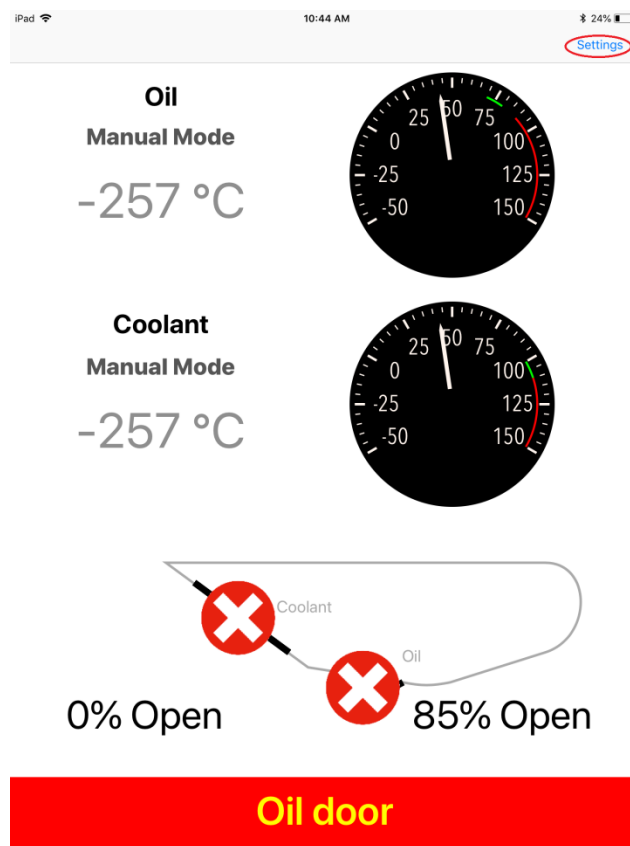


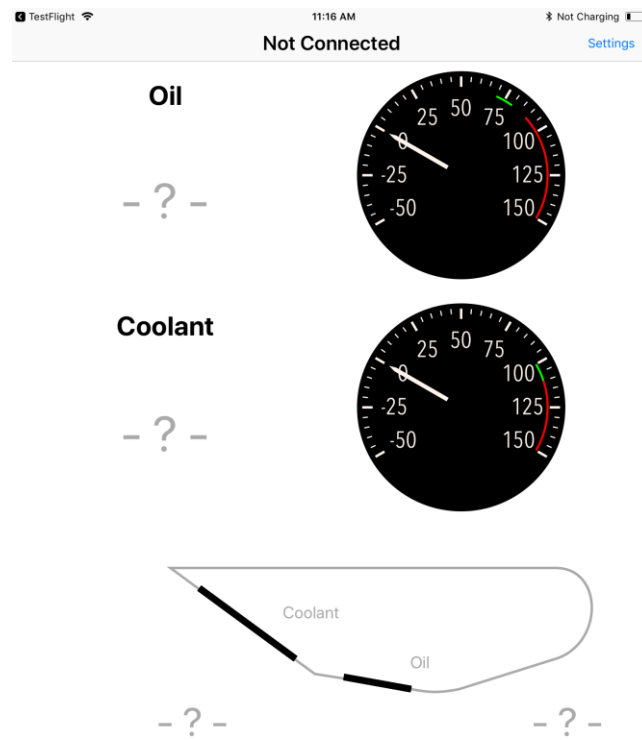
WNG01: Actuator Controller First Time Calibration Guide for Airmotives

Instructions on Connecting to the IOS Application and Initial Calibration

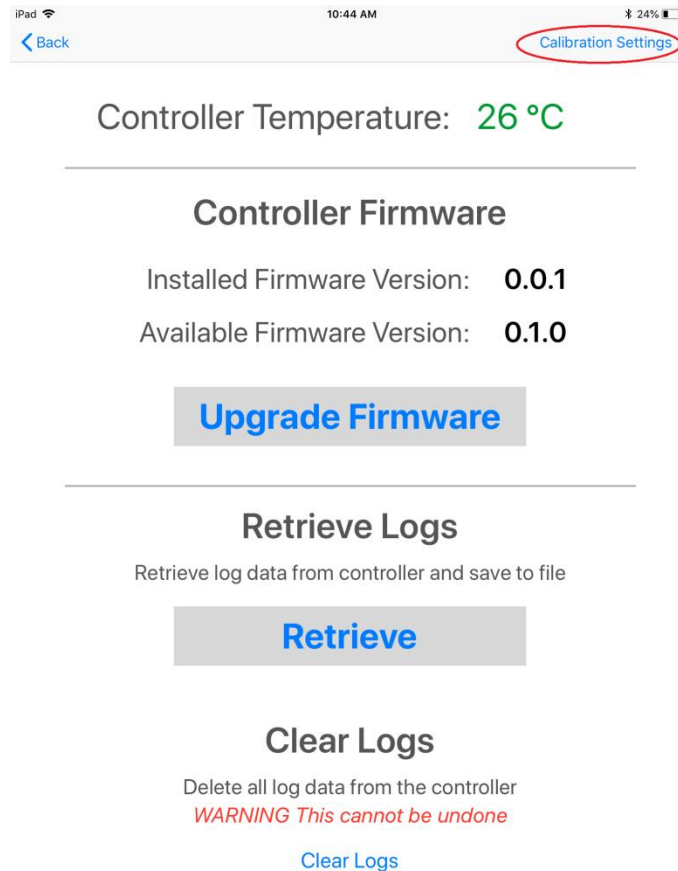
- An **iPad** is required to operate the IOS Application. An iPhone will not work.
- On the iPad with the account “dave@airmotives.com”, install the application “TestFlight” from the App Store
- Open “TestFlight” and download the “Wings P51D Controller” application.
- Open the application. You should see the screen below (actual values may vary):



- If the application is not connected to the controller you will get the following screen



- If the application is connected, you should see a “settings” button on the top right. Click on it to navigate to the settings page shown below:



- To calibrate the actuator doors, you have to enter into **maintenance mode**. Maintenance mode is the condition when the engine is off and the iOS application is connected. Maintenance mode allows the doors to be calibrated. **Caution:** Ensure the actuator doors are cleared from any obstructions in maintenance mode.
- First ensure the **engine is off** and the **actuators are set in auto mode**. Then, navigate to the “Calibration Settings” page.

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< Back

Door Calibration

Initiates a door calibration cycle

Oil Door

Coolant Door

System Tuning Parameters

Oil

1000

50

10000

1000

Proportional

Integral

Differential

Hysteresis

Coolant

1000

50

20000

1000

Proportional

Integral

Differential

Hysteresis

Modify Parameters

- Click the “Oil Door” or “Coolant Door” buttons to start a calibration process. The doors should move to the fully open and fully closed limits.

Page 4