

EWW exp ③

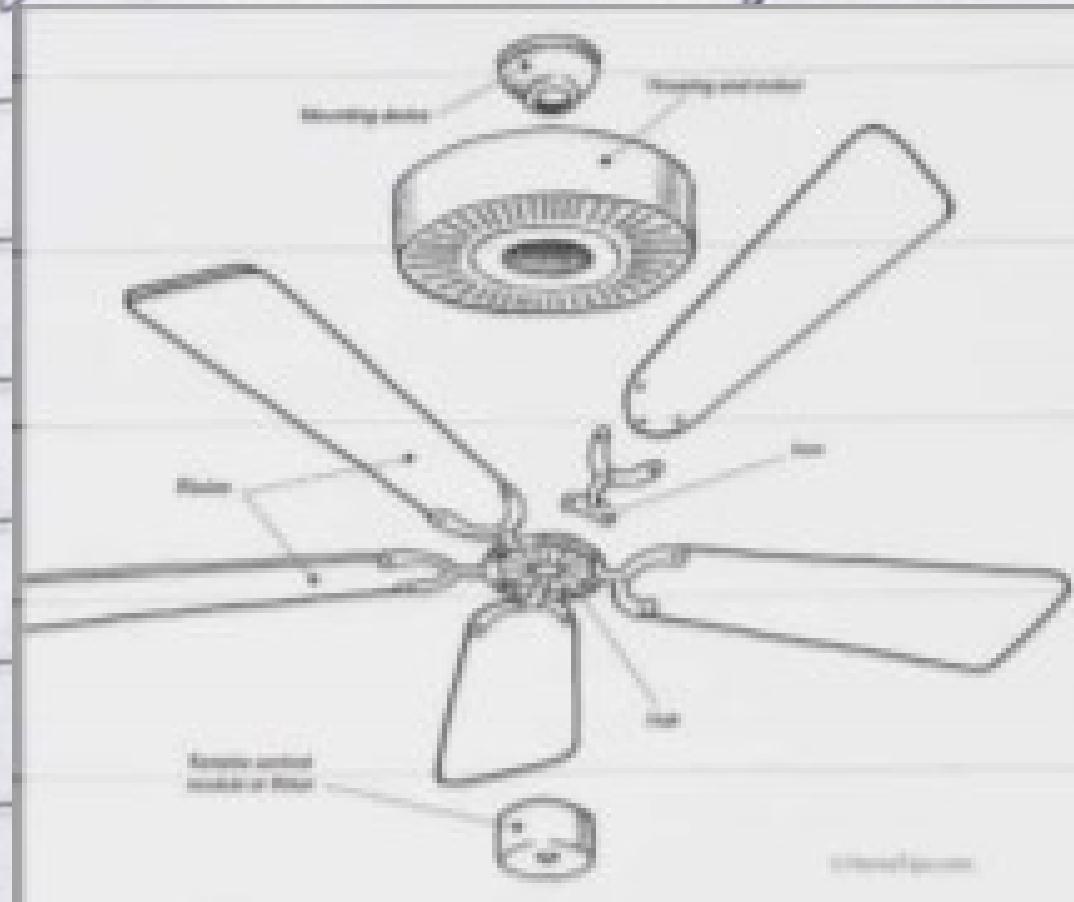
Aim:- To study the repair of household appliances and etc.

Apparatus:- Multimeter, ceiling fan.

Theory:-

i) Ceiling fan:-

It is a mechanical fan mounted on ceiling, usually electrically powered that uses hub mounted rotating blades to circulate air. Fan increase the tem. by releasing the heat from itself.



2) Testing:- It can be done by two ways are with the help of multimeter or one with series lamp with this two technique.

i) With the help of series lamp we can check the common wire and out there come which are from motors, which are rotating winding wire run winding wire and common while connecting the service lamp +ve and -ve

terminal we can check that common wire when the bulb glows we can also check which winding is having fault as the capacitor is having fault very easily.



- 3) Fault detection:- These are 4 common fault, load noise, low speed, not working, getting stuck.
- 4) Load noise because of broke or stuck.

Because of no proper lubrication.

Because of air gap in rotor and stator.

b) low speed

Because of damage of capacitor.

Because of voltage of is low.

c) Not working Because of wire break.

Because of No power supply.

Because of faulty.

d) getting stuck: Because of no proper alignment.

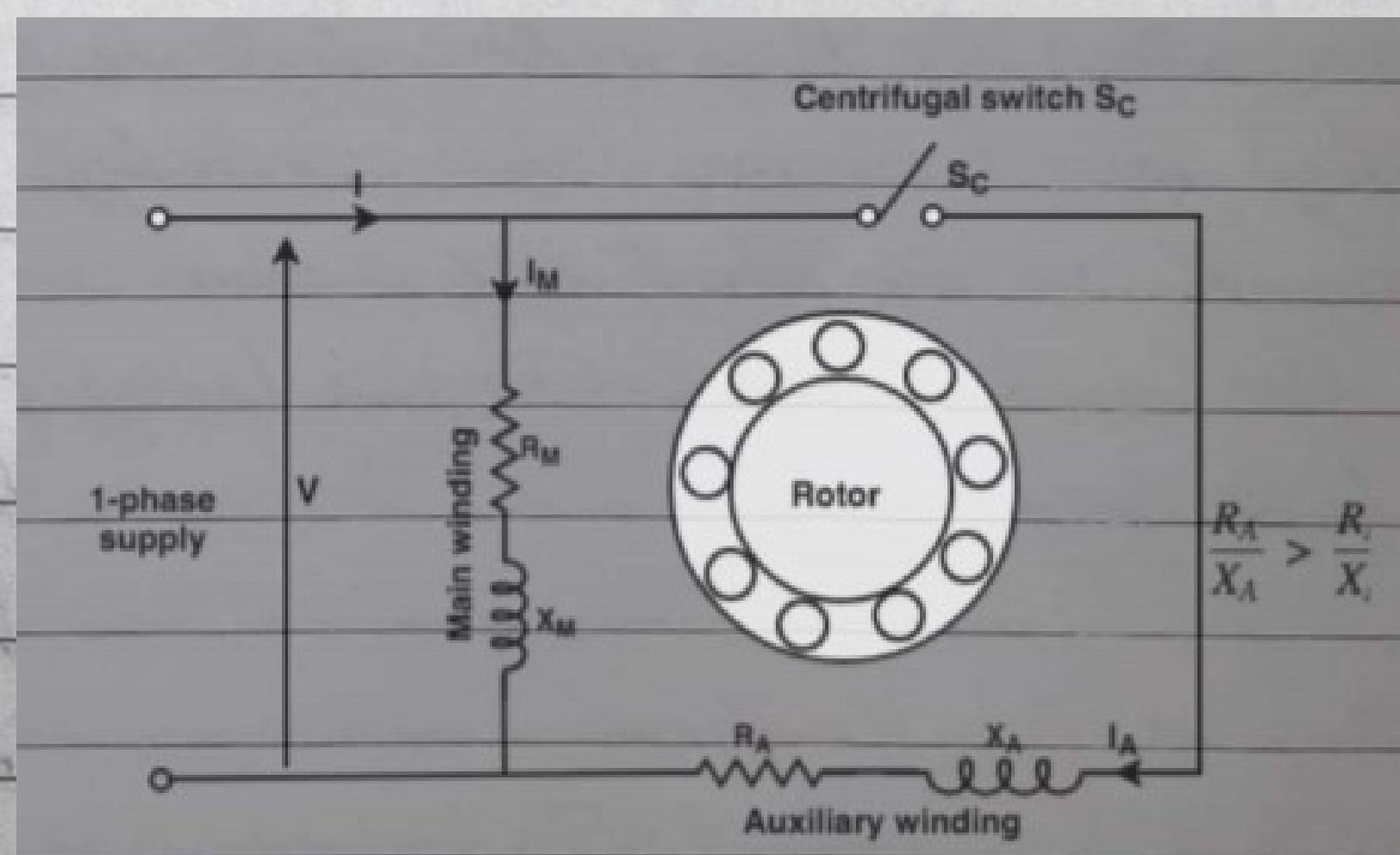
Because of faulty.

4) Repair:-

i) After find fault we repair it.

ii) After dismantling it we change capacitor if it's damage.

iii) After repairing the fault assemble the fan and test if it works in progressive order.



Conclusion: Thus with the following step we have learn how to repair the household appliances with fan.