

AACIT Aircraft Checkout Form

Name: _____ Aircraft Model: _____

Date: _____ N-number: _____

Use the aircraft manual for the aircraft in which you are being checked out to answer the following questions:

FUEL and OIL

What is the total fuel capacity? _____ Usable fuel capacity? _____

How much fuel is on board the aircraft when both tanks are filled to the "tabs" or other filler neck markings (if applicable)? Total: _____ Usable: _____

What is the minimum fuel octane acceptable for fueling this aircraft? _____

What color is this fuel? _____

If this fuel is not available, what grade of fuel may be used safely instead? _____

What is its color? _____

What is the maximum oil capacity? _____

What is the minimum recommended quantity of oil with which this aircraft should be flown? _____

WEIGHT and BALANCE

What is the maximum gross takeoff weight of the aircraft: _____

Basic Empty Weight: _____

Useful Load: _____

Work out a weight and balance for this aircraft assuming all seats are filled with 170lb passengers, 60lbs. of baggage, and max. fuel. If you find that the aircraft is over max. allowable gross weight, reduce baggage and/or fuel until it is below maximum allowable gross.

| Item | Weight | Arm | Moment |
|------------------------------------|--------|-------|--------|
| Basic Empty Weight: | _____ | _____ | _____ |
| Front Seats: | _____ | _____ | _____ |
| Rear Seats: | _____ | _____ | _____ |
| Baggage: | _____ | _____ | _____ |
| Fuel: | _____ | _____ | _____ |
| Oil (if not in BEW): | _____ | _____ | _____ |
| Other: | _____ | _____ | _____ |
| Other: | _____ | _____ | _____ |
| ===== | | | |
| TOTALS: | _____ | _____ | _____ |
| Center of Gravity (Moment/Weight): | _____ | | _____ |
| Within Limits? | _____ | _____ | _____ |

PERFORMANCE

N-Number: _____

List the following airspeeds for this aircraft at maximum gross weight.

| | | |
|-----------|-----------|----------------------------|
| Vs0:_____ | Vfe:_____ | Retractable gear aircraft: |
| Vs1:_____ | Va:_____ | Vlo _____ |
| Vx:_____ | Vno:_____ | Vle _____ |
| Vy:_____ | Vne:_____ | |

Best Glide Speed: _____

Max. Demonstrated Crosswind Component: _____

Short field takeoff at maximum gross weight:

Flaps:_____ Speed at rotation:_____ Speed at 50 ft.: _____

What flap setting is used for a short field takeoff? __
for a soft field takeoff? _____

Recommended approach speeds at max. gross wt.:

Normal:_____ Short field: _____

Takeoff Distances at max gross weight:

At sea level / 59 deg. F: Ground Run: _____ over 50 ft.: _____

At 7000 feet, 70 degs. F: Ground Run: _____ over 50 ft.: _____

Climb rate (FPM) at max gross wt., 7000 ft, 70F: _____

Throttle setting for 70% power (RPM and MP if applicable):

At 2500 ft. _____ At 10,000 feet: _____

What is the fuel consumption (GPH) of this aircraft at 70% power?__

What is its endurance at 70% power with one hour reserve? ____

What is the cruise TAS at 7000 ft/ 70 deg F/ 70% power?

Landing Distances:

At sea level, 59 deg. F: Ground Run: _____ Over 50 ft. _____

At 7000 feet, 70 deg. F: Ground Run: _____ Over 50 ft. _____

How much runway does it take to accelerate to rotation speed and then stop the aircraft? (Hint: takeoff ground run + landing ground run.)

At sea level, 59 deg. F: _____

At 7000 ft, 70 deg. F: _____

On a 2500' long runway at sea level, how far down would your go-around point be (i.e. the point where you should go around if you are not yet on the ground) ?

Explain your rationale for putting it there.

SYSTEMS

N-Number: _____

How many positions (detents) does the fuel selector have? _____

What are they? _____

When should you switch tanks in this aircraft? _____

Is this aircraft equipped with an auxiliary fuel pump? _____

If so, when should it be turned on? _____

Is there an avionics power switch in this aircraft? _____

If this aircraft has cowl flaps, when should they be used? _____

How should the mixture be leaned with this aircraft? (description should include EGT use, if so equipped) _____

What is the rated horsepower of the aircraft's engine? _____

What voltage is the aircraft's electrical system? _____

Does the aircraft have an alternator or generator? _____

If the battery is weak and aircraft is unable to start, can it be "jumped"? _____

If so, how? _____

How could you tell if an alternator failure occurred in this aircraft?

What would you do if an alternator failure occurred?

What are the indications of carburetor/induction ice in this aircraft?

What would you do in the event an engine failure in flight occurred in this aircraft?

What avionics/auxiliary equipment are installed in this aircraft?

(Demonstrate their operation to your instructor)

In an aircraft with a constant-speed propeller, when adding power, should you move the throttle or the propeller control first? _____

How can a constant-speed propeller be used to extend the glide if the engine quits?

The following questions apply only to aircraft with retractable gear:

How is the gear operated? (electrically, hydraulically, etc.) _____

If hydraulic, where is the fluid reservoir? _____

What does the "squat switch" do? _____

To which wheel is the "squat switch" attached? _____

If equipped with less than three "gear down" lights, how would you assure that each wheel is down and locked before landing? _____

Explain the emergency operation for extending the landing gear:

The individual named above has completed an AACIT checkout in the aircraft type shown above and is competent to act as PIC in this aircraft.

CFI approval: _____ Date: _____

Instructor's initials (____) to issue key to a PRE-SOLO student pilot for PREFLIGHT ONLY. This limitation will be removed upon notice that the student has completed FAR requirements for solo flight.