

## **ABC Airsports**

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### **Aircraft Check Out Form**

Use the POH (Pilot operating handbook) or AFM (Aircraft flight manual) of the aircraft to be flown.

Use the current weight and balance information for the aircraft to be flown.

Name \_\_\_\_\_ Date \_\_\_\_\_

Make and Model of Aircraft? \_\_\_\_\_

1. What is the type of power plant? \_\_\_\_\_  
How many cylinders? \_\_\_\_\_  
Carbureted or fuel injected? \_\_\_\_\_
2. What is the maximum horsepower for takeoff? \_\_\_\_\_  
What is the time limit operating at maximum horsepower, if any? \_\_\_\_\_  
What is the maximum continuous horsepower? \_\_\_\_\_  
What is the maximum recommended cruise power setting? \_\_\_\_\_  
What is the oil capacity? \_\_\_\_\_  
What is the normal oil operating level? \_\_\_\_\_  
What is the minimum oil operating level? \_\_\_\_\_  
What type of oil is used in this airplane? \_\_\_\_\_
3. Is this plane equipped with a vacuum pump? \_\_\_\_\_  
Is there a backup vacuum system? \_\_\_\_\_
4. How many batteries? \_\_\_\_\_  
How many amps can the alternator output? \_\_\_\_\_  
What is the voltage of system? \_\_\_\_\_  
Is there an over voltage relay? \_\_\_\_\_  
What does it do? \_\_\_\_\_  
How do you reset it? \_\_\_\_\_  
Is there a plug for external power? \_\_\_\_\_  
If there is a plug, where is it located? \_\_\_\_\_  
Should the alternator be on or off when using external power? \_\_\_\_\_

5. Total fuel capacity? \_\_\_\_\_  
Fuel grade? \_\_\_\_\_  
Usable fuel capacity? \_\_\_\_\_  
Number of fuel tanks? \_\_\_\_\_  
How many positions to fuel selector? \_\_\_\_\_  
How many fuel drains? \_\_\_\_\_  
Where are they located? \_\_\_\_\_  
Lowest point of fuel system? \_\_\_\_\_  
What method is used to determine the quantity of fuel? \_\_\_\_\_
- Is there an aux fuel pump? \_\_\_\_\_  
How many settings to it? \_\_\_\_\_  
When is it used, on what setting? \_\_\_\_\_
6. Describe cold starting procedure? \_\_\_\_\_  
Describe hot starting procedure? \_\_\_\_\_  
At what RPM do you check the magnetos? \_\_\_\_\_  
Max drop? \_\_\_\_\_  
Max differential drop between magnetos? \_\_\_\_\_  
Max takeoff power setting? \_\_\_\_\_  
Is a cruise climb power setting published? \_\_\_\_\_  
How would you set 75% cruise power setting? \_\_\_\_\_  
What procedure is used to protect from shock cooling the engine? \_\_\_\_\_  
Describe the leaning procedure: \_\_\_\_\_  
How do you detect carburetor or induction icing? \_\_\_\_\_  
What do you do? \_\_\_\_\_
7. V<sub>so</sub> \_\_\_\_\_  
V<sub>s</sub> \_\_\_\_\_  
V<sub>x</sub> \_\_\_\_\_  
V<sub>y</sub> \_\_\_\_\_  
V<sub>a</sub> \_\_\_\_\_ at what weight? \_\_\_\_\_  
V<sub>fe</sub> \_\_\_\_\_  
V<sub>no</sub> \_\_\_\_\_  
V<sub>ne</sub> \_\_\_\_\_  
Cruise climb? \_\_\_\_\_  
Normal landing approach speed, full flaps? \_\_\_\_\_  
Normal landing approach speed, no flaps? \_\_\_\_\_  
Short field landing approach speed? \_\_\_\_\_  
Soft field landing approach speed? \_\_\_\_\_  
Flap setting for short field take off? \_\_\_\_\_  
Flap setting for soft field take off? \_\_\_\_\_  
Flap setting for short field landing? \_\_\_\_\_  
Flap setting for soft field landing? \_\_\_\_\_
- Go around procedure: \_\_\_\_\_

Complete the following computations

Take off distance:

Gross weight, 6000 feet elevation, standard day

Ground roll distance? \_\_\_\_\_

Over 50 feet obstacle distance? \_\_\_\_\_

75% power, 7500 feet, standard day:

Power setting? \_\_\_\_\_

Fuel consumption? \_\_\_\_\_

TAS? \_\_\_\_\_

Landing distance:

Gross weight, 6000 feet elevation, standard day

Ground roll distance? \_\_\_\_\_

Over 50 feet obstacle distance? \_\_\_\_\_

8. **Weight and balance**

Use information from actual airplane to be flown

What is the useful load with full fuel? \_\_\_\_\_

Compute the two following examples:

**For 2 seats aircraft:**

Your weight, a 170lbs passenger, 10lbs luggage, full fuel (Is it possible? If not, what can you do?)

**For 3 seats aircraft:**

Your weight, 3 x 170lbs passenger, full fuel (Is it possible? If not, what can you do?)

9. **Describe engine out emergency procedure during cruise:**

10. **Retractable landing gear airplane**

What is the maximum speed for gear retraction? \_\_\_\_\_

What is the maximum speed for gear extension? \_\_\_\_\_

What is the maximum speed for flying with the gear extended? \_\_\_\_\_

How is the gear operated (Electric, hydraulic, mechanical...)? \_\_\_\_\_

Describe the emergency gear extension procedure \_\_\_\_\_