

Subject : Power plant ignition system

Effectivity : DG-400, all serial numbers

Accomplishment : In case of defect of one ignition box or of the front spark plug connector (only with ignition system with Bosch Polarfire electronic boxes)

Reason : 1. With the Bosch Polarfire ignition boxes the front spark plug connector (elbow type) used until now with the Rotax 505 engine are no longer available. In case of defect of one the electronic boxes or of the front spark plug connector the ignition system has to be modified according to working instruction No. 1. Both electronic boxes have to be exchanged.
2. The Ducati ignition boxes used by Rotax (installed with TM826/27 or during serial-production) are no longer available. In case of defect of one box you have to install Ducati 432372501 boxes and change the wiring according to working instruction No. 2. Both electronic boxes have to be exchanged.

Instructions : 1. If the engine is equipped with Bosch Polarfire ignition electronic boxes:
a. Modify the system according to working instruction No. 1
Exchange the manual to „Manual for ROTAX-engine type 505 configuration without decompressor 2nd edition January 1992“
b. file drawing 4E30 to the aircraft logs in addition to page 16 of the engine manual
2. If the engine is equipped with Ducati ignition electronic boxes
a. modify the system according to working instruction no. 2
b. file drawing 4E30 to the aircraft logs in addition to page 16 of the engine manual

Material : Instruction 1:
a. working instructions no. 1 and 2
Service kit No. 21000120
b. Manual for ROTAX-engine type 505 configuration without decompressor 2nd edition January 1992
c. drawing 4E30

Instruction 2:
a. working instruction no. 2
Service kit No. 21000124
b. drawing 4E30

Weight and balance : influence negligible

Remarks : Instructions are to be executed by the manufacturer or by a licensed workshop and to be inspected and entered in the aircraft logs by a licensed inspector.

Bruchsal EASA approved on: September 11.2006
Date: August 23.2006 Under approval No. EASA.A.C.04553

Author:
Dipl. Ing. W. Dirks

Wilhelm Dirks