



# Aircraft Information Form

MR Updated

## Member Information

Member's Name

Date

Aircraft Make/Model

PIC time in Make/Model

Time in Make/Model

This form will familiarize you with the equipment, performance and limitations of the assigned aircraft. To complete this document you will need an original or PDF version of the Pilot's Operating Handbook (or AFM or PIM) that applies to the airplane. Be sure to use the proper version of the POH (year & model) to match the aircraft. Include units where appropriate (e.g. "knots" or "miles").

This is a digital PDF form. You can edit the fields using Acrobat Reader, and save the file. Please complete this form on your computer, and add a digital signature by clicking in the "Member Signature" block below. If you have not yet created a digital signature the software will guide you on how to do this.

Note: This is a generic form used for all Magnum aircraft. If any sections do not apply to your aircraft you may omit them.

Member Signature

Chief Pilot Approval

CFI Signature

**Checkout notes - Key notes for this aircraft type or specific to this N#**

**Performance: Airspeeds (indicate MPH or KTS, compute for maximum gross weight)**

Takeoff Phase	Landing Phase
Rotation Speed (VR): no flaps	Flap Extension (VFE) First Increment
Rotation Speed (VR): with flaps	Flap Extension (VFE) Next Increment
Maximum Gear Retraction Speed	Gear Extension (VLE)
Best Angle of Climb (VX) at Sea Level	Gear Operating (VLO)
Best Rate of Climb (VY) at Sea Level	Approach Speed: Flaps Up
Best Glide Speed at Takeoff	Approach Speed: Flaps Down
Enroute Phase	Approach Speed: Short Field
Maneuvering Speed (VA)	Stall Speed Flaps Up (VS)
Best Glide Speed at Altitude	Stall Speed Flaps Down (VS0)
Maximum Glide Ratio	VS in a 60 degree bank
Maximum Structural Cruise (VNO)	Maximum Demonstrated Crosswind
Never-Exceed Speed (VNE)	

**Performance: Weight & Balance**

Aircraft N#	Basic Empty Weight (BEW)
Empty Aircraft Moment	Center of Gravity (CG)
Maximum Ramp Weight (MRW)	Maximum Takeoff Weight (MTOW)
Maximum Landing Weight (MLW)	

**Performance: Runway distance requirements (indicate MPH or KTS, use maximum gross weight)**

Plan a flight from San Martin Airport (standard day) to Columbia O22 (30°C, 29.92", wind calm). Use normal takeoff configuration for no-obstacle scenarios and short-field takeoff configuration for 50' obstacle scenarios.

San Martin Computations	Columbia Computations
Takeoff runway required	Takeoff runway required
Takeoff distance over 50' obstacle	Takeoff distance over 50' obstacle
Landing runway required	Landing runway required
Landing distance over 50' obstacle	Landing distance over 50' obstacle

**Performance: Time, fuel and distance (indicate MPH or KTS, use maximum gross weight)**

Compute the following for cruise flight at 5,500' MSL, OAT=25C, Pressure Altitude = 6000'

65% Power:	RPM	MP	Fuel Flow	TAS	IAS
75% Power:	RPM	MP	Fuel Flow	TAS	IAS

For the flight from San Martin to Columbia, at 75% power, cruising at 5,500' MSL, OAT=25C, Pressure Altitude = 6000'

Fuel required	Time enroute
---------------	--------------

**Scenario #1: You, a 180-pound instructor, 20 pounds of baggage, full fuel**

	Weight (lbs)	Arm/CG (inches)	Moment (inch-lbs)
Empty Airplane			
Oil			
Pilot & Front Passenger			
Rear Passengers			
Fuel			
Baggage			
Loaded Airplane			

Within CG & weight limits at takeoff? If not, why?

How would you get in limits?

Within CG limits at landing with day VFR minimum fuel?

**Scenario #2 (skip for 2-seat aircraft): You, a 180-pound instructor, two 170-pound passengers in the rear seats, 40 pounds of baggage, full fuel**

	Weight (lbs)	Arm/CG (inches)	Moment (inch-lbs)
Empty Airplane			
Oil			
Pilot & Front Passenger			
Rear Passengers			
Fuel			
Baggage			
Loaded Airplane			

Within CG & weight limits at takeoff? If not, why?

How would you get in limits?

Within CG limits at landing with day VFR minimum fuel?

**Scenario #3 (skip for 2-seat aircraft): You, a 200-pound instructor, a 250-pound passenger in the rear seat, 20 pounds of baggage, fuel to maximum gross weight**

	Weight (lbs)	Arm/CG (inches)	Moment (inch-lbs)
Empty Airplane			
Oil			
Pilot & Front Passenger			
Rear Passengers			
Fuel			
Baggage			
Loaded Airplane			

How much fuel can you start with?

Within CG limits at takeoff?

Within CG limits at landing with day VFR minimum fuel?

## Aircraft Systems

### Engine

Describe the engine. Include information from the POH and your experience.

What fuel grade(s) may you use?

Fuel color(s)

Maximum fuel

Usable fuel - maximum

Usable fuel - tabs

Oil grade

Maximum oil

Minimum Oil

Outline the hot-start engine starting procedure (if airplane is fuel-injected, explain "vapor lock")

When is carb heat/alt-air used?

Maximum RPM drop on mag-check

Max L-R RPM difference

A magneto drops more than expected during runup, how might you "fix" it?

Minimum RPM for takeoff (static)

Maximum RPM for takeoff

Outline the engine leaning procedure

Describe the fuel system, including any limitations or emergency procedures

### Electrical System

Describe the electrical (alternator or generator? external power? ammeter or loadmeter?)

What are indications of electrical failure?

How do you resolve an electrical failure?

What equipment stops working when the electrical system fails?

**Constant Speed Propeller**

Describe how a constant speed propeller works

What is a "Propeller Overspeed"?

What is the proper procedure to manage a "Propeller Overspeed"?

What is the purpose of cycling the prop during run up? What indications are you looking for?

Describe making power adjustments (increasing power, decreasing power) in terms of control lever changes

### **Retractable Landing Gear**

What is the power source for the landing gear extension and retraction?

What are the gear position indicators?

Are there any instances where the gear indicator lights may not show "down" when in fact the gear is safely down?

When do you retract the gear after takeoff?

Maximum gear retraction speed

When do you extend the gear prior to landing?

Maximum gear extension speed

Normal retraction time and extension time

Maximum gear operating speed

Describe any automatic systems to prevent improper or neglected gear retraction/extension

Describe any warning systems to alert the pilot that the landing gear is "unsafe"

Describe the steps for an emergency gear extension