

# Nomad

# SERVICE BULLETIN

## FLIGHT CONTROLS - TRIM CONTROL SCREW-JACK ASSEMBLIES - OVERHAUL LIFE

### 1. PLANNING INFORMATION

#### A. Effectivity

(1) Aircraft affected:

**N22 Series** line sequence numbers 1 to 9, 11 to 29, 31, 33, 35, 37, 39 to 41, 43, 45, 47 to 59, 61, 63, 65 to 70, 82 to 88, 90 to 95, 97, 100, 102 to 114, 116, 118, 125, 126, 131 to 134, 136 to 138, 141, 143 to 170.

**N24 Series** line sequence numbers 10, 30, 32, 34, 36, 38, 42, 44, 46, 60, 62, 64, 71 to 81, 89, 96, 98, 99, 101, 115, 117, 119 to 124, 127 to 130, 135, 139, 140, 142.

(2) Spares Affected

None

#### B. Reason

Investigations have indicated that the Horizontal Stabiliser Trim Control Screw-jack could freeze in service below  $-0^{\circ}\text{C}$ . This could be caused by wear, moisture ingress and corrosion over a long period of time. Therefore an overhaul life has been introduced to ensure that components are inspected, relubricated and the seals replaced at regular intervals, to prevent the possibility of such an occurrence.

#### C. Description

This Service Bulletin reviews the inspection and overhaul maintenance requirements for Screw-jack assemblies.

(a) Inspect / Overhaul of Horizontal Stabiliser Trim Control Screw-jack and Chain Assembly.

(b) Inspect / Overhaul of Rudder Trim Control Screw-jack and Chain Assemblies.

#### D. Compliance

(1) The compliance requirements of this Service Bulletin are mandatory.

(2) For aircraft with less than 8000 landings, Perform inspection / overhaul at or before 8000 landings and repeat every 8000 landings or 10 years whichever comes first thereafter.

(3) For aircraft with more than 8000 landings, Perform inspection / overhaul at or before the next 300 hr service or within 1 year following receipt of this service bulletin whichever comes first, and repeat every 8000 landings or 10 years whichever comes first thereafter.

Page No	1	2	3
Rev No	0	0	0

# NMD-27-49

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Page 1 of 3

# ***Nomad***

## SERVICE BULLETIN

### E. **Approval**

The requirement detailed herein has been approved by a person authorised under Civil Aviation Regulation 35 and conforms to the type certification requirements.

### F. **Manpower**

Approximately 8 manhours.

### G. **Material – Price and availability**

Parts required to incorporate this Service Bulletin are available upon request from Customer Services – Boeing Aircraft Systems - ASTA.

### H. **Tooling**

No special tooling required.

### I. **Weight and Balance Change**

None

### J. **References**

Inspection Requirements Manual.

Maintenance Manual      Chap 27-41-02, Chap 27-21-03.

Component Maintenance Manual      Chap 27-01-01.

### K. **Publications Affected**

Maintenance Manual N22/N24.

Component Maintenance Manual N22/N24.

## 2. **ACCOMPLISHMENT INSTRUCTIONS**

### **(A) Rudder Trim Control Screw-jack and Chain Assemblies.**

- (1) Gain access to the trim control screw-jack and chain assemblies as per Maintenance Manual Chap 27-21-03.
- (2) Inspect the trim control screw-jack and chain assemblies(Ref MM Chap 27-21-03).
- (3) Check the screw-jack assembly end play at the connection to the torque shaft. If the end play exceeds 0.010 inch or the component has reached the overhaul life (Ref Inspection Requirements Manual Part 3) replace or overhaul as per Component Maintenance Manual Chapter 27-01-01.
- (4) Renew unserviceable items (Ref MM Chap 27-21-03) and if necessary, grease the threads of the screw-jack with grease MIL-G-21164C (Aeroshell 17 or equivalent).
- (5) Refit screw-jack as per MM Chap 27-21-03.
- (6) Adjust rudder trim control system as per MM Chap 27-21-00.
- (7) Refit all items removed for access.

26 July 1999

# **NMD-27-49**

Page 2 of 3

# Nomad

## SERVICE BULLETIN

### (B) Horizontal Stabiliser Trim Control Screw-jack and Chain Assembly.

- (1) Gain access to the trim control screw-jack and chain assemblies as per Maintenance Manual Chap 27-41-02.
- (2) Inspect the trim control screw-jack and chain assemblies(Ref MM Chap 27-41-02).
- (3) Check the screw-jack assembly end play at the connection to the torque shaft. If the end play exceeds 0.010 inch or the component has reached the overhaul life (Ref Inspection Requirements Manual) replace or overhaul as per Component Maintenance Manual 27-01-01.
- (4) Renew unserviceable items (Ref MM Chap 27-41-02) and if necessary, grease the threads of the screw-jack with grease MIL-G-21164C (Aeroshell 17 or equivalent).
- (5) Refit screw-jack as per MM Chap 27-41-02.
- (6) Adjust horizontal stabiliser trim control system as per MM Chap 27-41-00.
- (7) Refit all items removed for access.

### (3) MATERIALS INFORMATION

#### A. Parts required per Assembly

New Part No	Description	Instruction/Disposition
1/N-45-21	Screw-jack Assy	Replace or Overhaul
1/N-45-24	Screw Shaft	Inspect/Renew
1/N-45-25	Body	Inspect/Renew
1/N-45-26	Base	Inspect/Renew
1/N-45-27	Special Bolt	Inspect/Renew
DW-4K2	Bearing	Renew
10950 (FLAVELL) or 10121 SECT Z138 (CR INDUSTRIES)	Oil Seal	Renew
2300-16 (Alt) 1300-5/8 (ANDERTON) or SB-16 (SEEGAR)	Circlip	Renew

#### B. Materials required from local sources

Obtain the following from local sources:

Grease Mil-G-21164C (Aeroshell 17 or equivalent)

### (4) SPECIAL TOOLS AND EQUIPMENT

None

### (5) RECORDING ACTION

Record compliance with Service Bulletin NMD-27-49 in the Airframe Log Book.

# NMD-27-49

26 July 1999

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Page 3 of 3