

First & Last Name: _____

CFI: _____

Diamond DA40NG CHECKOUT

FUEL SYSTEM

1. Describe the fueling process for this airplane: _____

2. What type of fuel does this airplane use? Should PRIST be added? Is Diesel fuel acceptable? _____

3. How many fuel tanks are in the airplane, where are they located, and what is their capacity? What will the fuel indicators read when the all the fuel tanks are full? _____

4. What is the maximum permissible fuel imbalance? _____
5. What is the purpose of the fuel valve? When should you switch tanks?

6. What is the purpose of the fuel transfer pump? _____

7. To which tank is excess fuel returned? What is the return rate? _____

8. How many fuel pumps does this airplane have? For each, describe its purpose, when it is used and how it is controlled. _____

ELECTRICAL SYSTEM

1. How many master switches does this airplane have? What are their purposes? _____

2. How many batteries does this airplane have? What does each power? How long can each power its respective circuits if the alternator fails? _____

3. How many alternators does this airplane have? What does each power? _____

4. What circuits are always hot, even when the electric master switch is off? _____

5. If the pilot's overhead light was left on when you turned off the electric master, will you return to a dead battery? _____

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6. How is the air conditioning powered? Can you use it during all phases of flight? If so, what is the effect on performance? _____
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FADEC SYSTEM

1. What is an Engine Control Unit? What does it control? How many ECUs does this airplane have? _____
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2. What does the Voter switch do? When would you use it? _____
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3. What does the ECU Test button do? When would you use it? _____
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4. How is each ECU powered by the engine or electrically? What happens if the alternator fails? What happens when the ECU battery backup fails? _____
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5. Describe any power limitations on the engine. _____
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TEMPERATURES

1. Describe any temperature limitations after engine start. _____

2. Describe any temperature limitations before run-up. _____

3. Describe any temperature limitations before engine shutdown. _____

START-UP AND SHUTDOWN

1. Detail the steps for engine start (assume Electric Master is ON, strobes are on already, and you've cleared the area). _____

2. Detail the steps for engine shutdown (assume engine has been below 10% power for more than the required time). _____

ADVANTAGE AVIATION RESTRICTIONS

1. List the restrictions that Advantage has placed on the DA40NG.

