

Pilot Name:

Instructor Name:

Date:

Aircraft Checkout

C-172 N/ P/ S

1. V-speeds (knots)

V_R

V_X

V_Y

$V_{\text{cruise climb}}$

V_A

V_{NO}

V_{FE}

$V_{\text{Best glide}}$

V_{approach}

V_S (clean)

V_{SO} (flaps & gear down)

Note to all:

Falcon Field has three colors of airplane tiedowns:

White: Falcon Executive Aviation

Red: Transient and overflow parking

Yellow: Private/ rented- DO NOT USE

2. What is *normal* (not short) *takeoff total distance* at 5,000 ft field elev. @ 29.92" & 80° F?
3. What is this plane's fuel capacity? Are there tabs? What grade and color?
4. How many gallons does it burn per hour @ full-power climb? @ 75% cruise?
5. How many quarts of oil maximum & minimum would you use? What type?
(Note: depending on vintage, max could be 6, 7, or 8 qts)
6. How many volts does the electrical system run on?
7. Where are the battery and GPU socket?
8. Calculate weight & balance for: Front passengers 360 lbs., Rear passenger 130 lbs., Baggage 100 lbs., & fuel. Is the plane within limitations? If not, what can be done?
9. What are the procedures for a maximum performance short field takeoff?
10. What is the procedure for switching fuel tanks? When/ why would you?

For #11 and #12: "cold start" refers to an engine block below approx 60 ° F inside. "Hot start" refers to an engine 60 ° F inside and above regardless of time since use.

11. What is the procedure for a cold start?
12. What is the procedure for a hot start?
13. What does it mean if the ammeter reads negative during flight?

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14. What can you do if you have to follow slower traffic in the pattern?
15. What brand, displacement, & horsepower is the engine? Injected or carb? What method(s) of cooling does the engine use?
16. What brand & type of propeller does the plane have?
17. While starting, you notice smoke or flame coming out of the cowling. What is the most likely cause and what would you do? (Explain each option)
18. What kind of airspace is Falcon Field, and are there any Mode C requirements?
19. What is the floor of Phoenix airspace to the west? Over Falcon north, south, & east?
20. What instruments are part of the pitot-static system? From what port(s) do they sense? Where are they located on the plane? Is there any backup to these (failure, blockage, etc.)?
21. Describe the stall warning system on this plane, where the sensor is, and whether it has backup in case of failure, blockage, etc.
22. Is the vacuum system electric, hydraulic, or engine driven? Where is(are) the pump(s)? What instruments, gauges, warning systems, etc. are connected?
23. What hydraulic systems are on this plane? How do you check them? Is there any redundancy?
24. **Describe OR draw** the fuel system from tank(s) to engine, including sumps, pump(s), and selector, as well as how they work, how and when you use them, and where they are.