## **RFC Dallas, Inc.**

AIRCRAFT QUESTIONNAIRE (6/3/2018) "A Safe Pilot Knows His Equipment"

NAME:		Date:	
Aircraft: Bonanza	Registration Number:	Serial Number:	

The purpose of this questionnaire is to aid the pilot in their understanding of the airplane and its specific systems and procedures. No attempt has been made to cover in depth all the information contained in the POH/AFM but this questionnaire will provide a review of the basic information a pilot should know prior to being certified for solo flight by a Club Checkout Instructor. This questionnaire along with the ground and flight instruction you will receive by a Club Instructor and your continued review of the POH/AFM will enable you to maintain a high degree of knowledge and safety regarding this specific airplane.

Using all available manuals and documentation, complete each question by providing the most appropriate response. Upon completion, contact a Club Checkout Instructor to schedule a review of your responses. Following this review, please place a signed copy (with corrected responses) in the red folder in the club lockbox and notify the Club Safety and Training Officer.

1)	What is the Maximum Ramp Weight for this aircraft?	
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2) What is the Maximum Gross Take-Off Weight (MGTOW) for this aircraft? \_\_\_\_\_\_.

- 3) The Empty Weight of this aircraft is: \_\_\_\_\_(lbs). Empty Weight CG is: \_\_\_\_\_
- 4) The Forward C.G. limit at gross weight is \_\_\_\_\_\_. Aft C.G. limit is \_\_\_\_\_\_.
- 5) This aircraft is certified in the \_\_\_\_\_ category.

What type of fuel does this engine require? \_\_\_\_\_\_.

- 7) Each "Main" fuel tank holds \_\_\_\_\_ total gallons, \_\_\_\_\_ gallons usable.
  - a. If a tank is filled to the <u>bottom</u> of the tab, it has \_\_\_\_\_ usable gallons. If a tank is filled to the <u>slot</u> on the tab, it has \_\_\_\_\_ usable gallons.
- 8) Does this aircraft have "Tip Tanks"? (Yes / No) If Yes:
  - a. Each <u>Tip Tank</u> holds \_\_\_\_\_\_ total gallons and \_\_\_\_\_\_ usable gallons.

  - c. How do you prevent air in the fuel lines between the tip tanks and the engine from causing a fuel starvation situation? \_\_\_\_\_\_.
  - d. Tip Tank fuel should only be used in level flight? ( True / False )
  - e. The "Cross Feed" switch on the fuel selector allows fuel to flow from the Right Tip Tank to the Left Tip Tank to resolve a fuel imbalance situation? ( True / False )

9)	This aircraft has	_ fuel drains.	
10)	0) Where is the low point drain?		
11)	Minimum fuel in each <u>Main</u>	tank for takeoff is gallons.	
12)	The auxiliary fuel pump is ( a b c	mechanical / electrical ) and is used for:	
13)	The engine horsepower is	@2700 RPM.	
14)	The engine holds a maximur	n of quarts of oil. Add oil when the level is below quarts.	
15)	On takeoff, use deg both front and back seats ar	of trim when only the front seats are occupied. Use deg of trim when e occupied.	
16)	After takeoff, raise the gear	when	
17)	If the door should open on t a b c	akeoff:	
18)	Calculate the following at <u>7,</u> RPM	000' with <u>45 minutes reserve</u> on a <u>standard</u> day: MP GPH TAS KTS RANGE NM	
7.	5%		
6	5%		
5	5%		
19)	Is "Lean Of Peak" operation	approved for this aircraft? ( Yes / No )	
20)	Emergency descent procedu	ire is:	
	a)	b)	
	c)	d)	
21)	To recover from a spin:		
	a)	b)	
	c)	d)	

22) To manually extend the landing gear:

a)	b)	
c)	d)	
e)	f)	
g)		
23) On a $100^{\circ}$ F day with no wind, what is the distance 4,000' pressure elevation? ft.	required to clear a 50-foot obstacle at gross weight and	
24) To achieve the charted performance in the CLIMB (Care must be taken if maximum climb performance is needed	Chart, the aircraft climb speed should beKts. to avoid maximum cylinder head temperatures.)	
25) What is the Maximum Cylinder Head Temperature? C. What is the Club's recommended Maximum? C.		
26) While performing the "Before Takeoff Checklist", maximum Magneto RPM drop is When testing the propeller control, the recommended RPM drop is		
27) During cold weather, exercise the propeller	times before takeoff.	
28) Indicate airspeeds in KTS:		
VA	VNO	
VFE(Approach)	VS	
VLO	VSO	
VNE	VX	
Glide	VY	
Balked landing	Maximum demonstrated crosswind	
29) What is the "slip limitation" in this aircraft?		
30) From 8,000 AGL, approximately how far can the ai	ircraft glide (no wind)?	
31) What is the Maximum Glide <u>Configuration</u> in this a	aircraft?	
a)	b)	
c)	d)	
e)		
32) At gross weight with gear and flaps retracted and zero angle of bank, what is the power off stalling speed?		

33) In a 45 $^{\circ}$  bank with gear and flaps retracted, what is the power off stalling speed?

34) Is this aircraft approved for flight in known icing conditions? ( Yes / No )

35) On final approach, check:

	a) b)		
	c) d)		
36)	On a go round, apply power and raise ( gear / flaps ) first.		
37)	After landing, when are the flaps raised?		
38)	In the event of a propeller over speed, what action should you take?		
	a) b)		
	c)		
39)	Can the landing gear be raised with the hand crank? ( Yes / No )		
40)	The gear warning horn will sound when the gear is up and		
41)	The gear warning horn will sound when the gear is up and <u>any flap selection</u> is made ( True / False ).		
42)	To avoid thermal stress in the engine, avoid descents.		
43)	3) As you descend, manifold pressure will ( increase / decrease ).		
44)	<ul> <li>4) Except in extremely low temperatures, the cowl flaps should be (open / closed) during:</li> <li>a)</li> <li>b)</li> </ul>		
	c)		
45)	The external power receptacle is located on The voltage on the Auxiliary Power Unit should be set to ( 14 / 28 ) volts.		
46)	6) What position is the Battery Switch prior to connecting the Auxiliary Power Unit? ( Off / On )		
47)	7) The landing gear is operated by ( electric / hydraulic ) power.		
48)	3) The three GREEN landing gear lights indicate		
49)	) The RED landing gear light illuminates when		
50)	)) All gear lights out occurs when		
51)	1) This aircraft ( is / is not ) certified for aerobatics.		
52)	2) Can the ELT be activated from the cockpit? ( Yes / No )		
53)	3) The Attitude Indicator is ( pressure / electrically ) powered.		
54)	) The Turn Coordinator is ( pressure / electrically ) powered.		

55)	This aircraft is equipped with a backup Alternator? ( Yes / No )
56)	This aircraft is equipped with a backup Pressure System? ( Yes / No )
57)	The GPS in this aircraft is WAAS capable? ( Yes $/$ No $)$ and ( is $/$ is not $)$ IFR certified?
58)	This aircraft is equipped with an HSI? (Yes / No) a. If Yes, the HSI is (pressure / electrically) powered.
59)	The autopilot in this aircraft has an "Altitude Hold" mode? ( $$ Yes $$ / $$ No $$ )
60)	Is this aircraft equipped with a Flight Director? ( Yes / No )
61)	Is this aircraft equipped with an "alternate static air source"? ( Yes $$ / No $$ )
62)	How may an alternator problem be recognized by the pilot? a) b)
	If installed, how can a voltage meter be used to indicate an electrical/alternator problem?
	c)
63)	Can this aircraft depart with an inoperative alternator? ( Yes / No )
64)	There are emergency exits. Name them:
65)	How often does the Aircraft Registration on this aircraft expire?

66) According to FAR Part 91, the \_\_\_\_\_\_ is responsible for determining whether the aircraft is safe and airworthy for flight.

Reviewed by:	Date:
(Authorized Club Checkout Instructor)	