

ENGINE
REVIEW

by MIKE BILLINTON

The standard pushrod OHV layout forms a base to which the new supercharger has been added.



OS. JAPAN HAS obviously realized that when one of its engine does well in a prestigious model event, its sales—and its profits—increase. The company's most recent top-of-the line offerings include the .21 RX-R car engine, the FAI Aerobatic Hanno Special .61 RF and the FS-120—a fearsome, unique, 20cc, supercharged 4-stroke tested for this review.

This superb engine was clearly intended to dent the YS 120's hold on the F3A pattern event, and it's a technical masterpiece. Setting it up and operating it will, however, daunt all but the most committed modelers. Fortunately, O.S. provides very comprehensive instructions that, if followed closely, guarantee a satisfactorily thunderous, supercharged performance. Right now, it's still a little early to assess its true potential in the air, but Hanno Prettnr's fifth place in the November '91 World Championships is probably just a hint of what's to come.

Some years back, F3A engine regulations were amended to allow 20cc 4-strokes to compete against the traditional 10cc 2-strokes, and it's worth considering the consequences of this. At the time, the FAI recognized the

considerable advantage held by the highly developed tuned-pipe 2-stroke, but it also saw that noise was becoming a problem. Now, both styles of engine are battling it out, and both operate less noisily (down at around 9,000rpm). Forced down to lower rpm, though, the 4-stroke's power advantage (YS 120: 2.3hp; FS-120: even more punchy) over the 2-stroke's 1.6hp doesn't seem to count for much.

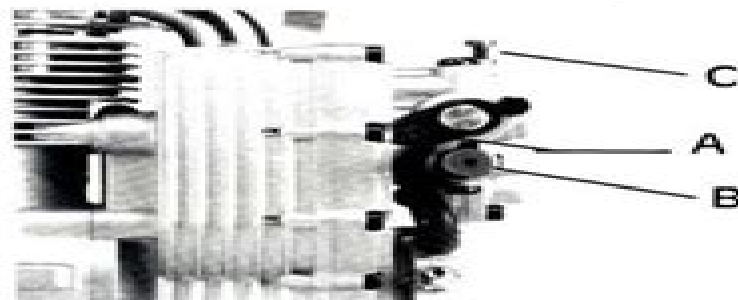
An engineering work of art

Because a 4-stroke produces noise at a lower, less abrasive frequency than a 2-stroke, it sounds quieter, even though the dB meter shows that it's just as noisy. It also offers nearly twice as much torque, but so far, that hasn't been enough to ensure its victory.

Having recently tested and operated the Webra .61F long-stroke (winner of recent World Champs), I still think the simplicity of the 2-stroke tuned-pipe unit will always appeal to competitors. Some will always think that the relative complexity of the impressive 4-stroke makes it more difficult to focus on flying. Others though, thrive on complexity; they'll be happy to put extra care and attention into the 4-stroke's installation, plumbing and operation. In other areas of technological advance, increased effectiveness often means increased complexity; why not in the area of model engines?

MECHANICAL NOTES

Though most modelers could strip and rebuild the usual 2- or 4-stroke engine, O.S. says you'll reduce this one's performance if you do so. They probably advise against it because of the supercharger unit that's bolted onto the rear of what's otherwise a fairly standard O.S. 120 FS engine. The problem is sure to be the supercharger's very precise internal clearances, with which the engine overcomes the adverse "scale effect" of being a small engine. (Small engines have a small volume of air going through them, and this represents a low inertia that inhibits cylinder filling



The adjustment screw for mid-range and idle mixture is at "A"; the main fuel needle is at "B"; the throttle stop is at "C."

Os 120 Fs Surpass Manual

Eric Caren



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