

# Pilot Checkout Exam – Diamond DA40-180

Pilot \_\_\_\_\_ Checkout CFI: \_\_\_\_\_ Date \_\_\_\_\_

## General:

1. I have read the DA40 POH
2. Is this aircraft certificated for: IFR operations? YES NO
3. Spins? YES NO
4. Are aerobatics permitted in this aircraft? YES NO
5. What is the primary type of material used in the aircraft construction? \_\_\_
6. Are flaps required for take-off? YES NO
7. Flaps T/O position (one notch/two notches)?
8. Flaps LDG position (one notch/two notches)?
9. Is the seat position adjustable? YES NO
10. How are the rudder pedals adjusted? \_
  
11. Where is the list of installed equipment located? \_\_\_\_\_
12. What chapter of the POH has the list of "Minimum operational equipment"? \_\_\_

## Fuel System:

13. How many fuel tanks are there? \_\_\_
14. What is the total usable fuel capacity? \_\_\_ gallons
15. What is the correct fuel grade? \_\_\_ Color? \_\_\_\_\_
16. Where are the drains located? \_\_\_\_\_
17. When should a fuel sample be examined? \_
18. What is the maximum permissible fuel difference between the right and left tank? \_ \_ gallons

## Oil System:

19. What is the minimum oil level for VFR flight? \_\_\_ \_ Max level? \_ Normal Level? \_\_\_ -
20. What is the minimum oil level for IFR flight? \_\_\_ \_ Max level? \_ Normal Level? \_\_\_
21. What is the recommended oil ? \_\_\_\_\_

## Weight and Balance:

22. What is the maximum take-off weight ? \_ \_ lbs.
23. What is the maximum landing weight ? \_ \_ lbs.
24. What is the empty weight of the aircraft to be flown ? \_\_\_\_\_
25. What is the weight of full fuel ? \_
26. What is the aircraft useful load ? \_\_\_\_\_
27. What is the aircraft payload ? \_\_\_\_\_
28. Determine if the aircraft is within the weight and balance limitations given the following conditions: Full fuel, front passengers = 360 lbs., rear passengers = 170 lbs., baggage = 70 lbs. YES NO

## Airspeeds: (Use indicated airspeeds, all speeds in kts)

29. Stall speed at gross weight? Flaps LDG (Vso)? \_\_\_\_\_ flaps TO\_ , flaps UP\_
30. Never exceed speed (Vne)? \_\_\_

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31. Max structural cruising speed (Vno)? \_\_\_
32. Maneuvering speed (Va) at max gross weight? \_\_\_
33. Does Va increase/decrease as gross weight decreases?
34. Max flap extended speeds (Vfe)? TO position \_\_\_\_\_, LDG position \_\_\_\_\_
35. Normal rotation speed? \_\_\_
36. Short field take-off climb speed (gross weight)? \_\_\_
37. At what altitude should the flaps be retracted after departure? \_\_\_\_\_
38. Best rate of climb speed (Vy) at sea level (Flaps T/O, gross weight)? \_\_\_
39. Best angle of climb speed (Vx) at sea level? \_\_\_
40. Cruise climb speed (flaps up, gross weight)? \_\_\_
41. Demonstrated crosswind component? \_\_\_
42. Normal final approach airspeed (flaps LDG, gross weight)? \_\_\_
43. Short field final approach airspeed? \_\_\_
44. Best glide speed (gross weight, flaps up)? \_\_\_
45. What is the recommended continuous climb RPM? \_\_\_

**Starting**

46. I have reviewed the procedures for cold starting this aircraft found in the POH page 4A-13 & 4A-14) YES/NO.
47. I have reviewed the procedures for addressing a vapor lock and how to remedy the issue found n the POH page 4A-20, 4A-21, 4A26, and 4A27) YES/NO
48. I have reviewed the procedures for “hot starting” this aircraft found in the POH pages 4A-15 & 4A-16. (YES/NO).
49. I have reviewed the procedures for a flooded engine found in the POH pages 4A-17 & 4A-18. (YES/NO).
50. Do not overheat the starter motor. Do not operate the starter motor for more than 10 seconds. After operating the starter motor, let it cool off for 20 seconds. After 6 attempts to start the engine, let the starter cool off for 1/2 hour. (True/False)

**Emergency procedures:**

51. How would you detect an alternator failure, and what action would you take?
  
52. I have reviewed the procedures concerning actions to take if I experienced an engine problems or failure during taxi, takeoff, or flight as contained in the POH pages 3-5 thru 3-19. (YES/NO)
53. I have reviewed the procedures and actions to take if I experience high oil temperature. POH 3-11 (YES/NO)
54. I have reviewed the procedures and actions to take if I experience low oil pressure while in flight? POH 3-10 (YES/NO)
55. Describe the “go around” procedure.
  
56. I understand that IFR flights are not permitted when the seal on the emergency switch is broken. (YES/NO)

**Aircraft Performance:**

57. Using the POH, what are the power setting, fuel consumption and true airspeed for cruising at 75% power at 5,000 feet with standard temperature (lean to Best Power)? RPM \_\_\_\_\_ MP \_\_\_\_\_ TAS \_\_\_\_\_ Fuel Consumption \_\_\_\_\_ GPH
58. Using the POH, what are the takeoff distances to clear a 50’ obstacle when using maximum performance procedures with the aircraft at gross weight into a 8 knot headwind under the following conditions: Sea level, temperature= 60 deg F? \_\_\_\_\_ feet . Pressure altitude = 4,000’, Temperature = 90 deg F? \_\_\_\_\_ feet

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**Aircraft Care:**

- 59. I understand that there is “NO SMOKING ALLOWED” in this aircraft. (YES/NO)
- 60. I understand that “ANIMAL PETS MY NOT BE CARRIED” in this aircraft (YES/NO)
- 61. I understand that “beverages must be in a resealable plastic bottles (no cups, cans, or glass containers)” (YES/NO)
- 62. I understand that if ice or snow is present on the aircraft, it CANNOT be scraped off. The aircraft must be placed in a heated hanger and the snow/ice allowed to melt (YES/NO)
- 63. I understand that the proper procedure for boarding or exiting the aircraft does not require the feet to be placed on the seats (YES/NO)
- 64. I understand that I must use the nose wheel tow bar for manual movement of the aircraft on the ground and that I am not to push on the airframe. (YES/NO)
- 65. I understand that that the wing is not to be used as a shelf of workbench to store flight bags, oil, tools, parts, etc. and it is not to be sat on (YES/NO)
- 66. I understand that I am responsible for the removal of all trash, used rags, used paper towels, empty plastic bottles, and all other debris when I conclude the flight of this aircraft (YES/NO)

**Flight Checkout:**

- 67. Pilot Requirements: Private pilot or better.
- 68. Complete “Pilot Checkout written Exam” with at least 80%. Missed questions to be reviewed with CFI
  
- 70. For instrument rated pilots, checkout will include holding patterns and approaches.
- 71. For an instrument cross country, three instrument approaches in type to touchdown within the previous 30 days or one instrument approach to touchdown in type in the last 10 days.

**Pilot Acknowledgments:**

- 72. I acknowledge that I have reviewed the DA40 POH Pilots Initials \_\_\_\_\_
  
- 73. I acknowledge that I meet the minimum qualification to act as PIC of this aircraft. Pilots Initials \_\_\_\_\_  
(Private pilot or better,
- 74. I acknowledge that I have reviewed the operations of the DA40 with a qualified instructor. Pilots Initials \_\_\_\_\_
  
- 75. I acknowledge that I feel I am personally qualified to safely operate the DA40 as PIC. Pilots Initials \_\_\_\_\_

Pilots signature: \_\_\_\_\_

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

Checkout CFI signature: \_\_\_\_\_

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