



Sullivan Pancake Alternator - Stator Bracket Designs

One North Haven St.
Baltimore, MD 21224

Ph (410) 732-3500
www.sullivanuv.com

Typical Pancake Alternator Configuration



S675-500 Rear View

Rotating Components (Rotor):

- Aluminum Shell (red)
- Outer Laminations (grey)
- Magnets (silver)

Sealed Bearing

Stationary Components (Stator):

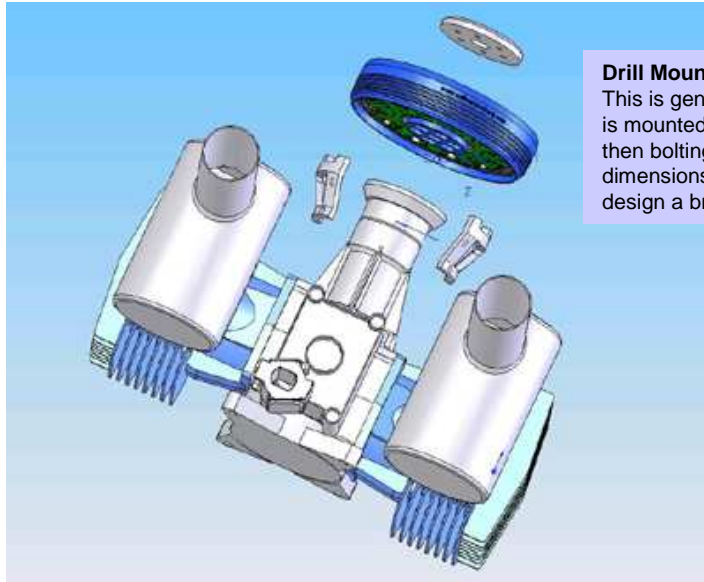
- Inner Laminations (green)
- Windings (brown)
- Output Leads (purple / white)



S675-500 Front View

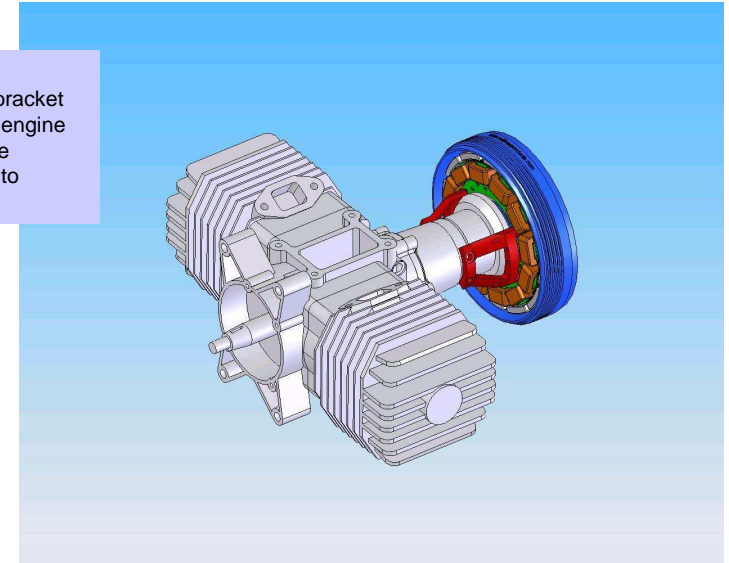
Stator is mounted to brackets with bolts through holes which are accessed via openings in rotor shell as seen here.

THREE PRIMARY BRACKET MOUNT TECHNIQUES



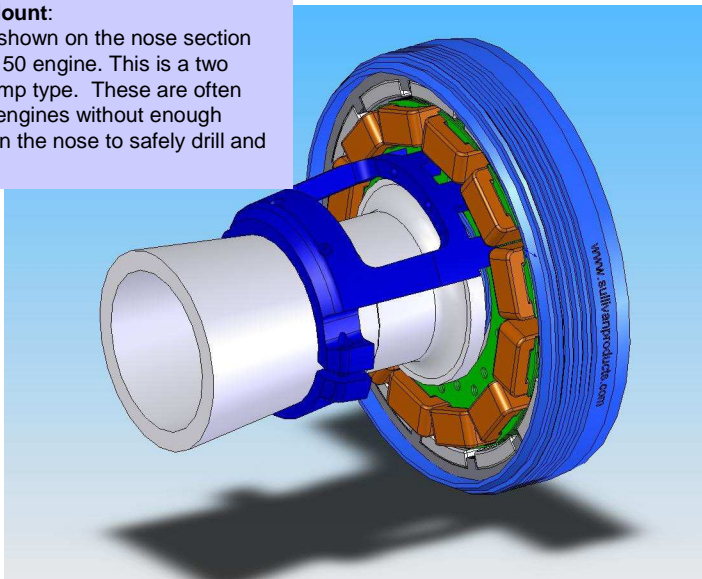
Drill Mount:

This is generally the lightest type of bracket. The bracket is mounted by drilling and tapping the nose of the engine then bolting into that. The attached PDF shows the dimensions that we usually need to know in order to design a bracket for this type of mounting.



Clamp Mount:

The one shown on the nose section of a DA-150 engine. This is a two piece clamp type. These are often used on engines without enough material in the nose to safely drill and tap to.



Hard Mount:

Some engines, such as the 3W-342 shown in the picture have bolts or threaded hard points located close enough to the front that they can be utilized. This works well since no modification to the engine is necessary, however most engines do not have any features like this to take advantage of.

