Ahart Aviation

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Ahart Aviation Aircraft Checkout Test

Prepared for: Ahart Aviation Services
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Date: _____

Aircraft Model: _____/Aircraft N-Number: _____

Student/Customer Name: _____

(Please Print)

General

1. What type of engine is in this aircraft and how much horsepower does it have?

   _____

2. What type of fuel system does the engine utilize (Fuel Injection, Carburetor, etc.)?

   _____

3. What fuel grade does the aircraft utilize?

   _____

4. Is there an auxiliary fuel boost pump? _____ If so, when is it used?

   _____

5. Explain fuel management procedures?

   _____

6. What is the useable fuel capacity?

   _____

7. How many fuel drains are there and where are they?

   _____

8. What are the indications of carburetor/induction system icing?

   _____

9. How do you prevent or correct carburetor/induction system icing?

   _____

10. What are the min. & max. oil quantities

    _____

11. What is the normal starting procedure?

_____

12. What is the cold start procedure?

_____

13. What is the hot start procedure?

_____

14. What is the full procedure for engine failure in cruise?

_____

_____

_____

_____

_____

15. Is there an alternate static source? _____ If so, where? _____

16. What are the indications of a failed alternator?

_____

17. What is the procedure for alternator failure?

_____

_____

18. What items are lost if the entire electrical system (including the battery) fails?

_____

_____

19. How do you activate the ELT?

_____

20. Describe the go-around procedure:

_____

_____

_____

Variable Pitch Propeller (if applicable)

1. What happens to the propeller blades if oil pressure is lost?

_____

_____

2. How do you test the propeller before flight?

_____

3. What is the governor used for?

_____

_____

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4. During the propeller/governor check, what will you see on the RPM, Oil Pressure and Manifold Pressure Gauges?

_____

_____

Retractable Gear (if applicable)

1. What is Vlo? _____
2. What is Vle? _____
3. What is Maximum Speed for emergency Gear Extension? _____
4. When does the gear warning horn and/or light activate?

_____

5. What is the procedure for emergency gear extension?

_____

6. If the landing gear does not activate before landing, what procedures should you use for landing the aircraft?

_____

_____

_____

Weight and Balance

1. What is the maximum ramp, takeoff and landing weight of the aircraft?
   Ramp: _____ Takeoff: _____ Landing: _____
2. With full fuel, how many 170 pound people can be carried (including the pilot)?

_____

Performance

For questions 1 and 2 , assume you are operating at Truckee Tahoe Airport (TRK)

- Elevation: 5900 feet
- Runway length: 4650 feet
- Altimeter setting: 29.82
- Wind: Calm
- Temperature: 86 deg. F (30 deg. C)
- Aircraft weight: Maximum takeoff weight

1. What is the density altitude at TRK? _____ Is this safe in this airplane? _____
2. What is the takeoff distance (50 ft obstacle) at TRK? _____ Is this safe? _____
3. What is the rate of climb at TRK pattern altitude (1000 AGL)? _____ Is this safe? _____
4. What is the takeoff power setting? _____ Climb power setting? _____

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Performance (continued)

For questions 4-7 below, assume the following conditions

- Climb altitude: 3000 feet
- Power: 65%
- Standard atmosphere
- Mixture: Best power
- Fuel load: Full tanks
- Fuel reserves: Ahart reserves (1 hour)

What is the cruise power setting? _____

What are the fuel flow and true airspeed (TAS)? _____

What is the range? _____

What is the endurance? _____

What is the rotation speed? _____

What is Vx? _____

What is Vy? _____

What is the cruise climb speed? _____

What is the best glide speed? _____

What is Va? _____

What is the final approach speed with full flaps applied? _____

What is the final approach speed with zero flaps applied? _____

What is the maximum demonstrated crosswind component? _____

CFI Name: _____

(Please Print)

CFI Signature: _____