



REVOLUTION
HELICOPTER CORP., INC.



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May 1, 1998

RHCI Airworthiness Directive (AD) #050198

Effectuated Aircraft: All Mini-500 helicopters
AD Type: Mandatory (No further operation until complied with)
Subject: Rotax 582 re-jetting

It is absolutely essential to convert the Rotax 582 airplane engine for helicopter operation by re-jetting the carburetion of the engine. If you fail to do this, you will seize the engine. Even though your EGTs are correct at 1100 degrees F in a hover, when performing at the lower power settings in forward flight and descends, the stock needle and needle jet combination will lean the mixture to a point that will exceed safe EGT operation of the engine.

RHCI has notified all Mini-500 owners that this jetting change is necessary through service letters either mailed to owners or included in the aircraft kit, assembly manual and newsletters. Even though, RHCI is alarmed at the fact that Mini-500 owners are operating the Mini-500 with the stock airplane jetting. The fact is, almost all Mini-500 engine failures to-date have been due to owners failing to change the carburetor jetting for helicopter use.

Corrective Action: RHCI has now made available a re-jetting kit that converts the Rotax 582 airplane engine for helicopter operations, in hopes that this convenience will entice owners to properly re-jet their engine. The re-jetting kit consists of: two 11K2 needles, two 2.76 needle jets, and two each of 155, 158, 160, and 162 main jets. The variety of main jets provided should be adequate for all weather conditions. The combination needle and needle jet included should provide a proper ratio to also meet all weather conditions. Under no circumstances should the Mini-500 be operated unless the engine is properly jetted for helicopter use and to its operating weather condition.

The re-jetting kit can be ordered through RHCI under option #S0042 for **\$65.00** plus shipping.

For all Mini-500 operators who have purchased the new PEP option, proper jetting will be included, but if you are going to operate your Mini-500 before installing PEP, it is essential to only operate your engine if it has been properly jetted.

If you have any questions, please do not hesitate to contact Customer Service at (816) 637-2800.

Please date and sign, then mail or fax a copy to RHCI indicating receipt of this AD.

Revolution Helicopter Corp.
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Signature: _____ Serial # _____ Date _____