

AIRCRAFT CHECKOUT FORM

Member name: _____

Airplane: N _____ Type _____

Systems and Equipment:

Fuel capacity _____ gal. Useable fuel _____ gal. Number of fuel sampling points _____

Minimum oil level: local flight _____ qt. cross country flight _____ qt.

Battery/Alternator voltage: 24/28 or 12/14 What indicates that the alternator is working?

Primary instruments: PFD/MFD (glass) or Analog (steam) Autopilot: Yes or No

Aircraft Speeds:

kts mph (circle one)

V_x _____ Best angle of climb

V_s _____ Stall, flaps up

V_y _____ Best rate of climb

V_{SO} _____ Stall, flaps down

V_{CC} _____ Cruise climb

V_{FE} _____ Flap extension (10°)

V_G _____ Best glide

V_{FE} _____ Flap extension (20°, 30°)

Normal approach _____

V_A _____ Maneuvering

Short field approach _____

Weight & Balance:

Basic empty wt. _____ lbs. CG arm _____ in. Max gross wt. _____ lbs.

Useful load _____ lbs Full fuel max payload _____ lbs

CG limits at max gross wt: Forward _____ in. Rear _____ in.

Performance (max gross wt, high-performance A/C power in RPM and inHg):

Engine HP: _____ Normal climb power setting: _____

Runway required, Rossette, 15°C, wind 030/12kts:

Takeoff _____ ft. Landing _____ ft.

Flap setting for short field takeoff _____ deg.

Fuel required to start, taxi, climb from KARB to 4500 MSL _____ gal.

Best cruise **fuel economy**: Altitude _____ Power setting _____ **GPH** _____

Max cruise **speed**: Altitude _____ Power setting _____ **TAS** _____

Endurance at 2500 MSL, max cruise speed: _____:_____ hours:minutes

(complete other side for complex and high performance aircraft)

Approved by (CFI): _____ Date: _____

Constant Speed Prop:

What is manifold pressure? _____

Which control changes MP? How? _____

Why does MP decrease during a long climb out? _____

Which control changes engine RPM? How? _____

High Performance Aircraft:

What is the acceptable range for CHT? _____ What is the ideal value? _____

What control can you use to change CHT? _____

What can you do to lower CHT? _____

What is the cruise configuration to maintain CHT? _____

What control changes EGT? How? _____

Fuel flow at 75% power: _____ GPH

CG Envelope:

Do a weight and balance calculation for two 220 lb front seat occupants and full fuel.

What is the result? _____

What is the result with only 10 gallons of fuel? _____