

AIRCRAFT CHECK-OUT FORM

ROCKY MOUNTAIN FLIGHT SCHOOL

Aircraft Make & Model _____

Pilot Name _____

Certificate Type & Ratings _____

This Check-out form MUST be completed prior to acting as PIC.

1. GENERAL INFORMATION

What Documents Must be on board this aircraft? _____

How many fuel tanks on this Aircraft? _____

What is the Total Capacity? _____

Total Usable? _____

Total usable at the tabs? _____

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

Where should the fuel selector be set for takeoff and landing? _____

How many fuel pumps are there in this aircraft? _____

When should the electric fuel pump be used? _____

What is the maximum and minimum oil quantity? _____

What is the recommended oil type? _____

What is the electrical system voltage? _____

Pilots' Initials ___

Instructors' Initials ___

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1. GENERAL INFORMATION CONTINUED

Does the A/C use a primer for a cold start? _____ Hot start? _____

Does the A/C have carb heat or alternate air? _____

When should it be used? _____

Does this A/C use flaps for:

Normal takeoff? _____ Degrees _____

Short field takeoff? _____ Degrees _____

Soft field Takeoff? _____ Degrees _____

2. PERFORMANCE

What are the following airspeeds (KIAS) for this aircraft?

(Some V-speeds may not apply to this aircraft)

V_{so} _____ V_a _____ V_{mc} _____

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

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

V_x _____ V_{sse} _____

V_r _____ Cruise climb _____ SE approach _____

V_{fe} _____ Approach with flaps _____

V_{lo} _____ Approach no flaps _____

V_{le} _____ Best glide _____

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2. PERFORMANCE CONTINUED

What are the following power settings for this aircraft?
(RPM only for fixed pitch)

Takeoff RPM _____ MP _____

Climb RPM _____ MP _____

Conditions: Cruise @ 7000 Ft. Pressure Altitude, 75 % Power, 0 Degrees C, Maximum Usable Fuel.

For the conditions listed above, fill in the following values:

RPM _____ MP _____ GPH _____ KTAS _____

BHP % _____ Range (NM) _____ Endurance _____

Conditions: 5500 ft pressure alt, 20 degrees C., Max takeoff weight, 5 kts headwind, Maximum takeoff flap setting.

For the conditions listed above, what is the:

Takeoff distance over a 50' obstacle _____

Landing distance over a 50' obstacle _____

3. WEIGHT AND BALANCE

For this aircraft what is the:

Max ramp weight _____ Empty weight _____ Max takeoff weight _____

C.G. Limits: FWD _____ AFT _____

Baggage compartment weight limits _____ Useful load _____

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3. WEIGHT AND BALANCE CONTINUED

Conditions: Front seats- pilot and passenger @ 170 lbs. each

**Rear seats- one passenger @ 150 lbs.*

**Baggage- 25 lbs.*

¾ of full fuel @ 6 lbs. per gallon

*Note: For N3162L & N3793W use the center row of seats & the cabin baggage area.

For the conditions above find the:

Ramp weight _____ C.G. Position _____

Is the aircraft within C.G. and weight limits? _____

3-a. Cherokee 6 Only

(Information can be found in the Cherokee Six Owner's Handbook, Airplane Flight Manual & Weight and Balance Date)

Conditions: Front seats- pilot 195 lbs. co-pilot/passenger 190 lbs.

Center seats empty

Rear seats empty

Cabin baggage compartment empty

Forward baggage compartment 25 lbs.

Main fuel tanks 34 gallons

Tip tanks 14 gallons

For the conditions above find the:

Ramp weight _____ C.G. Position _____

Is the aircraft within C.G. and weight limits? _____

What is the maximum gross weight without fuel? _____ lbs (Zero Fuel Weight)

In what order should the fuel tanks be selected in flight? _____

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4. ENGINE (S)

Make and model _____

Fuel injected or carbureted _____

Horsepower _____ Fixed pitch or constant speed _____

For an aircraft with a constant speed prop, to increase power, first _____

What is the maximum allowable continuous manifold pressure? _____

What is the procedure to lean for best power WITHOUT an EGT? _____

(N/A for Cessna 172XP)

What is the procedure to lean for best power WITH an EGT? _____

(N/A for Cessna 172XP)

If an engine fails while in cruise flight, what steps must be taken to restore power?

4-a. Cessna 172XP Only

What is the engine start procedure for the Cessna 172XP? _____

After engine start, where should the Mixture be set? _____

(Reference the RMFS C-172XP checklist)

During the "Before Takeoff" engine run-up what is the procedure to set the Mixture?

(Reference the RMFS C-172XP checklist)

During takeoff what is the procedure to set the Mixture? _____

(Reference the RMFS C-172XP checklist)

For takeoff at sea level what fuel flow should be set during takeoff? _____

Pilots' Initials ___

Instructors' Initials ___

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4-a. Cessna 172XP Continued

For takeoff at 4,000ft what fuel flow should be set during takeoff? _____

For takeoff at 10,000ft what fuel flow should be set during takeoff? _____

What is the Hot Start procedure? _____

What fuel flow setting should you use for the following conditions?

(Reference Figure 5-7 Cessna R172K POH)

PA: 4,000 ft. Temp: 7°C RPM: 2500 MP: 23 Fuel Flow? _____ gph

PA: 10,000 ft. Temp: -13°F RPM: 2400 MP: 19 Fuel Flow? _____ gph

PA: 7,000 ft. Temp: 10°C RPM: 2400 MP: 21 Fuel Flow? _____ gph

5. SYSTEMS (disregard questions that do not apply)

Are the flaps manual or electric? _____

How does the landing gear system work? _____

Will the landing gear extend with a total loss of hydraulic fluid? _____

With a loss of electrical power? _____

If the landing gear system fails to extend normally, what steps must be taken to extend the landing gear? _____

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6. MULTI ENGINE AIRCRAFT (skip this section for SE aircraft)

Define Vmc. _____

Define Accelerated stop distance. _____

Conditions: 5500 ft pressure alt, 20 degrees F., Max takeoff weight, no wind.

For the conditions above, calculate the Accelerate Stop Distance. _____

Conditions: 5500 ft pressure alt, 0 degrees C., Max takeoff weight.

For the conditions above, calculate the SE climb rate. _____

Define SE service ceiling _____

How can a pilot determine if an engine has failed while in cruise flight? _____

List the steps for securing a failed engine while in cruise flight _____

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Check List Dispatched with Aircraft

Some checklist items have been added and other checklist items have been amplified. The order of some checklist items has also been changed for some operations. If you are using a checklist other than the one that is dispatched with the aircraft please insure that this information has been added to your checklist. No information has been removed from the manufactures POH Checklist. Only additional information has been added.

Pilots' Initials _____

I have read, understand, and agree to comply with the POH or AFM and will operate the aircraft within the limitations established by the manufacture. **I have been instructed in the proper procedure to securer (Tie-Down & Gust Lock) this aircraft and understand than I am responsible for any damage caused by failure to properly secure this aircraft.**

This questionnaire was completed by the undersigned pilot to the best of his/her ability using all information available to me.

Pilots signature

Date

Print pilots name

I have personally reviewed and corrected this form, and find the above named pilot's knowledge adequate to safely operate this aircraft. **I have instructed the above named pilot in the proper procedure used to secure this aircraft.**

Instructors signature

Date

Print instructors name