

# Yankee Flying Club Cirrus SR20 Checkout

## Pilot Information

Name \_\_\_\_\_ Pilot Certificate Number \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Home Phone \_\_\_\_\_ Work Phone \_\_\_\_\_ E-Mail \_\_\_\_\_  
Certificates and Ratings \_\_\_\_\_  
Class of Medical \_\_\_\_\_ Date of Medical \_\_\_\_\_  
Total Time \_\_\_\_\_ Instrument Time: Sim. \_\_\_\_\_ Actual \_\_\_\_\_ Last Six Months \_\_\_\_\_

## General

Engine manufacturer & model: \_\_\_\_\_ Maximum horsepower: \_\_\_\_\_ @ \_\_\_\_\_ rpm  
Oil capacity: min. \_\_\_\_\_ max. \_\_\_\_\_ When should you add oil? \_\_\_\_\_  
Fuel capacity: total \_\_\_\_\_ usable \_\_\_\_\_ Usable fuel when filled to tabs \_\_\_\_\_  
Required fuel grade(s) \_\_\_\_\_

## Airspeeds (fill in the indicated airspeeds that correspond to the descriptions or V-speed abbreviations)

Vso \_\_\_\_\_ Vs1 \_\_\_\_\_ Vfe \_\_\_\_\_  
Va(o) (at max. gross) \_\_\_\_\_ Va(o) (at 2600 lbs) \_\_\_\_\_ Va(o) (at 2200 lbs) \_\_\_\_\_  
Vno \_\_\_\_\_ Vne \_\_\_\_\_ Vrot (50% flaps) \_\_\_\_\_  
Vx \_\_\_\_\_ Vy \_\_\_\_\_ Enroute climb \_\_\_\_\_  
Vg (at max. gross) \_\_\_\_\_ Vg (at 2500 lbs) \_\_\_\_\_ Go-around (flaps 50%) \_\_\_\_\_  
Normal landing (flaps up) \_\_\_\_\_ Normal landing (flaps 50%) \_\_\_\_\_ Short field landing (full flaps) \_\_\_\_\_

What is the maximum demonstrated crosswind velocity for the SR20? \_\_\_\_\_

## Emergency Procedures

1. Approximately how far will the SR20 glide (at best glide speed) with power off and no wind from 2000' AGL?  
\_\_\_\_\_

2. Under what circumstances could the SR20 enter a spiral or a spin? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. If an inadvertent spin is entered in the SR20, what steps should be taken to recover? What part does the CAPS play in this process? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. In the event of an emergency landing, what procedure should be used to exit the airplane if the exit door(s) could not be opened? \_\_\_\_\_

\_\_\_\_\_

5. Within 30 minutes after engine start, what indication should you see on the ammeter? \_\_\_\_\_

\_\_\_\_\_

6. If an over-voltage situation should occur, an over-voltage sensor should shutdown the alternator if the voltage reaches approximately \_\_\_\_\_ volts. What procedure should you follow if the over-voltage sensor fails?

\_\_\_\_\_

\_\_\_\_\_

7. During taxi, the “LOW VOLTS” light illuminates. What is occurring and what if anything should be done about it? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

8. Describe what happens when the engine driven vacuum pump fails in flight. What indications would you see? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

9. What does it mean when the oil light comes on? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### **Normal Procedures**

1. How many fuel drains are there and where are they located? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. Inside the cabin during preflight, you need to ensure that the CAPS Safety Pin is removed. What other CAPS related safety measures should you take during preflight? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Describe the procedure for properly inserting the oil dipstick during an oil check. \_\_\_\_\_

---

---

4. The SR20 has two external static ports. Describe the procedures for using the alternate static source if required. \_\_\_\_\_

---

---

5. The SR20 nose wheel is free casting. While manually moving the airplane on the ground, the nose wheel should not be turned more than \_\_\_\_\_ degrees right or left.

6. Describe the procedure for steering the SR20 during taxi and during takeoff. \_\_\_\_\_

---

---

7. While using rudder during taxi, you notice a small amount of aileron deflection. Why? \_\_\_\_\_

---

---

8. During a landing in a crosswind, you may experience some nose wheel shimmy. Why might this occur and what if anything should be done about it? \_\_\_\_\_

---

---

9. The flap switch allows three positions. Briefly describe those positions, their general purpose and what indicator lights you should expect in each position. \_\_\_\_\_

---

---

10. The hat shaped switch on the top of the side yoke controls both pitch and roll trim. If the yoke is released, the indicators on the side of the yoke tube will indicate how far the trim is set off center. Because there is no manual trim control, what should be done to safely maneuver the airplane in the event of electric trim failure?

---

---

11. What is the significance of the amber "FUEL" light on the annunciator panel? If you see light on during flight, how much fuel **could** you have on board? \_\_\_\_\_

---

---

12. Why should the avionics master switch be turned off prior to engine start and shutdown? \_\_\_\_\_

\_\_\_\_\_

13. Three 9-volt batteries are available as backup power for the turn coordinator in the event of total electrical failure. How would you activate the batteries and when if ever should they be replaced? \_\_\_\_\_

\_\_\_\_\_

14. Describe the recommended procedure for handling the fuel selector during preflight, run-up, takeoff and cruise flight. \_\_\_\_\_

\_\_\_\_\_

15. During extended ground operations without the engine running, what step(s) should be taken to minimize battery drain? \_\_\_\_\_

\_\_\_\_\_

16. The SR20 stall warning system uses a combination air pressure and an electric switch to warn of excessive angle of attack. Because the system requires electric power to operate, how would the system operate in the event of total electrical failure? \_\_\_\_\_

\_\_\_\_\_

17. The SR20 allows you manually turn on the ELT without reaching through the baggage compartment? How is this accomplished and what indications might you see or hear? \_\_\_\_\_

\_\_\_\_\_

18. Describe the basic operation of the electric auxiliary fuel pump; how it is used for both cold and warm engine start and its limitations. \_\_\_\_\_

\_\_\_\_\_

19. When fueling the SR20, where should the ground line be attached? \_\_\_\_\_

\_\_\_\_\_

20. The SR20 POH offers two mixture descriptions and Exhaust Gas Temperature (EGT) settings for leaning in cruise flight at or below 75% power. What are these two settings and which is recommended for best overall engine performance and longevity? \_\_\_\_\_  
\_\_\_\_\_

21. Describe the procedure for using the parking brake and what precaution(s) should be taken with its use?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

22. How and when would you use alternate intake air? Describe any potential problems with its use.  
\_\_\_\_\_  
\_\_\_\_\_

23. Describe the automatic propeller control system and what RPM readings you should expect to see throughout the full range of throttle settings. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

24. What is the meaning of the amber "PITOT HEAT" light? \_\_\_\_\_  
\_\_\_\_\_

**Aircraft Performance**

1. Perform the following calculations using the conditions provided:

Field Elevation	1000'	T/O Distance (50' obs.)	_____
Temperature	75 degrees F	Rate of Climb	_____
Weight	Max Gross	Landing Distance (50' obs.)	_____
Wind	10 Kt. Headwind		
Runway	Hard Surface		
Altimeter Setting	29.92		

Field Elevation	5000'	T/O Distance (50' obs.)	_____
Temperature	86 degrees F	Rate of Climb	_____
Weight	Max Gross	Landing Distance (50' obs.)	_____
Wind	Calm		
Runway	Hard Surface		
Altimeter Setting	29.42		

2. What power setting will yield 75% power at 3000' MSL on a standard day? \_\_\_\_\_

3. What is the TAS and fuel flow at the power setting in the above question? \_\_\_\_\_

**Weight and Balance**

Using the available information for our SR20, perform weight and balance calculations below for the conditions given. If the results are over gross weight or out of CG range, alter the load to correct the problem. Use the space provided below.

Empty Weight: 2082 lbs.    Moment/1000: 291.31    Gross Weight: 3000 lbs.    Useful Load: 918 lbs.

Condition #1: Fuel to tabs plus five gallons each tank, 180# passenger in each seat, 40# baggage.

Condition #2: Full fuel, 240# pilot, 220# passenger, 40# baggage.

Ground Instruction Hours \_\_\_\_\_ Flight Instruction Hours \_\_\_\_\_

Remarks \_\_\_\_\_

*I certify that the instruction noted above was given.*

*I certify that the instruction noted above was received.*

\_\_\_\_\_  
Instructor Signature                      Cert. No.                      Exp.                      Date                      Pilot Signature                      Date