

Aero Fliers Ground Review Checklist

Beech Debonair

Pilot: _____ Date: _____

1. Aircraft serial number _____
2. What is the total fuel capacity? _____
3. How many tanks are there? _____
4. What is the capacity of each tank? _____
5. What is the usable fuel capacity? _____
6. What do the tab and detent indicate with regards to fuel _____
7. What is the correct fuel grade? _____
8. What color is the correct fuel? _____
9. How many fuel pumps are there? _____
10. How much fuel is required in each tank before takeoff. _____
11. How many fuel drains are there? _____
12. Where are they located? _____
13. When are they drained? _____
14. What is the minimum operating oil level? _____
15. What is the aircraft empty weight? _____
16. What is the recommended grade of oil? _____
17. What is the air craft empty moment? _____
18. What is the aircraft useful load? _____
19. What is the maximum aircraft takeoff weight? _____
20. What is the maximum aircraft landing weight? _____
21. What is the recommended short field approach speed and configuration? _____
22. What is the recommended normal approach speed? _____
23. What is the best rate of climb speed (V_y)? _____

24. What is the best angle of climb speed (V_x)? _____
25. What is the maneuvering speed (V_a) _____
26. What is the stall speed in landing configuration (VSO)? _____
27. What is the stall airspeed in landing configuration with a 60 degree bank? _____
28. What is the maximum speed for landing gear extension (V_{le}) _____
29. What are the unsafe gear indications? _____
30. What is the procedure for emergency gear extension? _____

31. What is the maximum demonstrated crosswind component for your aircraft (20% VSO)? _____
32. What is the purpose of flaps? _____
33. What is the purpose of the alternate air T handle ? _____

34. What is the power setting, fuel consumption and true airspeed for the following:
-65% power, 7500 feet, standard temp.
MP _____ RPM _____
Fuel consumption _____
TAS _____
35. What would be a indication of alternator malfunction? _____
36. What would you do to remedy the problem? _____
37. Where is the alternate static source located? _____
38. Describe the pitot/static system. _____
39. What changes in pitot/static instruments would you expect? _____

40. Describe the “go around” procedure: _____

41. What is the minimum runway length for takeoff in your aircraft?
Max gross weight, no wind, 5000ft., 100f temp. 50ft. obstacle: _____
42. What is the minimum runway length for takeoff in your aircraft?
Max gross weight, no wind, sea level, standard temp. _____
43. When are your passengers required to have their seat belts fastened? _____
44. What aircraft documents must be on board during
flight? _____
45. What are the basic VFR weather minimums for flight in class E
airspace? _____
46. What are the basic VFR weather minimums for flight in class G
airspace? _____
47. When is a transponder required in your
aircraft? _____
48. VFR cruising altitudes are required at what altitude? _____
49. What inspections are required on your aircraft? _____
50. What is the best glide speed and configuration? _____

Weight and balance problem:

Given:

Aircraft load (note: crew, passengers and baggage must make trip)

Pilot: 220 lbs.

Co-pilot: 180 lbs.

1st passenger: 180 lbs.

2nd passenger: 170 lbs.

Baggage: 120 lbs.

Hat shelf: 20 lbs.

Fuel: Max capacity with long range tanks

Cruise altitude: 5000ft. at standard temperture

(use normal climb speed to reach)

Cruise power: 64%

Allow 45 minutes minimum reserve at 45% power

(ref. pg. 5-24)

Find:

1) Time, fuel and distance to climb to cruise altitude from sea level.

- a) _____ Minutes
- b) _____ Gallons
- c) _____ NM distance
- d) _____ FPM rate of climb

2) Cruise power setting

- a) _____ inches
- b) _____ RPM
- c) _____ TAS kts
- d) _____ GPH fuel consumption

3) Maximum trip length at cruise _____ NM

4) Maximum flying time _____ Hours

Loading Table:

	Weight	Arm	Moment
1) Basic empty weight	_____	_____	_____
2) Useable fuel	_____	_____	_____
3) Pilot & front passenger	_____	_____	_____
4) Second row passengers	_____	_____	_____

5) Baggage _____

6) Hat shelf _____

7) Total wgt. and moment _____

Reviewed by: _____ Date: _____