

HM Review

Jeff Troy

Great Planes P6E Hawk ARF, Part 2

O.S. four-stroke engine, Hobbico servos and new Futaba 12FG system are installed.



Specifications

- Wingspan: 76 inches
- Area: 1441 square inches
- Loading: 22-26 oz./sq. ft.
- Weight: 14-16 pounds
- Power: .91 - 1.20
- RC: 4 channels, five servos

ARF Kit Features

- Factory-built airframe parts
- Factory covered in MonoKote
- Factory-painted fiberglass cowl and wheel pants
- Hardware, fasteners & linkage
- 36-page instruction manual

HM's P6E uses five Hobbico Command CS-65 servos. Two 6-inch servo extensions, one Y-harness, a Futaba 1500mAh battery and a Great Planes Switch & Charge Jack Mounting Set complete the RC installation. Du-Bro Fuel Line Barbs are installed for reliable fuel tank plumbing.

Great Planes has outdone themselves with their P6E Hawk ARF. The model is produced from the highest quality components, expertly finished in Top Flite MonoKote with a factory-painted fiberglass cowl, and factory-joined wheel fairings and pants to match. Assembling the Hawk's large airframe was the subject of my previous installment, and the model is now ready for installation of the fuel tank, engine and radio equipment.

Great Planes recommends two-stroke glow engines from .91 through 1.08 C.I.D., or four-stroke glow engines from .91 through 1.20. I chose the high end of the curve for two reasons, I like to have a little extra power in reserve, and I happened to have a beautiful O.S. FS-120 Surpass III with Fuel Pump on my shelf.

Installation is by-the-book simple, and Great Planes provides a firewall drilling template for the included adjustable engine mount on the last leaf of the instruction manual.

The fuel tank and lines come with the kit, and I used Great Planes Silver Solder Kit (GPMR8070) to secure three Du-Bro Products 1/8-Inch I.D. Fuel Line Barbs (#813) on two lengths of 1/8-inch-diameter K&S

brass tubing for the utmost in fuel system reliability. I also applied a silicone bead around the stopper before slipping the tank in through the bulkheads.

I had intended to use the new Futaba FASST 6-channel system in the Hawk, but friends at Futaba suggested their new 12FG, which they showed me during my recent trip to the Toledo Show. I managed to get my hands on one of

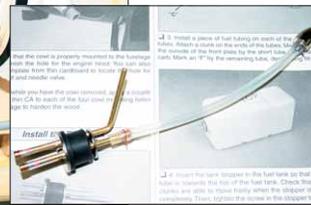
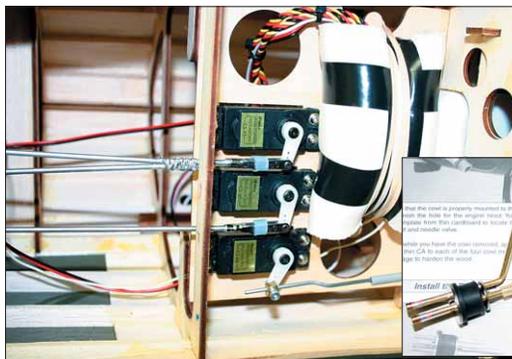


O.S. FS-120 Surpass III with Pump fits neatly inside the Hawk's huge fiberglass cowl. Note use of Great Planes Easy Fueler Fuel Filler Valve (GPMQ4160) and Sullivan Products Head Lock Remote (MO21) for cowl-on service access.

the beta systems just in time for this article, and it is more than a few steps beyond amazing.

The 12FG is equipped with Futaba's now familiar Rotary

Jog Dial for intuitive programming, a large LCD screen, Acro-Heli-Glider programming,



Futaba's 12FG 12-Channel Synthesized 2048 RC System



Futaba 12FG is Acro/Heli/Glider selectable with 30-model memory.



Crystal-free frequency selection, Rotary Jog Dial and large screen.



R5114DPS Synthesized Receiver is an ideal match for the 12FG.

30-model memory, six digital trims, two monitor LED's and an SD card slot and unlimited programming capabilities.

Futaba sent their 14-channel R5114DPS receiver to complement the 12FG. This is a synthesized PCM unit that takes advantage of the 12FG's Wireless Frequency Setting System, allowing crystal-free frequency changing on or off the flying site in just a few seconds.

The Hawk requires five servos, one standard for throttle, and four with a minimum of 54 ounces of torque each for the ailerons (2), elevator and rudder. I chose five Hobbico Command CS-65 Hi-Torque Servos rated at 77 ounces each at 4.8 volts, and these servos are an ideal match for the desired performance the P6E.

Pushrods, horns and linkages come with the model, and Great Planes Silver Solder Kit was again used to secure the solder links to the servo end of the pushrods.

Clevises are 4-40 threaded metal, and fit snugly on the model's control horns with no slop. I completed the RC installation with Great Planes 1/4-inch Foam Rubber, a Great Planes Switch & Charge Jack Mounting Set and a Futaba 1500mAh, 4.8 volt NiMH receiver battery.

I used a rotary tool with a coarse sanding drum to trim the massive cowl for the cylinder head, exhaust tube, needle valve, Head Lock Remote and Easy Fueler, then I assembled the parts for the convenient, laser-cut carrying handle. In my conclusion, I will add the decals and non-functional rigging, and finally fly the model.

For more information about the Great Planes P6E Hawk ARF, O.S. Engines, and Hobbico and Futaba RC equipment, see the ads on pages 7, 13, 51, 55 and 64, visit www.bestrc.com or telephone Great Planes Model Distributors in Champaign, Illinois, at 217-398-3630. **HM**



Great Planes' P6E Hawk ARF is a truly top-shelf project. The model flies for you in Part 3, coming soon in HM.