

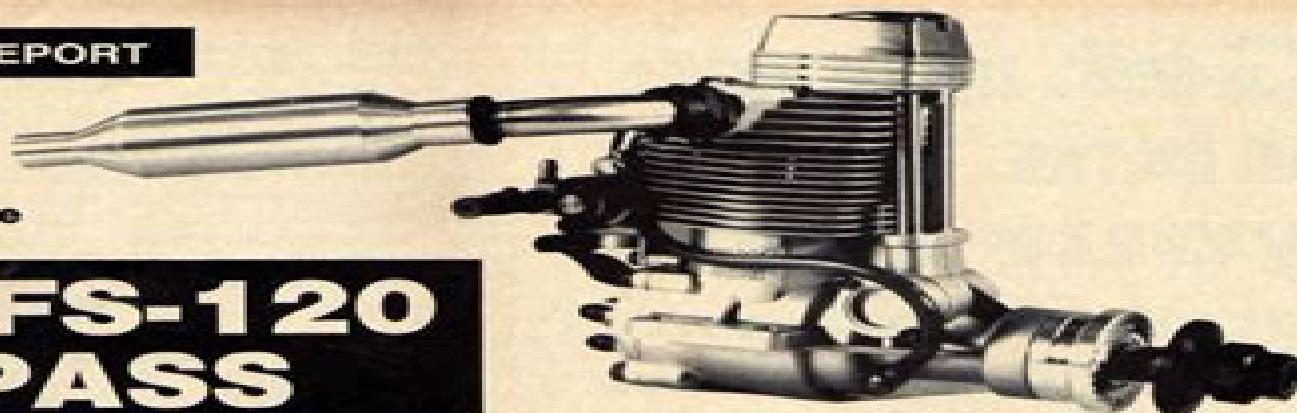
By Clarence Lee

# O.S. FS-120 SURPASS

## SPECIFICATIONS

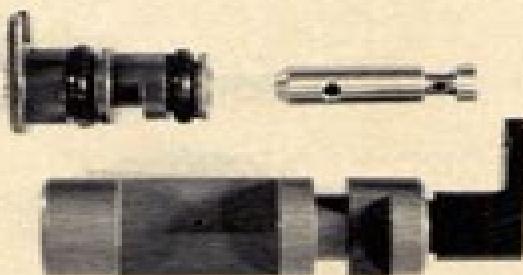
Type: Single cylinder, 4-stroke cycle, air cooled, glow ignition  
 Bore: 30.4 mm (1.197")  
 Stroke: 27.5 mm (1.083")  
 Displacement: 19.96 cc (1.218 cu. in.)  
 Compression ratio: 8.68:1  
 Rated horsepower: 2.1 @ 12,000 rpm  
 Operating range: 2,000-12,000 rpm  
 Weight: 2 lbs. 2.5 oz. (with muffler)  
 Manufacturer: O.S. Engine Mfg. Co. Ltd., Osaka, Japan  
 U.S. Importer: Great Planes Model Distributors, Champaign, Illinois

Our review engine for this month, the O.S. FS-120 Surpass, will be the third engine in O.S.'s new line of high performance 4-stroke engines that we will have reviewed. The FS-40 Surpass was reviewed in the May issue and the FS-48 Surpass in the August Engine Clinic. These three high performance 4-stroke engines have gotten completely away from O.S.'s original 4-stroke concept. This



was to have a moderately powerful, but quiet engine for model aircraft for modelers having to fly under

conditions requiring strict noise limitations. However, modelers always seem to think that the best



Carburetor metering valve assembly and throttle valve. Small hole in center feeds fuel into airstream. Two additional holes (not pictured) at end of valve cut-out, also likewise.



Piston, wrist pin, rod assembly. Note lightening cut-outs in piston and single Teflon scuff pad in wrist pin.



Combustion chamber. In-take valve considerably larger than exhaust valve. Note glow plug hole offset towards exhaust.

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**Raffaela Di Napoli**

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