

SERVICE BULLETIN: # SB-68

DATE: 24 June 2019

TO: ALL TYPE WITH ENGINE EPA 917 INSTALLED

AFFECTED PRODUCTS: CH77 Ranabot , CH7 Kompress Charlie , CH7 Kompress

SUBJECT: VOLTAGE REGULATOR FOR EPA 917

INSPECTION: NEXT PRE -FLIGHT INSPECTION

REPLACEMENT: MANDATORY

COMPLIANCE PROCEDURE:

S/B 68 Planning/Information

Experience in the field has shown that the regulators installed on all Rotax and Epa engines are often damaged by suspending power supply without warning of failure.

in the cases identified, the failure event can be associated with external operating temperatures of 25 degrees OAT or above.

the damaged regulator does not warn the pilot with any type of information, the aircraft can fly with only one current generator if the pilot optimizes the services until the consumption is balanced with the current production, in the event that the pilot does not activate any action corrective, the battery voltage slowly begins to go down, this is the only information that the pilot can use to presume a fault in the regulator but strong absorption with a low battery voltage can create rapid and sudden and total voltage drops that can cause difficulties in operation of the engine management control unit. Helisport has developed a highly precise regulator that not only regulates the voltage in a balanced 14.2 volt fashion. +/- 0.5 but also to monitor trends and above all to inform the pilot with differentiated light warnings about failure situations, overloads, overheating, and voltage drops. The start of fan 1 (the big one) produces a starting current of about 140Amperes that represent three times that available from the 2 alternators together. This can cause a momentary collapse of the voltage of a few volts, which could jeopardize the operation of on-board services, including the ignition / injection system, especially when the battery is low or defective. It is mandatory to install : Voltage Regulator Atal 8000, the new model 7004 fan card which limits the current to 16 amperes for the large fan and 8 amperes for the small fan, thus avoiding overcoming the maximum current available from the alternators, install the Lockout Relay when the engine is already in operation.

1.2 Subject:

Installation of the Atal 8000 voltage regulator and 7004 Card on all Helisport models with EPA 917 Ti engines.

1.3 Compliance

Application request in the next pre-flight inspection.

The application of the SB 68 must be in accordance with the installation instructions followed in section 3.

WARNING: Failure to follow this instruction may result in damage to the aircraft, personal injury or death

2) Material-costs and availability

prices and availability will be provided by CH7 HELISPORT HELICOPTER, Authorized Sellers or CH7 SERVICE CENTER

2.1 The Company

Shipping costs, downtime, loss of income, telephone costs etc., labor, additional work, are not charged or reimbursed by CH7 HELISPORT HELICOPTER.

2.2 Material

required parts:

- Voltage Regulator Atal 8000

-Card 7004

-Lockout Relay of engine start

2.4 special equipment / lubricated / glue / sealing compound.

NO

Rework of parts

NO

3) Instructions

This maintenance service can be applied by operators who have followed the special installation course held by the Manager Engineer Helisport Mr: Barbero Giuseppe

To fully review the documentation to understand exactly the procedures and requirements to avoid errors, all measurements must be taken and confirmed within the following persons or structures:

CH7 HELISPORT HELICOPTER

CH7 SERVICE CENTER

people approved by CH7 HELISPORT HELICOPTER

List of peoples who attended the course

Mr. Martin Gracka Mamba Air

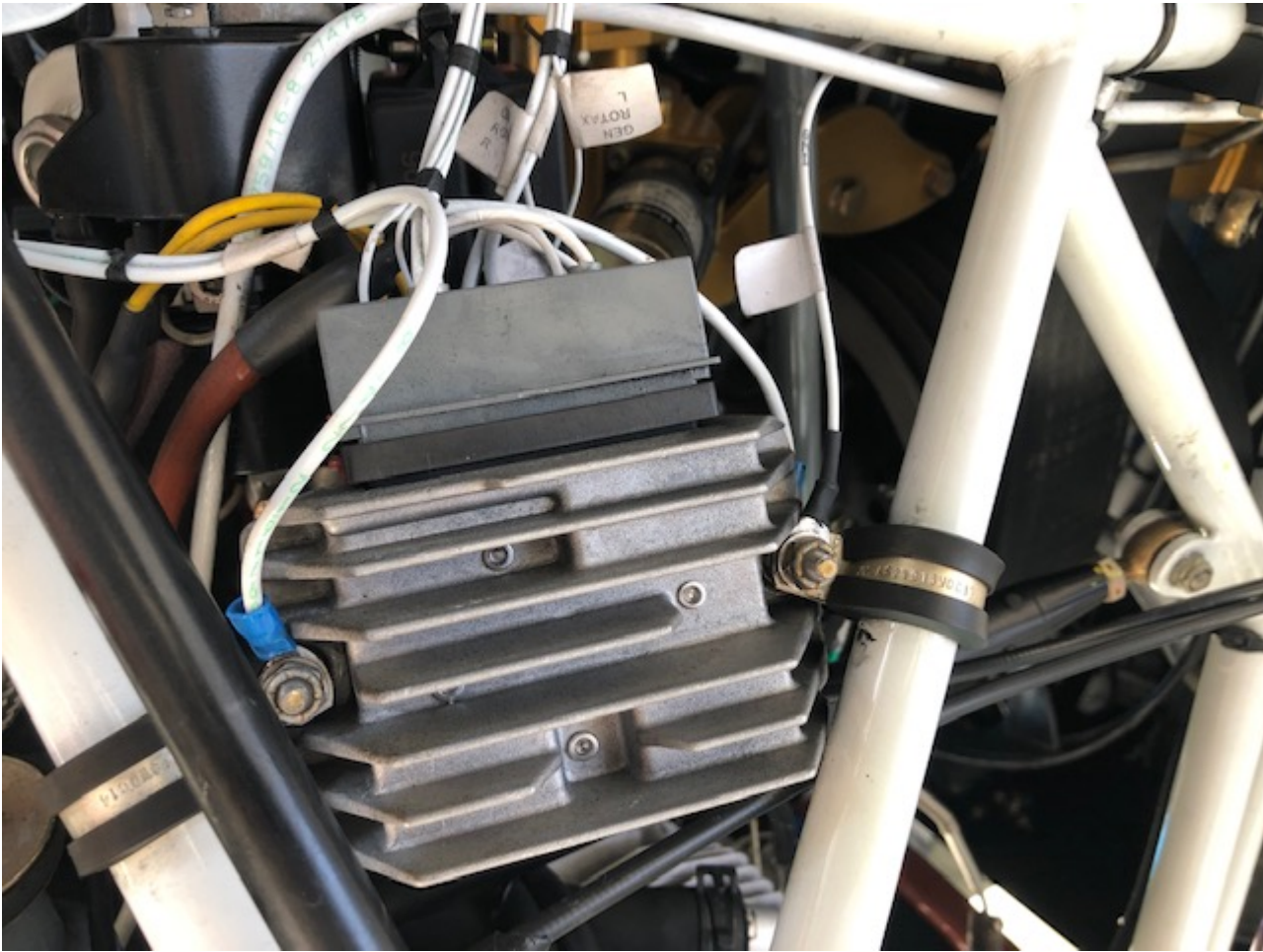
Mr. Matthieu De Quillacq Mr. Jean-Denis Desplans Sarl Helisport France

3.2) Put the aircraft back in its original operating configuration in accordance with the related construction and maintenance manuals

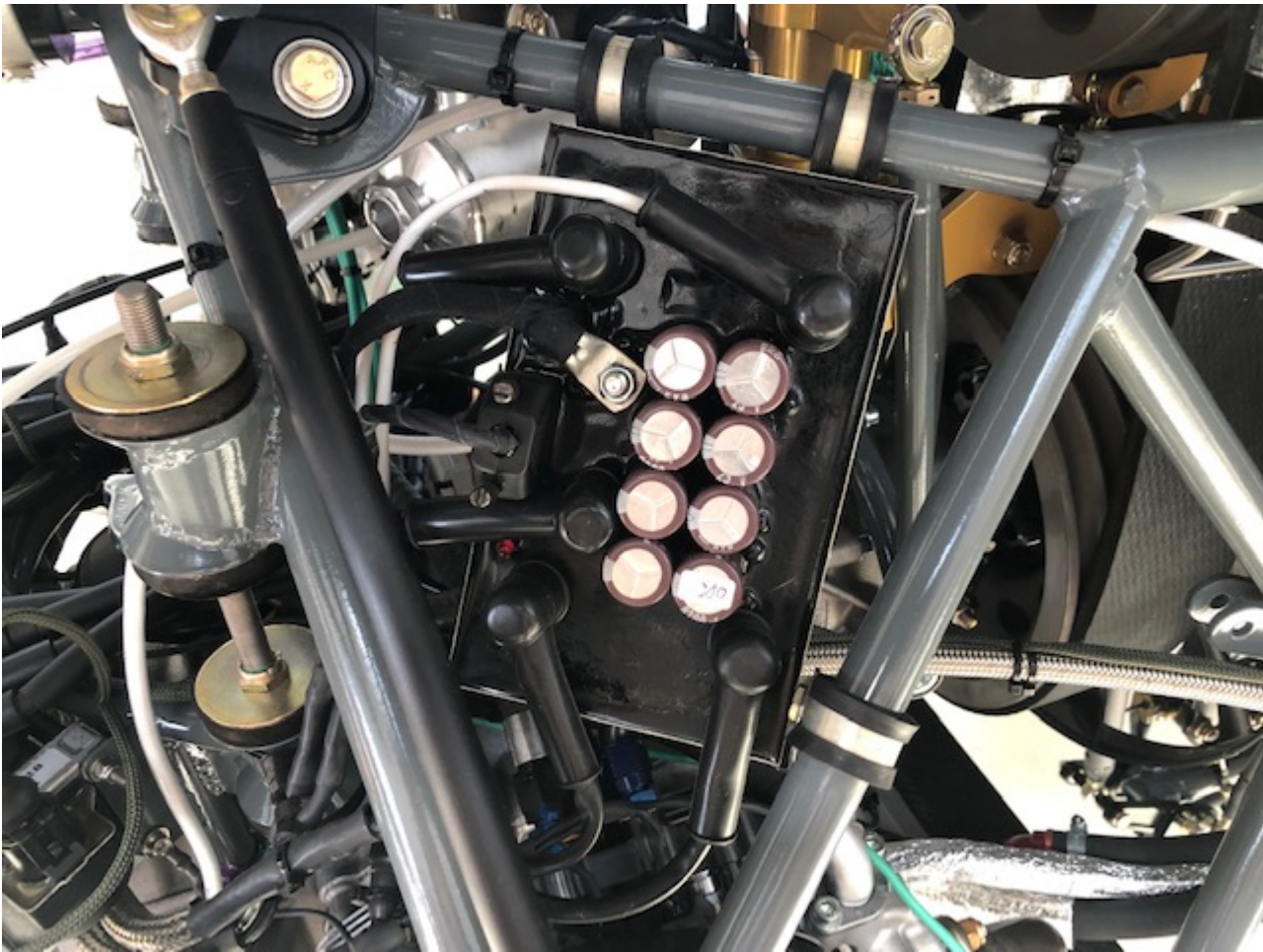
3.3 Summary

These instructions (section3) must be completed in accordance with section 1.3 Compliance.

The application of this bulletin must be transcribed in the aircraft maintenance log book.



OLD VOLTAGE REGULATOR



VOLTAGE REGULATOR ATAL 8000