

FOR PLANNING PURPOSES

SERVICE BULLETIN

SERVICE BULLETIN NO: 21-002

REF. NO: 044

MODIFICATION NO: 96 0759

ATA CHAPTER: 21

REVISED DUCTING FOR THE AUXILIARY HEATING SYSTEM AIR DISTRIBUTION

1. Planning Information

A. Effectivity

- (1) All aircraft up to and including MSN 179, except MSN 151.
- (2) This Service Bulletin is incorporated prior to delivery on aircraft MSN 151 and MSN 180 and subsequent.

B. Reason

Product improvement to increase the air temperature in the flight and passenger compartments.

C. Description

Accomplishment of this Service Bulletin consists of completing the following tasks:

- (1) Removal of the pre-modification heating hoses.
- (2) Exchange of the high-temperature cut-out-switch of the heating fans.
- (3) Installation and re-routing of the post-modification heating hoses.
- (4) Installation of additional insulation along the lower side walls of the passenger compartment, around the entrance doors and inside the cargo door.
- (5) Modification of the temperature sensor for the passenger compartment.
- (6) Modification of the cargo door's lower panel.
- (7) Operational test of the thermal cut-out for the fan heaters.

NOTE: SB 24-007 which installs two more circuit breakers in the heater wiring circuits, should be incorporated at the same time as this Service Bulletin.

NOTE: SB 21-003 which modifies the control valves and ducts in the engine compartment, should be considered for incorporation at the same time as this Service Bulletin.

D. Compliance

Optional.

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E. Approval

The technical aspects of this Service Bulletin have been approved by the Federal Office for Civil Aviation (FOCA) of Switzerland.

NOTE: PILATUS advises Operators/Owners to check with their local Airworthiness Authorities for any changes, local regulations or sanctions that may affect the embodiment of this Service Bulletin.

F. Manpower

Task	Man-hours
Preparation	15.0
Modifications to Aux. Heaters and Hoses	8.0
Functional Test	2.0
Close-up	15.0
TOTAL MAN-HOURS	40.0

NOTE: Man-hour figures are calculated for units installed in the aircraft and represent the total time estimated for the tasks.

G. Material - Cost and Availability

(1) Material

Operators should contact their authorized PILATUS SERVICE CENTER for these Service Bulletin modification kits or contact the following for further information:

PILATUS AIRCRAFT LTD.
CUSTOMER LIAISON MANAGER,
CH-6371 STANS,
SWITZERLAND.

Tel No: + 41 41-6196 509
Fax No: + 41 41-6103 351

NOTE: Operators are requested to advise Pilatus Aircraft Ltd. of the Manufacturer's Serial Number (MSN) and the flying hours of the aircraft which are allocated for this Service Bulletin, Service Bulletin Evaluation form.

(2) Cost and Availability

H. Tooling

None.

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I. Weight and Balance

For Aircraft 101 thru 120: Weight Increase +2.890 lb. (+1.31 Kg), Arm 238.343 in. (6.054 m),
Moment 688.380 lb.-in. (7.931 kg-m).

For Aircraft 121 thru 140: Weight increase +2.823 lb. (+1.281 Kg), Arm 239.849 in. (6.092 m),
Moment 677.168 lb.-in. (7.802 kg-m).

For Aircraft 141 thru 179: Weight increase +1.165 lb. (+0.528 Kg), Arm 238.530 in. (6.059 m),
Moment 277.869 lb.-in. (3.201 kg-m).

J. References:

Aircraft Maintenance Manual (AMM), Chapters 06-20-00, 21-40-09, 25-10-01, 25-10-03,
25-10-04, 25-21-01, 25-21-04, 25-21-05, 25-21-06, 25-21-07, 25-22-01 and 25-22-04.

Pilot's Operating Handbook (Section 6).

Service Bulletins SB 21-003 and 27-007.

K. Publications Affected

Illustrated Parts Catalog (IPC), Chapter 21-20-00.

Aircraft Maintenance Manual (AMM), Chapters 21-40-09, 71-00-00 and 21-40-09.

Pilot's Operating Handbook, Section 6.