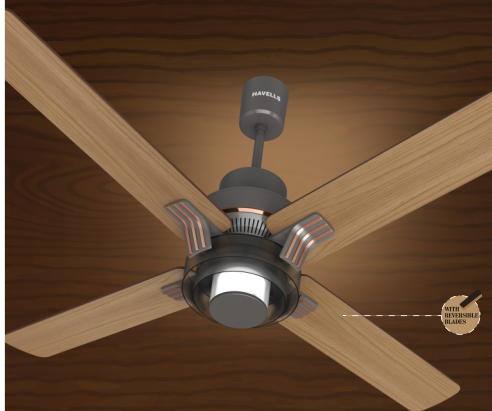


# Operating Instructions

 **BLDC INVERTER**  
TECHNOLOGY



**FLORETTE**  
**UNDERLIGHT**

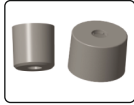
SMART SENSE



## PACKAGE CONTENTS



Motor with  
PCB Controller (1 N)



Canopy Set with  
Smart Sensor (1N)



Blade set (1 N)  
containing Blades (4 N)



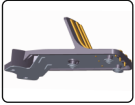
Shackle Kit (1 N)



Down-rod (1 N)



Down-rod Pipe  
(1 N)



Shank Assembly set (1 N)  
containing Shank (4 N)



Light  
Assembly (1N)



Remote  
(1 N)



Battery (AAA)  
(2 N)



Twisted Wire  
(1 N)

## Remote Pairing:

**NOTE:** Remote supplied along with fan is already paired with your fan.

**Follow below pairing instructions if your fan remote or PCB is changed.**

Following steps have to be executed in correct sequence and all steps should be done within 10 secs total.

1. Power ON fan, from the main supply.
2. Press the OFF button on the remote once.
3. Press the Fan Speed 1 button on the remote once.

**Successful pairing will be confirmed by two beeps from the Fan.**

**Note: If pairing fails repeat the steps after powering OFF the fan from the mains.**

## Remote Un-Pairing

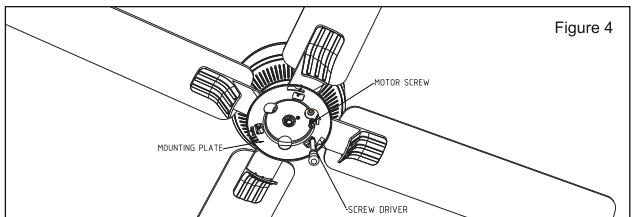
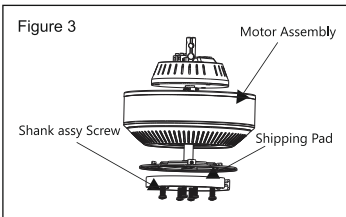
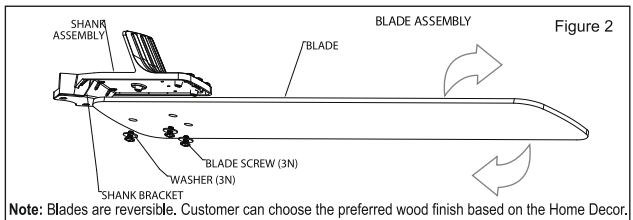
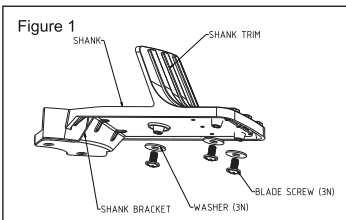
To un-pair the unwanted remote, repeat the complete pairing process two times on the remote you want to keep using, with a maximum 1 minute between first and second time. The unwanted remote will be automatically unpaired.

## Fan Installation:

### Blade Installation (Figure 1, 2, 3, 4)

1. Unfasten the blade screw and washer from shank assembly. (Refer Figure 1)
2. Keep shank bracket at same place in shank assembly and assemble blade with shank assembly by tightening the blade screw and washer (Refer Figure 2)
3. Unfasten the shank assembly screw from motor assembly and remove the shipping pad (Refer Figure 3)
4. Tighten the shank assembly + blade to motor assembly using screw driver through the holes in Mounting plate (Refer Figure 4)

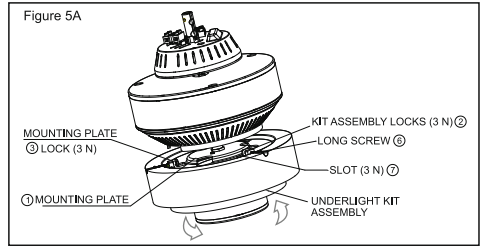
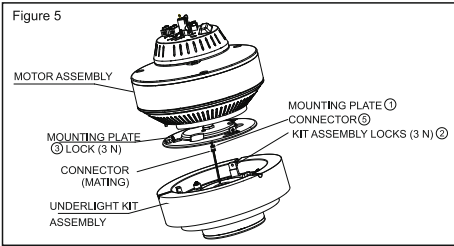
**IMPORTANT :** While tightening the blade screws on motor, ensure that blade profile is not damaged.



## Underlight Kit Installation (Figure 5 & 5A)

- Join the connector (mating) (4) of Underlight kit assembly with Connector (5) from motor spindle and match the direction of connector and lock them properly.
- Unfasten the long screw (6) from mounting plate lock (3)
- Insert the locks of under light kit assembly (2) into the slot (7) provided in mounting plate (1) & rotate in clockwise direction.
- Align & Tighten the kit assembly lock (2) using long screw (6) with mounting plate lock (3)

**NOTE: Blade assembly (Figure 2) is already fixed to motor and not shown in this view for better view of Kit installation.**

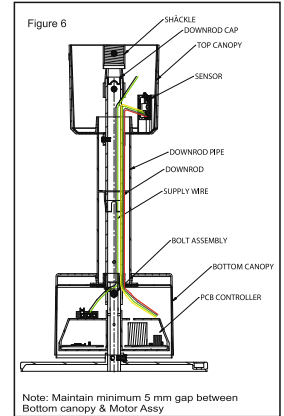


## Installation of Down rod to motor: (Figure 6)

### FAN INSTALLATION :

For installation of Fan with downrod, the following instructions and methods are to be followed.

1. Remove the downrod cap from downrod and slide the bottom canopy over the downrod and then slide top canopy from topside.
2. Pass the Power supply & earthing wires (to be installed by customer at their end) through the downrod from top side holes and pull the wires from slit hole of the downrod.
3. Remove the split pin, hex nut, lock nut, spring washer, aluminium spacers from the bolt assembly supplied with the shackle assembly (Figure 6). Remove the safety/earthing screw on the shaft and keep it securely
4. Slide the downrod (from split end side) over the shaft. Align the cross holes on the downrod and the shaft.
5. Now use one Aluminium spacer on each side of the down rod for gripping and insert the bolt, place the spring washer and tighten the hex nut and the lock nut and tighten them fully, holding the bolt head with a spanner.
6. Ensure that this bolt is fully tighten. Insert the split pin and separate the projected ends.
7. Fix the earthing wire to safety/earthing screw and tighten the safety screw to shaft over down rod which was removed previously
8. The shackle assembly provided has hex bolt with hex nuts, lock nuts and split pins. When hanging the fan on the hanger the hex bolts should be securely tightened with hex nuts & lock nut.
9. The split pins should be securely replaced in their place as shown in, assembled and exploded views (Figure 6 & Figure 7)



### Internal Wiring Connection (Figure 6A):

1. Connect the Power supply wires (1 N) to the Terminal Connector.
2. Connect the Smart Sense PCB wires with PCB controller smart sense wires (Match the color coding as per mentioned in 6A image) then Use the Twist wire connector.
3. Make sure the Downrod cover is placed on the bottom canopy.

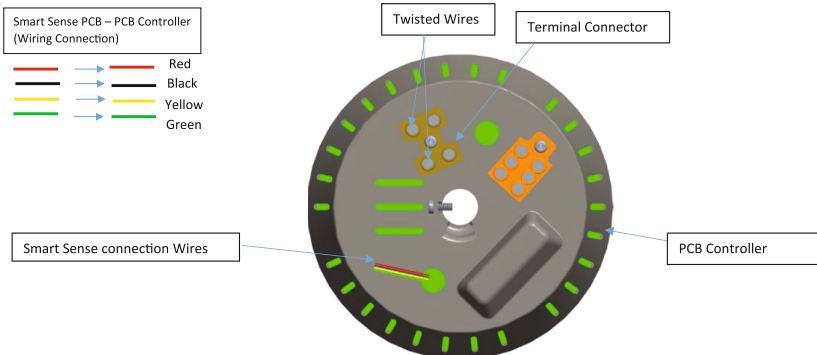
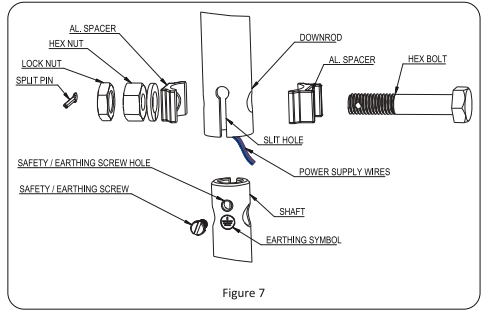
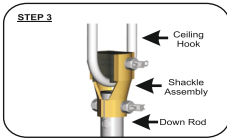
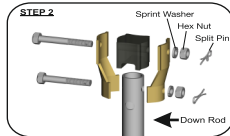
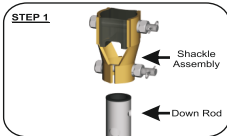


Figure 6A

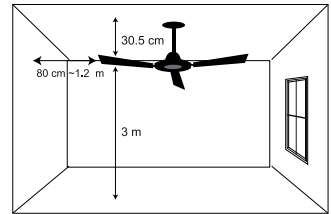
## For Installation of Fan with Ceiling Hook:

1. Steps to mount fan on ceiling hook as shown below.



## Installation Guideline for Better Performance:

- To optimize the Air delivery, ceiling fan should be approx. 3 m from the Ground level and 30.5 cm below the ceiling.
- Remote Maximum Range in all direction is 3 m (with good battery condition) This range may vary if there are obstructions between remote and fan.
- Keep Minimum 80 cm ~1.2 m distance b/w blade tip and side walls.



## Selection Guide:

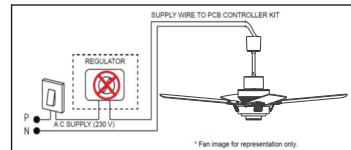
- Ceiling Fan recommended sweep for different room sizes:

Model Size	Sweep / size (mm)	Suitable for room size
Ceiling Fan	600 mm	For Small Shops, Cabins & Toilets
Ceiling Fan	750 mm	1.8 m x 3 m
Ceiling Fan	900 mm	2.1 m x 3 m
Ceiling Fan	1050 mm	3 m x 3 m
Ceiling Fan	1200 mm	3.6 m x 3.9 m
Ceiling Fan	1400 mm	4.2 m x 4.8 m

## Warning:

- Do not damage the blade while installing or cleaning the fan.
- Do not use wet cloth/ any cleaning liquid like Colin for cleaning of blades.
- Do not insert foreign objects between rotating fan blades.
- Tighten the ceiling plate separately with screw in ceiling.
- Tighten the safety screw & down rod bolt properly and lock with lock nut & split pin.

## Wiring Diagram:










## Remote Operating Function:

- Power ON/OFF:
  - Press button to switch ON and switch OFF the preset fan speed and preset light.
- Fan Speed ON/OFF:
  - Press button to switch ON and switch OFF fan speed.
- 1, 2, 3, 4 & 5: Press the desired button for their respective fan speed.
- Mode : Smart / Breeze / Mop / Sleep
  - Press button to select/deselect respective Mode, selected LED icon will illuminate for 5 seconds.
  - Smart Mode : Smart mode automatically adjust its speed level by sensing the temperature & Humidity of room. This mode avails the comfort level by calculating heat index as per standard algorithm and tries to adjust fan speed to achieve comfort level as per recommendations.

HEAT INDEX	SPEED LEVEL
<= 20 °C	1
>20 °C - <= 24 °C	2
>24 °C - <= 28 °C	3
>28 °C - <= 32 °C	4
> 32 °C	5



**Note:**

1. Temperature Accuracy  $\pm 2$  °C Humidity accuracy  $\pm 10\%$ . (Further differences may occur if reference temperature and humidity sensor is kept apart from fan sensor location).
2. In case Smart mode speed distribution is not suitable as per user comfort level, User may switch to normal speed control.
  - Breeze  Mode: Fan speed varies from set speed after every 30 seconds.  
i.e. fan speed increases progressively upto max speed, then decreases progressively upto minimum speed in loop.
  - Mop  Mode: Fan run at 5th Speed for 3 minutes.
  - Sleep  Mode: Fan reduces speed level at fixed interval
3. If fan is running at SPEED LEVEL 5 then speed will reduce one level at 90 minutes interval till 1st speed and continuously run at 1st speed.
4. If fan is running at SPEED LEVEL 4 then speed will reduce one level at 120 minutes interval till 1st speed and continuously run at 1st speed.
5. If fan is running at SPEED LEVEL 3 then speed will reduce one level at 180 minutes interval till 1st speed and continuously run at 1st speed.
6. If fan is running at SPEED LEVEL 2 then speed will reduce one level at 360 minutes interval till 1st speed and continuously run at 1st speed.
5. **Reverse:**
  - When reverse button is pressed, Fan will stop and then start running in reverse direction.
  - In reverse Fan will rotate by default <100 RPM approx.
  - Timer is applicable when fan is running in reverse.
  - Modes and speed control will be Deactivated, on pressing Mode/Any speed button buzzer will give 2 Beeps for indication that Fan is running in reverse direction. User has to Switch OFF the fan from Remote and Switch ON from remote for forward direction.
  - IMPORTANT "When Fan is running in reverse, Power goes OFF and comes, Fan will be OFF".
6. **2 h, 4 h, 6 h, 8 h:** Press  button to select/deselect respective Timer LED icon, selected icon will illuminate for 5 seconds. i.e. Fan will work on the set speed for selected hours before Powering OFF automatically.
7. **Light ON/OFF:**
  - Press  button to switch ON and switch OFF fan Light.
8. **Light Intensity Control:** 5 Intensity Level from Dimming to Smooth Glowing
  - Press  button to change Intensity of Light.
9. **Light Colour Control:** Warm White / Neutral White / Cool White
  - Press  button to change colour of Light.

**NOTE:**

1. Use AAA Battery (2 N) available in box. In case battery is drained, use AAA Battery (2 N) of preferred brand.
2. PCB failure in the circuit due to external regulator will not be covered under warranty.
3. Wall Mount Regulator should be disconnected for fan safety and better performance.
4. Minor reverse rotation/lag when the fan starts, is a normal phenomenon in BLDC Fans, it's not a defect.
5. After Power cutoff and resume, all the Fan modes & timer will be deactivated.

## Troubleshooting:

Problem	Solution
A. Fan does not start	1. Check circuit fuses or breakers. 2. Check line wire connections of the fan. <b>Caution:</b> Make sure Main power is OFF.
B. Fan sounds Noisy	1. Make sure all motor housing screw are snug. 2. Make sure the screws that attach the fan blade to the motor hub is tight. 3. Make sure there is a gap between Top Canopy and Ceiling.
C. Fan Wobbles	1. Don't connect the fan with wall mounted External Regulator. 2. Ensure all blades are of same numerical code.
D. Remote Sensing is poor	1. Change old battery with new. 2. Please ensure the remote is directed towards the fan.
E. Fan changes its speed on its own	1. Check the mode selected. You must have selected Breeze Or SLEEP mode.

# E-WASTE DISPOSAL

## Environmental Compliances:

As per the rules laid down by the Government for environmental concern & safety, your product has been made to comply and conform to the respective regulation as listed below. This product falls under the E-WASTE (MANAGEMENT) RULES, 2022 with all amendments of Ministry of Environment, Forest & Climate Change.

## RoHS Declaration:



This Product is in conformity with requirements of Rule 16 of the E-WASTE (MANAGEMENT) RULES, 2022 with all amendments. The content of hazardous substances with the exemption of the applications listed in SCHEDULE II of the E-Waste (Management) Rules, 2022 with all amendments is as follows:

- Lead (Pb): not over 0.1% by weight;
- Mercury (Hg): not over 0.1% by weight;
- Cadmium (Cd): not over 0.01% by weight;
- Hexavalent Chromium (Cr6+): not over 0.1% by weight;
- Polybrominated Biphenyls (PBBs): not over 0.1% by weight;
- Polybrominated Diphenyl Ethers (PBDEs): not over 0.1% by weight.

## Do's and Don'ts for disposal of product:



### 1. Do's:

- Always drop your used electrical/electronic products, defective spares or any accessories and packaging materials after the end of their life at the nearest authorized collection point/center.
- Make sure that your electronic products are recycled only by authorized recyclers/dismantlers.
- Segregate the packaging materials according to their respective waste disposal options and sorting for recycling.
- Protect the glass surface of any electronic product to avoid breakage.

### 2. Don'ts:

- Never dismantle your electronic product yourself.
- Never sell or give E-Waste to informal and unorganized sectors like local scrap dealer/rag pickers.
- Never dump E-Waste in garbage bins or municipal solid waste stream.
- Do not dispose your product as unsorted municipal waste.

## For more information on safe disposal, recycling and collection point, visit our website

<https://www.havells.com/en/discover-havells/ewaste-awareness.html>

or write a mail to [ewaste@havells.com](mailto:ewaste@havells.com)

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Specifications & performance data are constantly changing.

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