



Aircraft Checkout Written Test: Van's RV-12

CHI Aerospace (May 2021)

Pilot Name: _____ Date: _____

Instructor: _____

I - Airspeeds (KIAS)

VS0 @1320# _____ VS1 @1320# _____ VR _____ VX _____ VY _____

VA @1320# _____ VA @850# _____ VFE _____

VNO _____ VNE _____

Short Field VR: _____ Max Allowable Short Field T/O Flap setting: _____

Cruise Climb Speed: _____

Approach Speed (Flaps Full) : _____ Short Field Approach Speed (Flaps Full) : _____

Max cross wind component : _____ Max headwind component : _____

What is the stall speed flaps down at max gross weight?

What is the stall speed flaps up at max gross weight?

Does stall speed increase or decrease with an addition of weight?

II - Fuel and Oil

Total Fuel: _____ Gallons _____ lbs

Total Usable Fuel: _____ Gallons _____ lbs

Total Unusable Fuel: _____ Gallons _____ lbs

What is the total fuel capacity?

How much fuel is unusable in a Vx climb?

How much fuel is unusable in a normal climb?



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How much fuel is unusable in shallow pitch/level flight?

What are the approved fuel grades for the aircraft?

How many fuel sumps are there on the aircraft?

What is the max fuel burn in GPH?

What are the minimum reserve fuel requirements for day and night?

VFR: _____ IFR: _____

How would you monitor your fuel burn? _____

The engine has an oil capacity of _____ quarts total, _____ quarts in sump, and _____ quarts are considered minimum for normal flight. Fill to _____ quarts for extended flights.

Minimum oil pressure _____ psi; Normal: _____ psi; Maximum oil pressure is _____ psi.

What type of oil does this aircraft use? _____

III - Weight and Balance

Basic Empty Weight: _____ lbs

Useful Load: _____ lbs

Maximum Ramp Weight: _____ lbs

Maximum Take-Off Weight (MTOW): _____ lbs

Maximum Baggage Weight: _____ lbs

Weight of Oil: _____ lbs per quart

Max Forward CG at MTOW: _____ inches

Max Aft CG at MTOW: _____ inches

+/- Load Limits : _____

Weight limit per front seat _____



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IV - Aircraft Systems and Operations

What type of propeller does this aircraft have? Number of blades? Type?

What is the cold start procedure for this aircraft?

What is the warm start procedure for this aircraft?

What is the flooded start procedure?

How is fuel supplied to the engine?

Does the airplane have an electric fuel pump? If yes, how many?

Is the aircraft carbureted or fuel injected?

After performing your cruise checklist and leaning the aircraft, approximately what should your Fuel Burn be?

Pressure Altitude: 6,000ft

Temp: Standard

RPM: 4500

Fuel Burn: _____gph

Describe the engine. Make, model, cylinders, carburetors, horsepower, etc...



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What is the engine horsepower and at what RPM? _____

Electrical system _____ volt; Alternator current is _____ amps; Battery voltage is _____ volts.

How many batteries does this aircraft have? _____

Where is the Main Battery located?

What is the service ceiling for this aircraft?

Where is the static port located? Is there more than one? If so, how many and where are they?

Where is the alternate static source located?

What type of landing gear system is on the aircraft?

What type of flaps does the aircraft have?

Flap range approved for takeoff:

Flap setting for short-field takeoff:



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V - Emergency Procedures

What is the correct spin recovery procedure for the aircraft?

What is the correct stall recovery procedure for the aircraft?

May you turn the master switch off prior to shutting off ignition switches?

What is the proper procedure for remedying engine roughness and/or power loss in flight?

What is the emergency procedure for engine loss during cruise flight?

What are the corrective actions taken when there is an excessive rate of charge on the ammeter?

What are the corrective actions taken when there is an excessive rate of discharge on the ammeter?

What is the indication of a generator failure?

What action should the pilot take in the event of an engine fire during engine start?

What action should the pilot take in the event of an engine fire during flight?

What action should the pilot take in the event of abnormal oil pressure/temperature?



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What action should the pilot take in the event of encountering severe turbulence?

What is the procedure for a runaway trim?

What is the procedure for a balked landing (go-around)?

What is the procedure for rebooting the EFIS? (Dynon and Garmin)

VI - Performance & Weight and Balance Computations

Weight and Balance Computation:

| Item | Arm (in limits 80.49-85.39) | Weight Lbs | Moment (IN-LB) |
|------------------------------|--------------------------------|---------------|-------------------|
| EMPTY WEIGHT | | | |
| PILOT | 78.85 | | |
| PASSENGER | 78.85 | | |
| BAGGAGE | 110.81 | | |
| FUEL | 110.28 | | |
| TAKEOFF WEIGHT AND MOMENT | | | |

Where is the center of gravity? _____ Does it fall within the CG envelope? _____



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Using the following conditions, compute the takeoff and landing distance over a 50 ft obstacle:

Today's temperature: _____ °C

Surface wind: _____ degrees at _____ knots

Altimeter setting: _____ in Hg

Pressure altitude: _____ feet

Takeoff distance over a 50' obstacle: _____ feet

Landing Distance over a 50' obstacle: _____ feet

Per CHI policy, what are the runway minimums for this aircraft?

Length: _____

Surface: _____

TEST CORRECTED TO 100%

Instructor Signature: _____

Pilot Signature: _____

Date: _____