

EXECUTIVE FLYERS AVIATION

TRAINING DEPARTMENT AIRCRAFT GROUND REVIEW CHECKLIST *All aircraft documents may be used for this review.*

This form is to be used as an aid in reviewing FAR Part 91, fundamental specifications, mechanical systems, and procedures of the aircraft that is being flown. All questions may not be applicable to all aircraft. Utilize all available aircraft documents to aid in this review. I.e. Owner's Manual, Operator's Manual, placards, markings or listings. After completion of the review, this form should remain the property of the pilot for his / her reference.

PILOT: _____ Date: ____/____/____

Aircraft Make and Model: _____

1. What is the total fuel capacity? _____ How many tanks are there? _____
What is the capacity of each tank? _____ (gal)
2. What is the total usable fuel capacity? _____
3. What is the correct fuel grade(s)? _____ Color? _____
4. Where are the fuel drains located & how many? _____
5. When are they drained? _____
6. What is the recommended grade and type of oil? _____
7. What is the minimum operating oil level? _____
8. What is the aircraft empty weight? _____
9. What is the useful load? _____
10. What is the maximum aircraft takeoff gross weight? _____
11. What is the maximum aircraft landing weight? _____
12. What is the center of gravity range? _____
(Use maximum gross weight and work sample weight and balance.)
13. What are the recommended short field take off and landing procedures? _____
14. What are the recommended soft field take off and landing procedures? _____
15. What is the recommended normal approach airspeed? _____
16. What is the best rate of climb speed (V_y)? _____
17. What is the best angle of climb speed (V_x)? _____
18. What is the maneuvering speed (V_a) _____ Kts/(Mph) When is it used? _____
19. What effect does reducing gross weight have upon maneuvering speed? _____
- 20. What are the maximum speeds for landing gear extension and retraction? _____
21. What is the 1G, MTOW stall speed in landing configuration (V_{so})? _____
22. What is the 1G, MTOW speed in the clean configuration? _____
23. What is the maximum demonstrated crosswind component for your aircraft (20% V_{so})? _____
24. What is the purpose of flaps? _____
- 25. What is the minimum control speed (V_{mc}) with the 'critical engine' inoperative? _____
- 26. What are the unsafe gear indications? _____

→ Complex Aircraft

- 27. What is the procedure for emergency gear extension? _____

28. How do you detect carburetor ice? _____
- 28a. What corrective action would you take to eliminate carburetor ice? _____
29. Based on the aircraft's Cruise Performance Chart, at 75% power, 4,000 feet and standard temperature, calculate:
Manifold Pressure: _____ RPM: _____
Fuel Consumption (GPH): _____ TAS: _____
30. What indication would you have of alternator failure on your aircraft? _____
31. If the overvoltage sensor light comes on, what does it mean and what corrective action would you take? _____

- 31a. If the engine-driven vacuum pump failed, what instruments would become inoperative? _____

32. Describe the "Go Around" procedure: _____

33. What is the minimum runway length for takeoff in your aircraft under the following conditions?
Max. gross weight, no wind, sea level, standard temperature _____
Max. gross weight, no wind, 5,000 ft., 90° temperature, 50 ft. obstacle _____
34. When are your passengers required to have their seatbelts and shoulder harnesses fastened (FAR 91.107)? _____
35. What aircraft documents must be on board during flight?(AROW) _____

36. What are the basic VFR weather minimums for flight in Class "D" airspace? Ceiling? _____ Vsby? _____
37. What avionics equipment is required to fly into Class B and Class C airspace? _____
38. Class "D" airspace with an operating control tower extends from the surface to what altitude? _____
39. What inspections are required of a flight school aircraft? _____
40. Is the aircraft approved for spins? _____
41. Describe the proper spin recovery technique. _____
42. On a two-bar VASI, if you see red over red, you are _____ the glide path.
43. What is the horsepower rating of the engine? _____ @ what RPM? _____
44. What is the *minimum* and *maximum* oil pressures for this engine? _____

Reviewed by: _____

Instructor

Comments: _____

