Aero Technologies, LLC

SERVICE LETTER AT2011-1

October 3, 2011

TO: Aero Technologies Service Centers

SUBJECT: Field Model Conversions

MODEL AFFECTED: Stated PCU5000

SERVICE MANUAL AFFECTED: Maintenance / Overhaul Manual, AT1431299, R1

This service information is to be added to the appropriate Aero Technologies Maintenance Manual until the next manual revision is released.

PROPELLER CONTROL UNIT CONVERSION PROCEDURES

1) Overhaul Requirements –

   a) None, provided that the unit is within seven calendar years or TBO of the engine on which it is installed, whichever comes first, after entering service (engine installation and operation).

2) Long Term Storage of Propeller Control Units – The following is applicable to new and overhauled Propeller Control Units prior to entering service (engine installation and operation):

   a). Storage must be in a clean dry environment, preferably above ground level, in the original shipping carton to minimize exposure to dirt and moisture.

   b). If storage period exceeds two (2) years, before entering service perform the following inspection:

      1). Inspect externally for damage and corrosion. If greater than five (5) years, reseal and test.

      2). Test run the Propeller Control Unit on a Propeller Control Unit test bench to verify correct operation and to check for leakage. This must be accomplished by an FAA approved Repair Station in accordance with the Propeller Control Unit Maintenance Manual.

3) Sudden stoppage, lightning strike, propeller impact or metal contamination –

   a) Overhaul before return to service.

4) **All units under consideration for conversion must be within TBO limitations and meet the stated storage criteria. All time accumulated under the previous part number will carry forward to the new part number.**

From	*To*	*All procedures are per AT1431299, R1*
ATC210680 or *AT210937 or AT210937A	ATD210760	Cut safety wire and loosen six cover clamp screws. Rotate control lever to 138°. Re-torque and safety six cover clamp screws using an incremental cross pattern. *The AT210937 has Bracket "C" installed, replace with AT1430656S, Bracket "A" Mark the data plate with the new part number. Do not alter the serial number.
ATD210760 or *AT210937	ATC210680 or AT210937A	Cut safety wire and loosen six cover clamp screws. Rotate control lever to 61°. Re-torque and safety six cover clamp screws using an incremental cross pattern. *The AT210937 has Bracket "C" installed, replace with AT1430656S, Bracket "A" Mark the data plate with the new part number. Do not alter the serial number.
ATD210760 or ATC210680 or AT210937A	*AT210937	Cut safety wire and loosen six cover clamp screws. Rotate control lever to 196°. Re-torque and safety six cover clamp screws using an incremental cross pattern. *The AT210937 requires AT1204, Bracket "C", replace existing Bracket "A". Mark the data plate with the new part number. Do not alter the serial number.
ATA210760L(D)	ATA210760H(D)	Cut high RPM stop screw safety wire and turn out one full turn. (2625 RPM) Re-torque and re-safety the high RPM stop screw. Mark the data plate with the new part number. Do not alter the serial number.
ATA210760H(D)	ATA210760L(D)	Cut high RPM stop screw safety wire and turn in one full turn. (2600 RPM) Re-torque and re-safety the high RPM stop screw. Mark the data plate with the new part number. Do not alter the serial number.
*AT210488	ATG210760	Cut safety wire and loosen six cover clamp screws. Rotate control lever to 61°. Re-torque and safety six cover clamp screws using an incremental cross pattern. *The AT210488 has Bracket "C" installed, replace with AT1430656S, Bracket "A" Mark the data plate with the new part number. Do not alter the serial number.
ATG210760	*AT210488	Cut safety wire and loosen six cover clamp screws. Rotate control lever to 196°. Re-torque and safety six cover clamp screws using an incremental cross pattern. *The AT210488 requires AT1204, Bracket "C", replace existing Bracket "A". Mark the data plate with the new part number. Do not alter the serial number.
All	All	***New pre-stamped data plates are available through Aero Technologies,***

Approval: FAA approval has been obtained on technical data in this publication that affects product type design.

To obtain satisfactory results, procedures specified in this service information must be accomplished in accordance with accepted methods and prevailing government regulations. Aero Technologies cannot be responsible for the quality of work performed in accomplishing this service information.

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