



Name: \_\_\_\_\_

Date: \_\_\_\_\_

Aircraft Make and Model: **Commander 114**

**Insurance requirements:** 100 Hours Pilot in Command, 25 Hours Complex, 5 hours make & model, and 2 hours dual with an LEA instructor.

Prior to rental of any Leading Edge Aviation aircraft the following items must be accomplished.

1. Memorization of the following items in the emergency section of the Commander 114 POH---- 
  - a. Engine Fire on the Ground – 1-6
  - b. Electrical Fire on the Ground – 1-4
  - c. Engine Failure During Takeoff Roll – 1-2
  - d. Engine Failure In Flight – 1-3
  - e. Fire During Takeoff – 1-7
  - f. Electrical Fire In Flight – 1-5
  - g. Engine Fire In Flight – 1-5
  - h. Cabin Fire 1-3
  - i. Emergency Descent – 1-6
  - j. Circuit Breaker Tripping – 1-3
  - k. Loss of Oil Pressure Indication
  - l. Excessive Oil/Cylinder Head Temperature – 1-4
  - m. Propeller Overspeed – 1-3
  - n. Inadvertent Icing Encounter – 1-3
  - o. Extreme Turbulence Encounter – 1-3
  
2. Memorize all V-Speeds appropriate to the intended rental aircraft -----
3. Complete the POH open book review -----
4. Complete the Leading Edge Aviation Weight and Balance form -----
5. Avionics and Auto Pilot review with a Leading Edge Aviation Instructor-----
6. Complete the flight section of the aircraft checkout with a Leading Edge Aviation Instructor to the completion standards set forth by Leading Edge Aviation-----
7. Complete all new account paperwork and insurance requirements -----

I certify that the Leading Edge Aviation Ground Review has been corrected to 100%, any deficient items have been discussed, and the customer has demonstrated satisfactory knowledge in all areas.

Instructor Signature \_\_\_\_\_

Date \_\_\_\_\_

**Memorization Items:**

1. What are the following V-Speeds? \_\_\_\_\_ Vso, \_\_\_\_\_ Vs, \_\_\_\_\_ Vr, \_\_\_\_\_ Vx, \_\_\_\_\_ Vy, \_\_\_\_\_ Vfe, \_\_\_\_\_ Va max weight, \_\_\_\_\_ Va min weight, \_\_\_\_\_ Vne, \_\_\_\_\_ Vno, \_\_\_\_\_ Vbg-3140, \_\_\_\_\_ Vbg-2600, \_\_\_\_\_ Vbg-2023, \_\_\_\_\_ Vlo, \_\_\_\_\_ Vle
2. Please use the last page of the packet to fill out the emergency procedures memory items.

**Local Airport Information:**

1. What are the airport frequencies?  
 Clearance \_\_\_\_\_      Ground \_\_\_\_\_      Tower \_\_\_\_\_  
 Approach \_\_\_\_\_      ATIS \_\_\_\_\_      ASOS \_\_\_\_\_  
 CTAF \_\_\_\_\_      Unicom \_\_\_\_\_
2. What runways are available for use? \_\_\_\_\_
3. What are the runway length(s)? \_\_\_\_\_
4. What are the traffic patterns for each runway? \_\_\_\_\_  
 \_\_\_\_\_
5. What is the calm wind runway? \_\_\_\_\_

**Open book questions:**

1. Total fuel capacity \_\_\_\_\_ gals. Unusable fuel \_\_\_\_\_ gals. Approximate fuel burn @ 75% power, 8000ft., and standard temperature \_\_\_\_\_.
2. Engine information: Make \_\_\_\_\_, Model \_\_\_\_\_, Horsepower \_\_\_\_\_.
3. Oil quantity: Minimum \_\_\_\_\_, Maximum \_\_\_\_\_, Grade (all temps) \_\_\_\_\_.
4. Is this airplane approved for intentional spins? \_\_\_\_\_. If so what category? \_\_\_\_\_.
5. At 10,000ft full fuel, 65% power what is the endurance with a 45 minute reserve? \_\_\_\_\_ in hours, in \_\_\_\_\_ miles.
6. What is the maximum demonstrated crosswind velocity? \_\_\_\_\_
7. What are the approved fuels? \_\_\_\_\_
8. What is the baggage area weight limit? \_\_\_\_\_
9. Where is the fire extinguisher located? \_\_\_\_\_
10. Is the engine carbureted or fuel injected? \_\_\_\_\_
11. What is the maximum rpm for this engine? \_\_\_\_\_
12. What is the normal flap setting for takeoff? \_\_\_\_\_

13. Is this aircraft equipped with an alternate air source for the engine? If so how is it operated? \_\_\_\_\_  
\_\_\_\_\_
14. How many fuel drain valves are there and where are they located? \_\_\_\_\_  
\_\_\_\_\_
15. What should be accomplished if there are signs of fuel contamination? \_\_\_\_\_  
\_\_\_\_\_
16. What is the charging system voltage? \_\_\_\_\_
17. How many batteries are there? \_\_\_\_\_
18. What is the battery voltage? \_\_\_\_\_
19. Where is the external power receptacle located? \_\_\_\_\_
20. If using external power for engine start, what must first be verified before connecting power? \_\_\_\_\_  
\_\_\_\_\_
21. What are the recommended starter duty cycle times? \_\_\_\_\_
22. What are the load limits for this airplane? \_\_\_\_\_
23. Can slips with full flaps be made in this airplane? \_\_\_\_\_
24. What is the full throttle static RPM indication? \_\_\_\_\_
25. What is the balked landing procedure? \_\_\_\_\_  
\_\_\_\_\_
26. What is the minimum oil temperature prior to take off? \_\_\_\_\_
27. What is the maximum demonstrated cross wind velocity for this aircraft? \_\_\_\_\_
28. What is the procedure if the ammeter does not show a positive charge after an external power assisted start? \_\_\_\_\_
29. What is the maximum zero fuel weight for this aircraft? \_\_\_\_\_
30. How is proper latching of the doors ensured prior to takeoff? \_\_\_\_\_  
\_\_\_\_\_
31. What is the procedure for an open door in flight? \_\_\_\_\_
32. How are flight characteristics and performance affected by the vortex generators? (see POH supplement section) Can the aircraft be flown with a vortex generator broken or missing? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
33. Does this aircraft have aileron trim? \_\_\_\_\_
34. What is the procedure for draining the gascolator? \_\_\_\_\_  
\_\_\_\_\_

- 35. Where should the fuel selector valve be positioned after shutdown? \_\_\_\_\_
- 36. Where are the fuel tank vents located? \_\_\_\_\_  
\_\_\_\_\_
- 37. When should the fuel pump be used? \_\_\_\_\_
- 38. What controls extension and retraction of the landing gear? \_\_\_\_\_  
\_\_\_\_\_
- 39. Where is the power pack located? What type of pump does it contain? Is it one-way or two-way? \_\_\_\_\_
- 40. What is indicated by the unsafe red (GEAR WARN) light? \_\_\_\_\_  
\_\_\_\_\_
- 41. When will the gear warning horn sound? \_\_\_\_\_  
\_\_\_\_\_
- 42. What is the electrical (light) indication of gear being fully retracted? \_\_\_\_\_
- 43. Where is the ground contact or 'squat' switch located? \_\_\_\_\_  
\_\_\_\_\_
- 44. Can the gear be retracted with the emergency dump valve in the down position? \_\_\_\_\_
- 45. How can a landing gear indicator bulb be replaced? \_\_\_\_\_  
\_\_\_\_\_
- 46. What is the inspection interval for power pack hydraulic fluid level? \_\_\_\_\_
- 47. Where is the pitot drain located? \_\_\_\_\_
- 48. How many static ports are there? What other function is served by the alternate static valve? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 49. What are the features of the Century 1 Autopilot system? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 50. How is the stall warning system tested? \_\_\_\_\_  
\_\_\_\_\_
- 51. What is the purpose of the scoop inlet located on the left front cowling? What is the purpose of the scoop inlet located on the right front cowling? \_\_\_\_\_  
\_\_\_\_\_
- 52. Explain how to reset fuel to full/change or add gallons using the JPI engine analyzer \_\_\_\_\_  
\_\_\_\_\_
- 53. What is the electrical system voltage? Alternator capacity? If using external power what is the maximum voltage setting to be used? \_\_\_\_\_  
\_\_\_\_\_
- 54. Which items are associated with the convenience circuit breaker? Where is this circuit breaker located? \_\_\_\_\_  
\_\_\_\_\_

55. How could the JPI monitor be used to detect electrical system irregularities? \_\_\_\_\_

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Explain leaning procedures for best power and best economy, using EGT gauge and also using the JPI engine analyzer (see JPI EDM-800 Pilot's Manual located in aircraft, or PDF download at).

This aircraft is equipped with a standby vacuum pump. Read the information from the POH supplement – how will its use affect operations?





