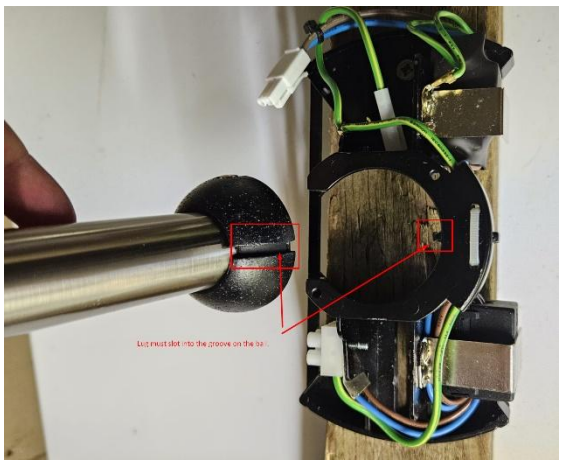
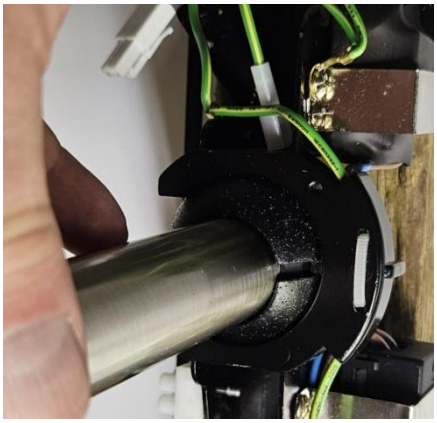
# How to mount a Henley Zephyr Ceiling Fan

# on a Sloping Ceiling

## Hanging system

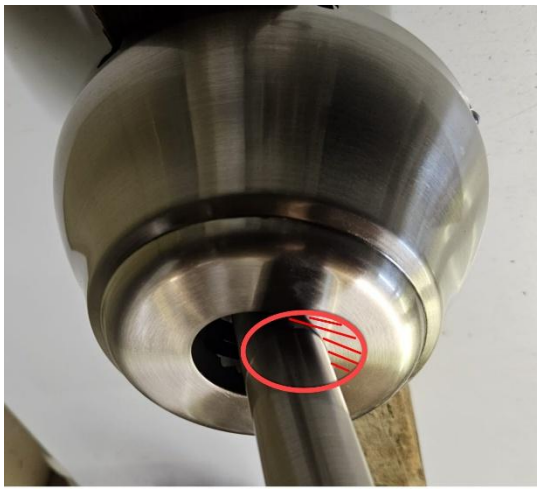
The system used is a simple but effective “ball and socket” style hanging bracket which facilitates easy mounting of the ceiling fan. The hanging bracket needs to be securely fastened by screws into a solid wood rafter, beam or cross-member. If going into metal then secured by bolts with shake-proof washers. The hanging ball just fits onto the drop rod with a cotter pin that then slots into the socket of the bracket and is secured with a small set screw. It also has a locator lug that permits swaying movement of the drop rod whilst holding it securely – this is important so that the ceiling fan can find it’s centre of gravity whilst suspended to avoid wobbles.





## Mounting at an angle

**Method 1** - **Bracket at an angle** - Measuring the angle from the normal flat ceiling the assembly can be mounted on an angle of up to 16 degrees max before the drop rod will touch the edge of the canopy cover. This can be overcome by cutting a small oval section out of the canopy cover to allow it to move further up to a maximum angle of 40 degrees. **NB: be careful that the locating lug of the ball is still kept in position of the slot as the angle increases. If not then the angle has to be reduced with a wooden chock or packing.**

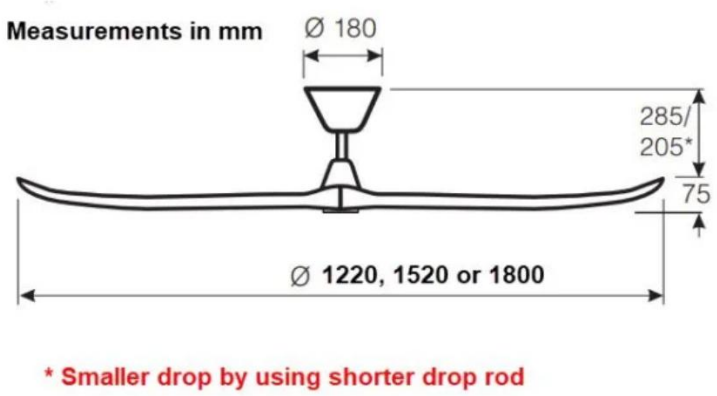
**Method 2 – Wooden wedge**. This method is simple and simply requires a piece of decent wood (eg hardwood like oak) to bring the mounting point back to horizontal. Drill holes in the wood before screwing to ensure you don't split the wedge as it will not be very big. The bracket then screws into the wedge or better still if you have long enough screws through the holes and into the main wooden beam. Ensure it is all solid to avoid any movement or vibration which can cause hums when in operation.

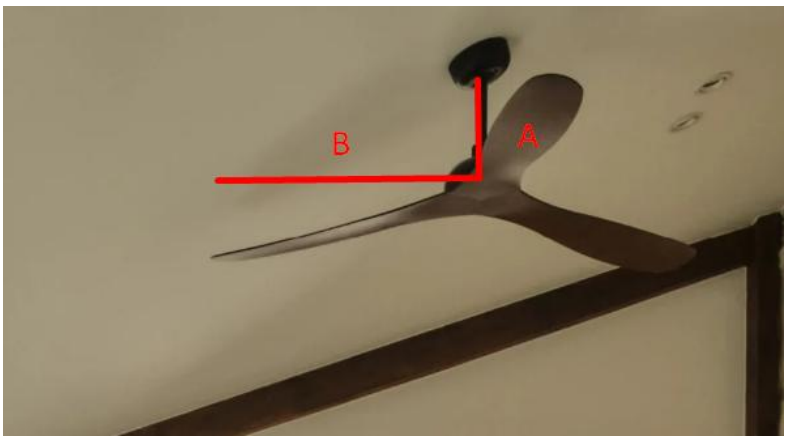
## Drop rod length

It is important to ensure that the blades don't touch the sloping ceiling and have sufficient clearance from it. To calculate it use some basic trigonometry:

1. B= length of one blade approx. half the fan sweep size eg 152cm/60" blade size would be 76cm.
2. Length of total drop required = B x tan θ (angle of the ceiling from horizontal) eg for 15 deg angle tan 15 = 0.27. For a 76cm blade the min drop required is thus 76 x 0.27 = 20.5cm.
3. Check the total drop of fan. The Zephyr fan drop is 36cm from the ceiling to the bottom of the blades. So this would leave plenty of room for the blades – in fact 57cm.

4. If the angle were 45 deg then the tan 45 = 1 so the min drop is 76cm so a 100cm drop rod would be required giving a total drop of 7.5 (blades) + 100 =107.5cm and leaving 107.5-76= 31cm from blade tip to the ceiling. If a 60cm rod were used the blades would touch the ceiling.




## Wiring

Follow the standard local code for electrical installations applicable. Regardless an on/off switch is recommended that can be a previous light switch if replacing a light or a new one if not. Since the Zephyr remembers the speed setting the fan can then be easily turned on and off just using the switch instead of having to locate the remote.

For further help please contact our office or email us:

**The Henley Fan Company Ltd**

**Tel: 01256 636 509**

**Email: Sales@henleyfan.com**