

spraybar has a single fuel hole, facing downstream and a very easily operated needle with flexible extension and good ratchet spring.

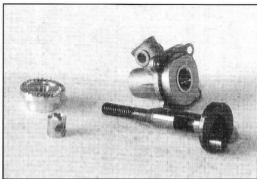
Also provided with the engine is a compact silencer, with pressure nipple, gasket and fixing screws. All fits on the test engine are pretty good, although the piston is on the tight side.

The test

On the test stand, with a 7x6 Graupner Super propeller and a fuel with 20% oil and 5% nitro-methane, my initial thoughts about the tight piston fit were confirmed. Either it would turn over without firing, or with more fuel, it would fire once and stick at T.D.C. Eventually, I resorted to the electric starter for a solution and got it going rich and slow. After about 15 minutes running, hand starting became an alternative as the high spots wore off. From about 55 minutes onwards, the engine would hold a maximum power setting, so at 1 1/4 hours I started the test work. By this time, starting was easy, with or without the silencer, four or five choked turns to prime the crankcase and half a dozen smart flicks had it going. Without the silencer, peak power output is around 0.15BHP at 12000rpm, rather less than the literature claims. Fitting the silencer reduced engine revs by 200 to 300, but had a very beneficial effect on noise emission. For normal sports use there is little to be gained in leaving off the silencer. Finally, I did a couple of trial runs without the silencer and choke restrictor, using fuel containing 25% nitro methane. On the 7x3 test propeller I registered 15,600rpm, equivalent to 0.165BHP and on the 7x4, 13400rpm and 0.155BHP.

Conclusion

All in all a nice strong sports engine which is easy to use. Ideal for free flight and control line where it would be well suited to a trainer or a small aerobatic model. Steve Webb tells us that most of these engines are a little tight when new but he had not heard of one which could not be hand started before. At £38.17 including silencer it is good value for money and should have a long working life. The full range of Enya engines is available from Steve Webb Models and Hobbies, 80 Church St, Frodsham, Warrington, Ches. WA6 6QU.



The crankshaft, front housing, prop driver and choke insert which de-tunes the engine and makes it easier to use. A paper gasket is used to seal the front end joint.