

Putting it All Together: Pilots Operating Handbook (POH)



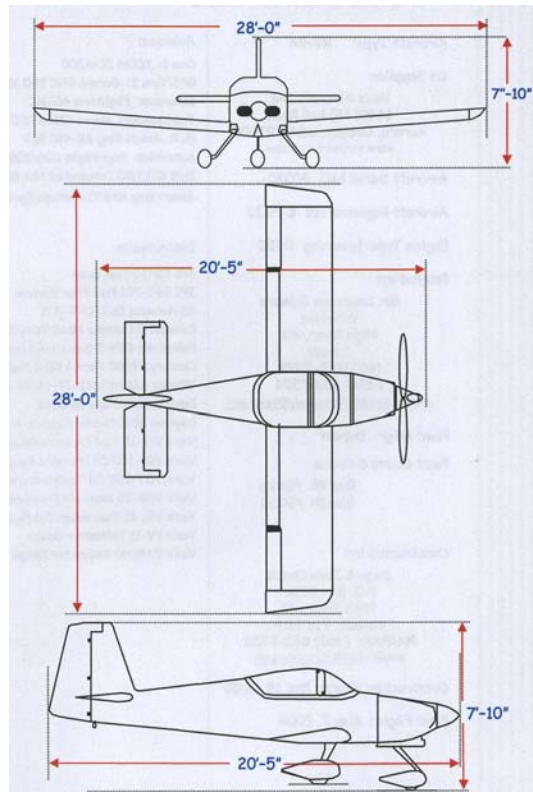
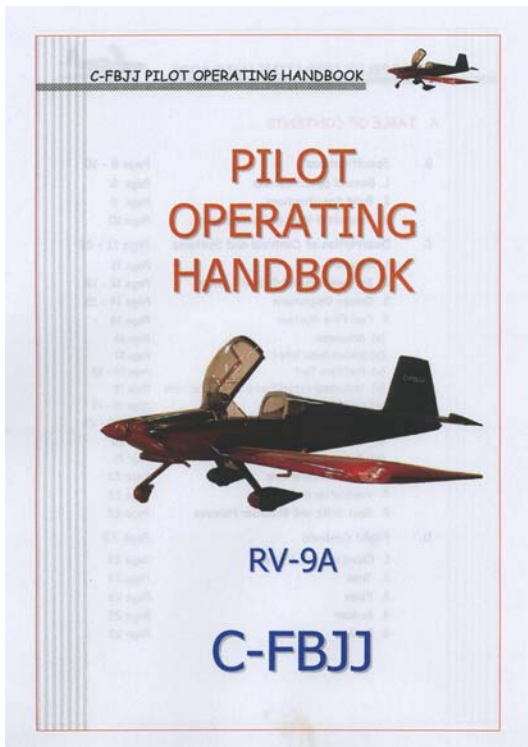
Over the last several months, we have investigated the flight envelope of our RV-9A, C-FBJJ. Although a Pilot Operating Handbook is not compulsory for a Canadian amateur-built aircraft, I can't understand how any pilot would not

insist on having and using one as a simple guide and checklist for planned flights.

So let's put it all together. This column summarizes the information resulting from our various test flights into a useful format; a POH, that stays in the aircraft together with the Journey Log and the various documents that are required to be carried onboard for every flight.

Aircraft:

Type:	RV-9A
Kit Supplier:	Van's Aircraft Inc., Aurora, OR.
Serial No.	90020
Registration:	C-FBJJ (Canadian)
Builder:	Jean & Jack Dueck
Construction Start:	January 15, 2000
First Flight:	May 7, 2004



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Pilots Operating Handbook, Cont'd

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Basic Specification List

Engine:	Lycoming 0-320 E02, 160 BHP
Propeller:	Sensenich 70 cm 759-0-79
Height:	7 ft. – 10 in.
Length:	20 ft. – 5 in.
Wing Span:	28 ft. – 0 in.
Wing Loading:	14.1 psf
Empty Weight:	1145 lbs.
Maximum Gross Weight:	1750 lbs.
Fuel Grade:	100 LL
Fuel Capacity:	Left Tank: 18 US Gal. Right Tank: 18 US Gal.
Unusable Fuel:	Left Tank .5 US Gal. Right Tank: .5 US Gal.
Oil Capacity:	7 US Qts.
Baggage Allowance:	100 lbs.

Performance Specifications:

Pitot Static and Indicated Airspeed Test (See Test Report – August 2007)

KIAS	Error	KCAS
60	+5	65
70	+4	74
80	+3	83
90	+1	91
100	-2	98
110	-5	105
120	-8	112
130	-9	121
140	-11	129

Best Rate of Climb (Vy), Best Angle of Climb (Vx) (See Test Report, September, 2007)

Best Rate of Climb (Vy), Flaps up	68 KIAS
Best Angle of Climb (Vx), Flaps up	82 KIAS

Best Glide Speed: (See Test Report – October, Revised, November, 2007)

Best Glide Speed, Flaps up	80.5 KIAS
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Stalls

Power-off, Flaps up	44 MPH (38 KIAS)
Power-off, Take-off Flaps	40 MPH (35 KIAS)
Power-off, Full Flaps	37 MPH (32 KIAS)
Power-on, MTOW, Flaps up	38 MPH (33 KIAS)
Power-on, MTOW, Take-off Flaps	25 KIAS (estimated)
Power-on, MTOW, Full Flaps	unreadable

In next month's column, we'll expand this POH to include Checklists and Emergency Procedures.

Jack Dueck, EAA HAC, TC, FA.