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## BE95 Systems & Limitations Quiz

### 1. V Speeds?

Vr-	Vmc-
Vx-	Vxse-
Vy-	Vyse-
Va-	Vsse-
Vne-	Vle-
Vno-	Vfe-
Vso-	

### 2. Describe the BE95 Travel Air O-360 engine:

- A. How many cylinders?
- B. Who is the manufacturer?
- C. What is the horsepower rating?
- D. Does it have fuel injectors or a carburetor?
- E. Is the engine turbo-charged or normally aspirated?
- F. How is ignition provided?
- G. What are the maximum and minimum oil capacities?
- H. What imitations does the oil system have concerning starting pressure & temp?



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3. Describe the propeller system.
    - A. Who makes the propellers?
    - B. What does oil pressure do to the propellers?
    - C. Which lever regulates oil pressure to the propeller?
    - D. Which component regulates oil to the propeller?
    - E. What is the purpose of the spring in the prop dome?
    - F. Define constant speed.
    - G. What unit adjusts the propeller to maintain a constant RPM and how does it do it?
    - H. Define full feathering?
    - I. Does this aircraft have prop un-feathering accumulators?
    - J. Will the propeller always feather during shutdown? Why?



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4. Describe the electrical system (What does it operate on this A/C?):
    - A. Generators or Alternators?
    - B. Generator Cut-In Speed?
    - C. Battery?
    - D. System Voltage?
    - E. Limitation on electric starters?
  5. Will the engines continue to run with the generators and battery master switch turned off?
  6. Describe the vacuum system.
    - A. Which instruments are vacuum operated?
    - B. What are the vacuum system normal operating limits?
    - C. How many vacuum pumps does the BE95 have?
    - D. What indications would occur in the event of a vacuum pump failure?
  7. Describe the stall warning system.



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8. Describe the fuel system. (Tanks / Distribution)

9. Describe the landing gear system

A. How is the landing gear actuated?

B. What keeps the gear in the up position?

C. What keeps the gear in the down position?

D. What will not allow the gear to be retracted on the ground?

E. What is the procedure to extend the gear manually (Emergency Gear Extension)?

F. What airspeed is of importance during manual gear extension? What is it?

10. What type of braking system is used by a BE95? Where is it serviced (reservoir)?



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11. What type of flaps does this BE95 have?

A. What are the flap settings on the BE95?

12. What are the maximum ramp, takeoff, and landing weights?

13. What is the maximum baggage capacity? (nose & rear)

14. Explain the pitot static system.

15. Does the BE95 have an alternate static source? If so, how is it activated? What actions are necessary to acquire the most accurate reading?

16. What instruments are pitot static?

17. Where are the pitot static ports located?

18. Where is the cabin heater, and how does it operate?



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19. What prevents it from overheating?
  20. What is the fuel capacity? How many gallons are unusable?
  21. What grade fuel is to be used in a BE95?
  22. How many fuel pumps are on this aircraft?
  23. When are the electric fuel pumps to be used?
  24. What are the various positions of the fuel selector control?
  25. Explain the procedure for cross-feeding fuel when operating the right engine from the left tank.
  26. If the cylinder head temp and oil temp approach the caution range, what can be done to assist in cooling?
  27. Minimum fuel for takeoff?