# THE LOGIC OF USING THE RDS

By Harley Michaelis October 3, 2010

**When I got into RC in the mid-1960's surfaces were moved by external horns, clevises and pushrods attached to output arms and wheels.**

**Since then, along the way, such things as epoxy, CA glue, glass and carbon fiber cloth, the ARF and computer radios have appeared to dramatically advance many aspects of the hobby.**

**The issue of unsightly, performance-robbing, external wing hardware has been ignored by the industry. While there have been refinements to reduce what's hanging out, the archaic system is still the predominant one being used. Isn't it time for this to go the way of the buggy whip?**

**To help get this into proper perspective, suppose that when you got into RC, a slick, all-internal system was universally being used to move hinged surfaces. Then suppose some upstart offered a horn/clevis/pushrod system. With a little thinking wouldn't you shortly realize the following?**

**Who needs it? Adjustments are made by programming. External hardware detracts from the beauty of a wing. It or bumpy covers cause parasitic drag that impairs performance. It makes annoying noises. It catches on things and gets mangled. It gets oily and dirty. It can disconnect to cause loss of control. In scale ships it detracts from authenticity. If hinging fails, a surface will be tethered and tear up where the horn is attached. There are many points where wear and slop exist or can progressively develop. It interferes with slipping wings in and out of bags.**

**In contrast, the G2 USA-made RDS, installed as detailed in the instructions, eliminates or mitigates all the above concerns.**

**Wouldn't your candid response be something like "Man. . . are you crazy? Get lost!"**

**If competition is your thing, consider that in F3B, arguably the most demanding of all RC competitions, intricate, machined forms of the all-internal RDS are almost exclusively being employed to extract the last bit of performance out of those highly-refined airframes. Some RDS systems out of Europe are being offered commercially, but using the 1999 Kimbrough couplers. They were the product of our collaboration, but I now consider them outmoded and that the new coupler we worked out makes for a far superior RDS.**

**The G2 USA-made RDS has a host of innovative features that make it the cleanest, most versatile, most precise RDS on the planet. It can be used in virtually all sizes and types of fixed wing RC aircraft with hinged surfaces.**

**Parts are meticulously and exclusively produced by IRF Machine Works, owned by modeler-machinist Walt Dimick and directly available by mail order. We collaborated to meet all criteria for the best possible RDS for main stream RC. It was financed entirely by US modelers who wanted to see it made available to all. Support could not be better with the On-Line Installation Instructions, e-mail help and Guest Book privileges to offer and seek input.**

**If you want to "clean up your act" and improve the performance of your RC airframes, this is the way to go. Anyone is free to enjoy this new technology and utilize it at his own pace.**