



Aero Trading Ltd

MANUFACTURERS OF AIRMASTER AIRCRAFT PROPELLERS

Unit B
144 Central Park Drive
PO Box 21220
Henderson
Auckland
NEW ZEALAND

Phone: 64 9 8360065
Fax: 64 9 8360069
E-Mail: aerotrad@ihug.co.nz
Web: www.propellor.com

SERVICE BULLETIN

ATL-SB-4

Date of Issue: 19 May 2000.

Applicability: Propeller Models: AP308.
Serial Numbers: All up to and including No 32.

Compliance: Initial: At next periodic maintenance,
Or within 25 hours,
Or within at next pitch set-up run.
Subsequent: Nil.

**SUBJECT: LOCKING OF COARSE PITCH POSITION
MICRO-SWITCH RETAINING SCREWS**

Reference: Airmaster AP308 Propeller Owner's Manual

Reason

1. During the assembly of certain propellers, the coarse pitch position micro-switch retaining screws were not locked with thread-locking compound. These screws hold the position of the micro-switch and so define the coarse pitch limit of the propeller. Movement of this limit could produce inadequate coarse propeller pitch or result in the pitch change mechanism being driven to its physical limits. As in-service adjustment is not required for coarse pitch, this locking should have been carried during assembly.

2. In the case of the fine pitch position micro-switch, locking is called for in the Owner's Manual when the engine running set-up is conducted, and the fine pitch is set (Owner's Manual, section 4.2.2.).

Materials and Parts Required

3. High strength thread-locking compound such as 'Loctite 243'
4. 0.024in lock-wire.

Action

5. Remove spinner and spinner front support.
6. Remove pitch control motor housing by undoing the six screws and sliding the housing off the pitch control motor assembly.
7. One screw at a time, lock the socket setscrews retaining the coarse-pitch micro-switches while ensuring that the micro-switch mounting ring does not move. As follows:
 - a. Remove one of the socket set screws.
 - b. Apply thread-locking compound.
 - c. Replace the socket set screw (item 85, 10-32 UNF x ¼ socket setscrew).
8. Refit the pitch control motor housing with the six screws (AN501-A10-12).
9. Replace lock-wire on the six screws.

Note: Lock-wiring may be performed in accordance with the FAA Advisory Circular, 'Acceptable Methods, Techniques, and Practices – Aircraft Inspection and Repair', (AC 43.13-1B).

10. Refit spinner front support and spinner.

Recording

11. Record completion of service bulletin ATL-SB-4 in propeller logbook.