

North Star Flyers

Aircraft Checkout Form

Are you legal to fly?

Name _____ Date _____

Ratings _____

Medical: Type _____ Expiration Date _____

Date of last Flight Review _____ Date next one due _____

Flight time in category and class in the last 90 days _____

Number of takeoffs and landings in category and class last 90 days _____

Number of night takeoffs and landings in category and class last 90 days _____

Do you meet the FAR requirements to be PIC of this aircraft and carry passengers?

Day Yes ___ No ___ Night Yes ___ No ___

IFR hours (actual/simulated) flown in the last 6 months _____

Number of IFR approaches flown in the last 6 months _____

Date of last IPC _____

Are you IFR current to be PIC: Yes ___ No ___

If applicable, do you have the required CFI endorsement to fly this aircraft? _____

Aircraft Checkout Quiz

1982 Beechcraft C23 Sundowner, N839KT

Aircraft Operating Speeds

- What is the normal rotation speed (V_r)? _____
What is the normal climb-out speed? _____
What is the best rate of climb speed (V_y)? _____
What is the best angle of climb speed (V_x)? _____
What is the normal cruise speed? _____
What is maximum flap extended speed (V_{fe})? _____
What is the approach-to-landing speed? _____
What is the stalling speed in the landing configuration (V_{so})? _____
What is the clean stall speed? _____
What is the stall speed in a 60-degree bank with full flaps? _____
What is the stall speed in a 60-degree bank with 0 flaps? _____
What is the design maneuvering speed (V_a)? _____
What is the never-exceed speed (V_{ne})? _____
What is the normal operating speed range? _____
What is the maximum structural cruising speed (V_{no})? _____
What engine-off glide speed will give you the maximum glide range? _____
What is the maximum demonstrated crosswind component for this aircraft? _____
Is this an operating limitation? Yes _____ No _____
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General Aircraft Information

- Does the aircraft have a current and original airworthiness certificate? _____
Does the aircraft have a current registration certificate? _____
If required, does the aircraft have a current radio station license? _____
Does the aircraft have a current weight and balance data sheet? _____
Have all the airworthiness directives been complied with? _____
What is the type, make and model of the engine? _____
Is the propeller fixed pitch or variable? _____
What is the power output of the engine? _____
Type of fuel control – carburetor, fuel injection or other _____
If carburetor, when do you use carburetor heat? _____
Describe how the heater functions _____
Is there an alternate air source? _____ When is it used? _____
Describe the electrical system _____
Do you know the location of the critical fuses or circuit breakers for the landing gear, flaps, landing lights and generator/alternator? _____
What is the proper tire pressure for the nose gear? _____
What is the proper tire pressure for the main gear? _____
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Fuel and Oil

Describe the fuel system _____

What type of fuel is used? _____ What is its color? _____

What are the number, location and capacity of the fuel tanks? _____

What is the total number of gallons of usable fuel? _____

How many fuel sumps are there and where are they located? _____

Number _____ Locations(s) _____

How do you drain the fuel sumps? _____

Describe the oil system _____

What is the type and weight of the oil used? _____

What is the minimum and maximum oil requirement for the engine?

Minimum _____ Maximum _____

Does the aircraft have an inverted fuel/oil system? Yes _____ No _____

Aircraft Weights

What is the aircraft's gross weight? _____

What is the aircraft's empty weight? _____

What is the aircraft's zero fuel weight? _____

What is the aircraft's useful load? _____

What is the aircraft's gross takeoff weight? _____

What is the aircraft's gross landing weight? _____

What is the maximum weight the aircraft can carry in its baggage compartment? _____

Performance Planning

How much useful load can the aircraft carry with full fuel? _____

How many pounds of baggage can this aircraft carry with full fuel and each seat occupied by a 190-pound passenger? _____

Solve the following weight and balance problem for a maximum range flight with yourself and a 200-pound passenger in each remaining seat.

What is the gross weight? _____

What is the center of gravity? _____

Is the flight within the weight and balance envelope? _____

How much fuel can you carry with no baggage? _____

How long can you fly? _____

Use the following data to answer the following questions:

OAT 90 degrees; PA 4000 feet; gross weight; winds 090 at knots; grass runway

What is the takeoff distance to clear a 50 foot obstacle? _____

What is the landing distance to clear a 50 foot obstacle? _____

Would high humidity increase or decrease this distance? _____

Why? _____

With full fuel and allowing for a 45 minute fuel reserve, what is the maximum fuel endurance in hours at 65% power at 5,000 feet PA, standard conditions, lean mixture, zero wind, 2,500 RPM and gross weight? _____

What is the TAS at 5,000 feet PA and 65% power? _____

What RPM yields 75% power at 8,000 feet PA with standard conditions? _____

What is the fuel flow per hour at 75% at 10,000 feet PA with standard conditions? _____

CFI _____ Date _____

Certificate Number _____ Expiration Date _____