

# O.S. FS-91 SURPASS

**F**riends and associates in both the retail and wholesale ends of the hobby industry tell me that the initial interest in the 4-stroke engines has peaked and that sales are now on the decline. Some seem to interpret this as meaning that fellows are losing interest in the 4-stroke engines. This may be true to some extent, as the 4-strokers are not for everyone. Many fellows gave them a try and decided that they did not

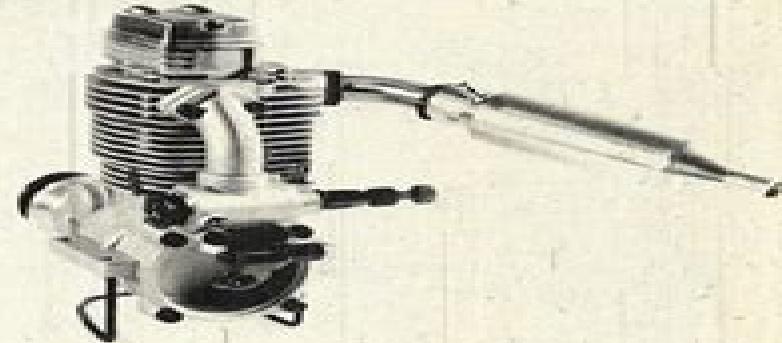
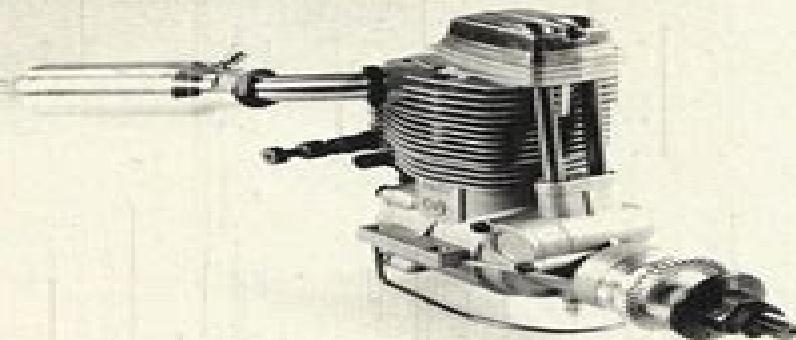
reviews will know, O.S. was the first model engine manufacturer to mass produce a 4-stroke engine — the O.S. FS-60 — which was introduced in 1976. The original intent was a quiet running engine with power being a secondary consideration. However, it wasn't long before fellows wanted more power out of their 4-stroke engines and the horsepower race was on. To stay competitive with the other 4-stroke engine manufacturers, O.S.

## Product Report

By Clarence Lee

### SPECIFICATIONS

Type: Single cylinder, 4-stroke cycle, air-cooled, glow ignition  
Bore: 27.7 mm (1.091 in.)  
Stroke: 24.8 mm (0.976 in.)  
Displacement: 14.96cc (.913 cu. in.)  
Compression Ratio: 7.65:1  
Weight With Muffler: 22.8 oz.  
RPM Range: 2,000-11,000  
Horsepower: (Manufacturer) 1.6 or 11,000 rpm  
Manufacturer: O.S. Engines Mf. Co., Ltd., Osaka, Japan  
U.S. Importer: Great Planes Model Distributors, Champaign, Illinois



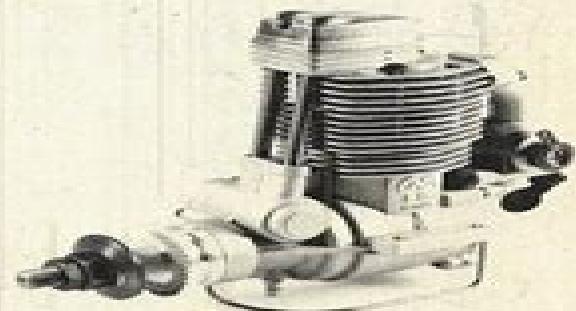
offer the type of performance that they desired. However, many others have discovered that the 4-strokes are fun engines to run and operate and cannot be beat for more scale-like performance and sound. The fact that sales of the 4-stroke engines have been on the decrease this past year does not mean that they will eventually disappear from the scene. As with anything new, there is an initial interest that gradually levels off to the normal sales demand. The Japanese engine manufacturers obviously feel that the 4-stroke engines are here to stay since they keep introducing new models on a regular basis. The O.S. 4-stroke line-up alone is now composed of no less than 14 engines. This past month we received the latest 4-stroke engine to be produced by O.S., the O.S. FS-91 Surpass, our review engine for this month. The FS-91 Surpass is a completely new design and not just an update of the earlier FS-90 that has now been discontinued from production.

As regular readers of these engine

developed their "Surpass" line of engines. To date, the Surpass line consists of the FS-40, the first engine in the Surpass line; the FS-48, FS-120; and the latest release, the FS-91. I imagine it will only be a matter of time before the FS-61 is also updated to Surpass specifications, although the FS-61 in its present form is already a strong running engine having evolved from the original FS-60. It has been very interesting the past ten years watching the evolution and development of the model 4-stroke engines and seeing how the various engine manufacturers are going about increasing the power of the engines. Most all of the power gains have come about through camshaft and valve train design changes that result in better breathing characteristics, and combustion chamber shapes that increase the power without any detonation tendencies. The new FS-91 develops approximately 20% more power than its predecessor, the FS-90, and yet weighs 2 ounces less giving it a power to weight improvement of

over 30%. So let's take a look at some of the construction features of the new O.S. FS-91 Surpass.

**Crankcase:** Like all of the engines in the Surpass line, the FS-91 uses a one piece pressure die cast aluminum crankcase with removable head and backcover and the front mounted camshaft housing cast as part of the crankcase. This is a major change



# Os Surpass 91 Manual

**Hagop M. Kantarjian, Robert A. Wolff**

## **Os Surpass 91 Manual:**

The MD Anderson Manual of Medical Oncology, Second Edition Hagop M. Kantarjian, Robert A. Wolff, 2011-04-22 State of the art approaches to cancer management from the world's 1 oncology center The perfect clinical desk manual from the experts at MD Anderson Cancer Center Read the outstanding reviews of the previous edition As a detailed guide the book offers practitioners a clear user friendly approach to the care of patients with cancer New England Journal of Medicine The portions of the text that summarize the chemotherapeutic literature are helpful and potentially useful to a busy medical oncologist The graphic representations and flow charts are of high quality are well designed and easy to follow and are clinically useful A number of good photographs have been provided that illustrate pathologic conditions the Manual is well written has extremely useful graphics and represents a useful entry point for those interested in the management of malignant diseases International Journal of Radiation Oncology Biology Physics MD Anderson Manual of Medical Oncology fulfills its goals of helping clinicians quickly evaluate therapeutic regimens and possibilities Surgeons and radiation oncologists will find the text useful as a reference guide to what the medical oncologist can do and how the medical oncologist views their disciplines The text is also of considerable help for physicians studying for board certification or recertification in medical oncology Practicing medical oncologists would do well to have it in their personal libraries Journal of the American Medical Association MD Anderson Manual of Medical Oncology offers clinicians an authoritative easy to follow guide to the medical management of patients with cancer and its complications Featuring concise but practical text and a large number of decision making algorithms the book gives physicians a current templated approach to each disease and situation backed by the clinical expertise and authority of world recognized oncology researchers practitioners Key Features REVISED completely updated coverage of the quickly evolving world of cancer therapeutics NEW chapters include Expert Commentary Sidebars that provide clinical insights from leading subspecialists in radiation therapy surgical oncology pathology and laboratory medicine NEW brand new chapters on myelodysplasia myeloproliferative diseases and appendiceal cancer NEW a brand new chapter on the important and underpublished topic of psycho social issues in oncology Consistently formatted for a unified patient management strategy Packed with time saving features including The MD Anderson Work Up Box and The MD Anderson Preferred Treatment Box

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