

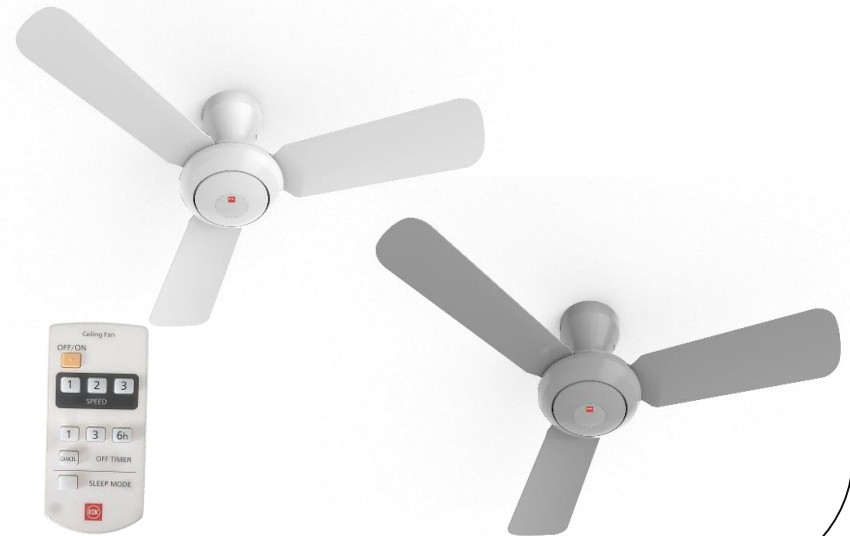


# FY2023 KDK Ceiling Fan New Model & Installation Seminar

DC4 (New Model K14TE)



Baby Fan With Hook (New Model K11ZF)



# Table Of Content

1. New Model Introduction.
2. Ceiling Fan Good Installation Practice.
  - Before Installation
  - During Installation
  - Video Installation
3. Ceiling Fan Check Point (After Installation)



# *DC 4 Series*



**K14TEVBDH**  
**K14TEVBWH**



# KDK DC Ceiling Fan

56 inch DC Motor



## Concept

### DC Motor

1

- ◆ Less energy up to 55% compare to AC motor
- ◆ Quiet operation
- ◆ More compact and lighter motor

### Safe to Use

2

- ◆ Prevent body falling: Safety Wire, Cut-off Safety Switch
- ◆ Prevent blade falling: Blade Safety Plate

### Elegant Design and Extendable

3

- ◆ Clean and spatial fit design
- ◆ Extendable pipe to suit all ceiling height for commercial and residential

### Easy Maintenance

4

- ◆ New structure do not require ceiling fan to be uninstalled for PCB service

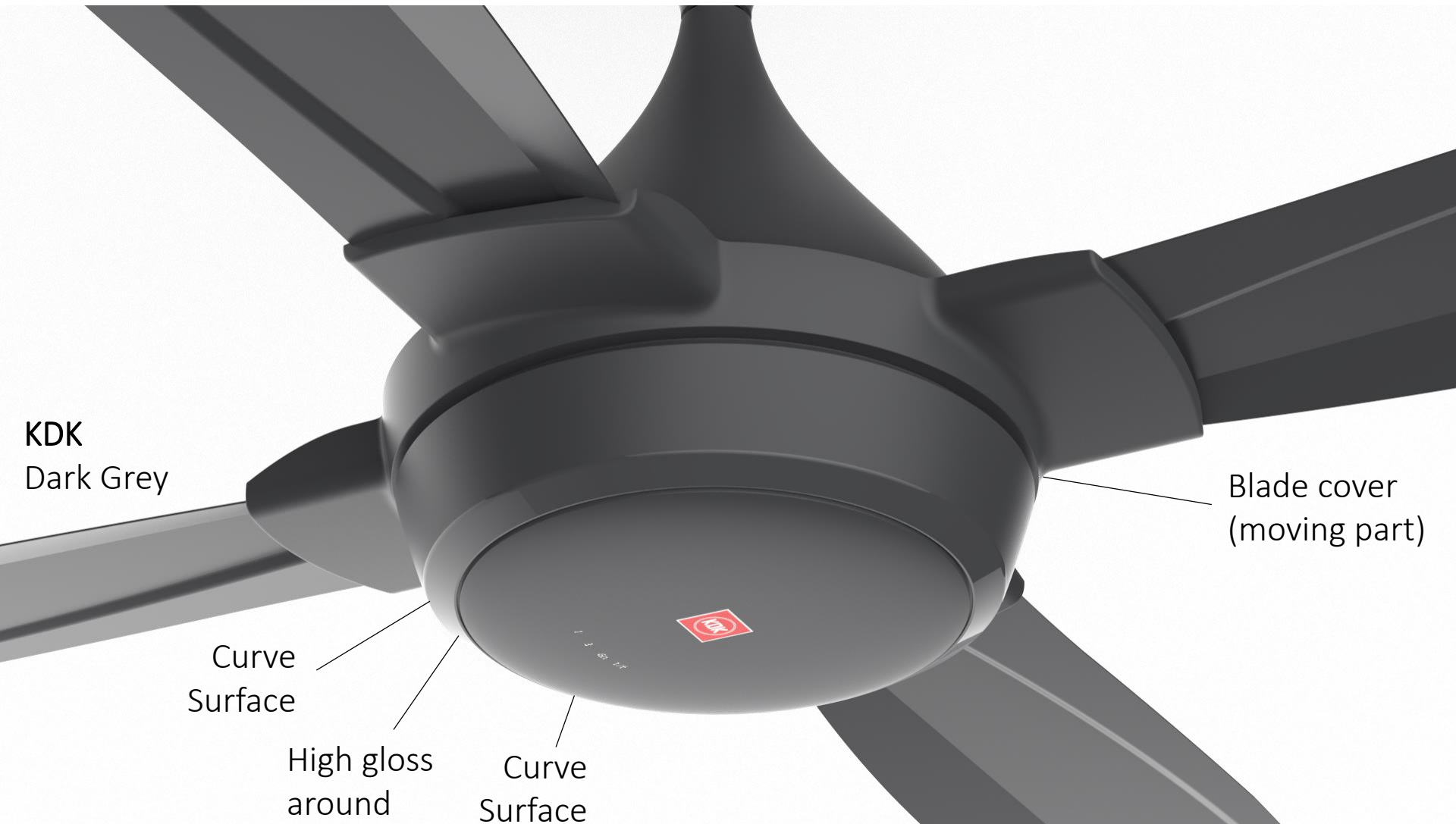
New Model Name			K14TE	
Fan	Blade		140cm, 4 blade, Metal	
	Color		Dark Grey, White	
	LED Light Indicator		Timer (Red), Yuragi (Green)	
	Structure		Hook, Pipe Type	
	Height		294mm	
Performance / Spec	Motor		DC Motor	
	Power Consumption	Low	3W	
		High	29W	
	Speed Power (RPM)	Low	80	
		High	200	
	Air Velocity		165 m/min	
	Air Delivery		220 m³/min	
	Method		Remote Control	
	OFF Timer		1,3,6 Off Timer	
	Sleep Mode		Yes	
	1/f Yuragi		Yes	
	No. of Speed		5	
	MEPS Rating		5 Star	
Net Weight			5.1 kg	

# Design Concept

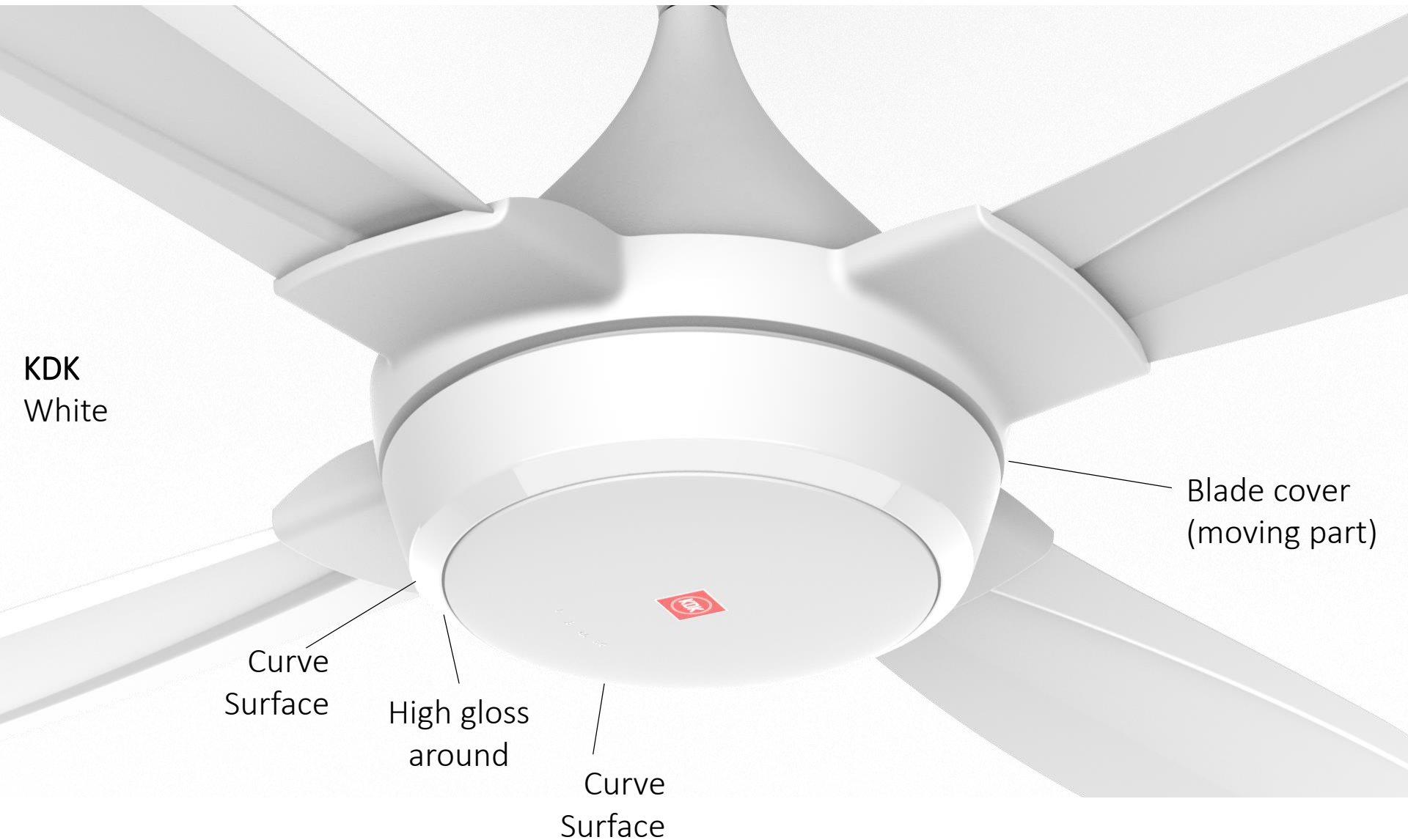


Clean & timeless giving modern touch to the product  
Feel performance, technic, durability & edgy design

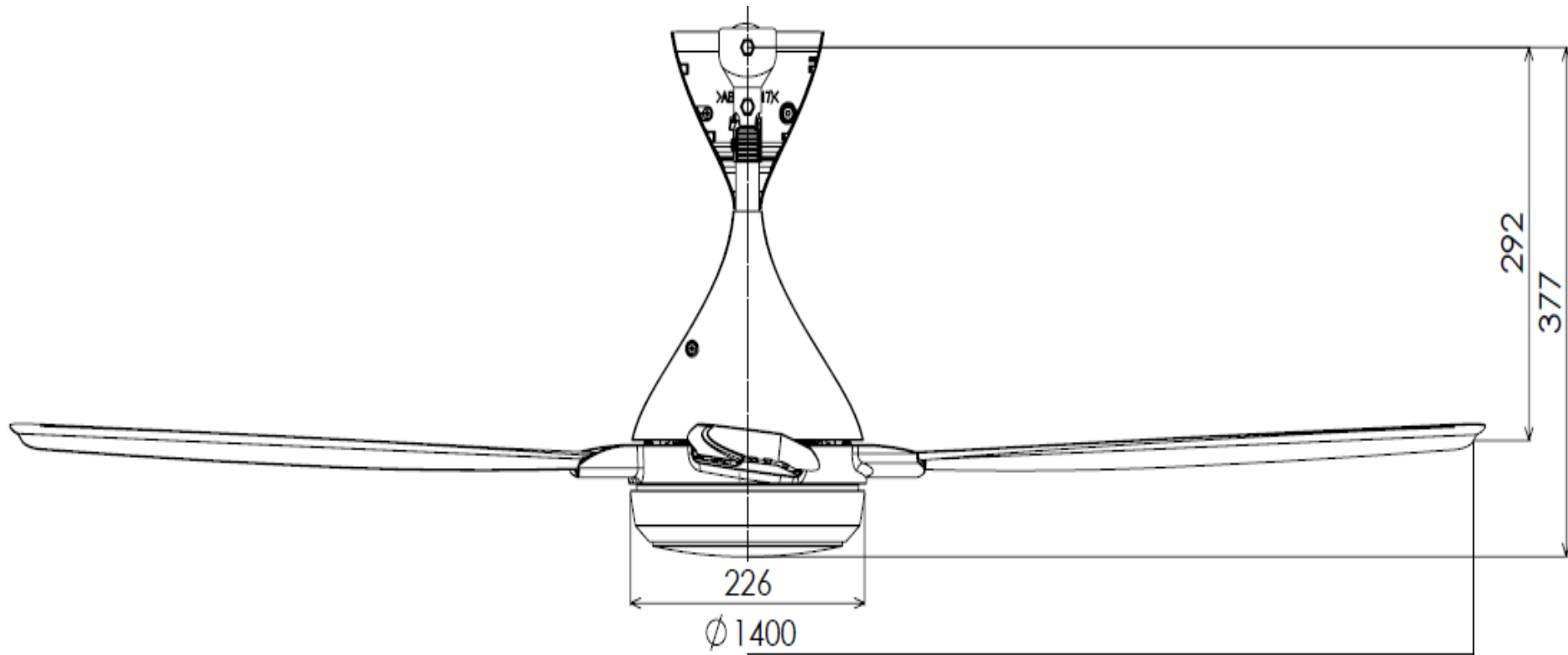
# Product Image



# Product Image



# Installation Space

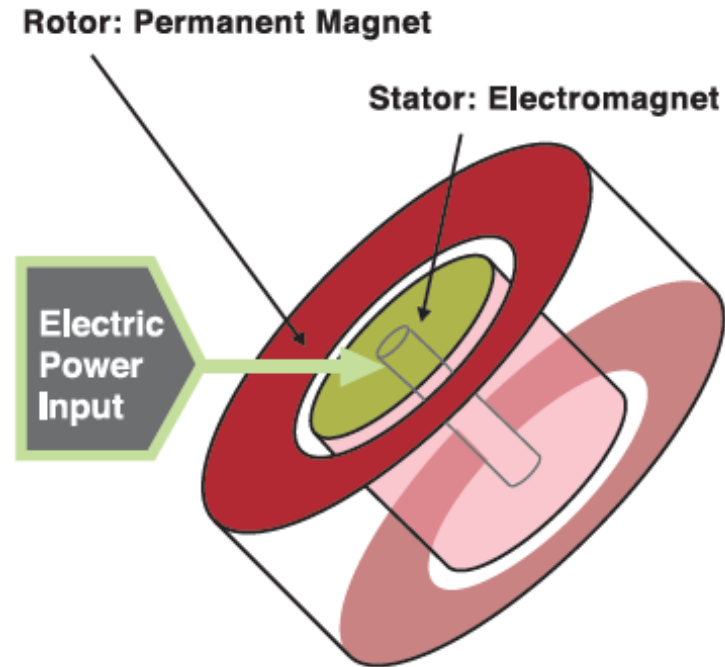


# Product Features

- Strong and smooth air breeze in silent operation.
- **DC Motor** – Direct Current motor for energy saving.
- **Remote control** - Function with 1-5 speed control. 1,3,6 hours off timer and 3-6 hours sleep mode
- **Safety Features** - Enhanced with Cut-off safety Device, Blade Safety Hanger and Safety Wire.
- **LED Light Indicators** - 4 LED light indicators for Off Timer and 1/f Yuragi functions
- **Natural Breeze** - 1/f Yuragi is irregularity and a phenomenon that widely exists in nature. It has a natural rhythm that makes a person feel relax just like a nature breeze

# DC Motor

DC (Direct Current) motor, the AC (Alternative Current) power source is converted to DC, which energizes the stator coils electronically. The motor's rotor will then be rotated by the mechanism of magnets attraction and repulsion where this process requires less electrical energy.

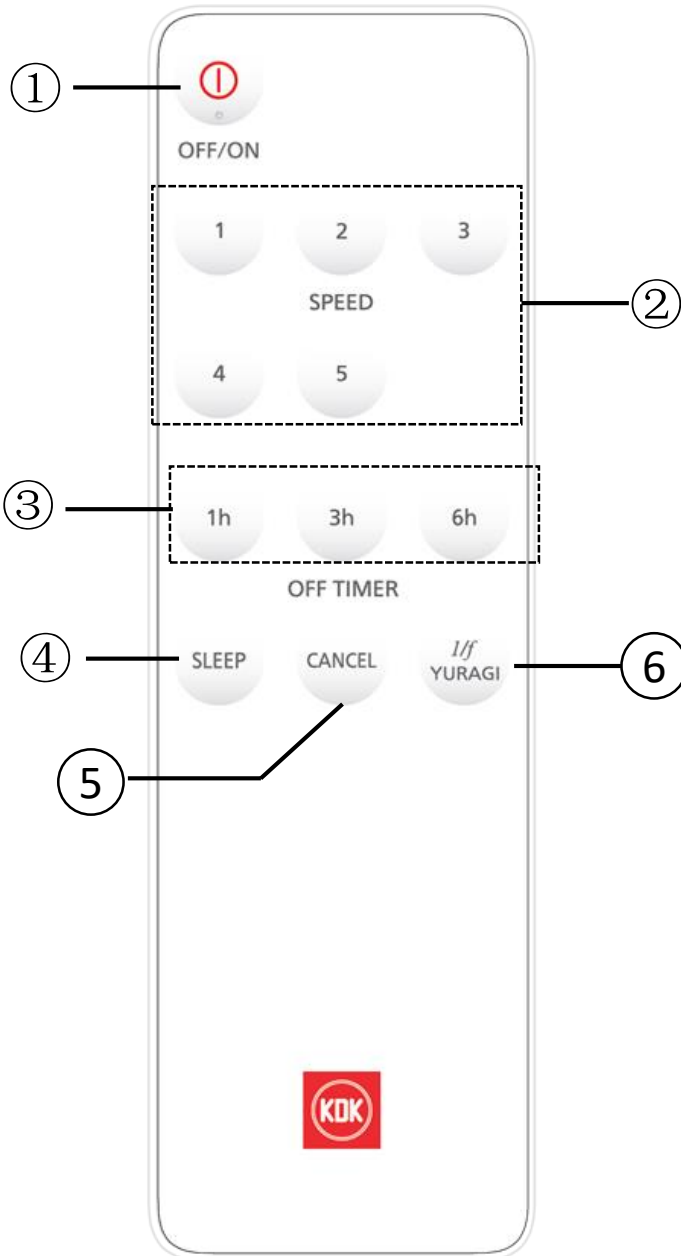


Electric power supply to magnetise **STATOR** only

## Advantages

- ✓ Use less energy - up to 55% compare to AC motor
- ✓ Motor quite operation
- ✓ More compact design & lighter motor

# Remote Control



## ① On/Off Button

Press On/Off Button to activate or deactivate the ceiling fan

## ② Speed Button

To select speed selection from Speed 1 to Speed 5

## ③ Off Timer Button

1-6 hours Off Timer Setting

## ④ Sleep Mode Button

To stop Ceiling Fan according to time setting

## ⑤ Timer Cancel Button

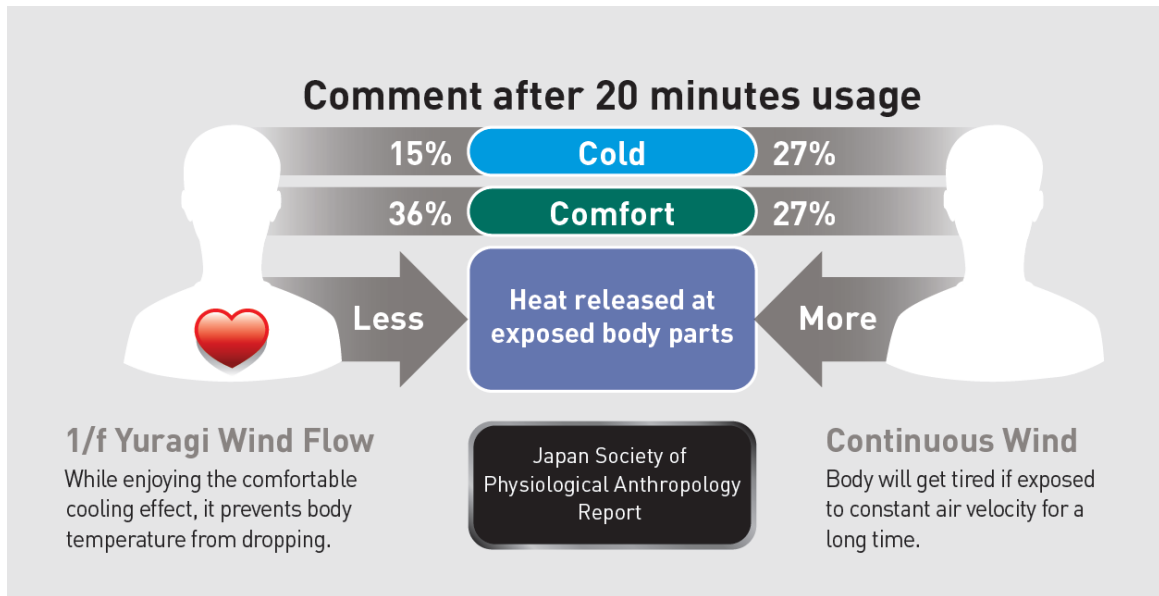
Press to cancel SLEEP Mode or OFF Timer

## ⑥ Yuragi Button

One touch button for natural breeze

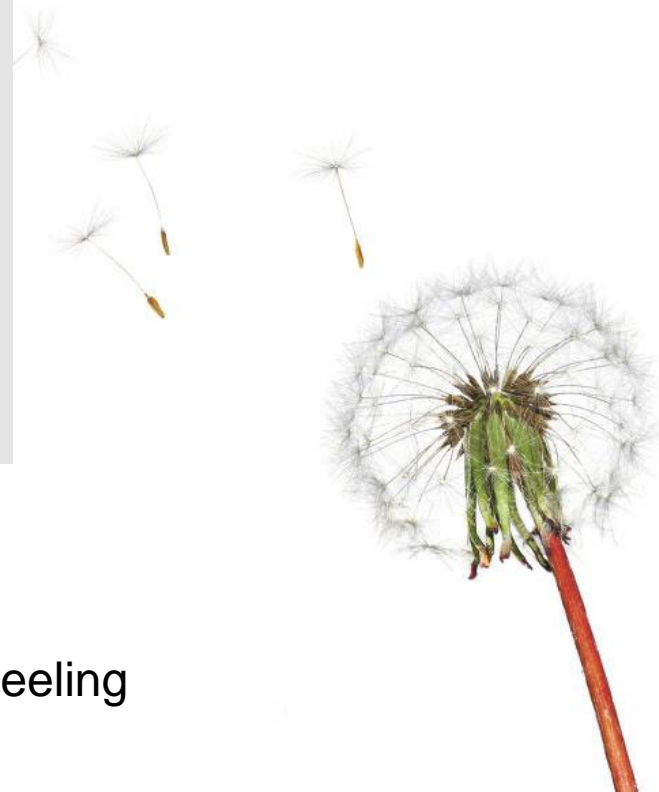
# 1/f Yuragi Function

1/f Yuragi function is a fluctuating pattern that mimic **natural and gentle breeze**. It adds smooth accent to air capacity and deliver comfortable wind more naturally.



## Advantages

- ✓ Maintains comfortable external body temperature
- ✓ Natural wind gives user peaceful and comfortable feeling



# SLEEP Mode

When SLEEP Mode is enabled, fan speed and timer will gradually reduce until the fan is turned off.

Timer / Pemasa / 计时器	6h	5h	4h	3h	2h	1h	0h
Speed 5 / Kelajuan 5 / 速度 5	5	→	3	→	1	→	OFF / TUTUP / 关闭
				5	→	3	
Speed 4 / Kelajuan 4 / 速度 4	4	→	2	→	1	→	
				4	→	2	
Speed 3 / Kelajuan 3 / 速度 3	3	→	1	→	→	→	
				3	→	1	
Speed 2 / Kelajuan 2 / 速度 2	2	→	1	→	→	→	
				2	→	1	

- SLEEP MODE can only use with OFF TIMER enabled.
- SLEEP MODE function is disabled either at Speed 1 or 1-hour setting.
- SLEEP MODE function is deactivated, if TIMER SETTING is changed.

## Advantages

- ✓ Create optimal sleeping environment
- ✓ Energy Saving

# Safety Features

## 1 Prevention of body falling off

- Safety Wire
- Cut-off Safety Switch



## 2 Prevention of blade falling off

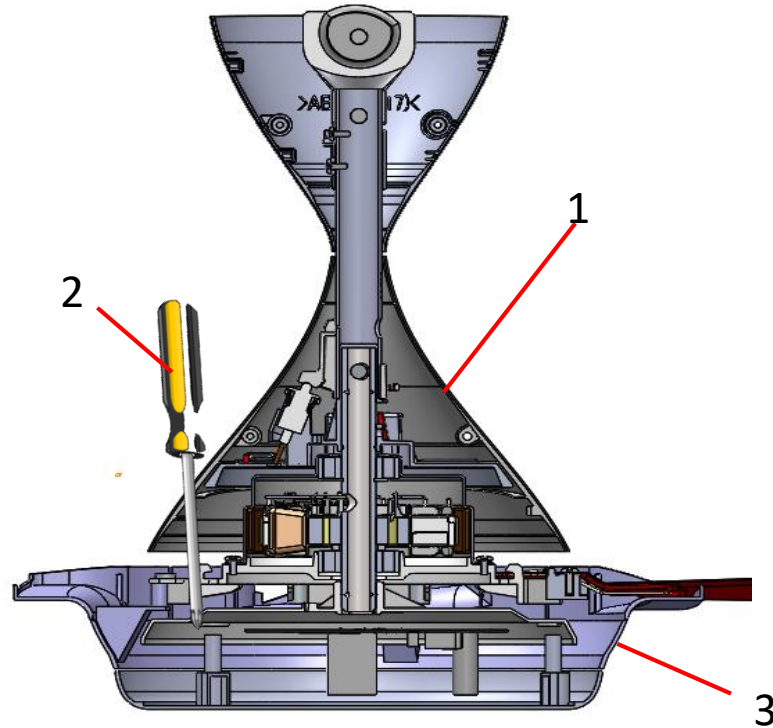
- Safety Hanger

## 3 Prevent over current supply to motor

- Current Fuse

# Easy PCB Service Replacement

## DC4 Models



1. Dismantle Lower Canopy
2. Unscrew Deco Cover from Top
3. Take out PCB

# Safety Features

- ! *Safety Wire must be fixed correctly and connected at all times.*
- ⊗ *Do not use modified parts other than original supplied parts.*
- ⊗ *Do not install at a location directly hit by wind.*

## Cut-off Safety Switch

### Problem

If there is any damage at either the shaft or bolt due to improper installation, abnormal wobbling from the fan will occur when it operates. The damage will cause the shaft or the bolt to break if the fan continues to operate.

### Preventive Measures

When there is excessive wobbling, the cut-off safety switch will be triggered and power supply will be cut off. The cut-off safety switch works by detaching the lever from the switch and the fan will stop.

## Safety Hanger

### Problem

The fan blade may detach from the fan motor should there be improper installation coupled with the fan blade wearing off, deformed blade shape or stronger wind blowing to the fan.

### Preventive Measures

The faulty blade will be visibly hanging with the aid of safety plate/hook when the fan is operating.

## Safety Wire

### Problem

Due to improper installation or should malfunction occur, the fan motor may detach from the pipe rod due to factors such as wearing off shaft or bolt etc.

### Preventive Measures

Safety wire helps to secure fan motor to the ceiling hook to prevent it from falling when the fan motor detaches from the pipe rod.



# *Baby Fan Series (Hook Type)*

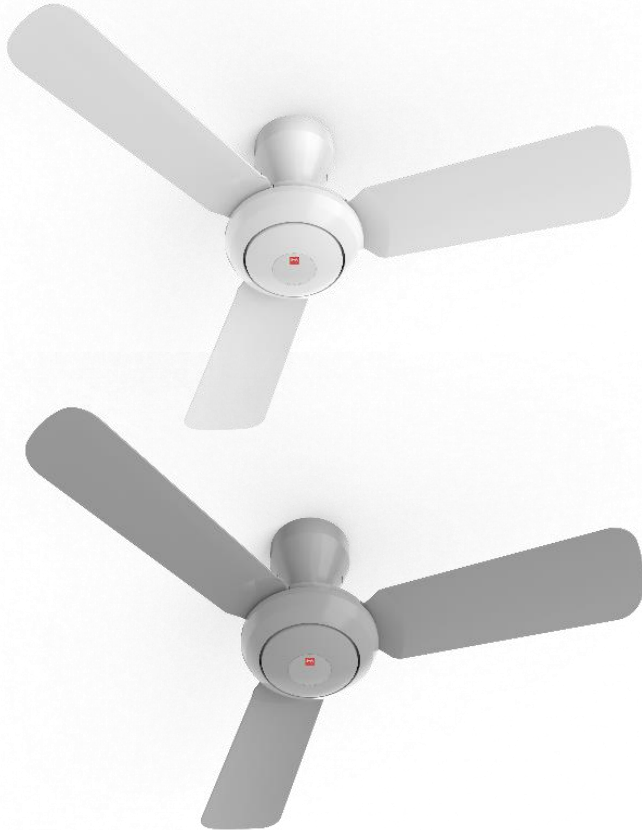


# Product Concept

## Concept



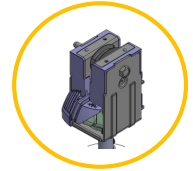
**K11ZF**



**1**

### Easy Installation

◆ Hook Structure



**2**

### Easy to use

◆ Remote Control with Speed Selection & Timer Function



**3**

### Stylish & Compact Design

◆ Suitable for Small bedroom and Study room

**4**

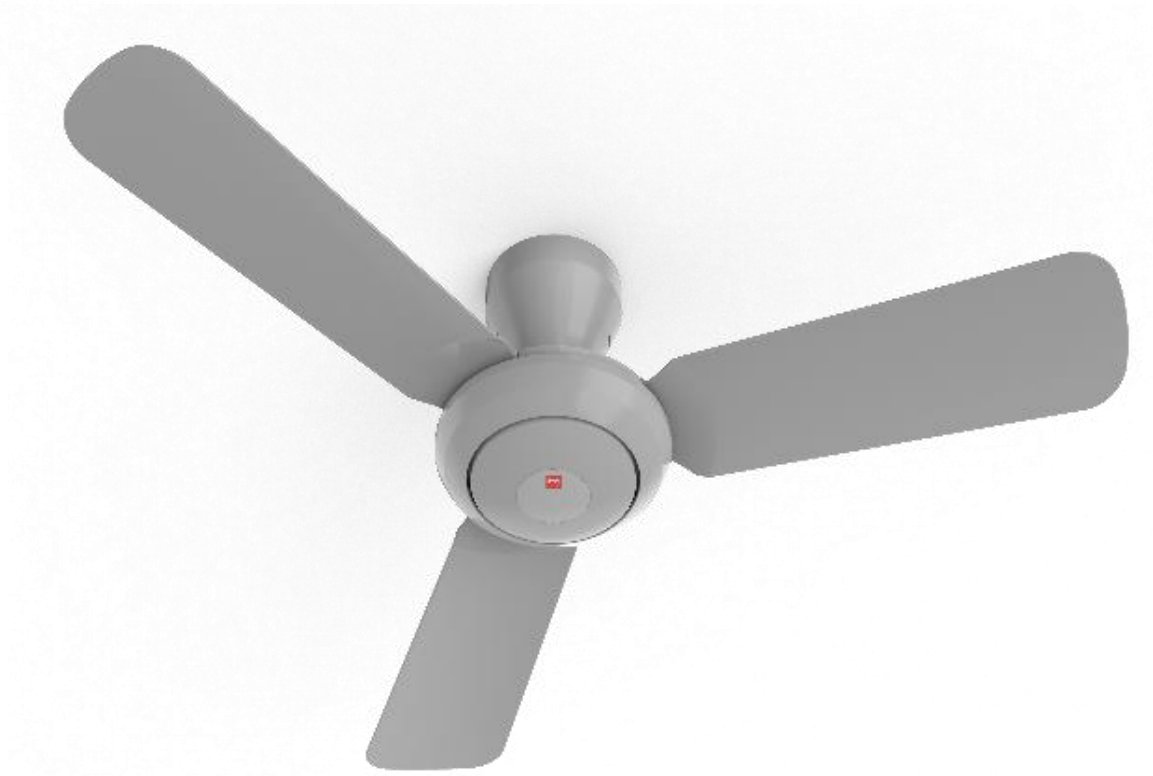
### Safe to Use

◆ Comply to Safety Policy

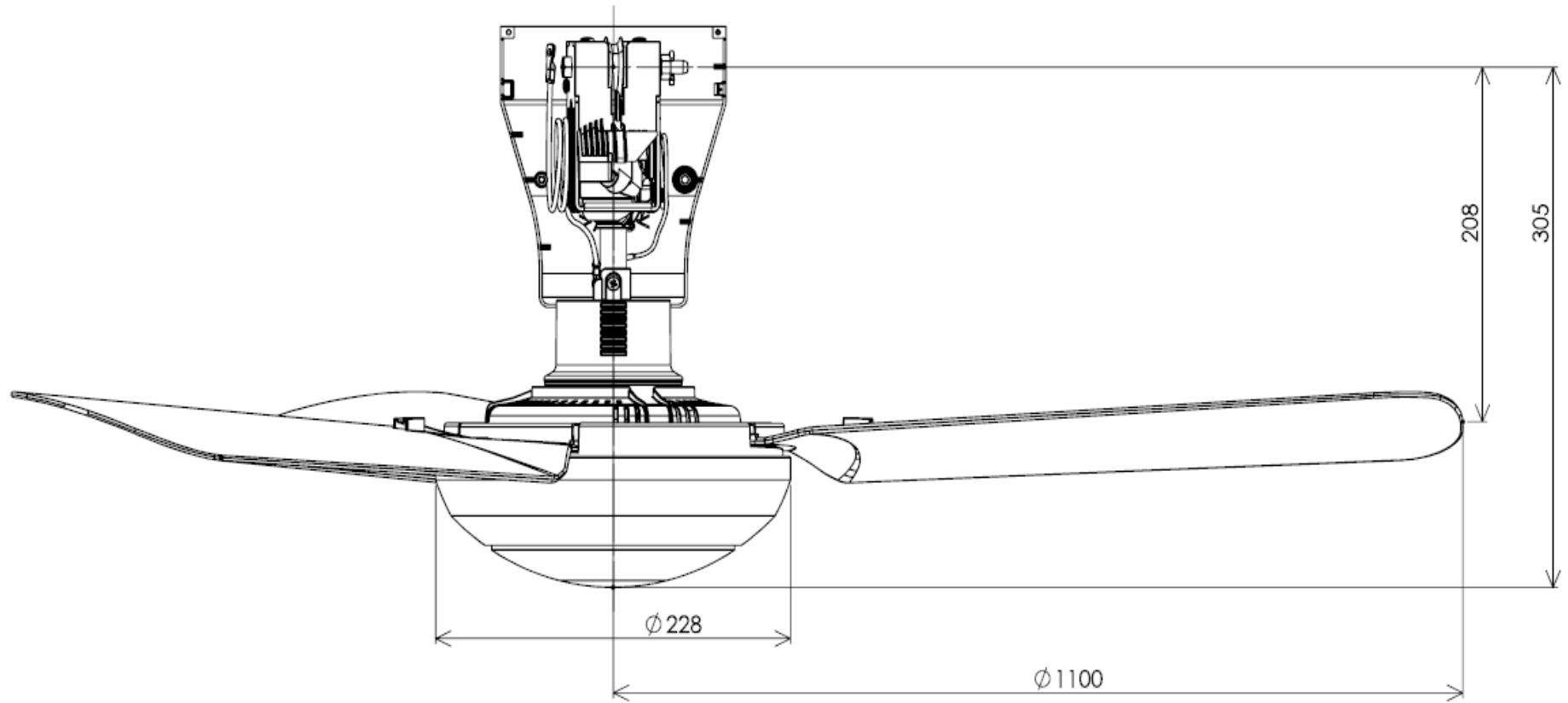
- Thermal Safety Switch
- Cut-off Safety Switch
- Safety Wire
- Blade Safety Plate for drop prevention

			K11ZF
Fan	Blade		110cm, 3 blade, PPG
	Color		White, Grey
	Structure		Hook
	Height		208mm
Performance / Spec	Motor		AC Motor
	Power Consumption	Low	20W
		High	58W
	Speed Power (RPM)	Low	133
		High	239
	Air Velocity		200 m/min
	Air Delivery		170 m³/min
	Noise Level		49.5 dB
	Method		Remote Control
	OFF Timer		1,3,6 Off Timer
	Sleep Mode		Yes
	No. of Speed		3
	MEPS Rating		5 star
	Motor HP		0.077
Net Weight			5.2 kg

# Product Image

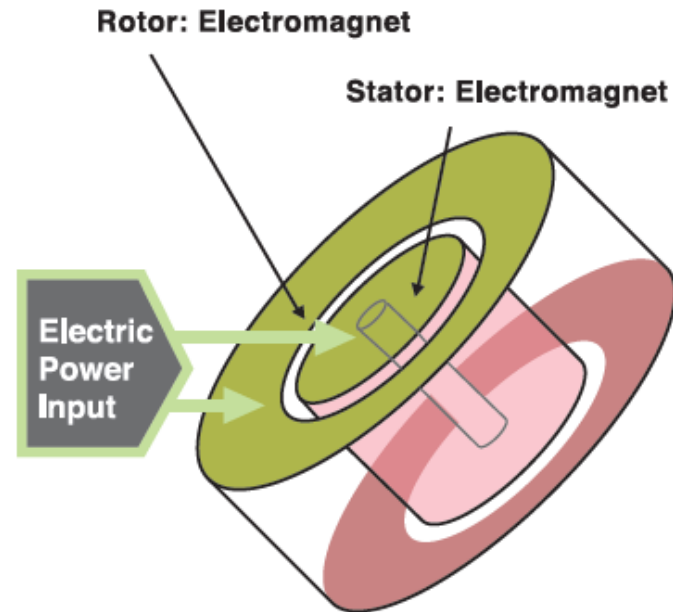
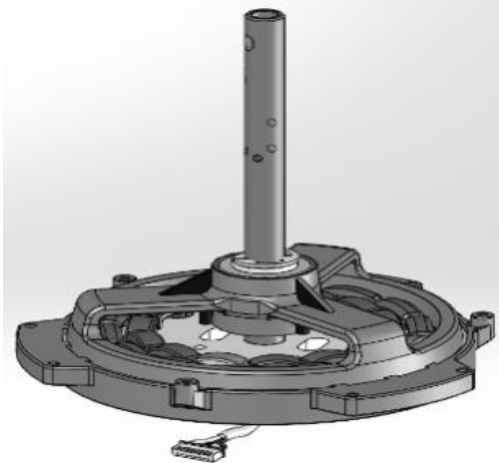


# Installation Space



# AC Motor

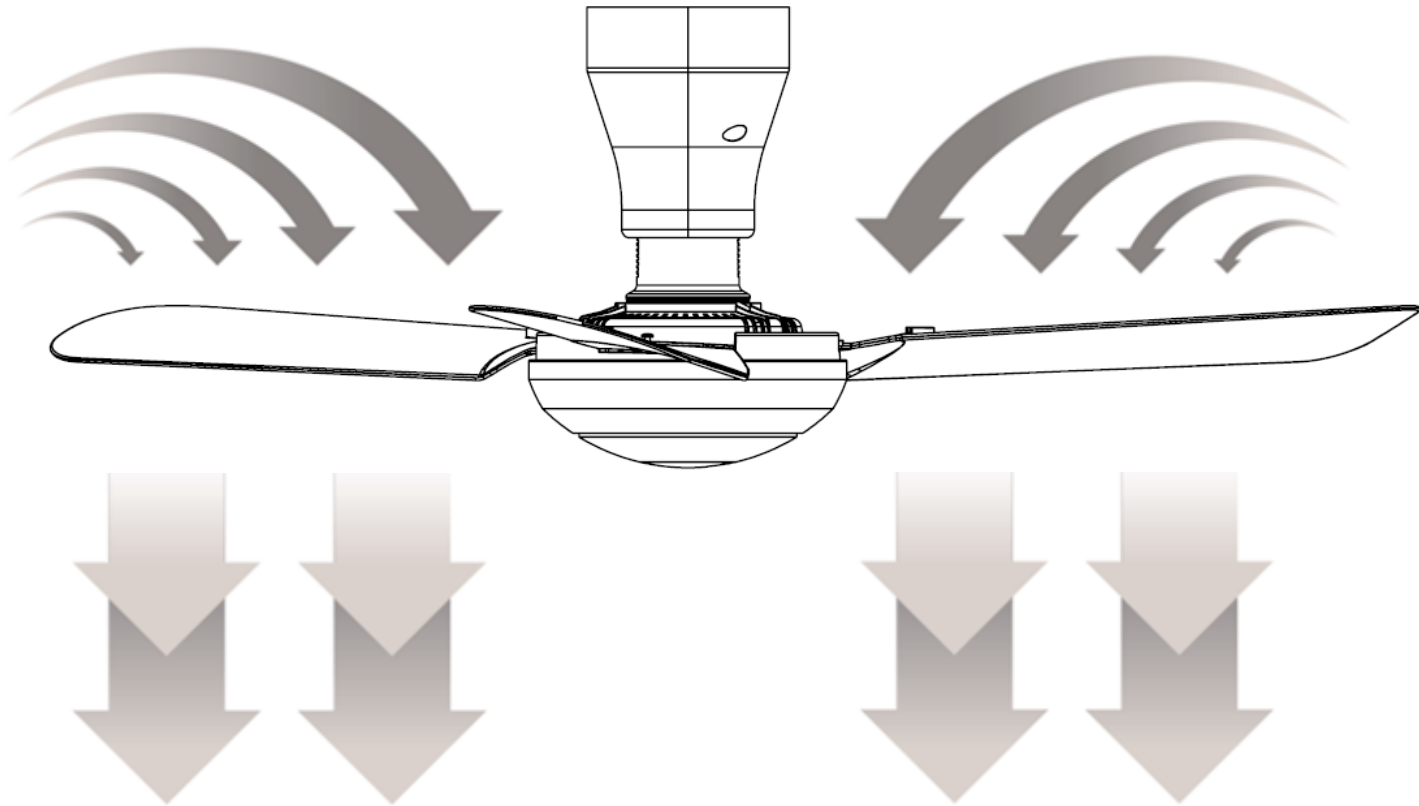
AC (Alternative Current) motor connects directly to a power source where it creates the moment of force required to rotate the motor's rotor.



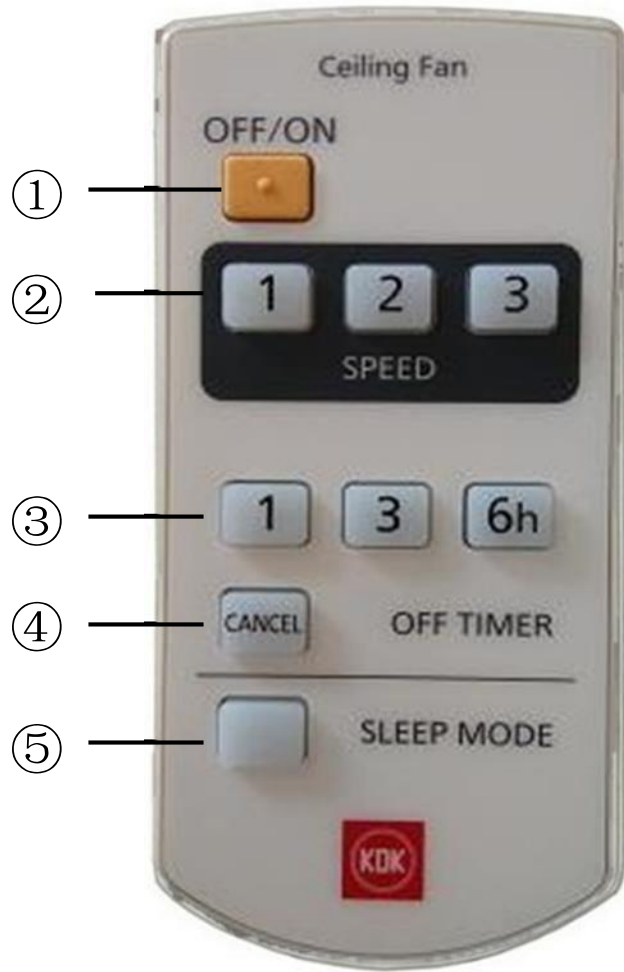
Electric power supply to  
magnetise both  
**STATOR & ROTOR**

# PPG Plastic Blade

PPG Plastic Blade made from durable PP reinforced with Fiberglass material. Provides a smooth and strong air flow while maintaining operating noise in low level.



# Remote Control



## ① On/Off Button

To switch ON or OFF Ceiling Fan

## ② Speed Button

To select Speed 1,2,3

## ③ OFF Timer

To select OFF Timer 1,3,6 Hour

## ④ Timer Cancel

Press to cancel SLEEP Mode or OFF Timer

## ⑤ Sleep Mode

To stop Ceiling Fan according to time setting

# SLEEP Mode

When SLEEP Mode is enabled, fan speed and timer will gradually reduce until the fan is turned off.

Timer	6H	5H	4H	3H	2H	1H	0H
Speed 3	3	→	2	→	1	→	OFF
				3	→	2	
Speed 2	2	→	1	→	→	→	
				2	→	1	

- SLEEP MODE can only use with OFF TIMER enabled.
- SLEEP MODE function is disabled either at Speed 1 or 1-hour setting.
- SLEEP MODE function is deactivated, if TIMER SETTING is changed.

## Advantages

- ✓ Create optimal sleeping environment
- ✓ Energy Saving

# Safety Features

- ! *Safety Wire must be fixed correctly and connected at all times.*
- ⊗ *Do not use modified parts other than original supplied parts.*
- ⊗ *Do not install at a location directly hit by wind.*

## Cut-off Safety Switch

### Problem

If there is any damage at either the shaft or bolt due to improper installation, abnormal wobbling from the fan will occur when it operates. The damage will cause the shaft or the bolt to break if the fan continues to operate.

### Preventive Measures

When there is excessive wobbling, the cut-off safety switch will be triggered and power supply will be cut off. The cut-off safety switch works by detaching the lever from the switch and the fan will stop.

## Thermal Fuse

### Problem

If there is any sudden surge in current or abnormality in motor, there might be heat built-up.

### Preventive Measures

Before motor over-heated, Thermal fuse will be cut-off and motor stops

## Safety Wire

### Problem

Due to improper installation or should malfunction occur, the fan motor may detach from the pipe rod due to factors such as wearing off shaft or bolt etc.

### Preventive Measures

Safety wire helps to secure fan motor to the ceiling hook to prevent it from falling when the fan motor detaches from the pipe rod.

## Safety Plate

### Problem

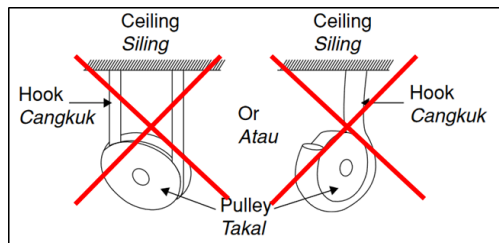
The fan blade may detach from the fan motor should there be improper installation coupled with the fan blade wearing off, deformed blade shape or stronger wind blowing to the fan.

### Preventive Measures

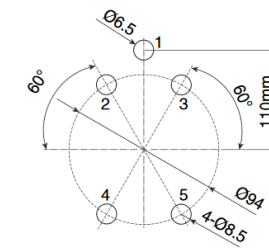
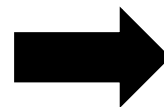
The faulty blade will be visibly hanging with the aid of safety plate/hook when the fan is operating.

*If any of issue happens, Stop using immediately and contact qualified installer or authorized Panasonic service dealer for assistance.*

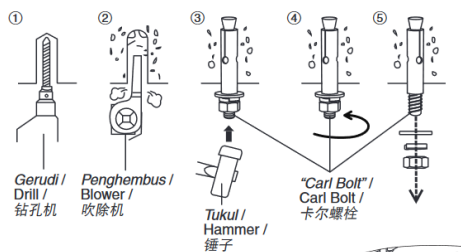
# Easy Installation Method



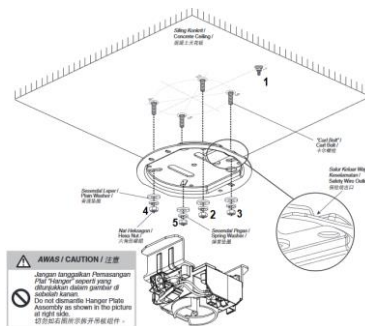
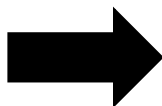
Remove the ceiling hook



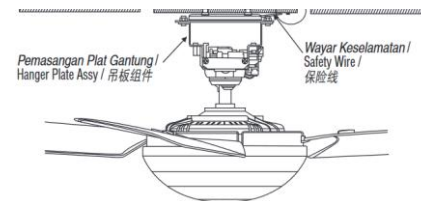
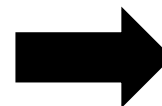
Drill 5 holes on the concrete ceiling



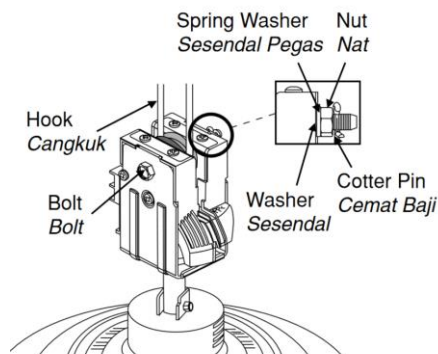
Install Carl Bolt



Fix the Hanger Plate Assembly to the concrete ceiling



Fix ceiling fan into hanger plate



Fix ceiling fan into ceiling hook

# Perfect fit for narrow spaces



Simple clean design that can simply immerse to any environment



# *Commercial Wall Fan*



# PRODUCT FEATURES

1

## STRONGER AIRFLOW

- ✓ **Aluminum blade** designed for stronger airflow
- ✓ **Increase blade size to 50cm** from current 45cm
- ✓ Target air velocity: 300m/min.
- ✓ 27% higher air velocity compared to current 45cm



2

## NEW GUARD DESIGN TO DELIVER COOLNESS FURTHER

- ✓ **Straightening guard** designed to focus more airflow to reach further distance
- ✓ Reach up to 0.8m/s at a distance of 10m



3

## MODERNIZED DESIGN APPEARANCE

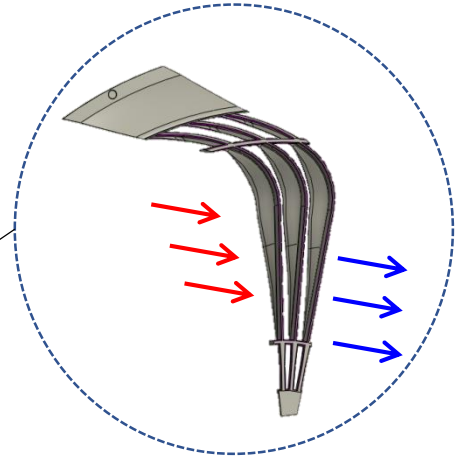
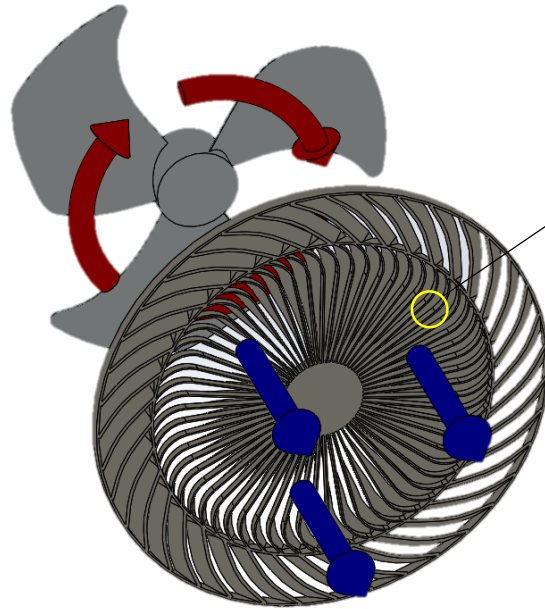
- ✓ Utilizing new resin injection guard to achieve New Advance Design
- ✓ Plastic guard that prevents rusty issue

			KU50Y, KU50Y-DG
Fan	Blade		50cm, Aluminium
	Color		White, Dark Grey
	Structure		Wall Type
	Height		208mm
Performance / Spec	Motor Type		14 Pole Condenser
	Power Consumption	Low	60W
		High	70W
	Speed Power (RPM)	Low	940
		High	1280
	Air Velocity		300 m/min
	Air Delivery		110 m³/min
	Noise Level		59 dB
	Speed Control		Pull String Switch
	No. of Speed		3
	MEPS Rating		5 star
	Motor HP		0.094
Net Weight			6.0 kg

# Product Image

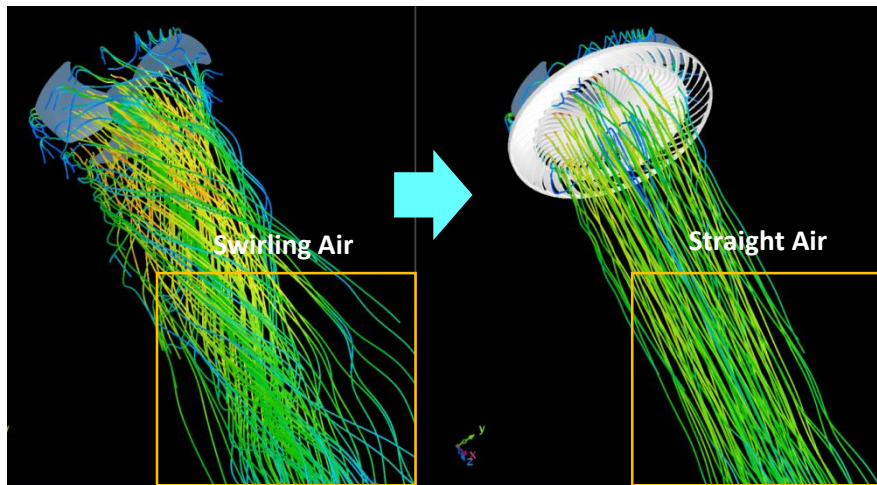


# NEW FRONT GUARD



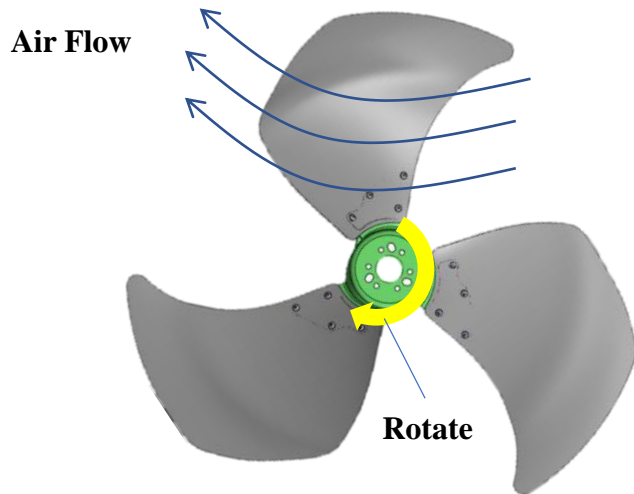
## Turbo Fin Guard

Front *Turbo Fin Guard* is shaped like stator blade to minimize pressure loss and generate maximum airflow.



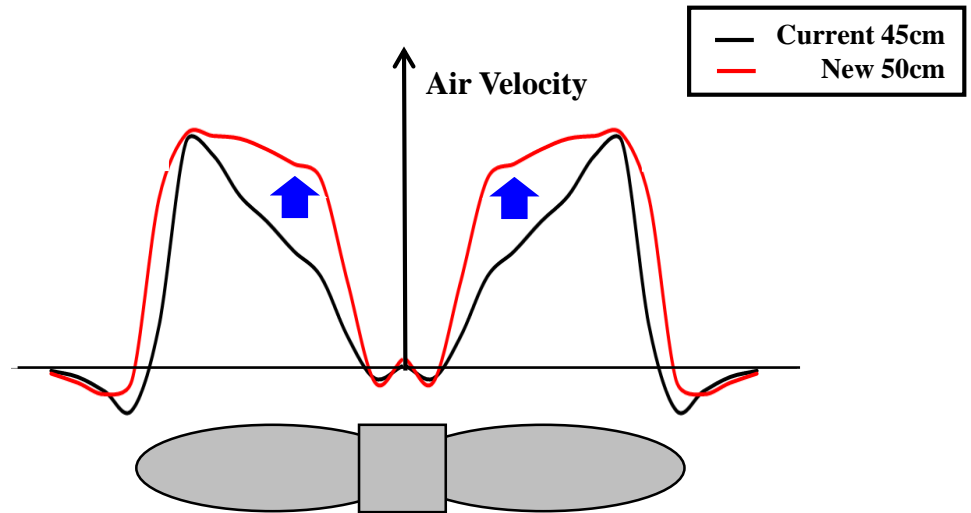
Turbo Fin Guard will convert the swirling air to straight air; which focuses airflow to reach a further distance.

# NEW METAL BLADE

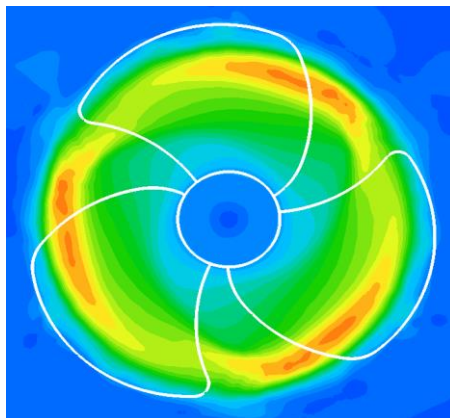


## New Blade Design

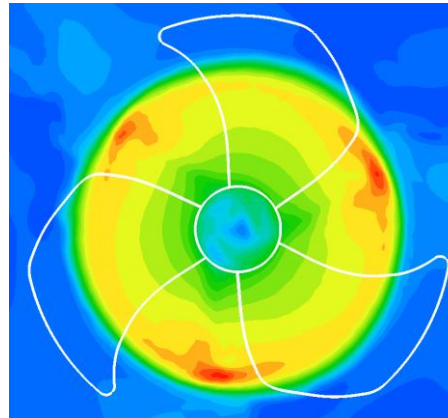
New Blade are designed to spins at maximum speed to generate higher air velocity



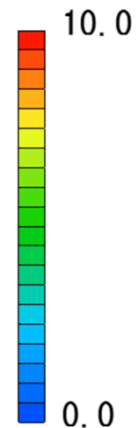
Current 45cm



New 50cm

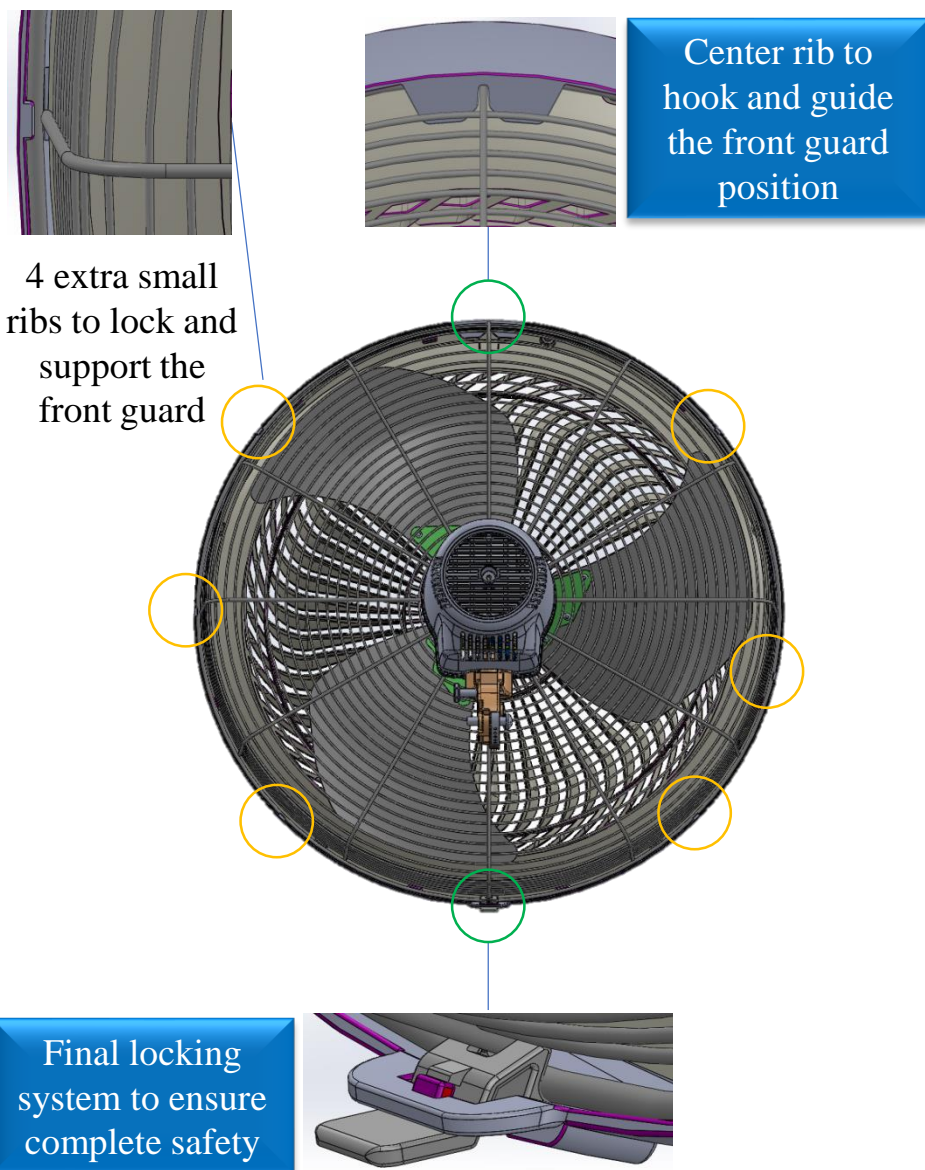


Air Velocity m/s

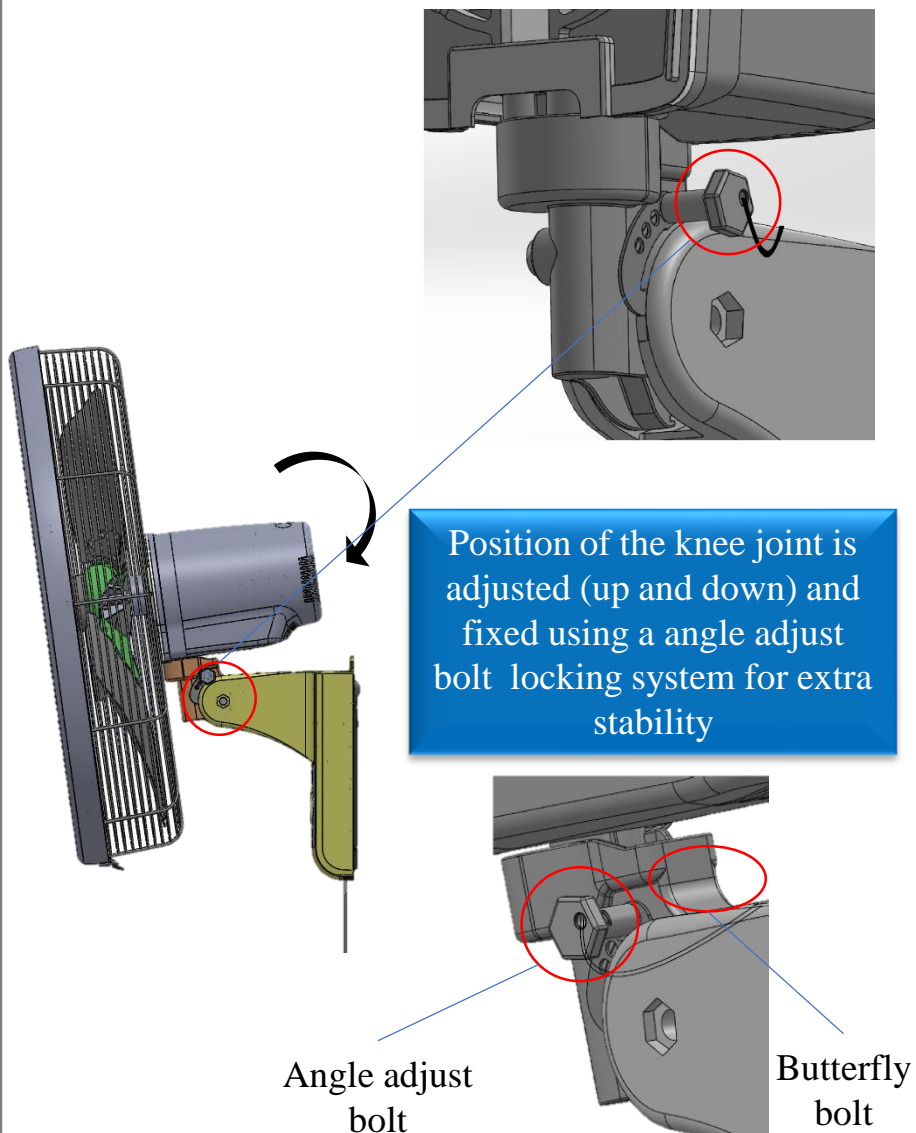


# DOUBLE SAFETY FEATURES

## GUARD LOCKING SYSTEM



## KNEE-JOINT POSITION FIX STRUCTURE





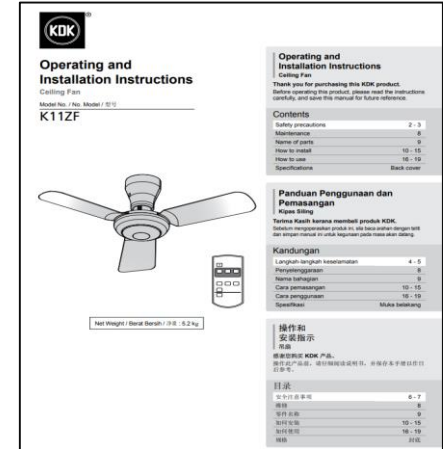
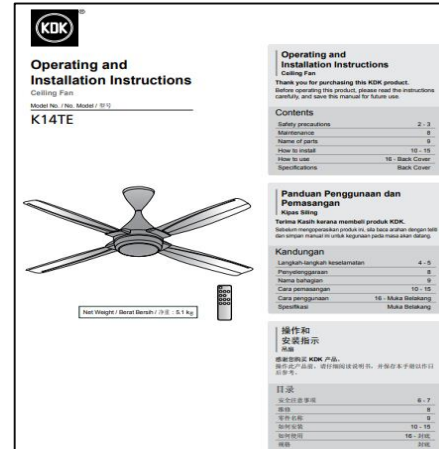
## **② *Ceiling Fan Good Installation Practice (K14TE)***

- *Before Installation***

# Ceiling Fan Good Installation Practice

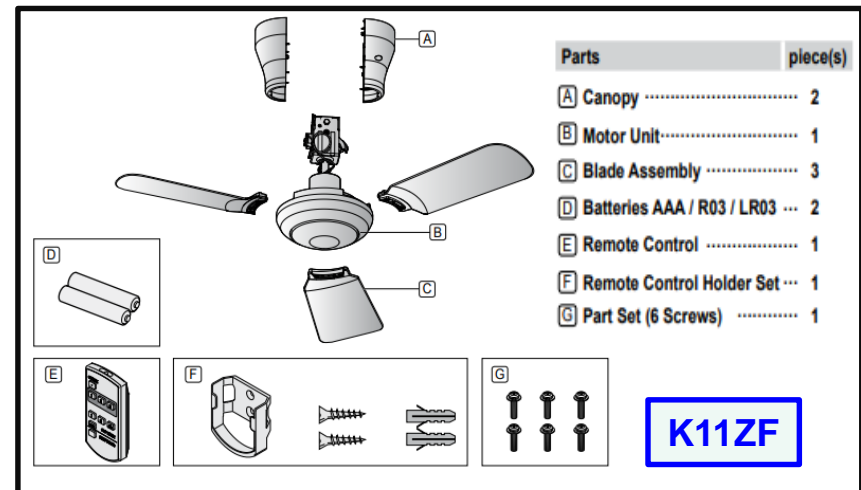
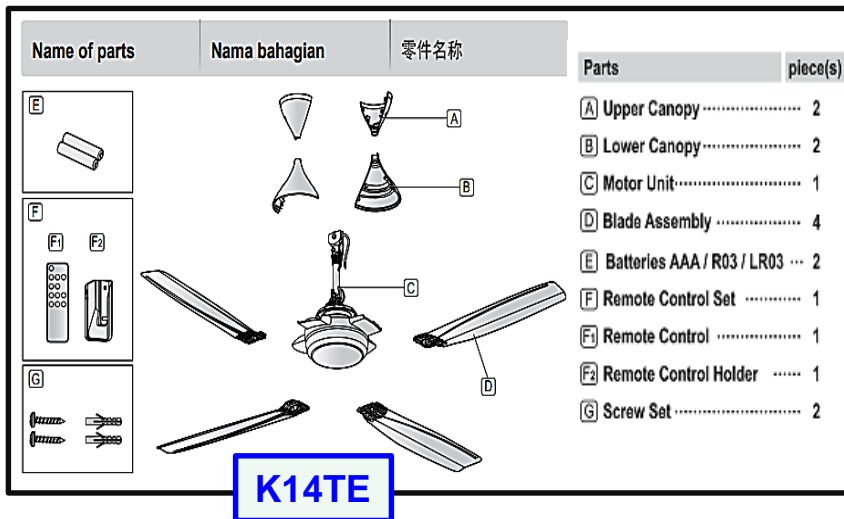
**Read and understand the instruction.**

*Different model have different step in installation method.*



**Inspect the contents Parts in the box.**

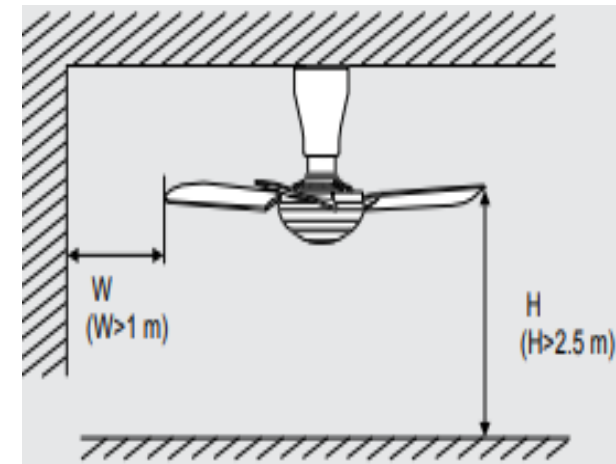
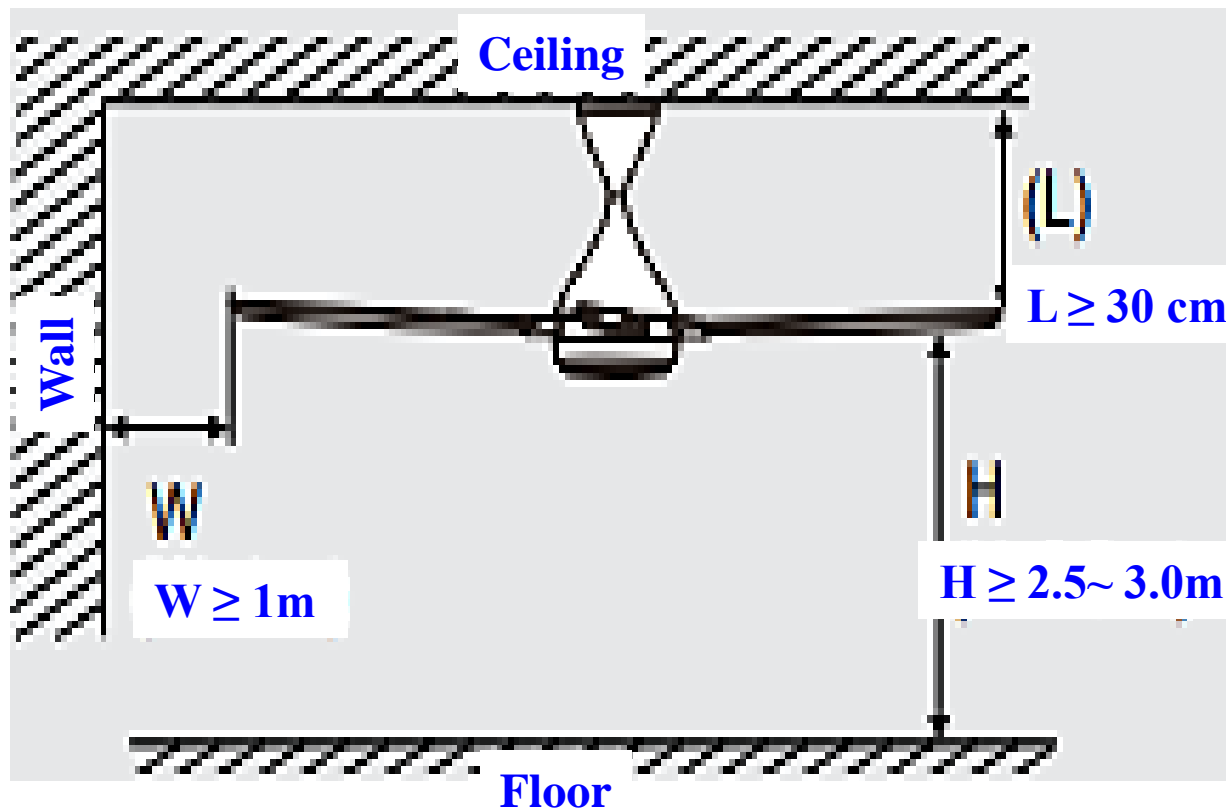
*Confirm contents in the box same as listed in Instruction Manual before install the Ceiling Fan.*



# Ceiling Fan Good Installation Practice

## Installation Condition : Room Size

- ❑ *Height from Blade Tip to Ceiling ( $L$ )  $\geq 30$  cm.*
- ❑ *Height from floor to Blade Tip ( $H$ ) :  $>2.5 \sim 3.0$  m*
- ❑ *Blade distance between wall side ( $W$ )  $\geq 1$  m*



# Ceiling Fan Good Installation Practice

## Stream Of Wind Movement

### Condition 1 :

**Room size too small.** The stream of wind movement not steady and air turbulence is created. This condition can cause the fan to wobble & noise may also be created.

### **Recommendation :**

To install small size ceiling fan (120cm / 48”).

### Condition 2 :

**The ceiling fan installation height < 30cm (too close to the ceiling).** The stream of wind is inferior and efficiency drops and noise may be created.

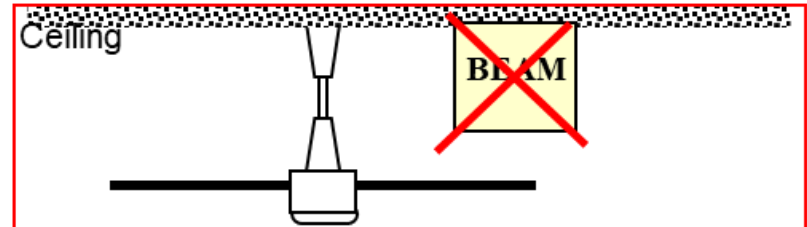
### **Recommendation :**

To increase the ceiling fan pipe > 30cm (minimum), use extended pipe.

# Ceiling Fan Good Installation Practice

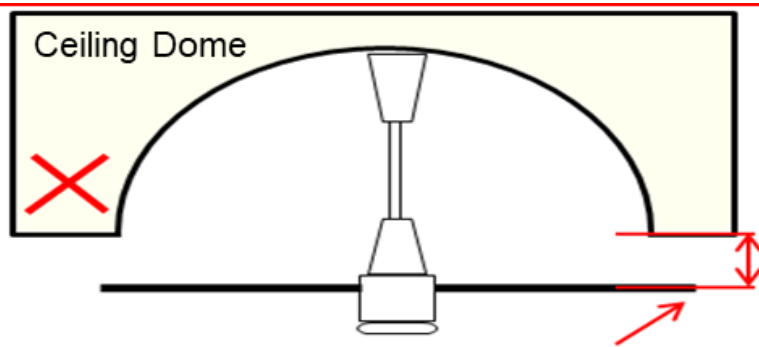
**Installation Condition : This installation area could lead to poor performance of ceiling fan**

- ☐ Beam within blade swipe distance
- ☐ Slanting roof
- ☐ Inside Dome



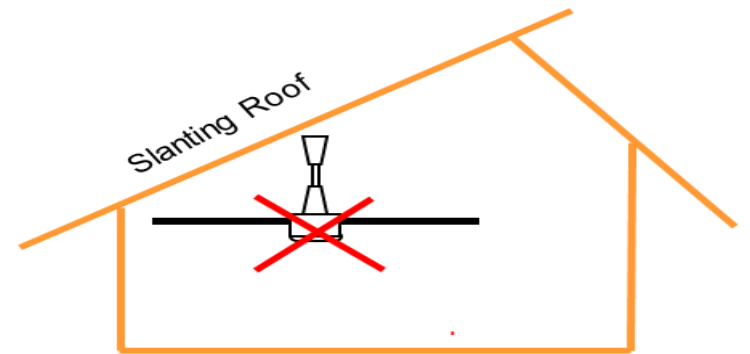
**Do not install ceiling fan at the position where the blade is near or under the beam.**

1. Can cause unstable air flow and set wobbling.
2. If there external wind blow can cause blade hit to beam and drop



**Do not install ceiling fan inside "Dome"**

Can cause unstable air flow and set wobbling.



**Do not install ceiling fan at Slanting Roof**

1. Can cause unstable air flow and set wobbling.
2. If there external wind blow can cause blade hit to roof and drop



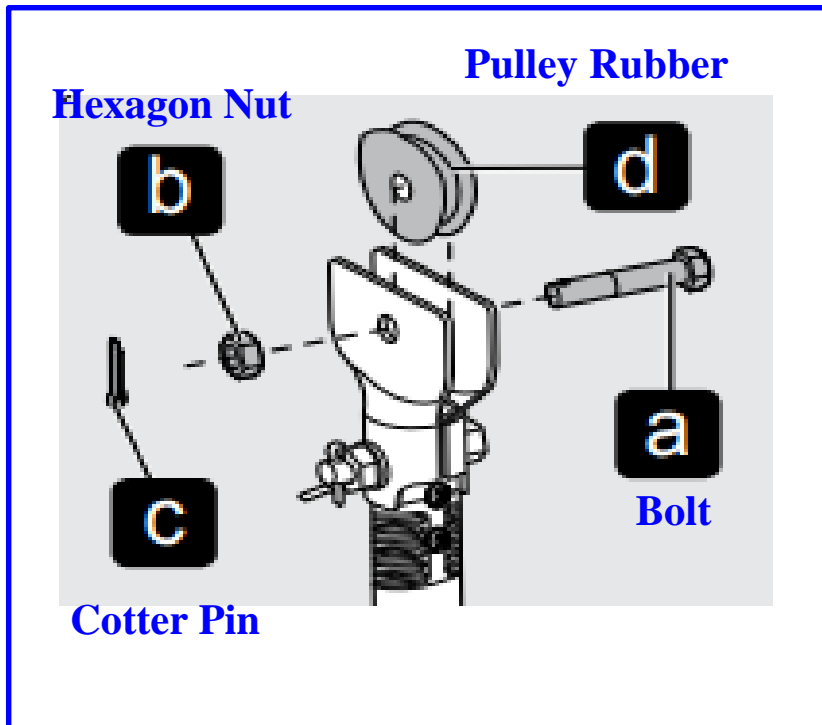
## ***2 Ceiling Fan Good Installation Practice (K14TE)***

- ***During Installation***
- ***Video Installation***

# Ceiling Fan Good Installation Practice

## Fixing Motor Unit to Ceiling Hook.

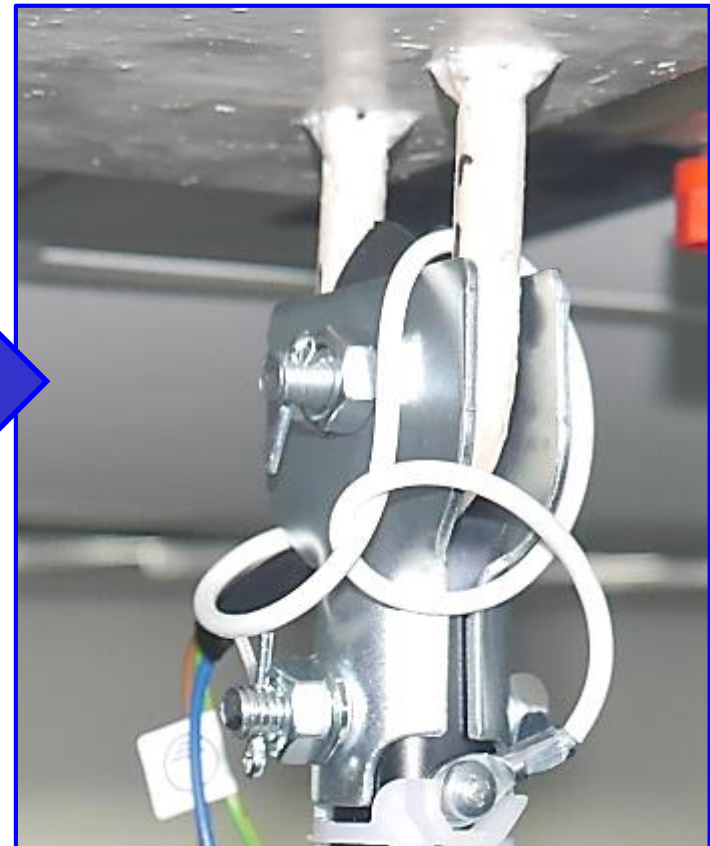
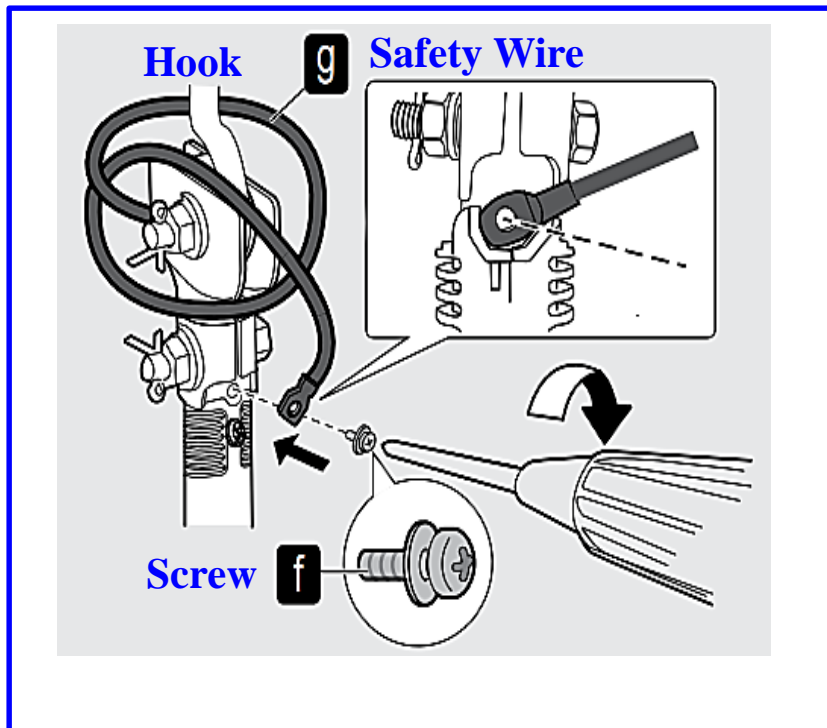
- ✓ Ceiling hook can sustain  $>10$  times the Ceiling Fan weight.
- ✓ Bolt and Nut are tightened and Cotter Pin is inserted and bent  
**✗** *Can cause injury if Ceiling Fan dropped.*



# Ceiling Fan Good Installation Practice

- ✓ Safety Wire must be looped to ceiling hook and fixed by screw to the pipe.

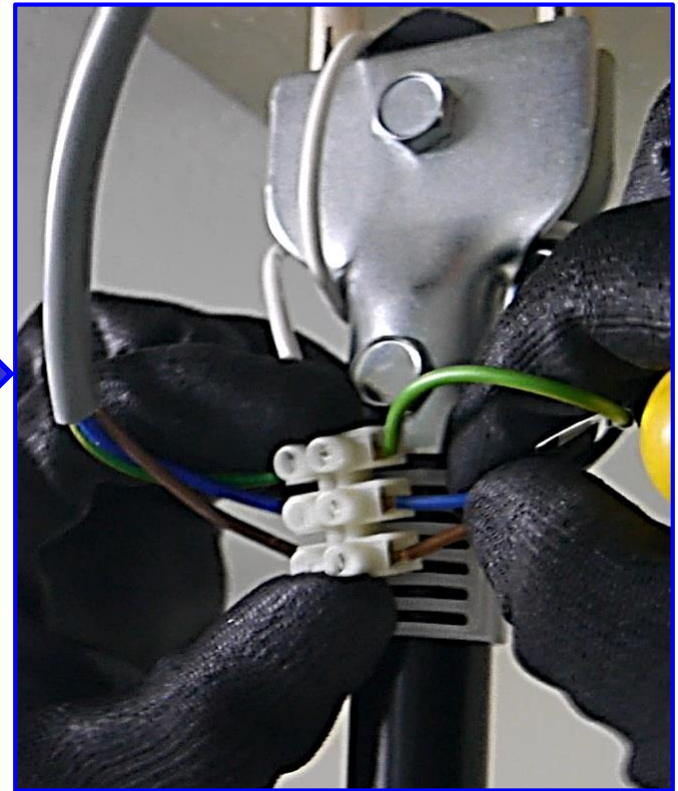
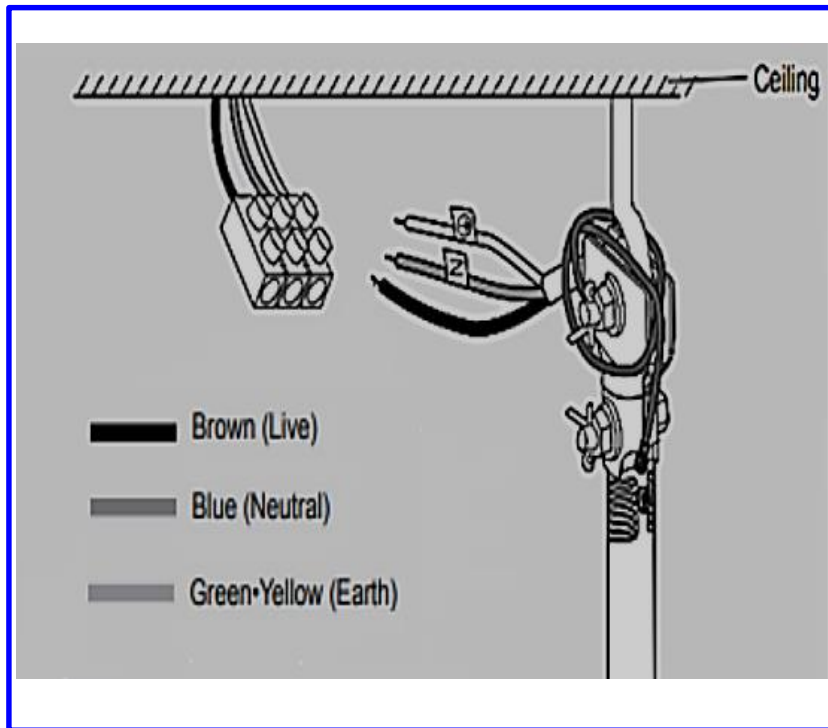
✗ *Can cause injury if Ceiling Fan dropped.*



# Ceiling Fan Good Installation Practice

- ✓ Wiring connected properly to the power supply & done by qualified personnel.

*✗ Can cause fire, electrical shock, and injury if wrong connection or loose.*



- ✓ Slightly pull the supply wire to ensure wire fully insert and tighten

# Ceiling Fan Good Installation Practice

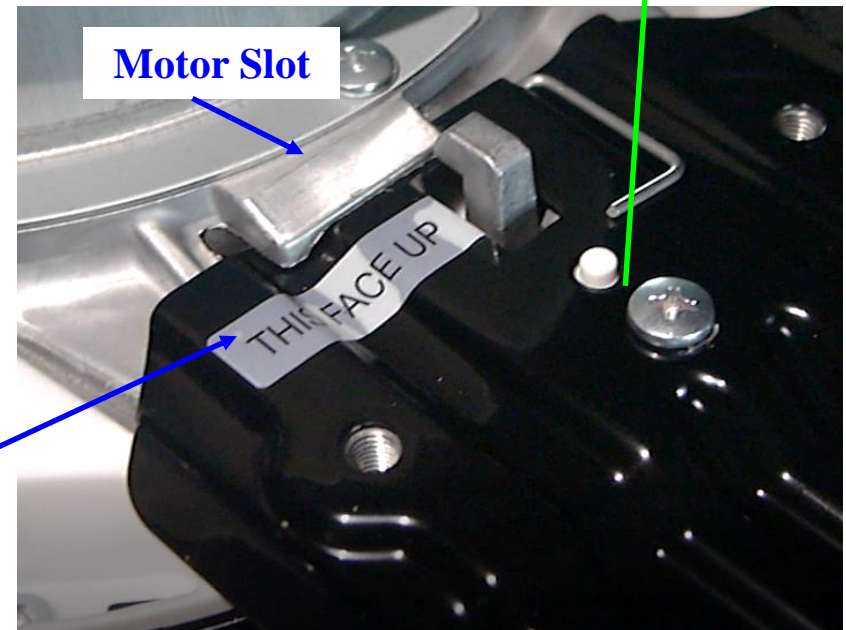
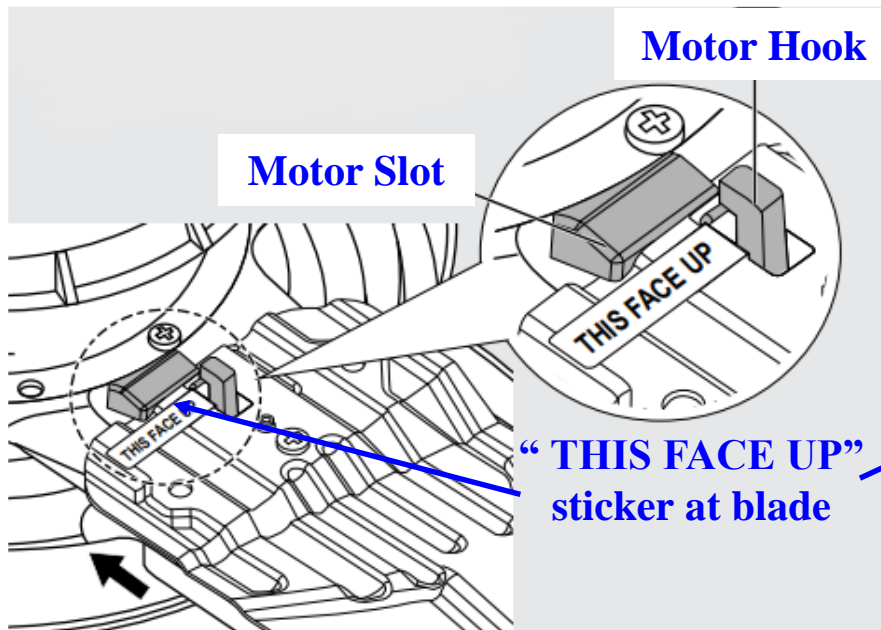
## Install the Blades

- ✓ Assemble blade to the hook.
- ✓ Blade must insert into slot at Motor .
- ✓ “ **THIS FACE UP** ” sticker at blade facing up.
- ✓ Tighten blades by 2 pcs screw.

*Ref: (250-300 N•cm)*

**✗** *Can cause injury if Ceiling Fan blade dropped.*

*New blade safety hook  
with screw*



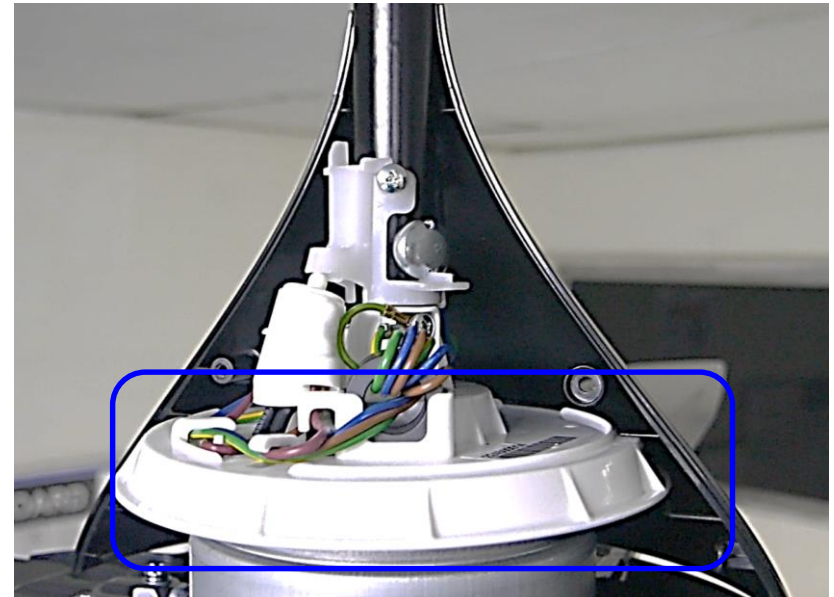
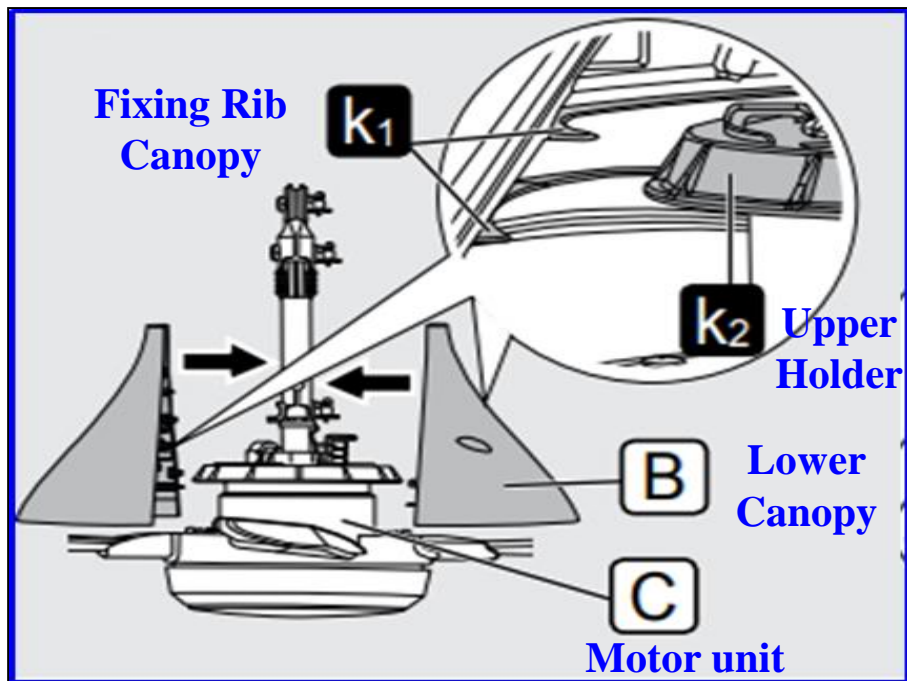
# Ceiling Fan Good Installation Practice

## Fixing Lower Canopy

✓ Fixed Rib into the Upper Holder at & clip it until “click” sound.

✓ Tighten by 2 pcs screw.

**\*\* ✗ *Can cause Ceiling Fan noisy.***

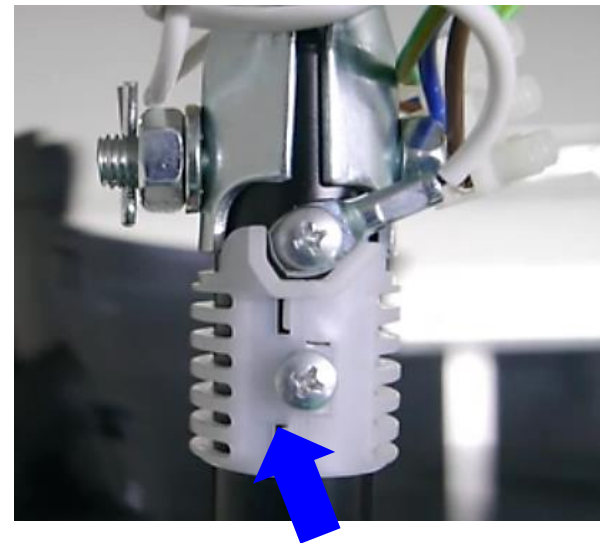
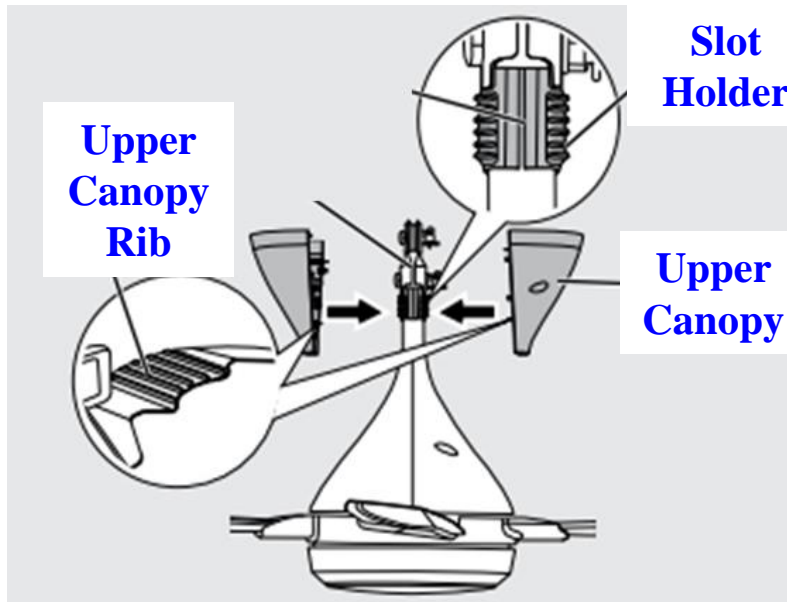


✓ *Fixing Rib place between Upper Holder Lower Canopy*

# Ceiling Fan Good Installation Practice

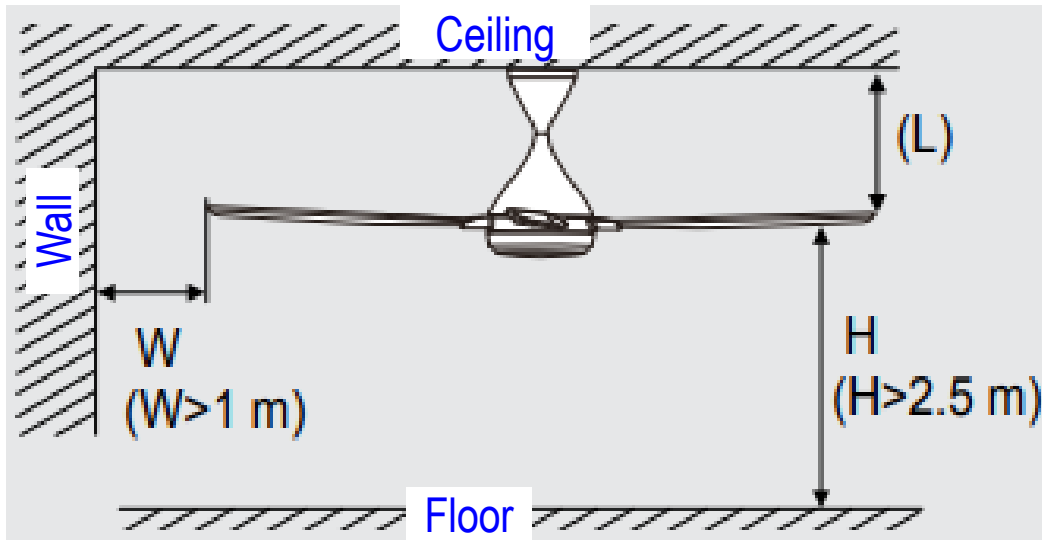
## Fixing Upper Canopy

- ✓ Fixed Rib into the Slot Holder.
- ✓ Ensure  $\geq 5\text{mm}$  gap between Upper Canopy and ceiling  
\*\* ✗ *Can cause Ceiling Fan noisy.*
- ✓ Clip it until “click” sound, then tighten by 2 pcs screw.



*\* Gap can adjust by fix upper canopy rib into different slot holder.*

# Final Confirmation – After Installation



Distance from the ceiling to the tip of the Blade (L) must be within  $\pm 1$  mm tolerance

## Step 1



- ☐ Measure the blade height from ceiling to blade tips(L) using Measuring Tape.
- ☐ Measure all the blades and record the blade with different height.

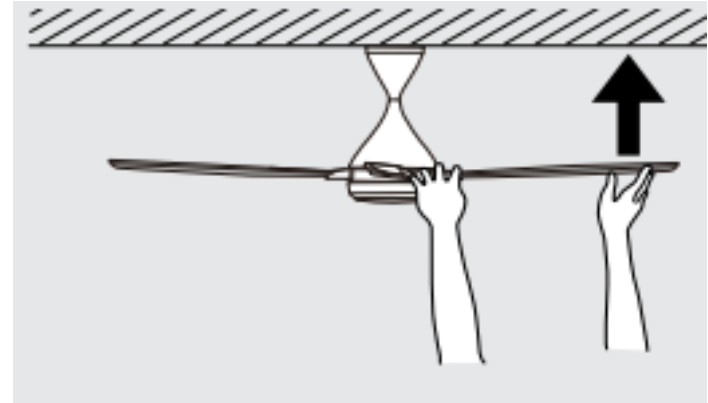
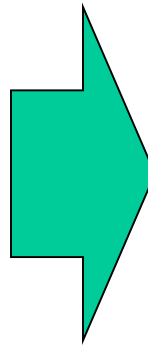
# Final Confirmation – After Installation

## Step 2

Condition 1:

If blade height (L) in lower position

❑ Adjust blade height by gently pushing blade frame upwards



Ex.

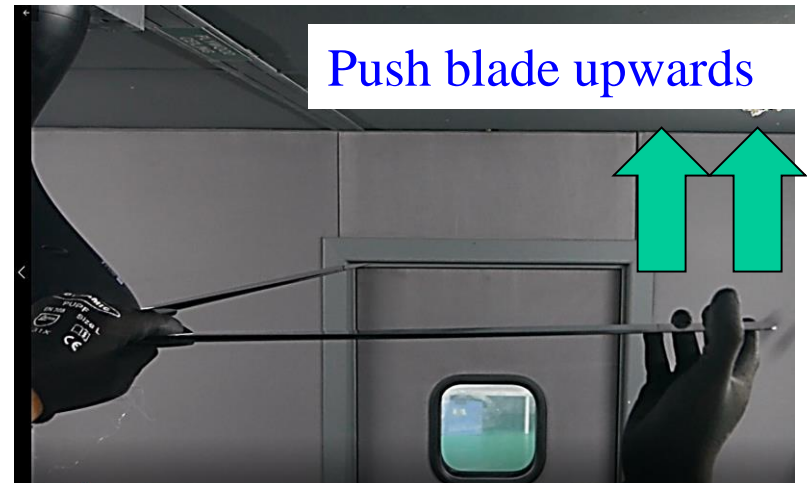
Blade tip height :

Blade 1= 29.0cm ✓

Blade 2= 29.0cm ✓

Blade 3= 31.5cm ✗

Blade 4= 29.0cm ✓



Caution : Do not over push blade

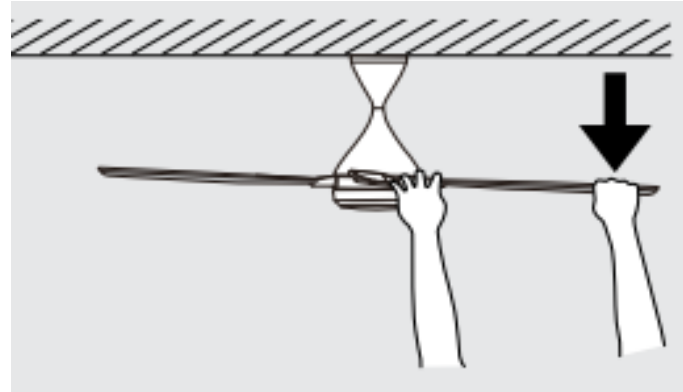
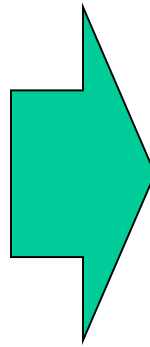
# Final Confirmation – After Installation

## Step 2

Condition 2:

If blade height (L) in Upper position

❑ Adjust blade height by pressing blade frame downwards



Ex.

Blade tip height :

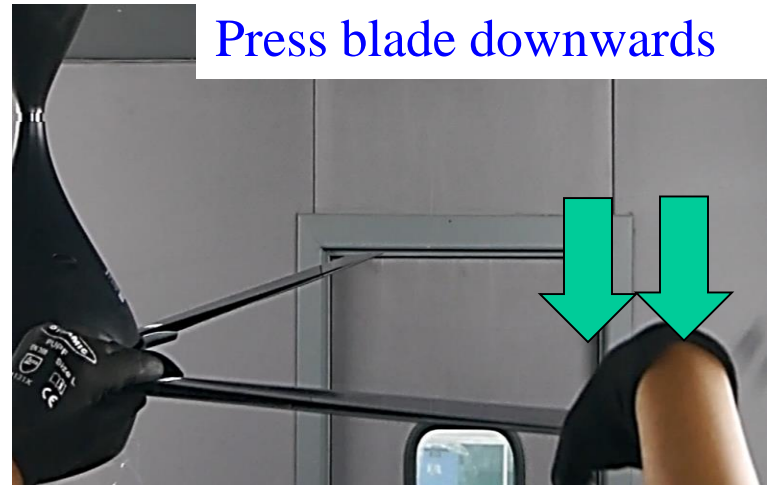
Blade 1= 29.0cm ✓

Blade 2= 29.0cm ✓

Blade 3= 27.0cm ✗

Blade 4= 29.0cm ✓

Press blade downwards



Caution : Do not over press blade

# Final Confirmation – After Installation

## Step 3

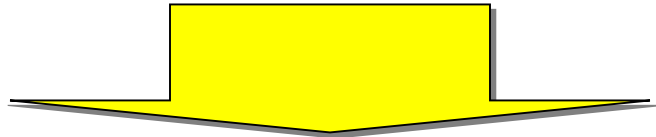


- ☐ Re-measure all the blades height from ceiling to blade tips .
- ☐ The different of blades height shall not more then  $\sim 1\text{mm}$

## Step 4



- ☐ Operate the fan to confirm wobbling condition .
- ☐ Confirm wobbling condition in all speed



Repeat step 1 to step 4 if wobbling level is unsatisfactory



## ***2 Ceiling Fan Good Installation Practice (K11ZF)***

- ***During Installation***
- ***Video Installation***

# Ceiling Fan Good Installation Practice

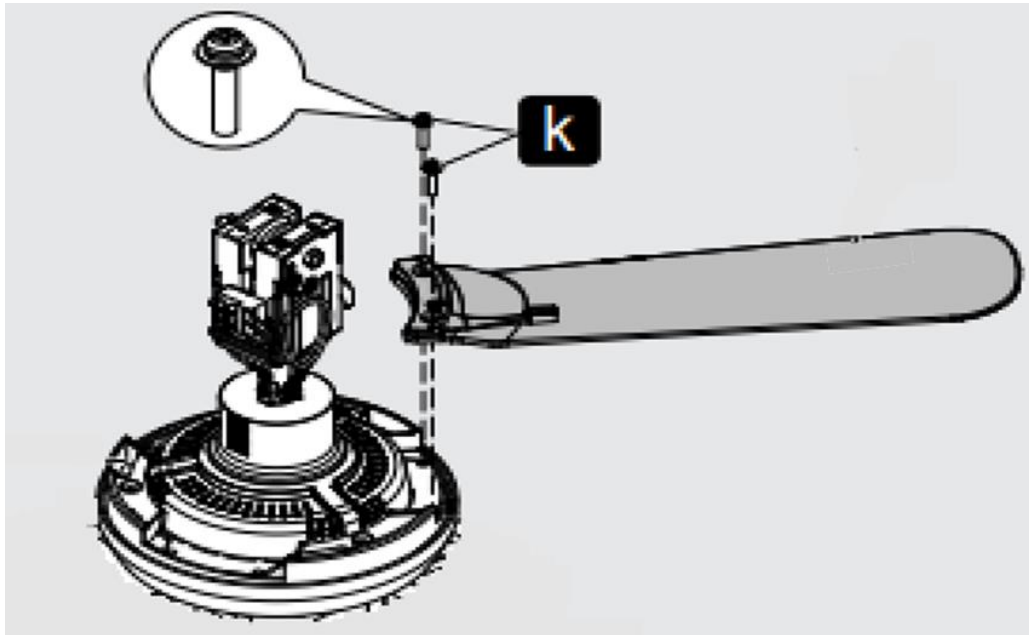
## Install the Blades.

✓ Blade must assemble towards the slot at motor unit.

✓ Then tighten blades by 2 pcs screw.

*Ref: (250-300 N•cm)*

✗ *Can cause injury if Ceiling fan blade dropped.*

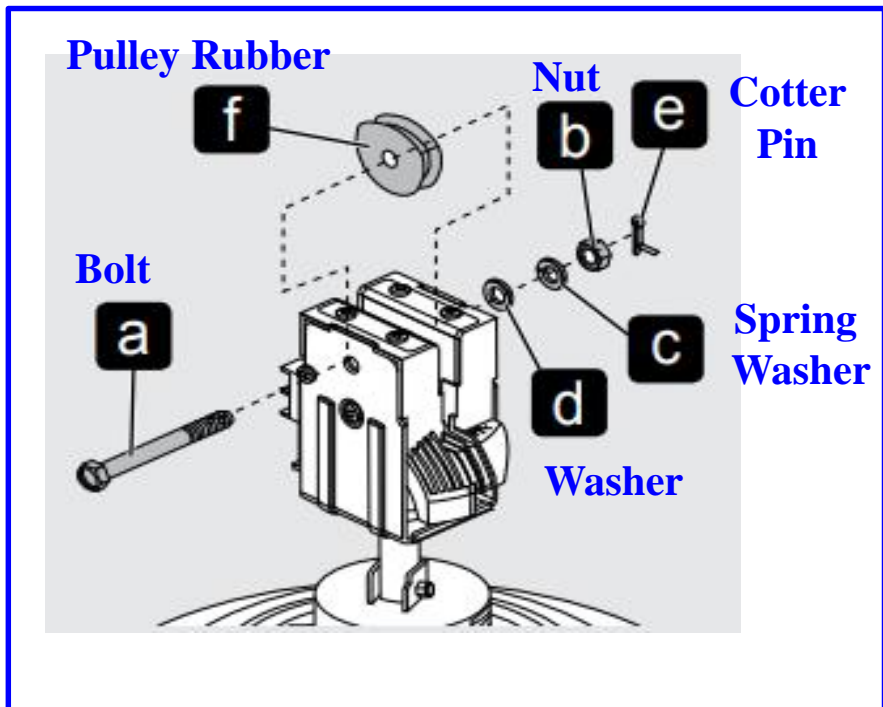


✓ *Make sure the blade weight for all 3 pcs was same*

# Ceiling Fan Good Installation Practice

## Fixing Motor Unit to Ceiling Hook.

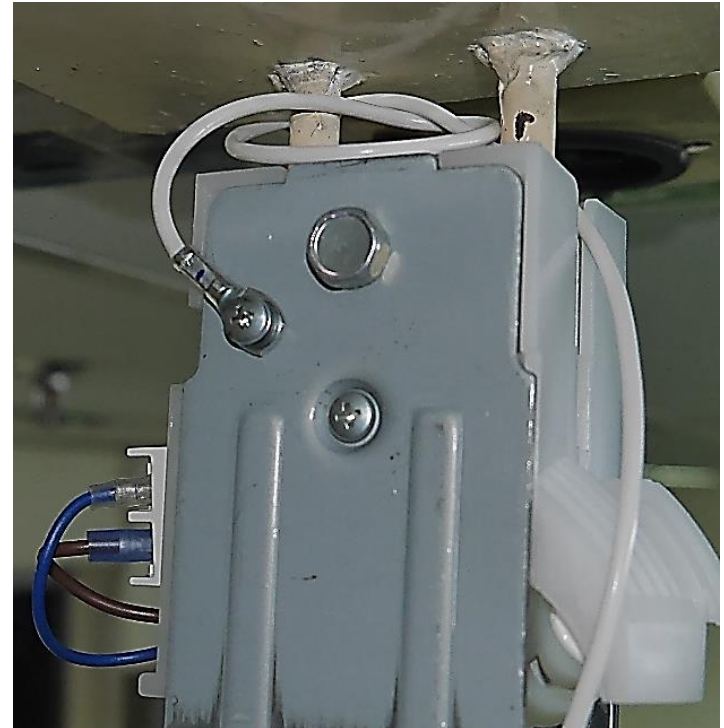
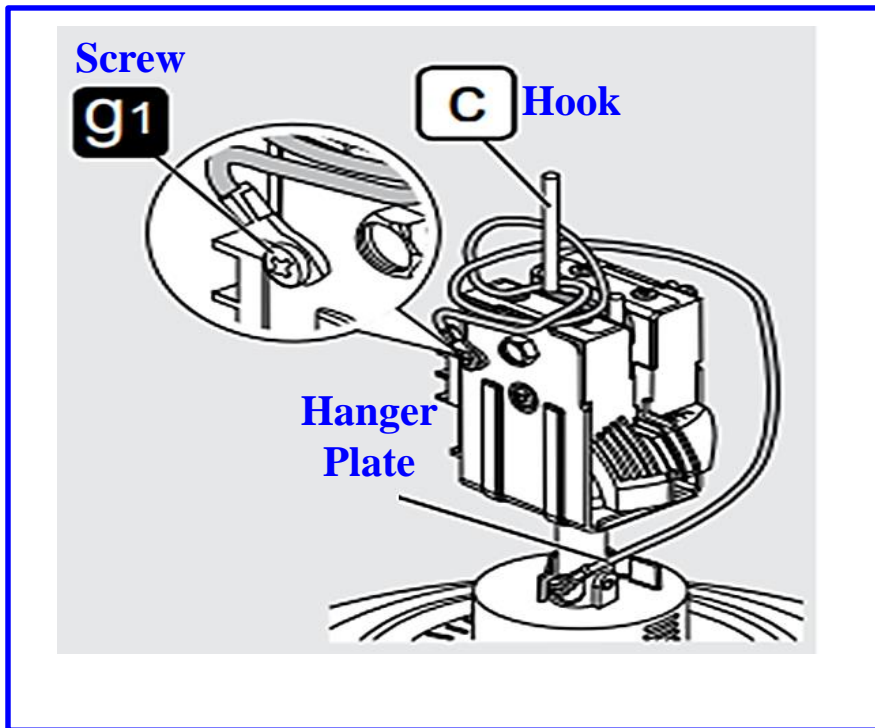
- ☑ Ceiling hook can sustain  $> 10$  times Ceiling Fan weight.
  - ☑ Bolt and Nut are firmly tightened and Cotter Pin is inserted and bent .
- ✗** *Can cause injury if Ceiling Fan dropped.*



# Ceiling Fan Good Installation Practice

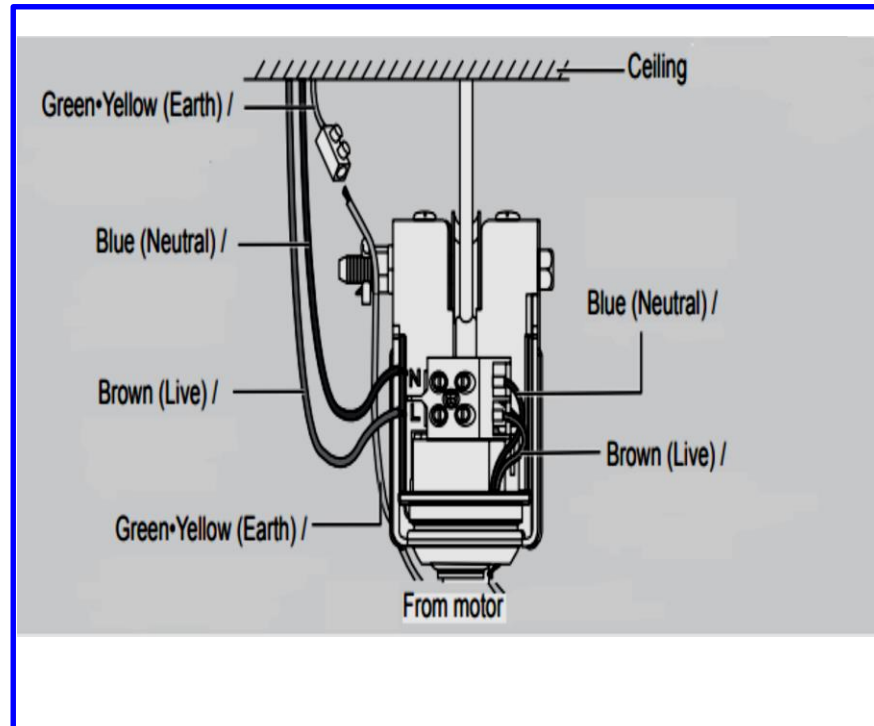
✓ Safety Wire must be looped to ceiling hook and securely fixed by screw to the pipe.

✗ *Can cause injury if Ceiling Fan dropped.*



# Ceiling Fan Good Installation Practice

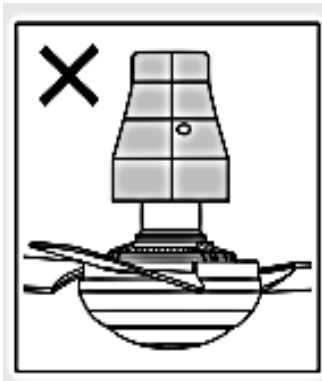
- ✓ Ensure wiring connected properly to the power supply & done by qualified personnel.
  - ✗ *Can cause fire, electrical shock, and injury if wrong connection or loose.*
  - ✓ Slightly pull the supply wire to ensure wire fully insert and tighten



# Ceiling Fan Good Installation Practice

## Fixing Canopy

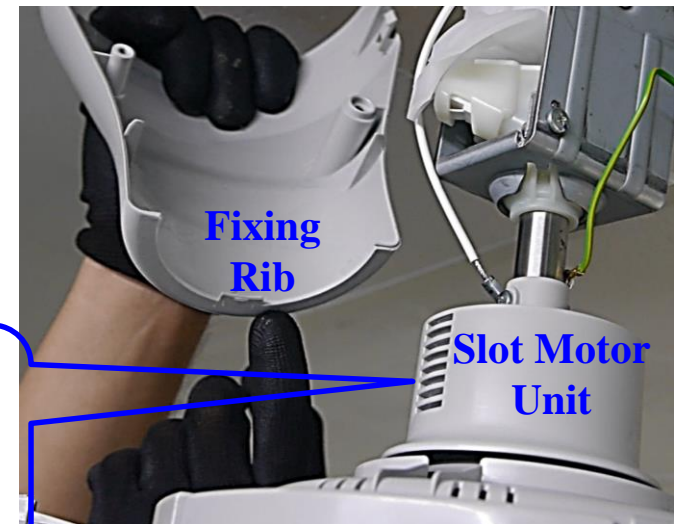
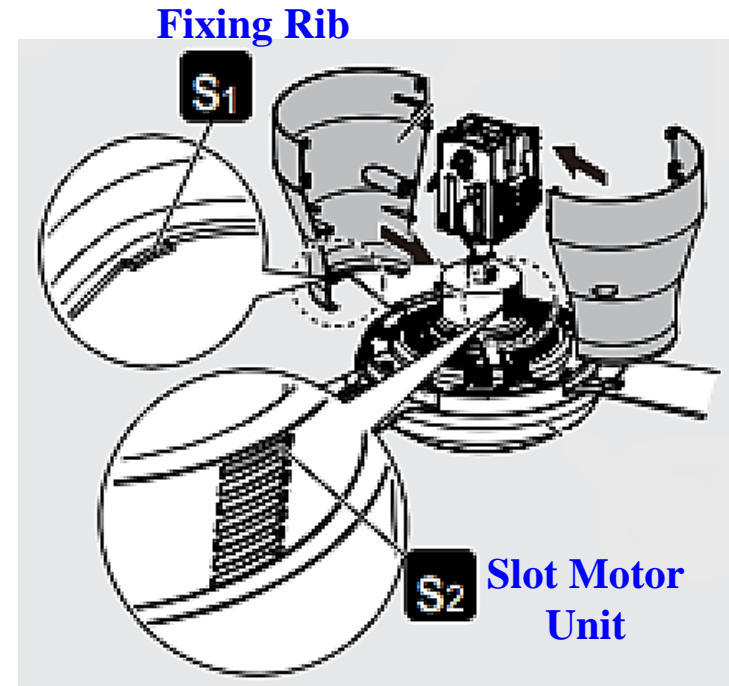
- ✓ Insert Fixing Rib into the Slot of Motor Unit.
- ✓ Ensure  $\geq 5\text{mm}$  gap between Upper Canopy and ceiling.  
**\*\* ✗ Can cause Ceiling Fan noisy.**
- ✓ Clip it until “click” sound, then tighten by 2 pcs screw.



*Don't assemble Canopy in opposite direction.*

**\*\* ✗ Can cause noise**















*\* Gap can adjust by fix upper canopy rib into different slot holder*



## **3** *Ceiling Fan Check Point*

- *After Installation*

### 3 Ceiling Fan Check Point (After Installation)

Check Point Items	K14TE	K11ZF
Bolt and Nut are tightened & Cotter pin is inserted and bent		
Wiring is connected properly to the power supply.		
Safety wire looped into the Ceiling Hook and fixed to the pipe with screw		—
Safety wire looped into the Ceiling Hook and fixed to the Hanger Plate with screw	—	
Blade must be fixed correctly into motor hook/slot.		
Blade screw must be tightened using screw driver ( Ref : 250-300 N•cm )		
Canopy is correctly fixed and securely screwed. ( at least $\geq 5\text{mm}$ gap from ceiling )		
After installation, make sure that the Ceiling Fan does not wobble extremely		

#### •Abnormality

- If problems occurred / cannot being solve, stop using the fan. Then refer to service, sales or authorize center.

# Ceiling Fan Troubleshooting & Action

Part	Cause		Action
<b>Bolt &amp; Nut</b>	<b>Wobbling</b>	<ol style="list-style-type: none"> <li>1. Bolt &amp; nut not fully tighten.</li> <li>2. Use modified bolt and nut</li> </ol>	<ol style="list-style-type: none"> <li>1. Fully tighten the bolt &amp; nut according to manual</li> <li>2. Replace with original bolt and nut</li> </ol>
	<b>Safety Check Point</b>	Wear-out of bolt and nut	Disconnect set and report to service center person to change new set .
<b>Pipe</b>	<b>Wobbling</b>	<ol style="list-style-type: none"> <li>1. Ceiling Hook condition * slanting, too big, loosen &amp; etc.</li> <li>2. Modified pipe</li> </ol>	<ol style="list-style-type: none"> <li>1. Repair/ Tighten Hook/ change hook condition</li> <li>2. Replace original PMMA pipe</li> </ol>
	<b>Safety Check Point</b>	Deformation hole in pipe * bigger hole diameter in pipe	Disconnect set and report to service center person to change new set .
<b>Safety Wire</b>	<b>Safety Check Point</b>	<ol style="list-style-type: none"> <li>1. Safety wire not looping at hook, not Screw (No safety wire installed).</li> <li>2. Wear-out of safety wire</li> </ol>	<ol style="list-style-type: none"> <li>1. Fix safety wire according to manual.</li> <li>2. Disconnect set and report to service center person to change new set.</li> </ol>

# Ceiling Fan Troubleshooting & Action

Part	Cause		Action
Blade	Wobbling	<ol style="list-style-type: none"> <li>1. Weight different</li> <li>2. Pitching out (For Metal blade)</li> <li>3. Poor installation (screw slanting, hook bend, screw tightening, miss screw, upside down, bend, not fully screw, etc.)</li> </ol>	<ol style="list-style-type: none"> <li>1. Change new blade (all same weight)</li> <li>2. Do pitching</li> <li>3. Re install according to manual change new blade, do pitching blades</li> </ol>
	Noise	Blade safety hook loosen and touched	Re install blade and ensure blade was pull to lock the blade.
	Safety Check Point	Blade hole cracking/ Blade deforming	Disconnect set and report to service center person to change new set of blades .
Canopy	Noisy	<ol style="list-style-type: none"> <li>1. Canopy touching to the ceiling</li> <li>2.Touching motor (lower canopy)</li> <li>3. Wiring arrangement inside canopy</li> <li>4. Installation condition                             <ul style="list-style-type: none"> <li>* canopy step not in-correct position, slanting, wrong position, not screw, not fully fix</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. Lower the canopy at least 5mm gap from ceiling (adjust the canopy slot).</li> <li>2. Re install the lower canopy</li> <li>3. Re arrange the wiring condition inside canopy</li> <li>4. Correct the canopy position according to instruction manual</li> </ol>
	Wobbling	Touching to ceiling	Lower the canopy at least 5mm gap from ceiling

# Ceiling Fan Maintenance

1. Check the fan condition **annually**.  
Check points : Loosened screws, Safety Wire condition, motor shaft damage, etc.  
If problems occurred, stop using the fan. Then refer to service, sales or maintenance shop.
2. Keep the fan clean by wiping away dirt with a clean soft cloth, ordinary soap and water.  
Do not use solvents such as gasoline or petrol.

Please do not bend the blade while cleaning .

3. Do not paint the blades. If damage, order new set of blades from the service or sales shop.
4. If the product is broken or damaged, please dismantle the product or replace with the new product. This is to prevent the Ceiling Fan from dropping.



For reference



For reference

Thank  
You