

speeds. Not bad for a 116-hp engine. One of a canard design's benefits is stall- and spin-resistance. The canard is set at a higher angle of incidence than the main wing. At high angles of attack, the canard will stall before the main wing. Theoretically, this prevents the main wing from ever stalling. These general canard principles are true for the Speed Canard. However, pitch-bucking (alternate stalling and unstalling of the canard at high angles of attack) begins without warning, and the Speed Canard that I flew had no stall warning buzzer. Most airplanes will signal that they are about to stall by aerodynamic buffeting. Not so with the Speed Canard. Power-on stalls are remarkable in that the airplane continues to climb, even as the canard stalls. Attempts to spin in the Speed Canard resulted in steep spirals.

The Speed Canard's proportions and bumblebee shape suggest an airplane



that might be very pitch sensitive. Not true. The airplane flies rock-steady, and there is no temptation to chase control inputs. From the cockpit, the pilot is faced with a sensory paradox. The visibility and dimensions are those of an ultralight; the speed and ergonomics are those of a much, much faster airplane. It takes only a bit of imagination to believe you are at the controls of a futuristic, personal fighter. The airplane is a hot rod.

It is a good thing that we recreational fighter jocks travel light. The Speed Canard is short on baggage space. Without the two optional underwing baggage pods, cargo must fit in the aft cockpit's footwell—and be limited to 33 pounds. There might be a problem if you are carrying a passenger. The under-wing pods are rather small and are limited to 17.6 pounds each. Oh, well. At least you can pretend they are ECM pods or some other hard-point equipment.

American certification may be a long way off. The absence of any stall warning and the unusual takeoff and landing technique may cause the American authorities concern. And then there is the matter of the Speed Canard's composite construction. The United States has yet to certify a composite-construction airplane in anything other than the Experimental/amateur-built category, and the Federal Aviation Administration is likely to be wary. The Germans have had plenty of experience certifying composite lightplanes and sailplanes. Let us hope that the German precedents will provide the FAA with enough confidence to begin certi-

Anticipated price \$40,000	
Specifications	
Speci	incations
Powerplant L	coming 0-235, 116 hp
	@ 2,800 rpm
Propeller Hoff	mann 3-blade, constant
	speed
Length	17 ft 1 in
Height	6 ft 3 in
Wingspan	25 ft 3 in
Wing area canard	13 13 sq ft
main w	ing 84.4 sq ft
Wing loading	15 26 lb /og ft
Provide the second	13.36 lb/sq ft
Power loading	12.9 ID/hp
Seats	2
Cabin length	9 ft 2 in
Cabin width	2 ft 1 in
Cabin height	3 ft 3 in
Empty weight	915 lb
Gross weight	1.499 lb
Useful load	584 lb
Pauload w/full fuol	330 lb
Fayload w/full fuel	330 ID
Fuel capacity, sto	42.3 gal/254 lb
Baggage capacity	33 lb
Performance	
Takeoff distance, gro	ound roll 1,411 ft
Takeoff distance over	er 50-ft obst 2,133 ft
Rate of climb, sea le	vel 984 fpm
Cruise speed/Range w/45-min rsv, std	
fuel (fuel consumpti	on, ea engine)
@75% power	
6,000 ft	151 KTAS /769 pm
0,000 11	(20 6 mmb / 6 6 mmb)
OVEN	(39.6 ppn/6.6 gpn)
(065% power	
6,000 ft	147 KTAS/865 nm
	(34.86 pph/5.81 gph)
@55% power	
6,000 ft	141 KTAS/1,000 nm
	(29.3 pph/4.89 gph)
Service ceiling	14.500 ft
Landing distance ov	er 50-ft obst 1969 ft
Landing distance or	round roll 820 ft
Limiting and Base	ound fon 820 h
Vis (Decision and Recommended Anspeeds	
va (Design maneuve	ering) 135 KIAS
Vno (Max structural	cruising) 165 KIAS
Vne (Never exceed)	195 KIAS
Vs1 (Stall clean)	57 KIAS
All specifications are	e based on manufactur-
er's calculations. All performance figures are	
based on standard day, standard atmosphere,	
at sea level and gross weight, unless other-	
mise noted For further information contact	
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Flugnajen, 7570 Baaen-Baaen, West Ger-	
many, telephone 49 (0 72 21) 6 50 61/6 50	
62); or Speed Canard Aircraft Corporation	
USA, 701 B Street, Suite 490, San Diego,	
California 92101, telephone 619/231-7879.	
California 92101, tel	Suite 490, San Diego, lephone 619/231-7879.

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fying composite aircraft on its own. Gyroflug anticipates that the American price of the Speed Canard will be approximately \$40,000. An American office, Speed Canard Aircraft Corporation USA, San Diego, California, has been established, and the airplane recently was displayed at the Experimental Aircraft Association's annual fly-in at Oshkosh, Wisconsin. The Speed Canard is off to a slow start in this country. We hope that 1985 will bring more of them to these shores. —TAH