One that nearly made it

Competition from used military Chipmunks undercut sales of this useful trainer, says David Ogilvy



or some people the name 'Auster' is a bit of a mystery. Many treat it as a type in itself, while others use it as a maker's name. The problem is that either view can be correct. Why? Because when the basic design came into the UK from the USA, Leicester-based Taylorcraft Aeroplanes Ltd named one of their products 'Auster'. Then, to show a complete divorce from the country of origin, the company changed its name to Auster Aircraft Ltd. From that stage, each design had its own designation and/or name, eg Auster 5/J1 Autocrat which was the first post-war mass-produced civil machine (covered in the February 2005 issue of General Aviation).

In this case why do I include this aircraft's role in the heading when so many types also were intended to serve in the instructional field?

Because the Aiglet Trainer is a design in itself and is a different machine from the basic Aiglet.

Whilst most variants in the Auster range were broadly similar in appearance as strutbraced high-wing cabin monoplanes, they varied more in performance and utility than their shared shape might suggest.

The Aiglet Trainer came to light in 1951 with an Autocrat fuselage modified to take a Gipsy Major 1 of 130hp in place

of the earlier design's 100hp Cirrus Minor 2. The wings were shortened by four feet, the fin was enlarged and the bracing struts were strengthened. The result was a semi-aerobatic machine stressed to between 3.5 and 4.5g depending on the loaded weight. In common with other Austers, despite doors on each side, the J5F is not particularly easy to enter, but once inside the simplicity of the generous cabin has its own appeal, with a large dose of clear Perspex ahead. Many features were unaltered from the earlier Autocrat, but with a four-point harness in place of the original lap-strap. The



Left: the prototype Aiglet Trainer, an Autocrat fuselage married to a 130 hp engine Above: the brochure model, G-AMMS, is still in flying condition today Main picture: shorter wings and larger tail marked out the Trainer



notos via Philip Jarrett

compass remains suspended from on high viewed through a mirror and a high speed winder in the roof dictates the elevator trim. Straps are fitted to the rudder pedals and the smallest imaginable heel brakes emerge from the floor. The functionally simple cockpit reveals all cables in the open for all to see. Unlike its predecessor, though, which had a fuselage-mounted fuel tank ahead of the cockpit, the J5F has tanks in each wing root accommodating a total of 32 gallons.

On the move, the Trainer with its freecastering tailwheel behaves quite well, and once the heel brakes are mastered taxying presents no problems. Compared with many tail-draggers, the view ahead and around is good.
There are pros and cons to
most things and despite increased
power and a Fairey-Reed metal propeller
the get-away performance is less
impressive than one might expect. No
doubt this is due to the reduced span and
heavier wing loading, leading to a
comfortable lift-off speed of almost
60mph. The subsequent climb rate is
about 650 feet per minute.

On the level, a fairly generous 2100rpm produces a cruise of almost 110mph, using 6.5 gallons per hour. A noticeable bonus at this stage is the improved performance by the J5F's Frize ailerons compared with the relative slop

of those on the Autocrat.

Here, unlike on take-off, the reduced span reveals its positive qualities. The stall is innocuous at all flap settings, but with the lot lowered the rate of nose drop is very marked.

Not surprisingly the Aiglet Trainer feels generally more manoeuvrable than its predecessor, but the high-wing strutbraced configuration does not put one into an aerobatic mind frame. Although a loop from only 10mph above cruising



trainer. This, like many other of the type's features, is a left-over from the Autocrat and its forebears.

After a final line-up at 60, the J5F touches down on three points more readily than its forerunner, which had a reluctance to stay down and would bounce energetically on a premature contact during rather than after completing the round-out. Despite the extent of the flat side area, with differential use of the heel brakes, Austers in general are relatively easy to keep straight on the landing run, although some care is needed to avoid a nose-over. Overall, the bungee suspension seems more tolerant than on earlier machines.

The standard J5F was the most numerous of the Aiglet Trainers, but there were other variants powered by the Cirrus Major and the Gipsy Major 10. Production was spread on a low-key basis over seven years to 1958 and only 28 examples of the 70 built came onto the UK register. With considerable numbers of ex-RAF Chipmunks coming onto the market at relatively low cost, demand for new aircraft



speed goes round very happily, the rolling

the fault may well be mine, for I am being

established an amicable relationship with

the user-friendly Chipmunk! Perhaps my

comments become fruitless, though, when

more than a flick roll on the top - created

by Ranald Porteous and made public at

plane is a bit more cumbersome. Again,

comparative and when I tried it I had

I remind readers that the famous

Avalanche – basically a half loop with

the Farnborough display in 1951, was performed on the prototype J5F. Back on the circuit, the initial approach at 70 leads to selective use of flaps, which

are controlled by a handle, three feet in length, beside the left-wing root rib, with a sleeve that is pulled forward to lower 10, 20 or 30 degree settings. This is not particularly easy to operate and can be reached only by the left seat occupant, which is a marked disadvantage on a

Top left: strengthened struts helped stress the Trainer up to 4.5g Above left: a Trainer for export, this one registered in Rhodesia Above: the Trainer is relatively easy to land, with forgiving suspension Below: G-AMMS today - 'the most pleasanthandling Auster'

from cash-strapped flying training organisations must have been low, but small numbers of J5Fs were used by some leading organisations including Air Service Training at Hamble, Airways Aero Association (initially at Croydon) and the

Almost certainly from the handling these are airworthy. A few others operate in



College of Aeronautics at Cranfield. aspect, the Aiglet Trainer was the most pleasant of the many Auster products and without competition from the used market more would have been sold. Today six remain on the UK register and three of other parts of the globe, keeping alive an interesting type that had the misfortune to come onto the training scene at the wrong time.

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