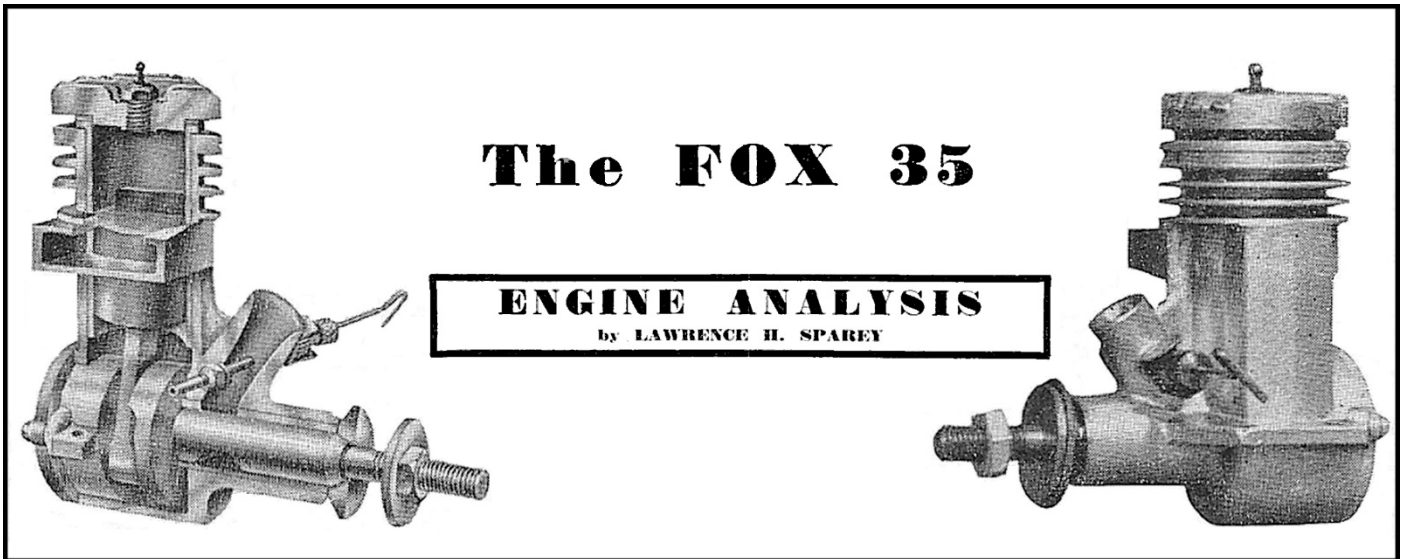
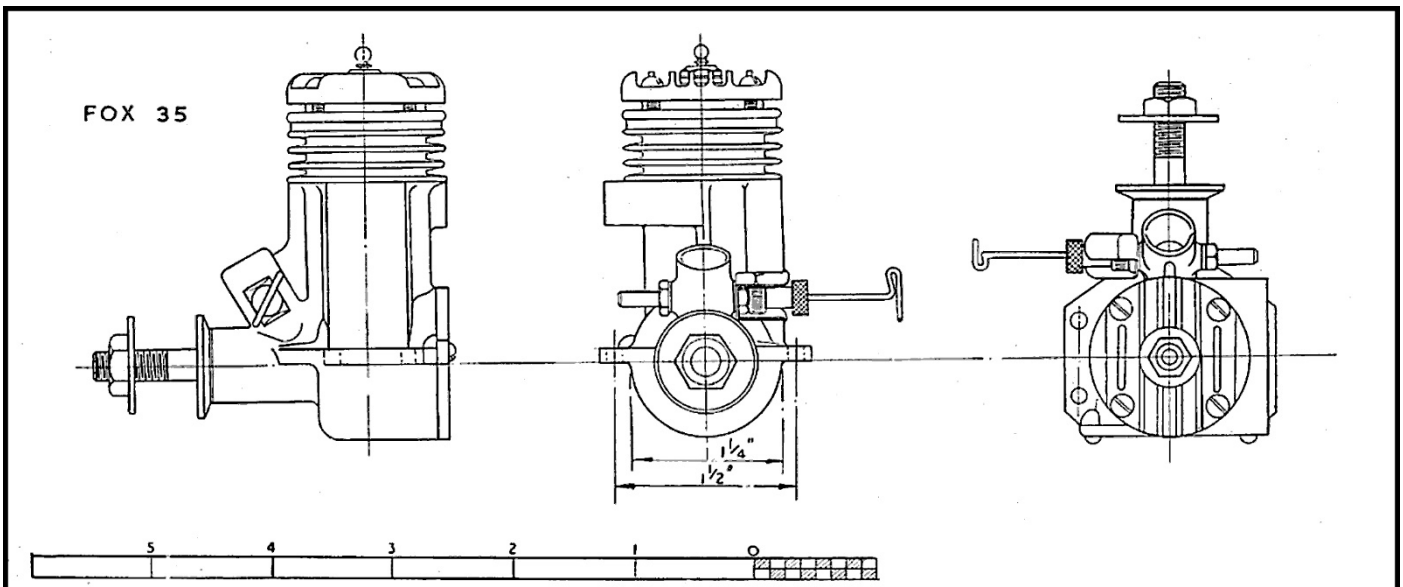


Fox 35



Al Though the engines tested this month are not available in this country, they should be of considerable interest as being the first American engines to appear in these pages, and for comparative purposes.

The Forster "29" is one of the "B" class American units, while the Fox "35" represents the lower priced "sport" power plants. Both engines are remarkable for the high power outputs and the high rate of revs. They were also, from my point of view, remarkable for the terrific, piercing whine which they emit when running flat out, so that I had recourse to cotton wool ear plugs after being temporarily deafened in my enclosed test shop.



TEST

Engine : Fox " 35 " Glow-plug.

Fuel : " Mercury Super Racing Glow-plug ".

Starting : Extremely good at all times, both by hand and pulley and cord.

Running : Exceptionally smooth and flexible at all speeds from 4.000 to 18.000, but happier above 10.000 r.p.m. than below it.

B.H.P. : A maximum output of .623 b.h.p. was recorded at around 15.000 to 15.800 r.p.m., but the curve at this point is so flat that the exact point was difficult to determine. B.H.P. drops steeply after 16.000 r.p.m.

Fox 35

It is interesting to note that at 5/000 r.p.m. the output is only one sixth of maximum.

Checked Weight: 5.75 ozs. (less tank). For some remarkable reason the maker's leaflet gives 7 ozs. as the weight.

Power/Weight Ratio : 1.735 b.h.p./lb.

Remarks : The astounding power/weight ratio of this engine will be noted. Engine was run-in for one hour at 4.000 r.p.m., but there were signs of frictional losses at the highest speeds, due, probably, to the use of plain bearings.

GENERAL CONSTRUCTIONAL DATA

Name : Fox " 35 ".

Manufacturers : Arnold & Fox Engineering Co., 7401 Varna Ave., North Hollywood, California, U.S.A.

Retail Price : 811.95. Type: Glow-plug.

Specified Fuel: Castor Oil 33%, Methanol 25%, Nitro Methane 42 %

Capacity : 5.75 c.c., .35 cu. ins.

Weight (bare) : 5.75 ozs.

Compression Ratio : 6 : 1.

Mounting : Beam.

Bore : .800 in.

Stroke : .700 in.

Cylinder : One piece steel liner in alloy barrel.

Cylinder Head : Alloy, attached by 4 screws.

Crankcase : Gravity alloy casting.

Piston : Mehanite, plain, " Straight fence " baffle.""

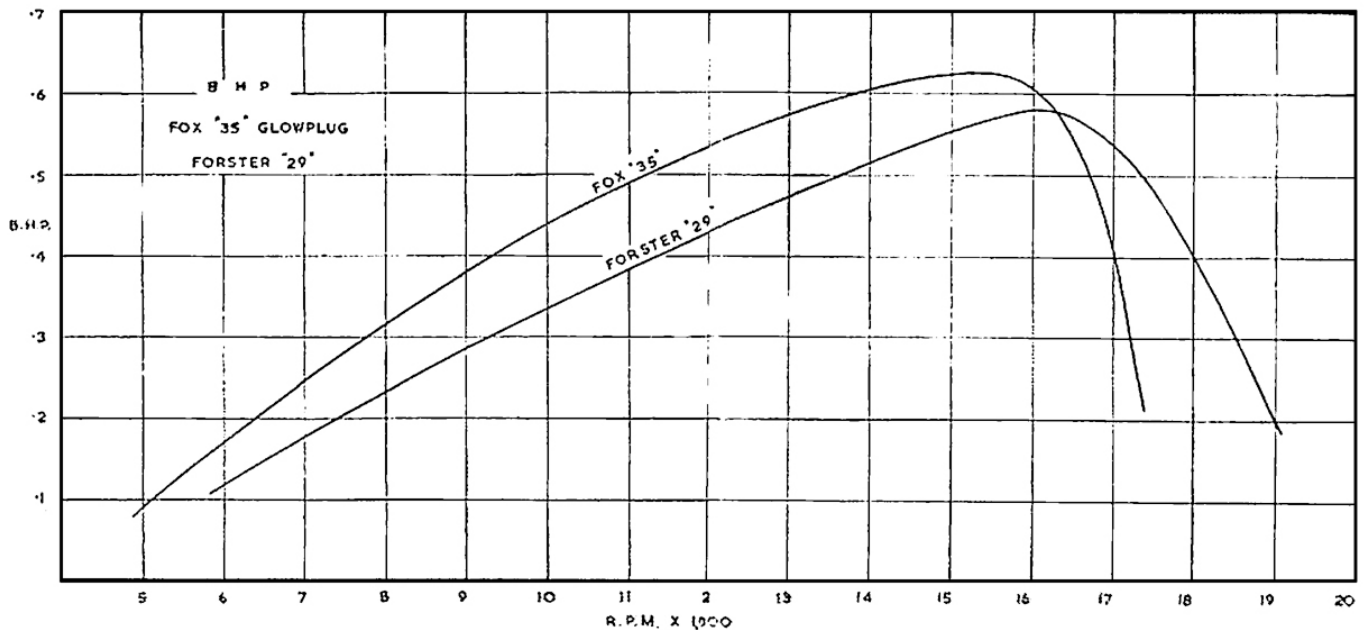
Connecting Rod : 17 S.T. Aluminium alloy.

Crankpin Bearing : Plain.

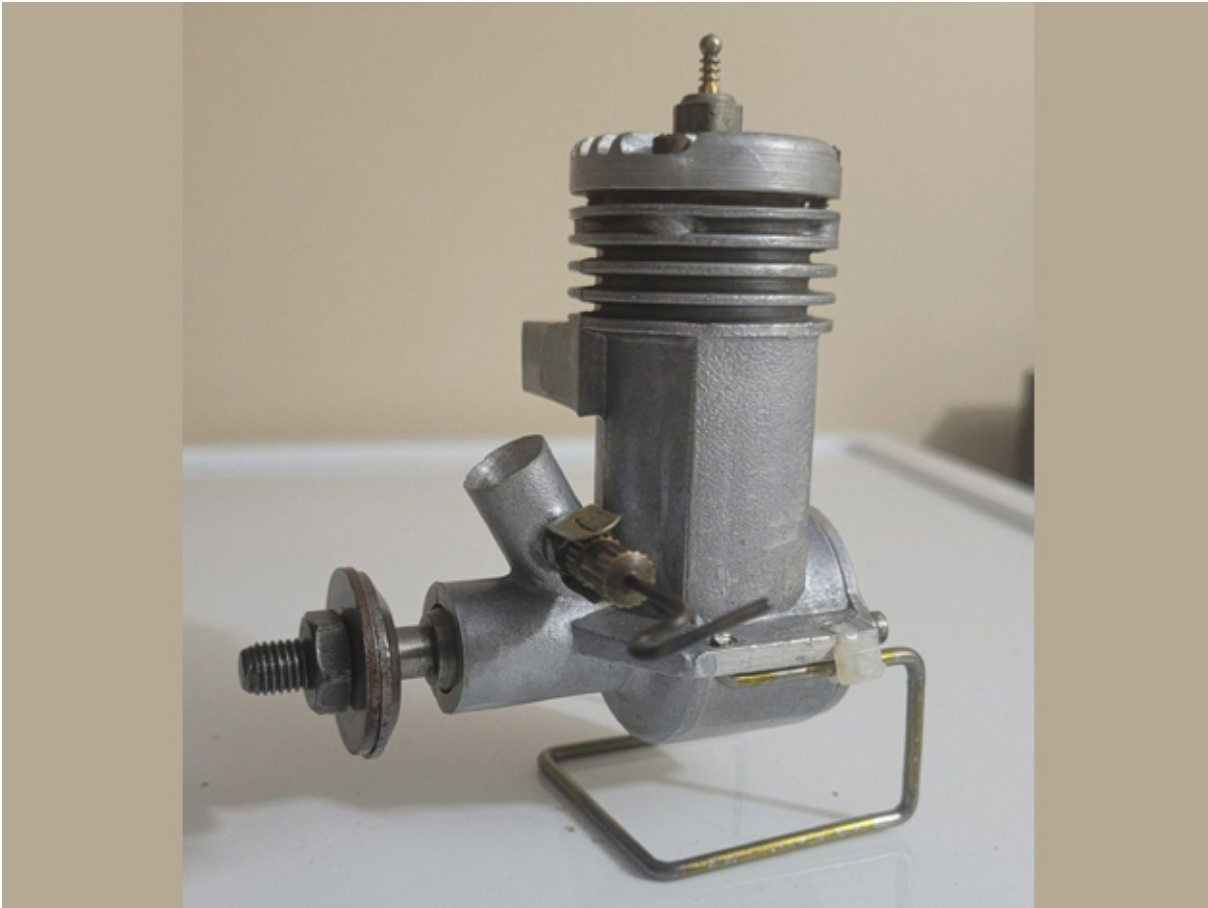
Crankshaft : Steel.

Main Bearing : Bronze.

Crankshaft Valve : Rotary Shaft.



Fox 35



AeroModeller Magazine August 1950 by Hlsat

Fox 35

As I understand and by many photos, this is the first FOX 35 built by the Duke in his Mothers garage in 1948 and distributed them by word of mouth. He teamed up with Dale Arnold, Creating Arnold and fox engineering Co. Distributing Superpower FOX 35 in 1949. And yes this is in my collection that i purchased many years ago.

More: https://flyinghlsat.com/search.php?search_keywords=Fox-Engines