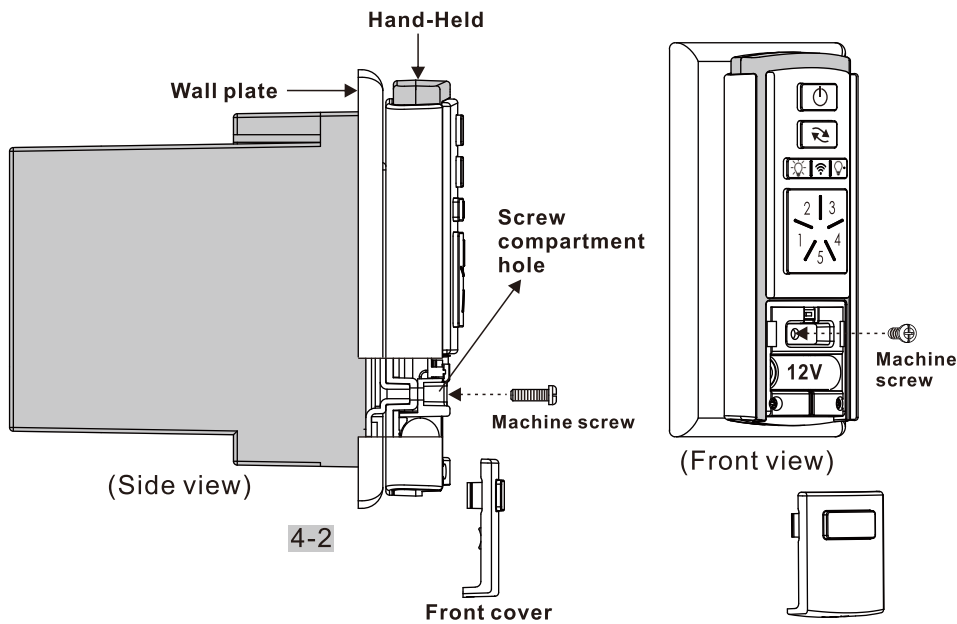
4-1
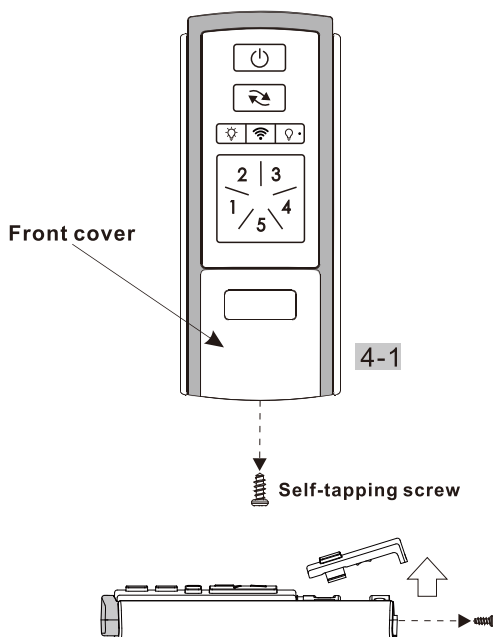
Self-tapping screw

4-2.
Using the proper screw for the bracket used, attach the Hand-Held to the bottom post of the bracket through the screw compartment hole.

A. On-Wall Bracket: Use provided self-tapping screw.
**B. In-Wall Decora: Use provided machine screw.**

A. On-Wall Bracket

Wall

On-Wall Bracket

Screw compartment hole

Self-tapping screw

12V

B. In-Wall Decora

Hand-Held

Wall plate

Screw compartment hole

Machine screw

(Side view)

4-2

Front cover

(Front view)

12V

Machine screw

4-3. Snap the cover back onto the transmitter and secure with small self-tapping screw removed in step 4-1.
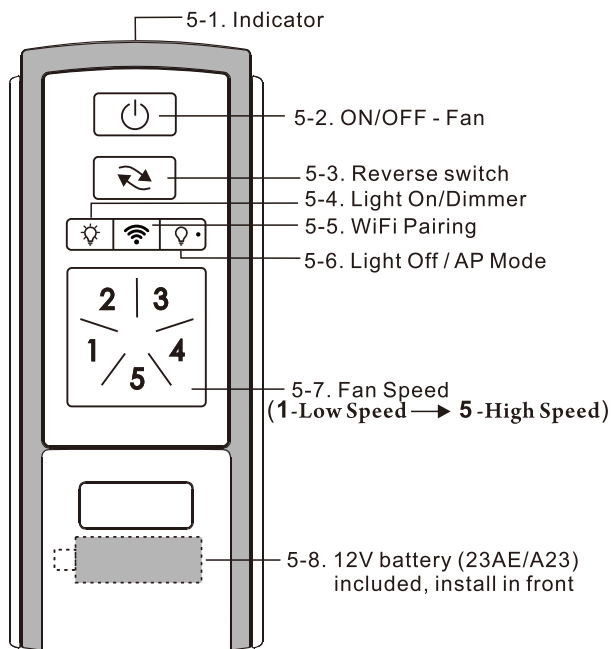
Self-tapping screw
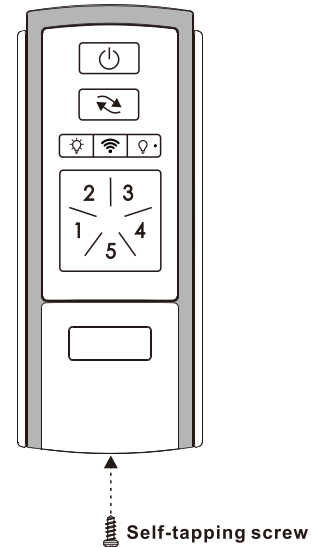
Turn on the power at breaker box, the fan is ready for operation!

ON
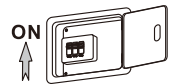
(5) OPERATIONAL INSTRUCTION

Warning: DO NOT PRESS THE ⏻ BUTTON FOR MORE THAN 4 SECONDS TO AVOID FACTORY RESET AND THE LOSS OF PRE-PAIRED PROGRAMING OF RECEIVER AND TRANSMITTER!

__All the button pressed will have a Beep sound and the red indicator light will turn on.__

5-1. Indicator

5-2. ON/OFF - Fan

5-3. Reverse switch
5-4. Light On/Dimmer
5-5. WiFi Pairing
5-6. Light Off / AP Mode

5-7. Fan Speed
(**1**-Low Speed ➞ **5**-High Speed)

5-8. 12V battery (23AE/A23) included, install in front

5-1. Indicator
5-2. Press ⏻ button to turn the fan ON/OFF.
Note: On every startup, the fan will move forward & backward for 2~3 seconds.

5-3. Reverse switch
5-4. Short press for Light ON.
    Hold the button for dimming the light.
5-5. WiFi pairing
(long press for 5 seconds, see more information for WiFi setting in step 9.)

5-6. Short press for Light Off / **AP mode.**
**(long press for 5 seconds, see more information for WiFi setting in step 9.)**

5-7. Fan Speed**:**
1- Low Speed ➞ **5-** High Speed
5-8. 12V battery (23AE/A23) included, install in front.

NOTE: Make sure the DIP switch is on dimming position. (See 1-3 in Page 6)

Note: Press ⏻ button to turn the fan ON/OFF. The remote retains the last settings (fan speed and light dimming level) in memory. Switch the fan ON/OFF by main power will operate at initial setting. (fan off and light on)

JST connector
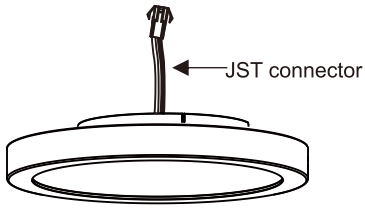
#640 Light Kit (sold separately)
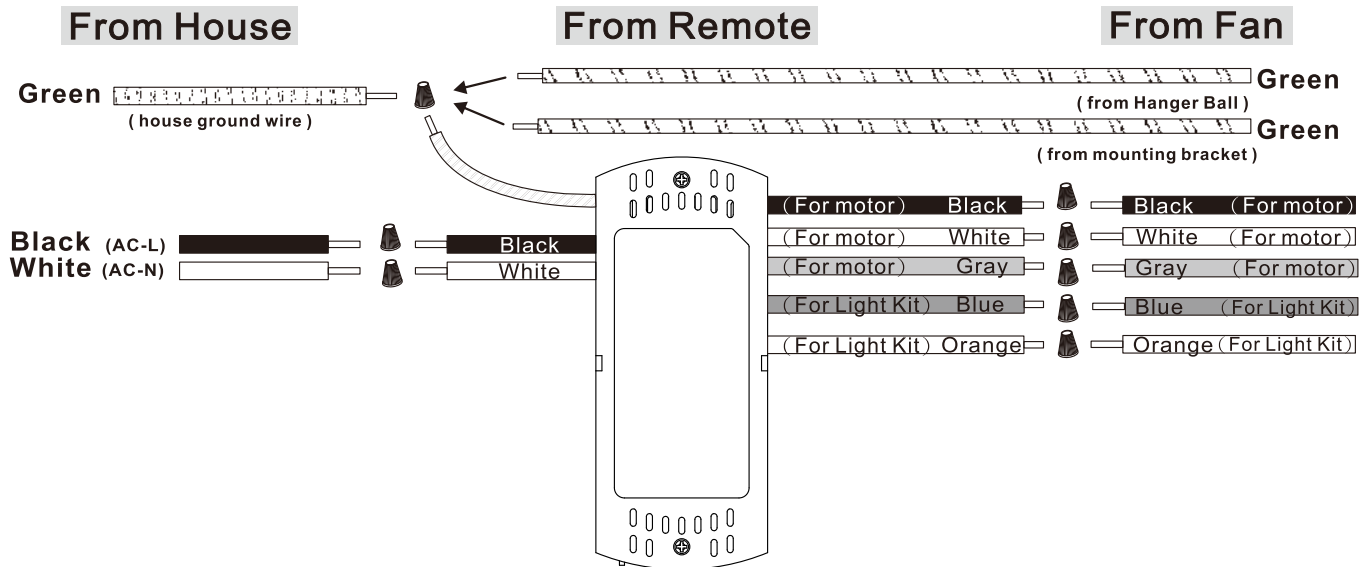## Integrated type:
For Optum & Fusion & Evolution

Follow the separate installation instructions provided with the light kit package to attach the light to the fan.

TROUBLESHOOTING

In the event the fan does not operate properly, please perform the following steps.
5-9. Lower the canopy and check that all wires are connected properly.
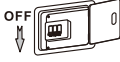**5-10. Perform the remote Pairing Process at step 8-1 on P11.**

From House   **From Remote**   **From Fan**

Green (house ground wire)   Green (from Hanger Ball)

Green (from mounting bracket)

Black (AC-L)   Black

White (AC-N)   White

（For motor） Black   Black （For motor）
（For motor） White   White （For motor）
（For motor） Gray   Gray （For motor）
（For Light Kit） Blue   Blue （For Light Kit）
（For Light Kit） Orange   Orange （For Light Kit）

8. REMOTE PAIRING PROCESS

The Pairing Process is only necessary when there is an issue. Remote set is pre-paired from the factory and should not require the Pairing Process.

A fan may need to have "Pairing Process" performed for the following issues.
1. Replacing the transmitter.
2. Replacing the receiver.
3. Multiple fans on the same circuit.
(In multiple fans situation, each fan must be wired up individually for the Pairing Process; **see step 8-1.**)

8-1. PAIRING PROCESS FOR TRANSMITTER AND RECEIVER:

1. Switch off the main power **OFF** and make sure fan has completely stopped .
2. Install a New receiver or install the battery in a new transmitter before the Pairing Process.
3. Switch on the power again, and immediately:

Press and hold the ⏻ button for **8 seconds until the Receiver "Long Beeps".**
This process must be done within 20 seconds after switching on the power.

This fan has completed the pairing successfully and the fan is ready for operation!
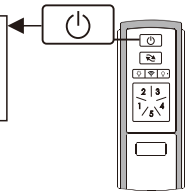
8-2A. Pairing Process for Multiple fans (One transmitter for multiple receivers)
If you wish to use only **one transmitter for two fans**, simply wire up both fans at one time and perform the Pairing Process at **step 8-1** from a point between the two fans.
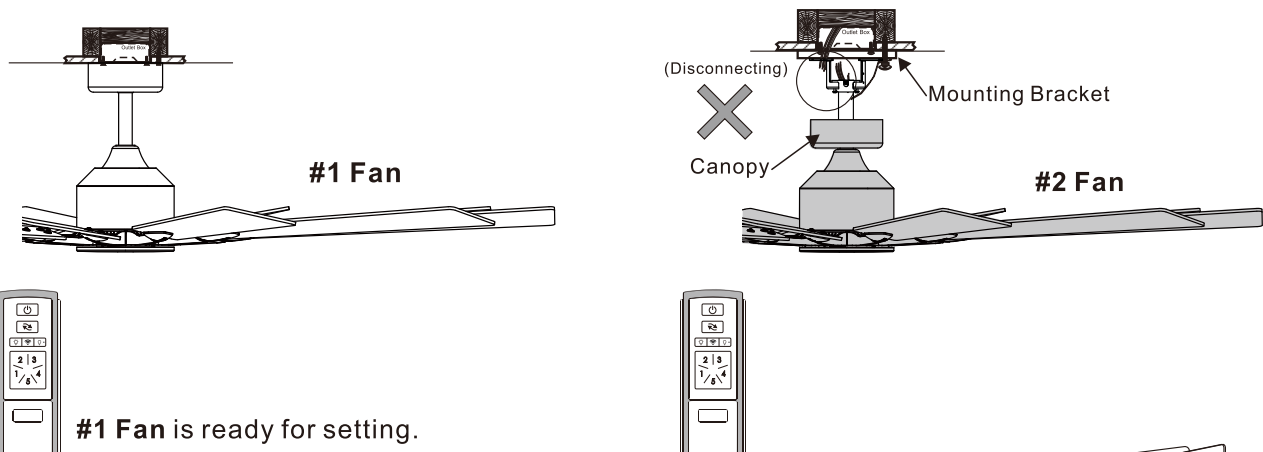
#1 Fan

#2 Fan

(operating now)
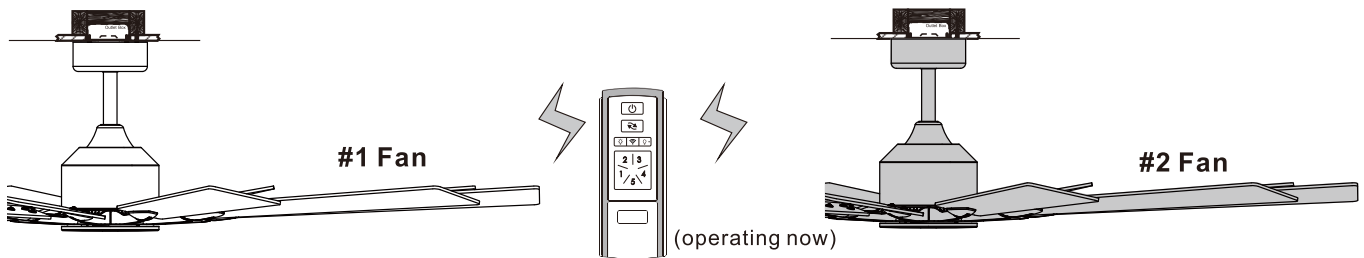
8-2B. Pairing Process for Multiple fans (One transmitter for one receiver)
The Pairing Process must be performed on each remote set (transmitter and receiver) individually.
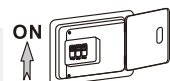**See the set up at step 8-3.**

8-3. TO SET UP REMOTE FOR #1 FAN

Make sure to turn off power at breaker box. OFF
Disconnecting wire from #2 fan.
Before starting the remote control setting process, lower the canopy of #2 Fan and disconnect the Black wire.
Put the wire nut on the black wire from the house

#1 Fan

(Disconnecting)

Mounting Bracket

Canopy

#2 Fan

#1 Fan is ready for setting.

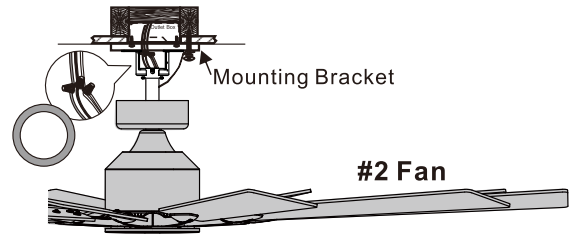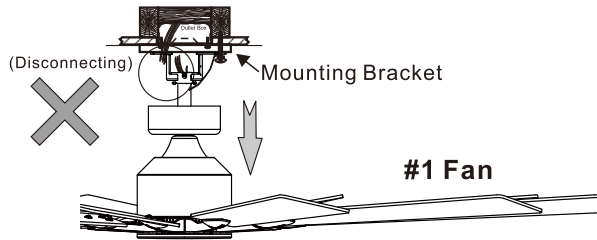**Turn on power at breaker box and #1 Fan is ready for pairing. ON**

*See the remote control setting process **8-1 to set up #1 Fan.**

8-4. TO SET UP REMOTE FOR #2 FAN

Make sure to turn off power at breaker box. OFF

Disconnecting wire from #1 Fan
Disconnect the Black wires from #1 Fans and connect the Black wires back to #2 Fan that you remove from **8-3.**
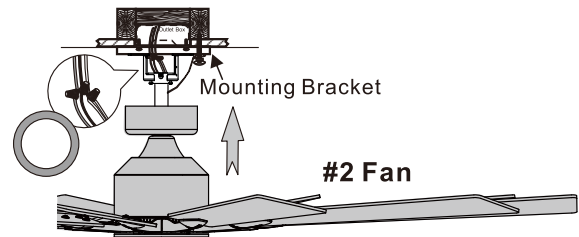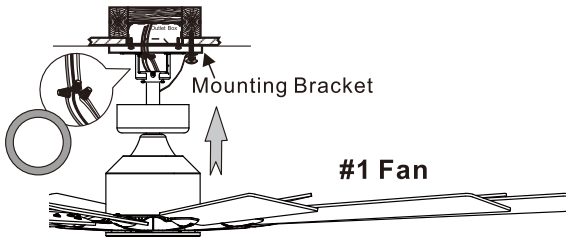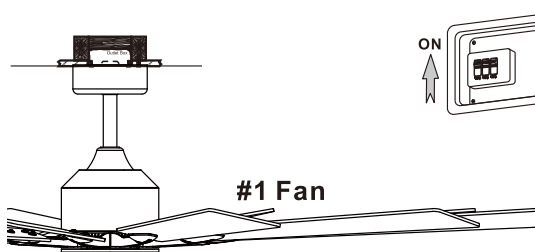
(Disconnecting)

Mounting Bracket

#1 Fan

Mounting Bracket

#2 Fan

#2 Fan is ready for setting

Turn on power at breaker box and #2 Fan is ready for setting. ON

*See the remote control setting process for **8-1 to set up #2 Fan.**

8-5. RECONNECT ALL FANS

Make sure to turn off power at breaker box. OFF

After all the fans have done the resetting process, reconnect all the wires for #1 fan & #2 fan, and lift up the Canopy of #1 fan & #2 fan.

Mounting Bracket

#1 Fan

Mounting Bracket

#2 Fan

8 - 6. Switch on the main power and now each of these two fans are operated by its own remote individually.

ON

#1 Fan

#2 Fan
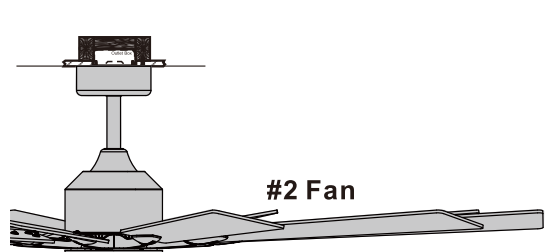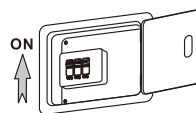
(operating now)

(operating now)

NOTE: For more than two fans, the same rules apply. Make sure only one fan at a time is connected to power when doing the Remote Setting. Already completed fans should be disconnected until all fans have completed the Remote Setting process.
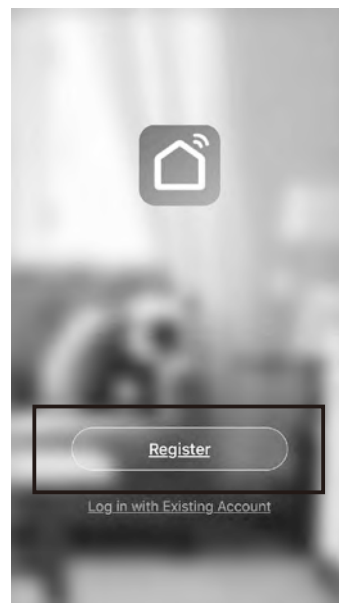
9. WIFI PAIRING

A. Installation

You can scan the QR code below to download the **Smart Life** app.

You can also search **"Smart Life"** in major application markets to install the app.

B. Register an account and log in.

Register

Log in with Existing Account

C. WiFi Connect

NOTE: You must turn on the "Location Services" before WiFi pairing.
1. First ensure that WiFi can be used normally and you have the password.
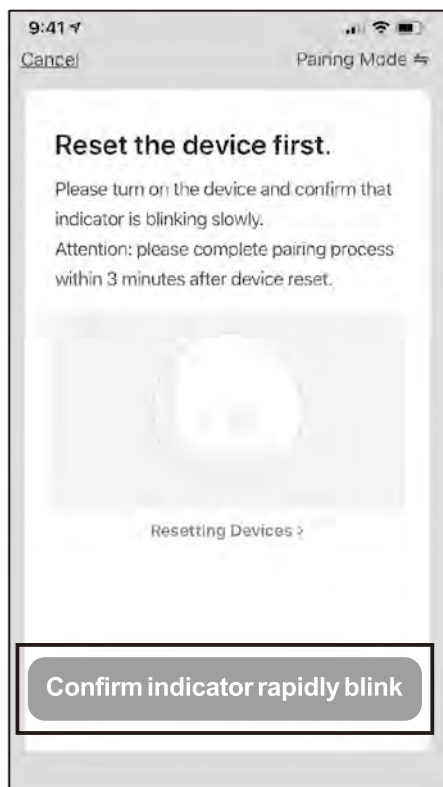2. Click **"Add Device"** , first select **"Small Home Appliance"** , then select **"Fan"** .

Small
Home Appliance

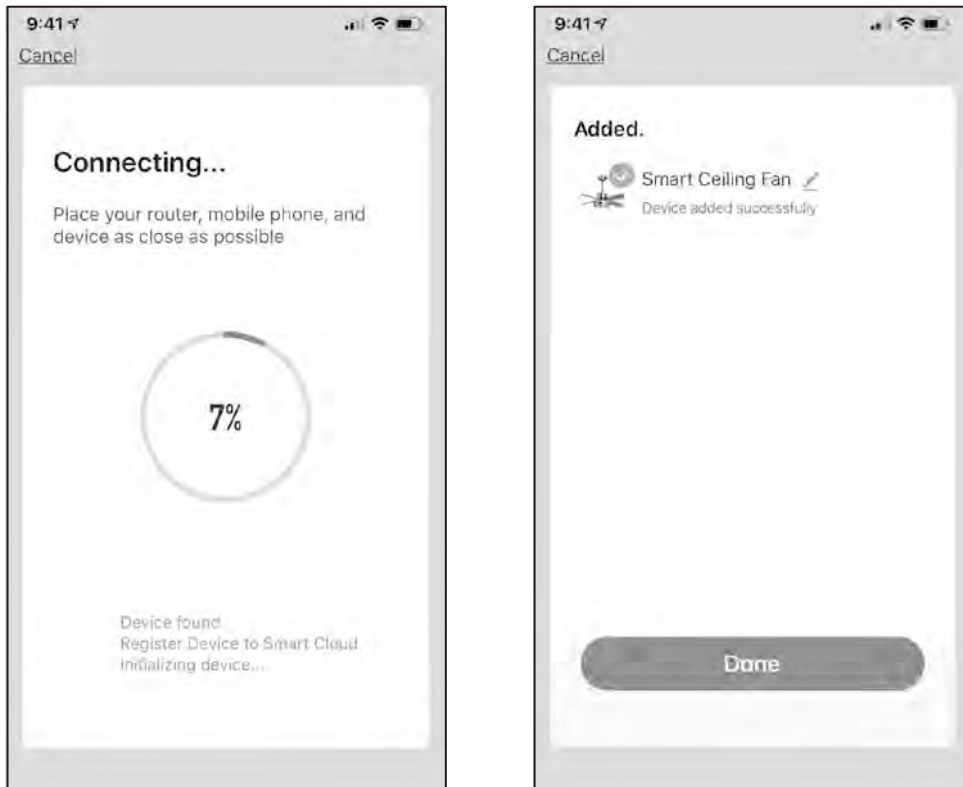No devices, please add
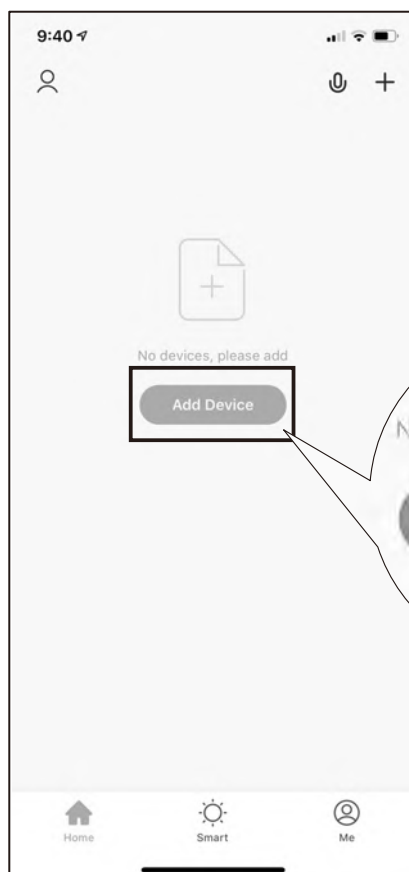
Add Device

3. Press and hold the "⊡" button of the transmitter for more than 5 seconds. Wait until the ceiling fan receiver emits **"BeeBee"** continuously. The remote makes this noise instead of a blinking indicator as described in the app.
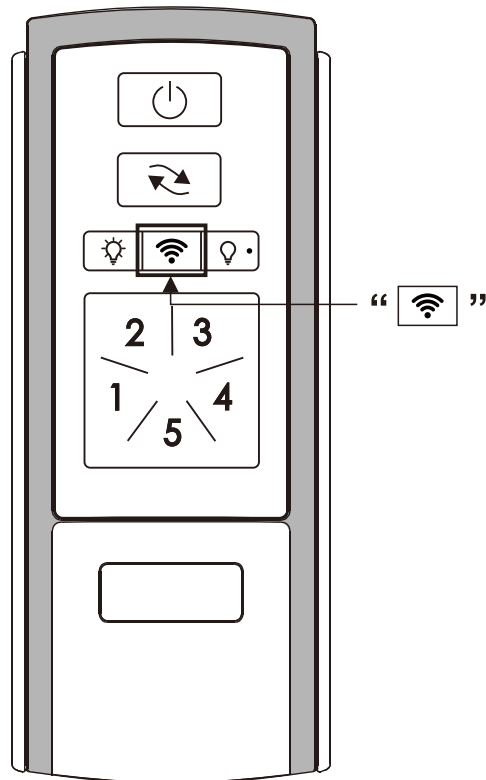
4. Select the correct WiFi source, then enter the WiFi password and click **"Confirm"** to wait while **"Connecting"**.
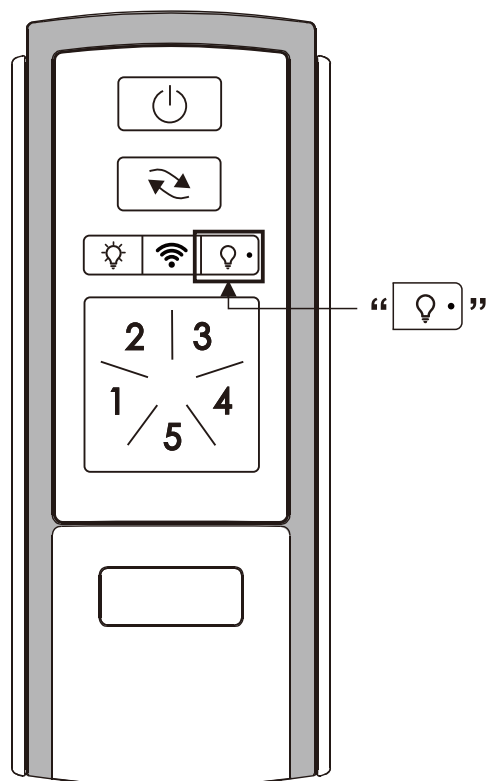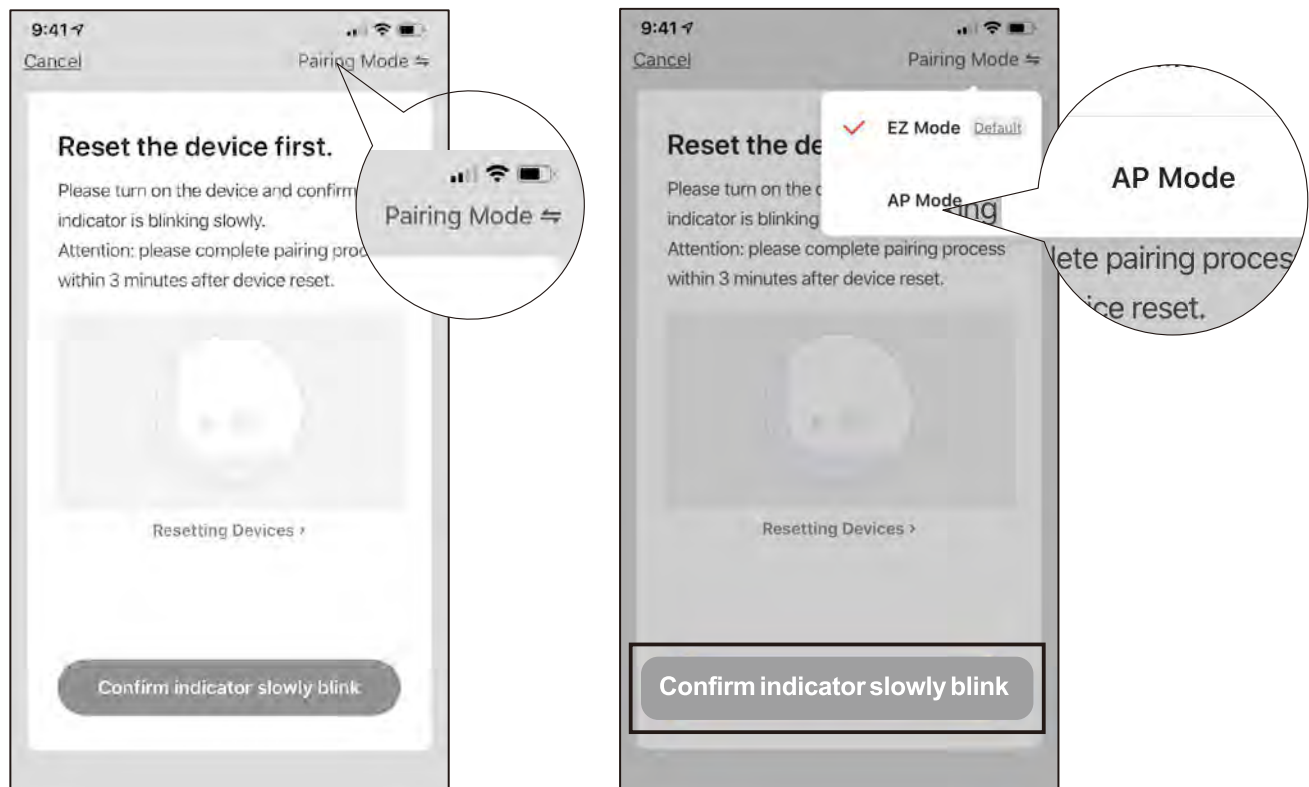
5. Wait for a successful connection.

Connecting...

Place your router, mobile phone, and device as close as possible

7%

Device found
Register Device to Smart Cloud
Initializing device....

Added.

Smart Ceiling Fan
Device added successfully

Done
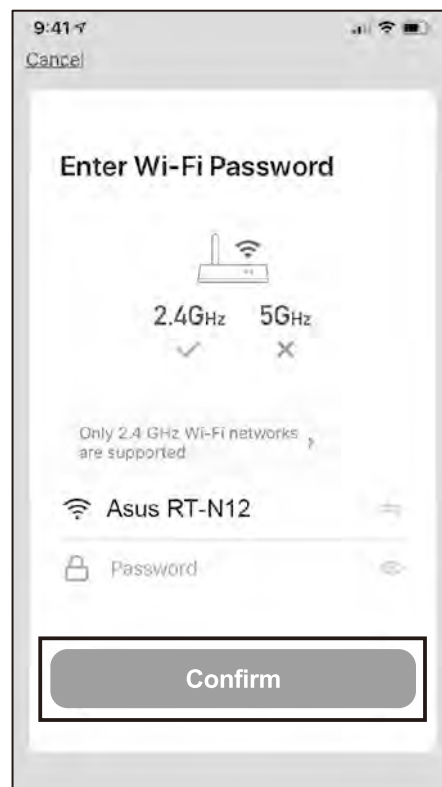
**NOTE: In case of above WiFi Pairing failed, please follow below and pairing.**

1. Press and hold the " 💡• " button of the transmitter for more than 5 seconds. Wait until the ceiling fan receiver emits **"BeeBee"** continuously.

" 💡• "

2 | 3
1 / 4
5

2.Select Pairing Mode **"AP Mode"** on mobile device.

3.Select the correct WiFi source, then enter the WiFi password and click **"Confirm"** to wait while **"Connecting"**.
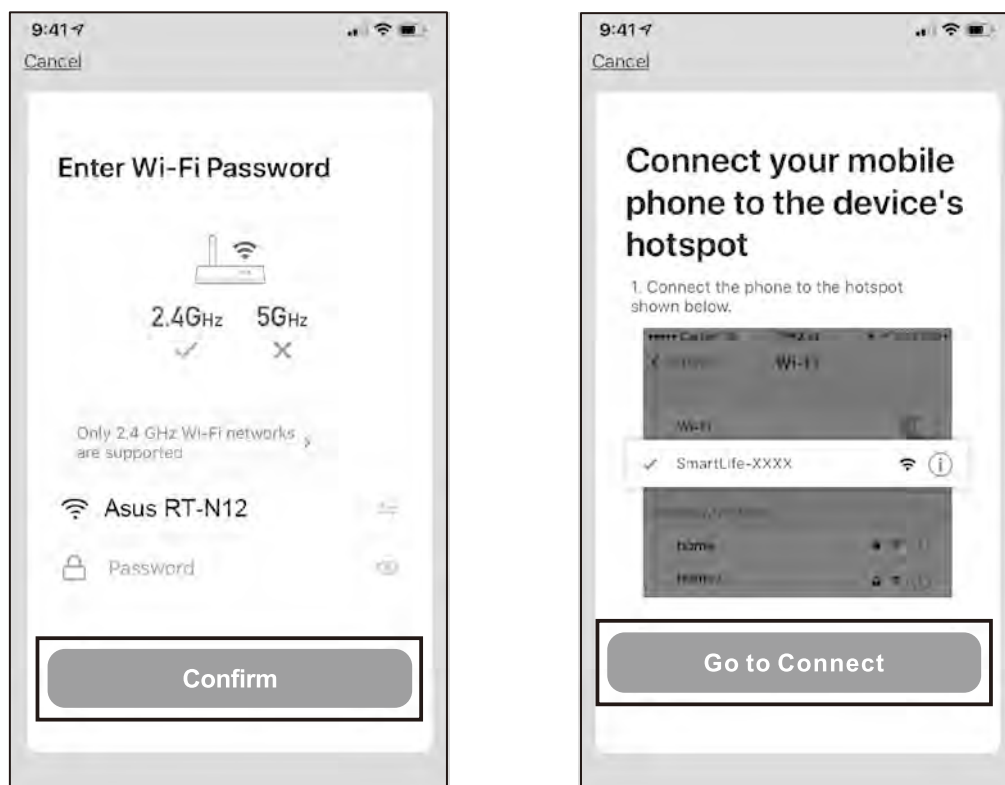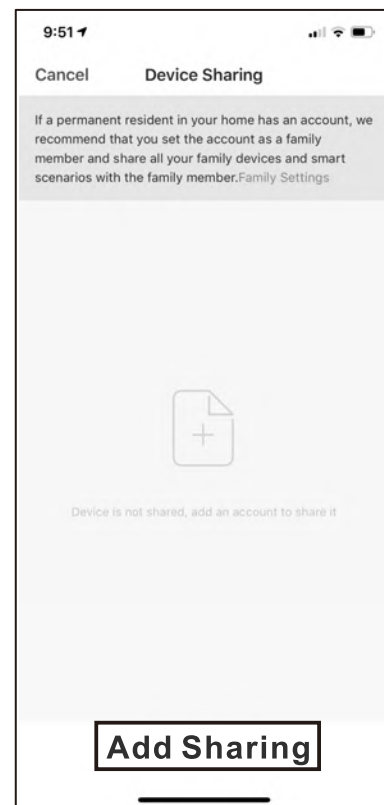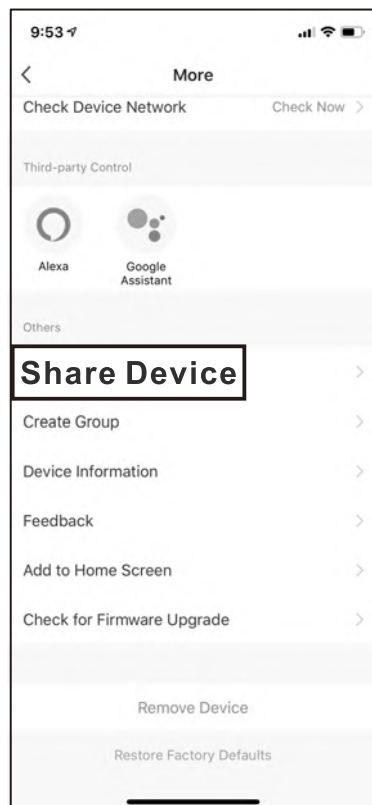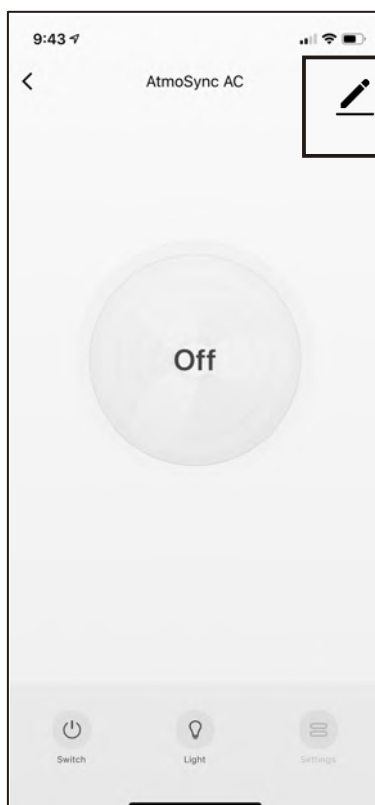
4. Wait for a successful connection.

D. More Details and Multiple Users

1. In the App's Main Control Panel, click the "✏" in the upper right corner for more functions.
   a. Tap on the icon or name to change either.
   b. Tap **"Share Device"**, **"Add Sharing"**.

2. Enter the phone number of another Smart Life user, and click **"Completed"** to share.
Hint: The simplest way to share multiple devices with multiple users is to log in as a <u>public account</u>.

NOTE: This method requires the other users have the "Smart Life" app installed.

E. For more information, go to the "Me" - "FAQ & Feedback" in the app to learn.