

ALERT SERVICE BULLETIN

SUBJECT: WING FUEL SYSTEM - OUTBOARD FUEL TANK SUMP - INSPECTION OF MOULDED HOSES FOR DEFECTS

1. Planning Information:A. Effectivity:(1) Aircraft Affected:Nomad N22 Series Aircraft:

N22-2, N22-3M, N22-4, N22B-5M, N22B-6M, N22B-7, N22-8M, N22-9M, N22B-11M, N22B-12M, N22B-13M, N22B-15M, N22B-16M, N22-17M, N22B-18M, N22B-19M, N22B-20M, N22B-21M, N22B-22M, N22B-23M, N22B-24M, N22B-25, N22B-26, N22B-27, N22B-31M, N22B-37, N22B-39, N22B-40M, N22B-41M, N22-43M, N22-45M, N22-47M, N22-48M, N22-49M, N22B-50, N22-51M, N22B-52M, N22B-53, N22B-54M, N22B-55, N22B-56, N22B-57, N22B-58, N22B-59, N22B-61, N22-63M, N22-65M, N22B-66, N22B-67M, N22B-68, N22B-69, N22B-70, N22S-82, N22S-84, N22S-86, N22S-87, N22B-88M, N22S-90, N22B-91M, N22S-92, N22B-95, N22B-97M, N22B-100M.

Nomad N24 Series Aircraft:

N24-30, N24-32, N24-34, N24-36, N24-38, N24A-42, N24A-44, N24A-46, N24-60, N24A-62, N24A-64, N24A-71, N24A-72, N24A-73, N24A-74, N24A-75.

Affected aircraft other than those listed above will be modified prior to delivery or included in a subsequent revision to this Service Bulletin.

(2) Spares Affected:

<u>Part Number</u>	<u>Nomenclature</u>	<u>Recommended Disposition</u>
1/N-57-173	Sump Assembly	Inspect In Accordance with Accomplishment Instructions
2/N-57-173	Sump Assembly	Inspect In Accordance with Accomplishment Instructions
1/N-57-174	Sump Assembly	Inspect In Accordance with Accomplishment Instructions

2/N-57-174

Sump Assembly

Inspect In Accordance with
Accomplishment Instructions

1/N-57-206

Inlet Hose

Inspect In Accordance with
Accomplishment Instructions

B. Reason

Hoses have been found at Government Aircraft Factories with Moulding faults.

C. Description

This Alert Service Bulletin requires an internal and external inspection of the fuel tank interconnect moulded hoses located in rear of engine nacelle.

D. Compliance

With 200 hours time in service after receipt of this Alert Service Bulletin.

E. Approval

The inspection described herein has been approved under Regulation 40 by the authorised Design Signatory at Government Aircraft Factories as so authorised by the Secretary to the Department of Transport (Australia) and conforms with the type certification requirements.

F. Manpower

One man, approximately 4 hours.

G. Material - Price and Availability

None.

H. Tooling - Price and Availability

None.

I. Weight and Balance

Not affected.

J. References

Maintenance Manual chapter 28.10.00.
Illustrated Parts Catalogue chapter 28.10.01.

K. Publications Affected

None.

2. Accomplishment Instructions:

Warning:

TO AVOID INJURY TO PERSONNEL OR DAMAGE TO EQUIPMENT, ENSURE ADEQUATE PRECAUTIONS ARE TAKEN WHILE PERFORMING ANY WORK IF ELECTRICAL POWER IS APPLIED TO THE AIRCRAFT.

Caution:

Electrically ground the aircraft.

- (a) Drain fuel tanks (Ref. Maintenance Manual Chapter 12-10-00).
- (b) Remove nacelle rear fairing (Ref I.P.C. 71-00-00 fig. 1, item 2).
- (c) (Ref I.P.C. 28-10-01 fig. 2, page 0).
Slacken hose clamps item 1B (4 off each side) and remove both fuel transfer pipes items 41, 42 and 33 as an assembly.
- (d) Visually inspect inside of the moulded rubber hoses (Items 17 and hoses protruding from sump assembly item 8) for moulding defects i.e. gapping adjacent to external mould flash line. During inspection depress hose by hand along external mould line. This will highlight any moulding defects.
- (e) Hoses with no defects may remain in service.
- (f) Defective hoses within the following limits may remain in service for a maximum of 6 months after the initial inspection providing:
 - (1) Hose exhibits no signs of leaks or weeping.
 - (2) Hose is visually inspected for signs of leaks every 100 flying hours until replaced.
 - (3) Gapping does not exceed 0.5 inches in length and 0.1 inches (2/3 of wall thickness).
 - (4) Gapping over .5 inches in length, depth does not exceed 0.075 inches (1/2 wall thickness).
- (g) Hoses with defects exceeding limits in paragraph f. are to be replaced before further flight.

Note: The above defects have a similar appearance to sharp edged hairline cracks and should not be confused with minor smooth surface imperfections.

- (h) Refit fuel transfer pipes, tighten hose clamps.
- (i) Replenish fuel tanks and check fuel transfer pipes/hoses for leaks.
- (j) Replace nacelle fairing.

Recording Action

Record compliance of this Alert Service Bulletin in Airframe Log Book.

3. Material Information

A. Parts Required per Aircraft:

None.

B. Parts Required to Modify Spares:

None.

C. Parts Removed:

None.

D. Special Tools and Equipment Required:

None.

APPROVED BY:

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GOVERNMENT AIRCRAFT FACTORIES.