

AeroDynamic Aviation

AIRCRAFT REVIEW

Pilot's Name:

Reviewing CFI:

Date:

Specific Aircraft Data – All aircraft documents may be used for this review.

- Make and model of aircraft:
- Usable fuel capacity:
- Minimum fuel grade:
- Location of fuel drains:
- Oil capacity:
- Recommended oil type and viscosity:
- Minimum operating oil level:
- Recommended normal approach speed:
- Recommended normal approach configuration (gear/flaps):
- Best angle of climb speed (V_X):
- Best rate of climb speed (V_Y):
- Do-not-exceed speed (V_{NE})
- Maximum Structural Cruise speed (V_{NO})
- Maximum flap extension speed (V_{FE}) [If applicable]
- Maximum landing gear operating speed (V_{LO}) [If applicable]
- Maneuvering speed (V_A):
- Maneuvering speed is given for maximum gross weight. If you are flying with less than maximum weight, do you use the same speed, a lower speed or a higher speed ?
- How do you detect carburetor ice and what do you do about it ?
- Describe the go-around procedure.
- Best glide speed (V_{BG})
- Describe the in flight engine failure procedure.

Use the following form to calculate weight and balance:

Include your weight in the pilot's seat, your instructor's weight in the copilot's seat, (180 lbs if other information is lacking), and reasonable weights in other seats. You may assume three seats filled in four-seat aircraft. Use actual aircraft weight, arm, and moment.

Item	Arm	Weight	Moment
Empty Weight			
Oil			
Subtotal			
Front Seat(s)			
Rear Seat(s)			
Baggage			
Subtotal			
Fuel			
Total			

- Maximum aircraft gross weight:
- Actual aircraft empty weight and moment:
- Is the aircraft within weight and balance limits ?
- At 65% power, 7500 feet, standard temperature, what are:

Manifold Pressure: RPM:

Fuel Consumption: TAS:

- What are the minimum runway lengths to take off and clear a 50' obstacle at:

1/ Maximum gross weight, no wind, sea level, standard temperature.

2/ Maximum gross weight, no wind, 5000 feet, 100 degree temperature.