

MICROLIGHT AIRWORTHINESS APPROVAL NOTE

MAAN NO: 1875

ISSUE 1

DATE: 7 April 2005

TITLE: Microlight Airworthiness Approval Note 1875, Increase in side-wire diameter on Type Accepted aircraft with Pegasus Photon wings.

REG: All Type Accepted aircraft with Pegasus Photon wings

STAGE: APPROVAL

1. INTRODUCTION

Analysis has shown that the side wires on Type Accepted Photon wings need to be 4mm in diameter.

This MAAN introduces a Service Bulletin requiring the side wires to be of 4mm 7x7 type.

2. BASIS FOR APPROVAL

The basis for approval of this modification is BCAR S in the current amendment state on 7 April 2005, selecting the paragraphs that affect this modification.

3. DESCRIPTION

Three Type Accepted microlight types use the Pegasus Photon wing. Type Acceptance Data Sheets BMO 20, 20a & 20b and MAANs 1093, 1219 & 1233 refer.

In the original Acceptance of the types it was required that the side wires, which connect the base tube with the wing crosstube, be replaced with 3mm 7x7 wires. Subsequent calculations have shown that these wires should be 4mm 7x7 wires in order to conform to Section S.

This MAAN approves the replacement of the 3mm side wires with 4mm wires, by means of a Service Bulletin.

4. TECHNICAL INVESTIGATION

Calculations held on the BMAA file associated with this MAAN and supplied by the original manufacturer of the wing show that in order to meet Section S requirements, the side wires on this type of wing should be 4mm 7x7, rather than the 3mm 7x7 originally required.

The 4mm side wires are fitted on the CAA Type Approved version of this aircraft type, which is described in TADS BM 28.

5. FLIGHT TESTING

None required.

6. MANUALS, PLACARDS AND INFORMATION

The aircraft is to be checked according to the attached Service Bulletin.

7. NOISE CERTIFICATION

Noise certification is not affected by this MAAN.

8. RADIO

Radio installations are not affected by this MAAN.

9. INSPECTION

All Type Accepted microlight aircraft with Pegasus Photon wings are to carry out the Service Bulletin associated with this MAAN.

10. WEIGHT AND BALANCE

Weight and balance is not affected by this MAAN.

11. SIGNIFICANT FEATURES AND LIMITATIONS

None.

12. CERTIFICATION

I certify that all examples of Type Accepted aircraft fitted with the Pegasus Photon wing, as described in this MAAN 1875 issue 1, are suitable for flight with this Service Bulletin embodied.

I recommend the up-issue TADS BMO 20, 20a & 20b to reflect this Service Bulletin.

I also recommend that the CAA issue an MPD mandating this Service Bulletin.

Prepared by:

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Initial Distribution:

BMAA: MAAN file 1875
Chief Inspector
P&M Aviation Ltd

CAA: Aircraft Projects Dept (Gatwick)
Applications and Certifications Section (Gatwick)

Annex A to MAAN 1875

BMAA Service Bulletin 1875

Title: Replacement of side wires
Applicability: All Type Accepted aircraft with a Pegasus Photon wing
Classification: Mandatory
Issue: 1
Dated: 7 April 2005

Reason for SB:

Recent calculations by the wing manufacturer have shown that in order to be compliant with BCAR Section S, the wing side wires should be 4mm 7x7 wires and not 3mm 7x7 wires as may have been originally fitted.

The side wires are those which connect the base bar of the control frame to the wing crosstube.

Compliance:

1. Before next flight, all operators of Type Accepted aircraft with Pegasus Photon wings are to check that the side wires on their aircraft are 4mm 7x7 wires.
2. If 4mm wires are fitted, the operator is to note in the airframe logbook that BMAA SB 1875 has been applied and the wires found to be 4mm diameter.
3. If 4mm wires are not fitted, the operator is not to fly the aircraft until the correct wires have been obtained and fitted. The operator must then note in the airframe logbook that BMAA SB 1875 has been applied and the correct wires installed.
4. This Service Bulletin is to be appended to the aircraft's logbook.

Notes:

- Replacement wires of the correct specification must be sourced from P&M Aviation of Unit B, Crawford Street, Rochdale, OL16 5NU (01706 655134).
- Installation of new wires is to be carried out to standard aviation practices. If in doubt, advice should be sought from the BMAA or P&M Aviation.
- After replacing any structural components, including the side wires, a second inspection must be performed by either a pilot qualified on type or a BMAA inspector.

Approved by:

Guy Gratton
Chief Technical Officer
British Microlight Aircraft Association

MANDATORY PERMIT DIRECTIVE (proposed wording)

MPD: 2005-00x Pegasus Photon wing

Subject: Replacement of side wires

Applicability: all Type Accepted aircraft with Pegasus Photon wings

Reason: Investigations have shown that the side wires on some Type Accepted Photon wings may be of the wrong size.

Compliance: Before next flight ensure compliance with British Microlight Aircraft Association (BMAA) Service Bulletin Ref: 1875 issue 1.

A copy of BMAA SB 1875 and further information can be obtained from:

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Deddington
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Fax: 01889 337116
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Record compliance with this MPD in the aircraft log book.

This MPD becomes effective on xx/xx/xx.