

O.S. FS-40 "SURPASS"

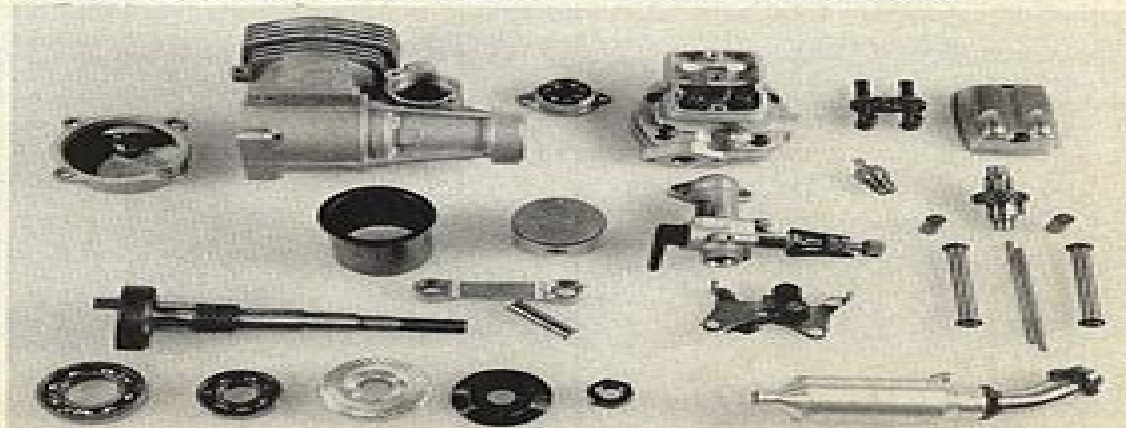
In 1976, Mr. Shigeo Ogawa, who heads O.S. Engines, introduced the O.S. FS-60, the world's first mass produced 4-stroke glow engine. His primary objective was a quiet running engine that could be operated on ordinary 2-stroke glow fuel. Japan, with its high density population, has even more of a noise problem and loss of flying sites than we do here in the U.S. The FS-60 met the requirement very nicely and was actually quite a gamble on Mr. Ogawa's part in not knowing whether or not the modeling world would accept a 4-stroke engine for their R/C aircraft. Other manufacturers had attempted to market 4-stroke spark ignition engines over the years without much success except for limited marine use. Obviously the modeling world was now ready for 4-stroke engine power and Mr. Ogawa's gamble paid off. Following the success of the O.S.

FS-60, other model engine manufacturers also entered the 4-stroke engine field. Kalt, who no longer produces engines, came out with a .45 size 4-stroke, and was followed shortly after by Saito with their FA-30 which, at the time, was the smallest 4-stroke engine available. Enya soon introduced a .60 size 4-stroke engine with considerably more power than the original O.S. FS-60, and it wasn't long before the horsepower race was on. Each 4-stroke engine manufacturer was attempting to produce a more powerful engine than his competitors. O.S., realizing that this increase in horsepower also meant an increase in the noise level went along with the game. They did

not particularly try to push their engines based on horsepower ratings, although O.S. engines have always been very competitive. Although O.S. has always played it low key in the power department in the past, they have evidently now decided to openly join in the horsepower race. This past month we received the first of a new line of high performance 4-stroke engines which O.S. has named the "Surpass" line. The new engine line is comprised of a 40, 48, and 120 with the 40 (our review engine for this month) being the first engine in the line to be released at the time of this writing. So let's take a look at the new O.S. FS-40 Surpass and see how it compares with the older standard FS-40.

SPECIFICATIONS

Type: Single cylinder, 4-stroke cycle, air cooled, glow ignition
 Bore: 21.2 mm (.8364")
 Stroke: 18.4 mm (.7244")
 Displacement: 6.49cc (.3964 cu. in.)
 Compression ratio: 9.1:1
 Rated horsepower: .65 @ 12,000 rpm (manufacturers)
 Operating range: 2,200-12,000 rpm
 Weight: 13.2 oz. (with muffler)
 Manufacturer: O.S. Engines Mfg. Co., Ltd., Osaka, Japan
 U.S. Importer: Great Planes Model Distributors, Champaign, Illinois



Os 71 Fs Surpass Manual

John Sherman Porter



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