



## Airworthiness Directive

**AD No.:** 2018-0153

**Issued:** 19 July 2018

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) 216/2008 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EC) 216/2008, Article 14(4) exemption].

### Design Approval Holder's Name:

BRITTEN-NORMAN AIRCRAFT LIMITED

### Type/Model designation(s):

BN2, BN2A, BN2B and BN2T aeroplanes

**Effective Date:** 02 August 2018

**TCDS Number(s):** EASA.A.388, United Kingdom (UK) BA8, and UK Airworthiness Approval Notes 9405.1, 10101, 10843, 10918, 10992, 11105, 11108, 11529 and 12401

**Foreign AD:** Not applicable

**Supersedure:** None

## ATA 27 – Flight Controls – Rudder Final Drive Rod Assembly – Inspection

### Manufacturer(s):

Britten-Norman Aircraft Ltd (BNA), formerly B-N Group Ltd, Britten-Norman Ltd, Pilatus Britten-Norman Ltd, Fairey Britten-Norman Ltd, Britten-Norman (Bembridge) Ltd

### Applicability:

BN2, BN2A, and BN2B (Islander) aeroplanes, all models, all serial numbers (s/n); and BN2T, BN2T-2, BN2T-2R and BN2T-4R aeroplanes, all s/n.

### Definitions:

For the purpose of this AD, the following definitions apply:

**The applicable SB:** Britten-Norman Aircraft Ltd Service Bulletin (SB) 363 and SB 364, as applicable.

**Affected part:** Rudder final drive rods, having Part Number (P/N) NB-45-0991.

### Reason:

Occurrences have been reported of failures of the rudder final drive rod, P/N NB-45-0991. Cracks were found in the region of the taper pins. There is evidence that replacing the taper pins could be a significant factor contributing to the failure of this rod.



This condition, if not detected and corrected, could lead to failure of the affected part, possibly resulting in reduced control of the aeroplane.

To address this potential unsafe condition, BNA issued the applicable SB, providing inspection instructions. Prompted by operator comments, BNA revised the applicable SB (issue 3) to introduce repetitive inspections.

For the reason described above, this AD requires repetitive inspections of the affected part and, depending on findings, replacement. This AD also prohibits replacement of taper pins on an affected part. BNA will amend the applicable Maintenance Manuals accordingly.

#### Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

#### Inspection(s):

- (1) Within the compliance time as specified in Table 1 of this AD, as applicable, and, thereafter, at intervals not to exceed 1 000 flight hours (FH), inspect the affected part in accordance with the instructions of the applicable SB.

Table 1 – Affected Part Initial Inspection

Affected Aeroplanes	Compliance Time (after the effective date of this AD)	Applicable SB
BN2, BN2A, BN2B	Within 100 FH	363
BN2T	Within 200 FH	364

- (2) Within 30 days after the effective date of this AD, accomplish a maintenance records check of the affected part, installed on the aeroplane, to determine whether any previous taper pin(s) replacement or rework has been accomplished on that part.

#### Corrective Action(s):

- (3) If, during any inspection as required by paragraph (1) of this AD, any discrepancies (e.g. loose taper pins, loose end connections, cracks or other damage) are found, before next flight, replace the affected part with a serviceable part in accordance with the instructions of the applicable SB.
- (4) If, during the records check as required by paragraph (2) of this AD, any evidence is found of previous taper pin(s) replacement or rework, within the compliance time specified in Table 1 of this AD, as applicable, replace the affected part with a serviceable part in accordance with the instructions of the applicable SB.

#### Terminating Action:

- (5) None.



**Parts Installation:**

- (6) From the effective date of this AD, it is allowed to install an affected part on any aeroplane, provided the part is new, or that, before installation, it is verified that no taper pin has been replaced on the affected part.

**Prohibition:**

- (7) From the effective date of this AD, do not replace any taper pin(s) on any affected part.

**Ref. Publications:**

Britten-Norman Aircraft Ltd SB 363 issue 1 dated 07 February 2018, or issue 2 dated 06 March 2018, or issue 3 dated 23 May 2018.

Britten-Norman Aircraft Ltd SB 364 issue 1 dated 07 February 2018, or issue 2 dated 06 March 2018, or issue 3 dated 23 May 2018.

The use of later approved revisions of the above-mentioned documents is acceptable for compliance with the requirements of this AD.

**Remarks:**

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. This AD was posted on 14 March 2018 as PAD 18-037 for consultation until 11 April 2018, and republished on 06 June 2018 as PAD 18-037R1 for additional consultation until 20 June 2018. The Comment Response Documents can be found in the [EASA Safety Publications Tool](#), in the compressed (zipped) file attached to the record for this AD.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu).
4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the [EU aviation safety reporting system](#).
5. For any question concerning the technical content of the requirements in this AD, please contact: Britten-Norman Aircraft Limited, Commodore House, Mountbatten Business Centre, Millbrook Road East, Southampton SO15 1HY, United Kingdom, Telephone: +44 20 3371 4000, Fax: +44 20 3371 4001, E-mail: [airworthiness@bnaircraft.com](mailto:airworthiness@bnaircraft.com), Website: [www.britten-norman.com](http://www.britten-norman.com).

