

DIAMOND STAR DA 40 TDI

New plane, new technology, new philosophy = new training for the pilot who wants to get familiarised with this machine.

Compared to the other planes in our club, this one is different: not in terms of flying, but for the systems and this requires serious study with the Pilots Operating Handbook (POH)

The following quiz is just to confirm that you have studied the POH. The instructor who conducts your flight training will also explain if anything is not clear to you.

More specifically, there are new abbreviations used which are not common with our classic airplanes.

This information may seem like a detail, but, if not well understood, could cause problems in flight.

Fill out conscientiously the following questionnaire . For limitations, performance, and weight and balance you need to fill out the standard questionnaire: "Meet your Aircraft".

The following questions are specific to the **DA 40 TDI**.

- 1/. What does the abbreviation ECU mean? 
- 2/. What does the abbreviation LOAD mean? 
- 3/. What does the abbreviation AED mean? 
- 4/. What does the abbreviation CED mean? 
- 5/. What does the abbreviation CT mean? 
- 6/. What does the abbreviation GT mean? 
- 7/. What does the abbreviation ECU Swap mean? 
- 8/. What does the abbreviation ESS. AV. (fuse) mean? 
- 9/. What does the abbreviation XFER PUMP (fuse) mean? 
- 10/. What is the function of the « Glow plugs » ? 
- 11/. Why are we supposed not to use the « ESSENTIAL BUS » in normal operation ? 
- 12/. What is the « Gascolator » and where can you find it? 

MEET YOUR AIRCRAFT

- 13/. What is to do, if **3 seconds** after engine start, the oil pressure did not leave the red sector ? 
- 14/. « Fuel Transfer Status Light » is off but the « Fuel Transfer Pump » is ON ?
Is that possible, and if yes why ? 
- 15/. What is the reason to leave the engine running for 2 min before stopping? 
- 16/. Which parameters are controlled from the ECU? 
- 17/. What happens when the « ECU A » lights on the “Annunciator Panel”? 
- 18/. What is the last remaining source of electrical power if there is an alternator failure?
and for how long ? 
- 19/. What does the term « Cooling gap » position mean? 
- 20/. How do you stop the engine? 
- 21/. What happens if, with the Engine Master ON, you switch the Electric Master Off ?
The ECU is not supplied and the engine stops. True or false? 
- 22/. What can we do, if for any reason the fuel can't be taken from the main tank?
And what must be particularly observed? 
- 23/. What is the function of the «Acknowledge button»? 
- 24/. What does « Starter Warning message » (START) mean? 
- 25/. At which level « LOW FUEL » is coming on ? And which tank is concerned ? 
- 26/. What does the « ENGINE » message on the « Annunciator Panel » mean?

- 27/. What must you do if the « FUEL TRANS. » light is flashing on the
« Annunciator Panel »? 
- 28/. How can you determine the exact quantity of fuel in the tanks? 
- 29/. What is the cruising setting recommended by the manufacturer? 
- 30/. What can you expect when doing the « ECU SWAP TEST »? 