

Nomad ALERT SERVICE BULLETIN

Transmittal Letter Reference No. 189

SERVICE BULLETIN NO: ANMD-52-11

DATED: 16th January, 1990

TITLE: Doors - Cockpit and Cabin Door Handles
Inspection/Modification

REVISION NO:

DATE:

ACTION: Insert this Service Bulletin into your SB publication and
annotate your index with: Reference No.; S.B. No.; Issue date;
Subject.

REMARKS: Initial issue.

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DOORS - COCKPIT AND CABIN DOOR

HANDLES - INSPECTION/MODIFICATION

1. PLANNING INFORMATION

A. Effectivity

All N22 and N24 aircraft whose log books do not already record compliance with Service Bulletin ANMD-52-11.

B. Reason

Failures have been reported of the door handle retaining spring pin, in the outer cockpit door handle and the inner cabin door handles. Failure of the spring pin leads to wear of the handle on its shaft, and eventual free rotation of the handle on its shaft, preventing door operation.

C. Description

Part 1: Handle retaining spring pins are inspected for serviceability and a limit for handle free play on the shaft is provided.

Part 2: The spring pin diameter is increased from .062" diameter to .078" diameter, and a .094" diameter spring pin is offered as an oversize.

The handle is fitted onto its shaft with brass shims, and aluminium filled epoxy to fill any gaps.

D. Compliance

Part 1: Within 100 hours time in service and thereafter at intervals not exceeding 100 hours time in service until Part 2 is accomplished.

Part 2: On or before 31th December, 1990.

E. Approval

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

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F. Manpower

Part 1: Inspection : 1 man, 1/2 manhour
Part 2: Modification: 1 man, 1 manhour

G. Material - Price and Availability

Material can be obtained from local sources and/or from ASTA Spares Group on request.

H. Tooling - Price and Availability

None required.

I. Weight and Balance

None.

J. References

Illustrated Parts Catalogue Ch 52-10-01
52-15-01
52-15-02

K. Publications Affected

Illustrated Parts Catalogue Ch 52-10-01
52-15-01
52-15-02
Inspection Requirements Manual - Schedules
Maintenance Manual 52-10-00

2. ACCOMPLISHMENT INSTRUCTIONS

PART 1: Inspection

- 1A. Refer to IPC 52-15-01 Fig. 1 Sheet 2 and 52-15-02 Fig. 1 Sheet 2 cabin interior and exterior door handles for the presence of serviceable spring pins (items 18A and 19A respectively)
- 1B. Using a measuring tape held at the handle end, move each handle up and down and measure the extent of free play of the handle on its shaft.
MAXIMUM ALLOWABLE PLAY: \pm .100 inch.
- 1C. Repeat 1A & B for cockpit door external door handles.
- 1D. Part 2 of this Service Bulletin is to be performed on all handles with movement in excess of \pm .100 inch before further flight.

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PART 2: Modification

- 2A. Remove spring pin P/N MS16562-9 and machine screw P/N NAS1100-08-8, and remove handle from door.
- 2B. Enlarge spring pin hole diameter to .081/.078 in. dia. If the hole is already worn to in excess of this diameter, enlarge the hole diameter to .097/.094 in. dia.
- 2C. Offer handle to shaft and select brass shim P/N MIL-S-22499 Type 1 as required to eliminate loose fit of handle.
- 2D. Degrease handle recess and shims using white spirit.
- 2E. Install shims and fill handle shaft recess with aluminium filled epoxy to eliminate any gaps, and place handle on shaft. Remove excess epoxy and allow to partially cure before proceeding (per manufacturers instructions).
- 2F. Install replacement spring pin P/N MS16562-18 (.078 in. dia. hole), or P/N MS16562-28 (.094 in. dia. hole). File spring pin flush on both sides of handle. Install machine screw P/N NAS1100-08-8 using Loctite 222 Screw lock.

NOTE: If necessary, reduce length of machine screw to clear spring pin.

3. MATERIAL INFORMATION

Per aircraft

<u>New P/N</u>	<u>Qty</u>	<u>Name</u>	<u>Old P/N</u>	<u>Instructions/ Disposition</u>
MS16562-18	5	Pin-Spring	MS16562-9	
or MS16562-28	AR	Pin-Spring	MS16562-9	(o/size)
DEVCON F.	AR	Epoxy-Aluminium filled		(or Metalset A4 or equivalent)

4. RECORDING ACTION

Record compliance with Service Bulletin ANMD-52-11 Part 1 or 2 (as appropriate) in the aircraft log book.