HARLEY'S EASY MOUNTING SYSTEM (HEMS) July 5, '11

By Harley Michaelis

Until some servo frame maker comes up with a "universal, tilting, sliding mount" for use with the "G2 System", a viable option is to use "HEMS" to secure your servos. The picture below shows an installation. Rails are attached to a base. A bracket cinches the servo down. If your servos come with side mounting lugs for screw mounting, you won't need brackets.

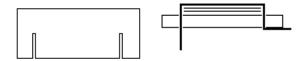


The "drive shaft" in profile must be directed into the "pocket" in the hinged surface. The base can be tilted with a wedge, a glob of silicone sealer or putty made from epoxy and a filler such as "Fillit" or micro-balloons. Have the drive shaft aligned in place between coupler and pocket until the adhesive has cured. The "G2 System" calls for <u>sliding</u> the installed servo to detach the "coupler" from the output gear or to attach/detach the hex ended "drive shaft" to/from the coupler. Have space behind the servo to slide it back. In a hollow wing, there's space between the skins. In a foam core wing, a little foam can be removed for clearance.

Servos can be cinched down with a bracket or plate.



If using a bracket, its vertical sides (legs) have to be the right length. If using a plate, the rails have to be the right height. For brackets, make slots in 1/8" ply as a bending form to get the vertical sides so the servo can't shift side to side. Then find the right leg length by gluing shims of 1/64" ply under the bracket top. Do trials with aluminum strip which bends easily.



Rails should be substantial. A stack of ply pieces is recommended. Assemble and glue to the base with yellow Elmer's Carpenter Glue, etc. so they stay together and stay put. For heavier duty applications, the brackets can be sized so two screws can be used on each side.