

# **Nomad**

# SERVICE BULLETIN

## **FLIGHT CONTROLS - AILERON SYSTEM - REPLACEMENT OF CHAINS AT CONTROL COLUMN AND AT AILERON SPROCKET SHAFT STA. 95.40. MODIFICATION NO. N6**

### 1. **PLANNING INFORMATION**

#### A. **Effectivity**

Nomad N22

Serial No. N22-1 and N22-4.

Factory action covers all other aircraft.

#### B. **Reason**

It is possible that Aileron control chains fitted to early production aircraft may contain intermediate link joints which have been hand riveted. A small number of chains have been supplied to us with this condition as a result of joining of short chain lengths. It is essential that all chain links should be machine riveted, hence it is considered that the condition should be rectified. All chains are new inspected to ensure that machine rivetted joints are used throughout and an improved end link attachment is now in use.

#### C. **Description**

This Service Bulletin requests the removal of chains in the Aileron Control System and their replacement by new chains having machine riveted joints throughout.

Replacement chains will be supplied free of charge by GAF, and the chains removed from aircraft are to be returned to GAF for examination.

#### D. **Compliance**

Recommended before next 100 hours inspection.

#### E. **Manpower**

Approximately 2 manhours are required to incorporate this modification.

#### F. **Material, Price and Availability**

Replacement chains will be supplied by GAF at nil cost.

#### G. **Weight and Balance**

Not Affected.

#### H. **Publications Affected**

Nil.

Page No	1	2	3
Rev No	0	0	0

# **Nomad**

## SERVICE BULLETIN

### I. **References**

N22 Maintenance Manual Chap 27 Figure 201 sheet 1 & 2.

### 2. **ACCOMPLISHMENT INSTRUCTIONS**

#### A. **Removal of following panels:**

- (1) Pilots control column guard (Port and Stbd.) 1/N-10-737.
- (2) Port Avionics bay trim panel 1/N-18-229.
- (3) Centre fuse trim panels, Port side between stations 182.55 and 228.31, 1/N-18-252, 1/N-18-225.
- (4) Head lining panel between stations 212.97 and 228.31, 1C/N-18-10.
- (5) Insert rigging Pin 1/N-88-83 in cable drum shaft at station 95.40 Port Side.
- (6) Release turnbuckles at Port and Stbd, control columns and remove chains PN 1/N-45-1330 two off.
- (7) Slacken turnbuckles on Aileron Cables overhead and on Port Side just aft of Station 212.97.
- (8) In Port Avionics bay, remove nuts, washers and bolts from chain, 1/N-45-485.
- (9) Feed chain forward through bulkhead and remove from sprocket on Cable Drum Shaft.

#### B. **Installation of Replacement Chains in Aileron Circuit.**

- (1) With cable drum shaft pinned at Station 95.40 Port Side, position chain PN 2/N-45-1330 (2 off) equally about sprocket at top of Port and Starboard Control columns. (Refer Chap 27-10-00 fig 201 sheet 2).
- (2) Lock control wheel in neutral position (lugging Bar 1/N-88-99) and connect cable turnbuckles to chain 2/N-45-1330 Port and Starboard and tension to requirements of Chap 27-00-00 fig 201. Lock Turnbuckles.
- (3) Position chain 2/N-45-485 equally around sprocket on cable drum shaft and feed chain aft through bulkhead.
- (4) Insert rigging pin 1/N-88-83 in mechanical stop lever in each wing (Chap 27-10-06 fig 201 Sheet 1).
- (5) Connect chain assembly 2/N-45-485 to Aileron primary cables 1/N-45-1277 and 1/N-45-1280.
- (6) Tension cables to requirements of Chap 27-00-00 fig 201 and Lock Turnbuckles.
- (7) Remove all rigging pins.
- (8) Check rigging of Ailerons (Chap 27-10-00).
- (9) Replace pilots control column guards Port and Starboard.
- (10) Replace all trim panels removed for access.

# ***Nomad***

## SERVICE BULLETIN

### 3. MATERIAL INFORMATION

#### A. Parts Required per Aircraft

New Part No	Qty	Description
2/N-45-1330	2	Control Column Chain
2/N-45-485	1	Chain Assy

The above items will be supplied free of charge.

#### B. Removed Items

The removed chains are to be returned to the Government Aircraft Factory, Lorimer Street, Port Melbourne, Victoria, Australia.