

PRODUCT PRESENTATION ON

CEILING FAN :

PRESENTATION BY –

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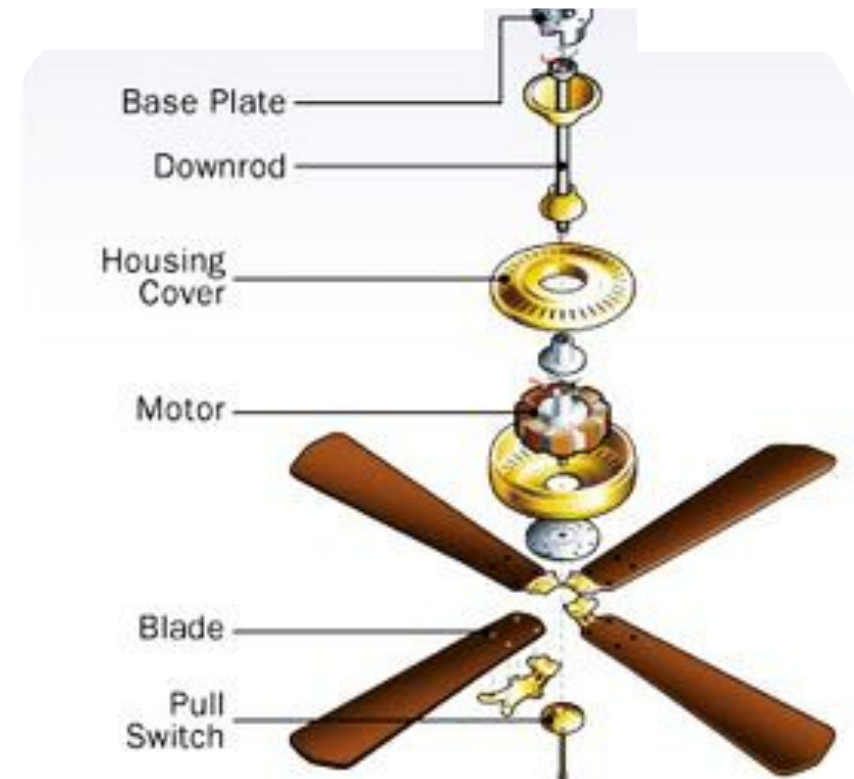
INTRODUCTION :

- ▶ A ceiling fan is a device suspended from the ceiling of a room, which employs hub- mounted rotating paddles to circulate air.
- ▶ First electrically powered fan was invented in 1882 by Philip Diehl.
- ▶ Crompton Greaves Ltd is the leading manufacturer of fans.
- ▶ Ceiling Fan is Composed of an Electric Motor,blades or paddle,metal arms,a flywheel a rotor and other components



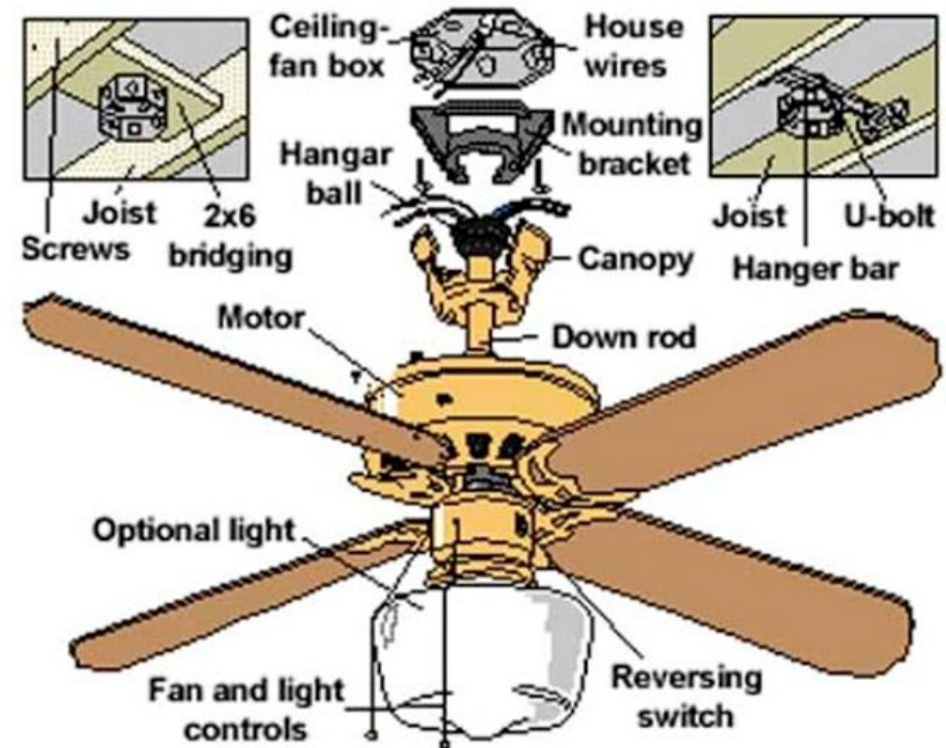
KEY COMPONENTS :

1. Electric Motor – Capacitor Start & Run, rated at 230V,50Hz
2. Blades – Usually made of Aluminum sheets, 120 degree and normally 3-4 blades
3. Blade Flanges
4. Canopy/Switch Cup
5. Suspension/Down rod
6. Ball Bearing
7. Terminal Box (L,N & E)



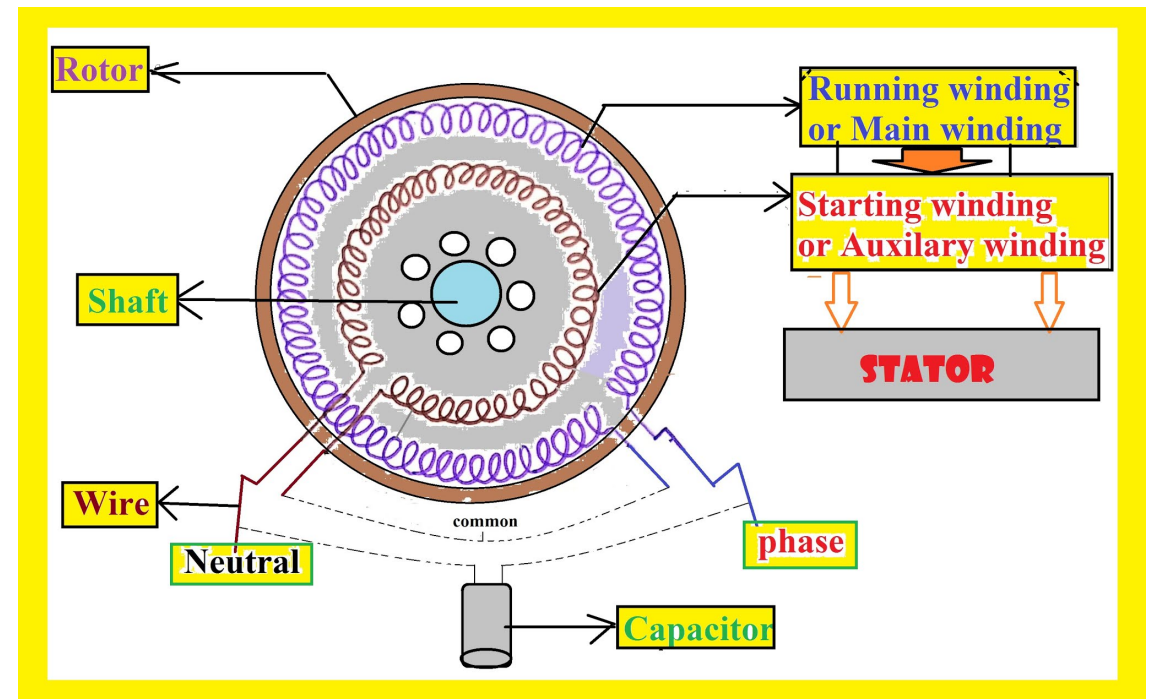
WORKING :

- ▶ In a ceiling fan there is a single phase capacitor start and run motor. There is main winding and auxiliary (starting) winding in the fan.
- ▶ Starting winding has capacitor in its series. Due to this capacitor single phase is divided in two phase and a rotating magnetic field is produced and due to internal reaction motor starts to rotate.



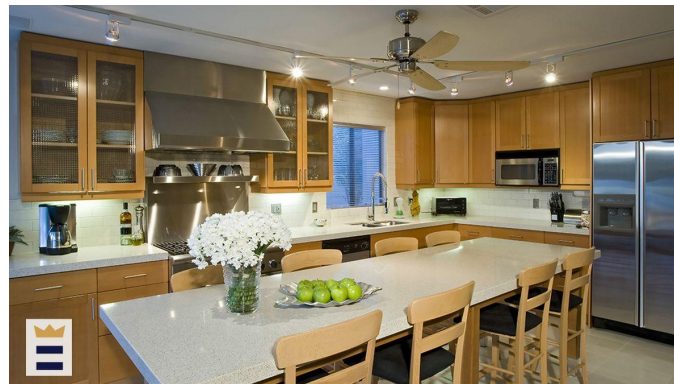
PRINCIPLE :

- ▶ If a current carrying conductor is placed in a magnetic field it experience a force and start to rotate.
- ▶ The direction of rotation can be found by Fleming's Left Hand Rule.
- ▶ As the electrical current reaches the motor, it enters coils of wire that are wrapped around a metal base. When this current passes through the wire, it creates a magnetic field which further exerts force in a clockwise motion



APPLICATIONS :

- ▶ Over the bed in a bedroom.
- ▶ Over the table in the dining room.
- ▶ In the kitchen.
- ▶ In the bathroom.
- ▶ In the laundry room.
- ▶ In the living room.



PRECAUTIONS :

- ▶ Before hanging fan all testing should be done properly.
- ▶ Fan's body (metallic part) should be earthed .
- ▶ Nut bolt should be tighten correctly.
- ▶ Locking pin should be used.
- ▶ Connection should not be lose.



Thank
you!!!
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