



Aircraft Check-Out Form

Aircraft Type & Model: _____ Date: ____/____/____

Pilot's Name: _____

Certificate Type: _____ Certificate No: _____

Ratings: _____ Class Medical: _____

Last Flight Review: ____/____/____

This Check-out sheet must be completed and approved by a Journey's Aviation full time flight instructor prior to acting as a Pilot-in-Command of this aircraft type.

A. GENERAL

1. What aircraft documents must be on board? _____

2. How many fuel tanks on this aircraft? _____ 3. Total Fuel Capacity? _____

Total usable? _____ gallons. Total usable at the tabs (if applicable)? _____

4. How many fuel drains are there? _____. Where are they? _____

5. What is the recommended fuel grade? _____. Color? _____

6. What position should the fuel selector be in for takeoff? _____

For landing? _____

7. How many fuel pumps are there? _____. When should the electric fuel pump be used? _____

8. What is the maximum & minimum oil quantity? _____ quarts.

9. What is the oil type and viscosity? _____

10. What is the voltage of the electrical system? _____ Volts.
11. Does the aircraft use a primer for cold starts? YES: _____ NO: _____
12. Does the aircraft use a primer for hot starts? YES: _____ NO: _____
13. Which do the engine(s) use? CARBURATOR HEAT _____ or ALTERNATE AIR _____
14. When should carburetor heat or alternate air be used? _____

15. How many degrees of flaps should be used?:

SHORT FIELD TAKE OFF: _____ SOFT FIELD TAKEOFF: _____

B. PERFORMANCE: *Available in the POH in the aircraft but you should download one.*

1. Airspeeds (KIAS):

V_{so} : _____ V_a : _____ V_{mca} : _____

V_s : _____ V_{no} : _____ V_{xse} : _____

V_y : _____ V_{ne} : _____ V_{yse} : _____

V_x : _____ Cruise Climb: _____ V_{sse} : _____

V_r : _____ Best Glide: _____ S.E. Approach: _____

V_{fe} : _____ Approach with flaps: _____

V_{lo} : _____ Approach no flaps: _____

V_{le} : _____

2. What are the recommended power settings for:

a) Takeoff: MP: _____ RPM: _____ (only RPM for fixed pitch)

b) Climb: MP: _____ RPM: _____ (only RPM for fixed pitch)

c) Cruise at 7,000 feet pressure altitude, 75% power, temperature 0°C

MP: _____ RPM: _____ GPH: _____ KTAS: _____ BHP: _____ %

RANGE: _____ (NM) ENDURANCE: _____

3. Conditions:
- 6,000 feet pressure altitude
 - 85 ° F
 - Maximum gross weight
 - 10 knots headwind component
 - Maximum takeoff flap setting

Find:

Takeoff ground roll: _____ Takeoff distance (50 ft obstacle): _____

Landing ground roll: _____ Landing distance (50 ft obstacle): _____

C. WEIGHT & BALANCE

1. Maximum ramp weight: _____ lbs.
2. Maximum takeoff weight: _____ lbs.
3. Aircraft empty weight: _____ lbs. (see website)
4. C.G. limits (inches): FWD: _____ AFT: _____
5. Baggage compartment weight limits:
 Fwd: _____ lbs. Aft: _____ lbs.
6. Aircraft useful load: _____ lbs.
7. Conditions:
 - Front seats: Pilot and passenger @ 160 lbs. each
 - Back seats: Two passengers @ 160 lbs. each
 - Fuel: Full tanks @ 6 lbs/gallon
 - No baggage

| ITEM | Weight lbs | Arm inches | Moment |
|--------------------|------------|------------|--------|
| Operating Empty Wt | | | |
| Front Seat, Left | | | |
| Front Seat, Right | | | |
| Rear Seat Pax | | | |
| Baggage Area #1 | | | |
| Baggage Area #2 | | | |
| Fuel | | | |

Find: Ramp weight: _____ lbs. CG position on takeoff: _____ inches

D. POWERPLANT(S)

1. Make and model: _____
 - a) Check one: Fixed pitch: _____ Constant speed: _____
 - b) Check one: Fuel injected: _____ Carbureted: _____
 - c) Check one: Turbo charged: _____ Normally aspirated: _____
 - d) When operating an airplane with a constant speed propeller, to reduce power, first reduce: _____.

2. Horsepower: _____ HP.
 - a) What is the maximum allowable MP: _____ inches.
 - b) Can it be used continuously? YES: _____ NO: _____
 - c) If not, for how long? _____
 - d) Can it be exceeded? YES: _____ NO: _____

3. If the airplane is equipped with an EGT, what is the procedure for leaning to best power? _____

4. If an engine failure occurs at altitude, what steps should be taken to restore power?
 - a) _____
 - b) _____
 - c) _____
 - d) _____
 - e) _____
 - f) _____
 - g) _____
 - h) _____

E. SYSTEMS

- 1. Are the flaps manual or electric? _____
- 2. Are they used for normal takeoff? YES: _____ NO: _____

Questions 3 - 6 refer to aircraft with a retractable landing gear

3. How is the landing gear system actuated? _____

4. Will the landing gear extent without electrical power? YES: _____ NO: _____
With total loss of hydraulic fluid? YES: _____ NO: _____

5. Does the aircraft have an automatic landing gear extension system?
YES: _____ NO: _____
If so, how does it work? _____

Can it be over-ridden? YES: _____ NO: _____

6. What steps should be taken if the landing gear fails to extend normally?
- a) _____
 - b) _____
 - c) _____
 - d) _____
 - e) _____
 - f) _____
 - g) _____
 - h) _____

F. MULTIENGINE

1. Define V_{mca} : _____

2. Define accelerate-stop distance: _____

3. Determine the accelerate-stop distance for this aircraft at maximum takeoff weight, sea level, 70°F, no wind: _____ feet
4. What are steps for determining a failed engine at altitude?
 - a) _____ e) _____
 - b) _____ f) _____
 - c) _____ g) _____
 - d) _____ h) _____
5. What are the steps for securing an inoperative engine?
 - a) _____ e) _____
 - b) _____ f) _____
 - c) _____ g) _____
 - d) _____ h) _____

I have read and understand the pilot's operating handbook and will operate the aircraft within its limitations. I completed the foregoing questionnaire based on my own knowledge including that obtained from aircraft publications, which were available to me.

Pilot's signature

Date:

I have personally reviewed and corrected this questionnaire, and find the above named pilot's knowledge adequate to safely operate this aircraft.

Instructor's signature

Certificate Number

Expires



Pilot and Aircraft Checkout Procedures

Name: _____ Date: _____

Cert. #: _____ Grade Certificate: _____ Ratings: _____

Class Medical: ___ Date of Medical: _____ Total Flight Time: _____ In Type: _____

Aircraft to be used: Make & Model: _____ N# _____

A Procedures and Maneuvers

| <u>Maneuver or task:</u> | <u>Enter Date Performed:</u> |
|--|------------------------------|
| 1. Review Boulder Municipal Airport Checkout Form | _____ |
| 2. Removing aircraft from hangar | _____ |
| 3. Airport familiarization | _____ |
| 4. Aircraft Questionnaire (for each aircraft type) | _____ |
| 5. Preflight inspection and proper handling of equipment | _____ |
| 6. Usage of a pre-heater unit during cold weather operations | _____ |
| 7. Usage of Aircraft Checklist | _____ |
| 8. Proper ground procedures (taxiing, run-up and before takeoff) | _____ |
| 9. Practice Area familiarization | _____ |
| 10. Normal/Crosswind takeoffs and landings | _____ |
| 11. Soft and short field takeoffs and landings | _____ |
| 12. Steep Turns | _____ |
| 13. Stall recoveries (power-on and power-off) | _____ |
| 14. Slow flight and flying at minimum controllable airspeed | _____ |
| 15. Emergency during takeoff roll | _____ |
| 16. Emergency after liftoff | _____ |
| 17. In-flight emergencies | _____ |
| 18. Loss of electrical equipment during flight | _____ |
| 19. Loss of two-way radio communications | _____ |
| 20. After landing procedures | _____ |
| 21. Parking | _____ |
| 22. Aircraft Tie-Down/Returning into hangar | _____ |

B Completion of Aircraft Checkout:

Optional Remarks: _____

Signature of CFI _____ Cert.#: _____ Date: _____

I have received an aircraft checkout consisting of the procedures and maneuvers as noted above.

Pilot Signature: _____ Date: _____

Boulder Municipal Airport Noise Abatement Procedures

1. All traffic pattern entries should be conducted in conformity with the City of Boulder Airport Noise Abatement procedures.
2. All aircraft should be flown at or above 7,500 feet mean sea level (MSL) over noise-sensitive areas (outside of the traffic pattern) and at reduced power settings. Avoid these areas when possible.
3. All downwind legs should be over Jay Road, and base legs should be east of 30th Street for landings on Runway 8.
4. Operate aircraft at the most reduced power settings (that are safely possible) in the airport traffic pattern or while entering the pattern. This reduces the number of extended final approaches.
5. Climb to at least 500 feet above ground level (AGL) after takeoff before turning crosswind. All Runway 8 departures should be straight out to the east. Avoid the Gunbarrel area on departure.
6. Use Runway 8 for most operations (except night landings) and when the wind is less than five knots from the west and expected to remain at less than five knots.
7. Avoid making touch-and-go landings at the Boulder Municipal Airport before 8 a.m. and after 5 p.m.
8. Avoid flight operations between 11 p.m. and 7 a.m. For early morning departures (before 7 a.m.), please depart straight out to the east and reduce power settings, consistent with safe operating procedures.
9. Straight-in approaches to Runway 26 are recommended for night landings (wind and weather permitting).
10. Do not fly over the raptor nesting areas of the Flatirons (mountains southwest of town) from Feb. 1 through July 31. This is a protected area for peregrine falcons.

Use good discretion and always maintain safe operating procedures!

