



Nomad

SERVICE BULLETIN

Reference No. 216

TRANSMITTAL LETTER FOR NOMAD SERVICE BULLETIN

SERVICE BULLETIN NO: NMD-55-28

DATE: 20 August, 1990

TITLE: Stabilisers - Horizontal Stabiliser - Control Rod Attach. Bolt
- Inspection for Cracks

REVISION NO: 1

DATE: 20 September 1990

ACTION: Remove Service Bulletin NMD-55-28 dated 20 August 1990 and insert the attached Service Bulletin NMD-55-28, Revision 1 dated 20 September 1990 into Service Bulletin folder and annotate index accordingly.

REASON: Three major defect reports have been received relating to longitudinal cracking in Bolt, Special; P/N 1/N-00-130.

REMARKS: Revision 1 is issued to change the Aircraft Effectivity, excepting post Mod N663 aircraft.



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STABILISERS - HORIZONTAL STABILISER - CONTROL ROD ATTACH. BOLT
- INSPECTION FOR CRACKS

1. PLANNING INFORMATION

A. Effectivity

1. Aircraft Affected

All N22 and N24 series aircraft, except post Mod N663 aircraft IS69 and IS159 to IS165, whose log books do not already record compliance with this Service Bulletin.

2. Spares Affected

P/N 1/N-00-130 Bolt, Special Issue 1, 2 or 3

B. Reason

Three major defect reports have been received relating to longitudinal cracking in Bolt, Special; P/N 1/N-00-130. Laboratory reports and investigations indicate that the problem is due to a raw material fault not identified by inspection.

C. Description

The installed bolt is inspected for cracks and replaced as required. All spares stock is inspected using magnetic particle inspection or returned to ASTA General Aviation.

D. Compliance

Inspect/replace within the next 300 hours TIS.

E. Approval

This Service Bulletin is approved pursuant to Civil Aviation Regulation 35 and complies with type certification requirements.

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F. Manpower

1 manhour to remove and replace bolt, 2 men required for duplicate inspection of controls.

G. Material - Price and Availability

Defective items replaced free of charge. Contact ASTA General Aviation for availability.

H. Tooling - Price and Availability

None required.

J. Weight and Balance

None

K. References

Maintenance Manual - Ch 27-40-05
Ch 27-40-06
Ch 55-20-00
Ch 55-30-00

Illustrated Parts Catalogue - Ch 27-40-02 Fig. 4.

L. Documents Affected

None

2. ACCOMPLISHMENT INSTRUCTIONS

A. Part A - Inspect fitted bolt

NOTE: Part A inspection not required when bolt P/N 1/N-00-130 Issue 4 is known to be fitted.

WARNING: Do not operate the flight controls with control components disconnected or when personnel are working in the area concerned. Serious injury to personnel or damage to flight control components and structure could occur.

1. Remove dorsal fin (Ref. Ch 55-30-00).



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2. Disconnect horizontal stabiliser control rod at the attachment fitting on the centre mass balance arm and the control rod bonding lead from the stabiliser (Ref Ch 27-40-05 and 27-40-06 Fig. 201).

NOTE: Do not alter the length of the adjustable control rod unless horizontal stabiliser control rigging is to be checked.

3. Remove and inspect bolt P/N 1/N-00-130 for visible longitudinal cracking along shank and head, and check for any part number identification.

NOTE: If bolt P/N 1/N-00-130 Issue 4 is found to be fitted, proceed to Step 6.

4. Carry out a magnetic particle inspection (where facilities exist) or return item to ASTA General Aviation.
5. Replace a defective item with bolt P/N 1/N-00-130 Issue 4. Return defective item complete with unserviceability tag and other relevant document references to ASTA General Aviation.
6. Connect horizontal stabiliser control rod to horizontal stabiliser and reconnect the bonding lead between the control rod and stabiliser (Ref. Ch 27-40-05).
7. Perform a duplicate inspection of subject flying controls.
8. Install dorsal fin (Ref. Ch 55-30-00).

B. Inspect Spares Stock

NOTE: Bolt, special P/N 1/N-00-130 Issue 4 is not affected by this service bulletin.

1. Return all stocks of bolt P/N 1/N-00-130 Issues 1, 2 and 3, or unmarked bolts, with all relevant document references to ASTA General Aviation.

OR

2. Carry out magnetic particle inspection (where facilities exist) on all stocks of bolt P/N 1/N-00-130 Issues 1, 2 and 3.



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3. All items which pass magnetic particle inspection shall be marked (in indelible ink) "1/N-00-130 ISS 4 (SB 55-28)" and returned to stock.
4. Return defective items to ASTA General Aviation with all relevant document references.

3. MATERIAL INFORMATION

None

4. SPECIAL TOOLS AND EQUIPMENT

5. RECORDING ACTION

Aircraft

Record Compliance with Service Bulletin NMD-55-28 in Airframe Log Book.

Spares

Mark serviceable items (in indelible ink) "1/N-00-130 ISS 4 (SB 55-28)" and return to stock.