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SERVICE BULLETIN **SB016-0017**

Subject: VR PDC Programming/Verification
Date: 03/3/2014
Ref: N/A
Pages: N/A
Status: Advisory

Background:

It has come to our attention that some Lancair Evolution aircraft equipped with the VR Avionics PDC prop heat controller may contain the factory default programming.

Action:

Several steps are necessary to check and correct the programming, if necessary.
A laptop computer with a serial port and the Windows XP operating system will be required.
If the computer has no serial port, a USB to serial adapter will be necessary.
An internet connection will be necessary to download the required files.

Access the website "www.vravionics.com".

In the Products field, click on the "PDC Propeller De-Ice Controller".
Scroll to the bottom of the page and click on the "PDC Operational and Installation Manual" tab. This will instruct you on the procedure to update the settings for your Evolution.
Download and save (or print) this manual as a reference while programming the unit.
Next, click on "System Interlink Software" and select "Run" when prompted to run the file or save it.
After the program is downloaded and installed, follow the procedures in the manual for configuring the prop de-ice controller.

For Hartzell 4-blade propellers, please see Table 1 in this document for the Hartzell-specified controller settings.

For MT 5-blade propellers, please see Table 2 in this document for the MT-specified controller settings.

Alternately, the PDC may be removed and sent to Lancair Avionics to have the controller programmed by a Lancair technician. One hour shop time will be charged. Please call Lancair at 541-923-2244 for more information.

Table 1
VR Programming/Verification
Hartzell 4-Blade

Operation: 1
Enable Combining Outputs: 0
Enable On-light Blinking code according to phase status: 1
Low Heat Phase A On-time: 0
Low Heat Phase B On-time: 0
Low Heat Phases Off-time: 0
High Heat Phase A On-time: 34
High Heat Phase B On-time: 34
High Heat Phases Off-time: 68
Working Current Range Minimum: 5
Working Current Range Maximum: 30

Table 2
VR Programming/Verification
MT Propeller 5-blade

Operation: 1
Enable Combining Outputs: 1
Enable On-light Blinking code according to phase status: 1
Low Heat Phase A On-time: 0
Low Heat Phase B On-time: 0
Low Heat Phases Off-time: 0
High Heat Phase A On-time: 35
High Heat Phase B On-time: 35
High Heat Phases Off-time: 35
Working Current Minimum: 5
Working Current Maximum: 30