

AAPKI UMMEED SE BADHKAR



AB FAN BHI REMOTE SE

- FAN WITH 5 SPEED REMOTE OPERATION
- USE 5 FANS AT THE ELECTRICITY COST OF 2 FANS
- CONSTANT SPEED FROM 100 TO 260V
- FULLY ELECTRONIC WITH SOLID ALMINIUM BODY
- NOISE LESS OPERATION



Introduction:

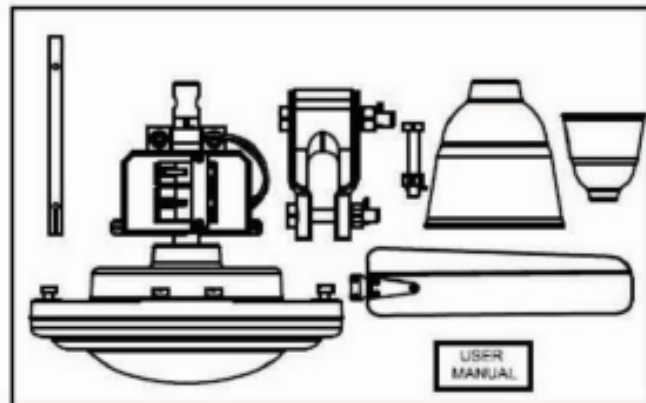
Orbit is India's first energy-efficient fan with only **30 Watts** power consumption, It is designed with **Brushless DC** motor to consume less electricity. For example it will consume only **7 Watts** at lowest speed which is less than half that of a CFL.

List of Fan Parts:

Box of Orbit contains following items.

- | | |
|----------------------------|--------------------------|
| 1. Down rod-1 | 2. Top canopy-1 |
| 3. Bottom canopy-1 | 4. Shackle kit - 1 Set |
| 5. Fan motor fixing kit -1 | 6. Blade fixing screw- 6 |
| 7. User Manual.-1 | 8. Warranty Card-1 |

Fan Blades are packed separately



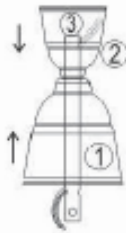
Safety Instructions:

- Earthing wire connections must be done by the technician during fan installation.
- Switch off the power before installing, trouble shooting or cleaning the fan.
- Lock the electricity panel or securely fasten a warning device, such as a tag to prevent power from being switched on accidentally
- Fan installation should be done by qualified electricians.
- The fan with blades must be mounted at least 2.3 Meter from the floor to prevent accidental contact with the fan Blades.
- Do not bend the leaves while installing or cleaning the fan.

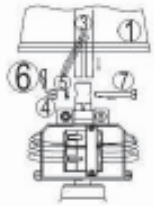
Features:

- Only 30 Watts power consumption
- Constant speed from 100V to 260V
- Inverter friendly with 45+ hours backup on lowest speed
- Aluminum body
- Copper winding

Installation Instructions:



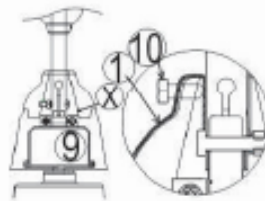
Insert pipe (3) in caps (1) and (2) as shown. Insert wires in pipe (3) through holes in pipe.



Insert pipe(3) on fan shaft. Tighten it using bolt (7) inserting washer (5) tightening nut (4). Insert cotter pin (6) and bend it.



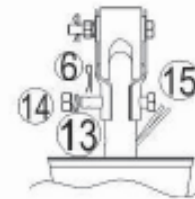
Fit the lead wire in connector (8) provided on box (9). Live and neutral at given position as shown in drawing and tighten screws.



Take cap (1) down, checking that legs (x) should go in the space provided between box (9). Tighten the screw (10) on pipe (3).



Fit blades (11) on the motor using screws (12).

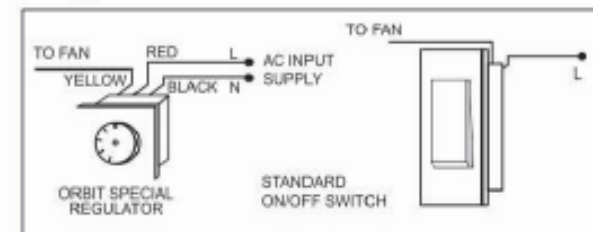


Tighten the fan on ceiling hook using shackle assembly. Tighten pipe (3) in shackle using bolt (15) inserting spring washer (13) followed by nut(14) and locking by inserting and bending cotter pin (6).



Connect one wire to neutral and take other wire to switch/ regulator.

Regulator Installation



Energy Saving Tips:

Ceiling fan performance and energy savings rely heavily on the proper installation and use of the ceiling fan. Here are a few tips to ensure quality and product performance.

- While using ceiling fans in conjunction with air conditioning, set the thermostat of the air conditioners 2-3°C above normal.
- Reduce heat ingress, install movable interior shading devices on windows and draw them during peak summer conditions.
- Use Orbit's electronic regulators. Such fan regulators save up to 70% power at lower speed.
- If the ceiling fan is making abnormal sounds, check its bearings.
- The blades should be clean so that dust is not affecting the performance of the motor and circulating through the air as well.
- Turn off the fan when not using the room. Fans do not cool rooms, they are for human comfort only.



Troubleshooting Part 2

Q:Why does fan take time to turn on after pressing Switch?

A: Up to 2 Seconds delay in normal. It is provided to protect your investment.

Q:Why does fan response to regulator adjustment take time?

A. 2 Seconds delay has been provided in case someone takes time to change from 1st speed to last speed. This allows desired speed to be delivered.

Q Why fan speed increases and then decreases to settle at lower speed?

A. This is normal. There is 2 Seconds delay in response to regulator setting. During these 2 seconds fan has default setting for max speed. This will be observed only for lowest speed.

Please call a technician if troubleshooting is unable to fix the problem

Q:How to Relubricate the Bearings?

A: Clean bearings with suitable thinner that dissolves and remove grease left over in the bearing. Fill the bearing Cavity with grease 60-80% of total space available in the bearing. Use good quality-120°C rated grease.

Q:Why does my ceiling fan wobble on high speed?

A:After installing a new ceiling fan, run the fan on high speed to verify whether the installation is reliable. If the fan is wobbling while on a high speed, this is most likely the result of loose nut, screws in junction box or motor mounting.

Q: Why fan rod jerks during start and stop?

A. Fan shackle and down rod are not fully tightened.
Check and correct it.

Q: Can we use Ordinary regulator for Orbit fan.

A. No, This fan requires only Orbit regulator. Other regulators may damage the fan. Use normal ON/ OFF switch if only High Speed and OFF function are desired.

Sweep	900 MM	1050MM	1200 MM	1400 MM
Operating Voltage	100 -260	100 -260	100 -260	100 -260
Power:	17W	23W	30W	40W
RPM: (Nominal)	440	400	370	290
CMM:	140	190	210	265
Service Value:	>6.5	>6.5	>6.5	>6.5
Lowest Speed :	200	180	160	120
Low Speed Power:	5W	6W	6W	6W
Electronics:	External to Motor	External to Motor	External to Motor	External to Motor
Power Supply:	Separate From Drive Electronics			
Auto Speed Control Off:	270 VAC ± 10V	270 VAC ± 10V	270 VAC ± 10V	270 VAC ± 10V
Auto Speed Control Restart:	250 VAC ± 10V	250 VAC ± 10V	250 VAC ± 10V	250 VAC ± 10V
Speeds:	As Per IS374, ±20 RPM Tolerance			
Inverter / Generator Friendly	Yes			
Turn on Delay	<2 Seconds			
Response to Adjust	<2 Seconds			
Regulator	5 Speed			
Time to Achieve Set Speed	7 Seconds			
Remote Battery	3V, CR 2025,			

Operating Instructions:

■ Regulator:

- Turn on the power switch/ regulator connected to the fan. Fan will respond within 2 seconds. This delay is added to protect the electronics used in fan.
- During the change of speed by Regulator fan will respond within 2 seconds and speed will go higher than medium speed, then it will settle at desired speed. This is added so that fan can reach desired speed faster. You will be able to notice this only when fan is set at lowest speed. Use only **Orbit** regulator.
- For input voltage > 270V the fan power will increase beyond 30W. For input voltage <85V the fan power will decrease below 30W.
- Operating Temperature should be 0°C to 50°C
- Fan can be switched ON and OFF by using a switch instead of a Regulator. This will operate the fan at highest speed.

- **Remote:** It has only three keys - ON/OFF, Increment and Decrement. Point Remote towards the fan while operating.

Install wall switch also when Remote is to be used. Turn it ON to activate fan and Remote. Press ON/OFF key to turn on the remote. Now use Increment/Decrement keys to run fan at desired speed.

ON/OFF: Turns the Fan ON/OFF.

ON:- Runs fan at factory set default speed which is set at highest speed.

OFF:- To switch off the fan.

Increment:: Increases speed with each click upto maximum speed. Further pressing this button maintains fan at max speed only.

Decrement: Decrease speed with each click upto minimum speed. Further pressing this button maintains fan at minimum speed.

Remote is taken into sleep mode if not used for 3 seconds. Reuse remote if fan is to be turned ON. There are 5 speeds and OFF position in the fan.

For Lost Remote: Turn wall switch OFF and ON. This operates the fan at default speed. Use wall switch to turn fan OFF

Note: If Fan detects some abnormal condition such as high power or locked fan, it will make 3 attempts at 20 second intervals to check for removal of cause of failure. If the condition persists it will stop fan operation. Now the wall mounted ON/OFF switch or regulator would need to be turned OFF and then ON again to restart the fan.

If the Failure still persists please contact technician/factory.

Troubleshooting:

■ 1. Fan will not start.

Probable Cause:

- A blown fuse or circuit breaker tripped.
- Loose power line connections to the fan, or loose wire connections in the switch housing

Suggested Remedy:

- Check main and branch circuit fuses or circuit breakers
- Check live wire connections to fan and switch wire connections in the switch/regulator housing
- Reverse connection of live & neutral going into the regulator

■ 2. Fan sounds noisy.

Probable Cause:

- Loose screws on motor housing
- Screws securing the fan blade brackets to the motor hub are loose
- Bottom Canopy rubbing against the blade hub
- Wire connectors inside bottom canopy rattling
- Top Canopy is touching the ceiling

Suggested Remedy:

- Tighten all blade screws to fan before operating
- Check to make sure all screws on motor housing are tight
- Check to make sure the screws that attach the fan brackets to the motor hub are tight
- Check to make sure that the bottom canopy does not rub against the blade hub and top canopy does not touch the fan box cover plate on the ceiling.
- Check to make sure wire connectors in switch housing are not rattling against each other or against the interior wall of the canopy.
- Tighten all screws securely