



## ADVISORY LEVEL: Mandatory

DESCRIPTION: Broken Cylinder Base Studs

ENGINE TYPE: R2800 / R3600

INSPECTION: Before the next flight.

Subsequently at each 25Hr oil change.

This advisory applies to all engines released from the factory prior to 2007

### Cause and Identification:

Several batches of earlier studs employed by Rotec have exhibited mechanical properties that were too brittle for the application. Consequently in operation some of these studs have failed under the tensile forces exerted by engine combustion pressures.

The fault is random and not found to be consistent within every batch of studs.

The **studs** in question are identified as being black in colour.

Engines since have been fitted with silver studs without one reported instance of failure.



### Failure:

The studs do not fail simultaneously but do so usually one at a time.

### INSPECTION:

For engines with black studs please conduct an immediate visual inspection for any missing or broken studs. If none are found inspect for broken studs every 25 hours (at each oil change)

### RECTIFICATION:

For engines found to have missing or broken studs please contact the Rotec Factory for options to correct the problem.

### WARNING:

**Do NOT attempt to drill out any broken studs as this will not work and may cause irreparable damage to the crankcase.**

***Please Note: Only technical information released by Rotec should be considered sound. Many third party opinions found on the internet are grossly inaccurate.***