

SERVICE BULLETIN

SERVICE BULLETIN NO: 30-011

REF NO: 216

MODIFICATION NO: ECN 99-0310, EC 08-0388

ATA CHAPTER: 30

ICE AND RAIN PROTECTION - AIRFOIL DEICE SYSTEM INSTALLATION OF AN OVERBOARD VENT FOR THE PRESSURE REGULATOR

1. Planning Information

A. Effectivity:

All PC-12 and PC-12/45 aircraft from MSN 101 up to and including MSN 320.

B. Concurrent Requirements

None.

C. Reason

(1) Problem

If incorrectly adjusted, or defective, the Deice Pressure Regulator can vent hot air into the forward compartment. This can cause heat damage to the cables and components in the compartment.

(2) Solution

Install a flange and scoop in the aircraft skin to vent the hot air from the Deice Pressure Regulator overboard.

D. Description

This Service Bulletin gives the data and instructions necessary to install a flange and scoop in the aircraft skin to align with the vent stub-pipe of the Deice Pressure Regulator.

E. Compliance

Mandatory.

Within 6 months of the issue date of this Service Bulletin.

F. Approval

The technical content of this Service Bulletin is approved under the authority of DOA No. EASA. 21J. 357.

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.

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G. Manpower

	Man-hours
Modification	2.0
TOTAL MAN-HOURS	2.0

H. Weight and Balance

(1) Weight Change

Not affected.

(2) Moment Change

Not affected.

I. Electrical Load Data

Not applicable.

J. Software

Not changed.

K. References

Aircraft Maintenance Manual (AMM): 12-A-20-31-00A-070A-A, 12-A-30-10-01-001A-920A-A.

L. Publications Affected

Not applicable.

M. Interchangeability of Parts

Not applicable.

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2. Material Information

A. Material - Price and Availability

Operators should send orders for Service Bulletin Modification Kits, to their Authorized Pilatus Service Center or:

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

General Aviation:
Tel: + 41 41 619 6208
Fax: + 41 41 619 7311
eMail: SupportPC12@pilatus-aircraft.com

PILATUS BUSINESS AIRCRAFT LTD.,
PRODUCT SUPPORT DEPARTMENT
11755 AIRPORT WAY
BROOMFIELD, CO 80021.
UNITED STATES OF AMERICA

Tel: 303 465 9099
Fax: 303 465 6040
eMail: Productsupport@PilBal.com

PILATUS AUSTRALIA (PTY.) LTD,
17 JAMES SCHOFIELD DRIVE,
ADELAIDE AIRPORT SA 5950,
AUSTRALIA

Tel: (08) 8234 4433
Fax: (08) 8234 4499
Free Call: 1800 445 007
eMail: info@pilatus.com.au

Operators are requested to advise Pilatus Aircraft Ltd, of the Manufacturer's Serial Number (MSN) and the flying hours of aircraft which are affected by this Service Bulletin.

Modification Kit Number	Price	Availability
500.50.12.332	Contact address above	Contact address above

B. Warranty

Credit will be issued for all affected aircraft on approval of a warranty claim, provided the work is accomplished by an authorized service center, and the modification is done within 6 months of the issue date of this Service Bulletin.

C. Material Necessary for Each Aircraft

(1) Material to be Procured

Modification Kit No. 500.50.12.332 consists of these parts:

New Part No.	Description	Old Part No.	Qty	Disp. Code	Fig	Item
553.14.12.647	Flange	-	1	-	1	1
553.30.09.199	Scoop	-	1	-	1	3
939.27.81.353	Rivet, NAS1097AD3-3-5	-	5	-	1	4, 6
939.27.81.354	Rivet, NAS1097AD3-4-5	-	3	-	1	5

Disposition Codes: D - Discard / R - Return to Pilatus

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(2) Operator Supplied Materials (Ref. AMM 12-A-20-31-00A-070A-A).

Material No.	Description	Qty	Remarks
P01-008	Solvent	A/R	
P02-031	Absorbent paper	A/R	
P07-001	CCC solution	A/R	
P08-018	Sealant	A/R	

D. Material Necessary for Each Spare

Not applicable.

E. Reidentified Parts

Not Applicable.

F. Tooling - Cost and Availability

Not Applicable.

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3. Accomplishment Instructions

A. Modification (Ref. Fig. 1)

WARNING: BE CAREFUL WHEN YOU USE THE CONSUMABLE MATERIALS. OBEY THE MANUFACTURER'S HEALTH AND SAFETY INSTRUCTIONS.

- (1) Loosen, but do not remove, the four bolts that attach the pressure regulator assembly to the structure (Ref. AMM 12-A-30-10-01-001A-920A-A).
- (2) Carefully lift the pressure regulator assembly until you can put the flange (1) (P/N 553.14.12.647) in the installed position.
- (3) Tighten the four bolts that attach the pressure regulator assembly to the structure.
- (4) Move the flange (1) to get the vent stub-pipe of the pressure regulator in the center of the vent tube on the flange (1). The five rivet holes in the flange (1) must face aft and the straight edge must face forwards.
- (5) Make marks on the fuselage skin through the rivet holes in the flange (1).
- (6) Loosen, but do not remove, the four bolts that attach the pressure regulator assembly to the structure.
- (7) Carefully lift the pressure regulator assembly until you can remove the flange (1).
- (8) Drill 2,5 mm (0.1 in.) holes at the positions marked in Step (5).
- (9) Carefully lift the pressure regulator assembly until you can put the flange (1) in the installed position.
- (10) Put the scoop (3) (P/N 553.30.09.199) in position on the outside of the skin (2). The open end of the scoop (3) must face aft. Align the two aft holes in the scoop (3) with the two forward holes drilled in Step (8).
- (11) Install gripper pins to hold the flange (1) and the scoop (3) in position on the skin (2).
- (12) Drill 2,5 mm (0.1 in.) holes through the holes in the scoop (3).
NOTE: The holes for the four rivets (5) go through the skin (2) and the flange (1). The hole for the rivet (4) goes through the skin (2) only.
- (13) Remove the gripper pins, and the scoop (3).
- (14) Carefully lift the pressure regulator assembly until you can remove the flange (1).
- (15) Find the center of the vent hole position (Ref. Fig. 1, Sheet 2):
 - (a) Make a line on the fuselage skin (2) between the opposite rivet holes X-X.
 - (b) Make a line on the fuselage skin (2) between the opposite rivet holes Y-Y.
 - (c) The point where the lines cross is the center of the vent hole position.
- (16) Make a 23 mm (0.90 in.) hole through the aircraft skin at the marked vent hole position.
- (17) Deburr the holes as necessary.


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- (18) Apply CCC solution (Material No. P07-001) to the edges of the rivet holes and the vent hole.
- (19) Install the flange (1):
 - (a) Apply a layer of sealant (Material No. P08-018) to the mating surface of the flange (1).
 - (b) Carefully lift the pressure regulator assembly until you can put the flange (1) in the installed position.
 - (c) Install the three rivets (6) (P/N 939.27.81.354).
- (20) Install the scoop (3):
 - (a) Apply a layer of sealant (Material No. P08-018) to the mating surface of the scoop (3).
 - (b) Install the four rivets (5) (P/N 939.27.81.353) through the scoop (3), skin (2) and flange (1).
 - (c) Install the rivet (4) (P/N 939.27.81.353) through the scoop (3) and skin (2).
- (21) Use absorbent paper (Material No. P02-031) and solvent (Material No. P01-008) to remove unwanted sealant.
- (22) Tighten the four bolts that attach the pressure regulator assembly to the structure.
- (23) If necessary, apply paint to the scoop (3) to match the aircraft color scheme.

B. Documentation

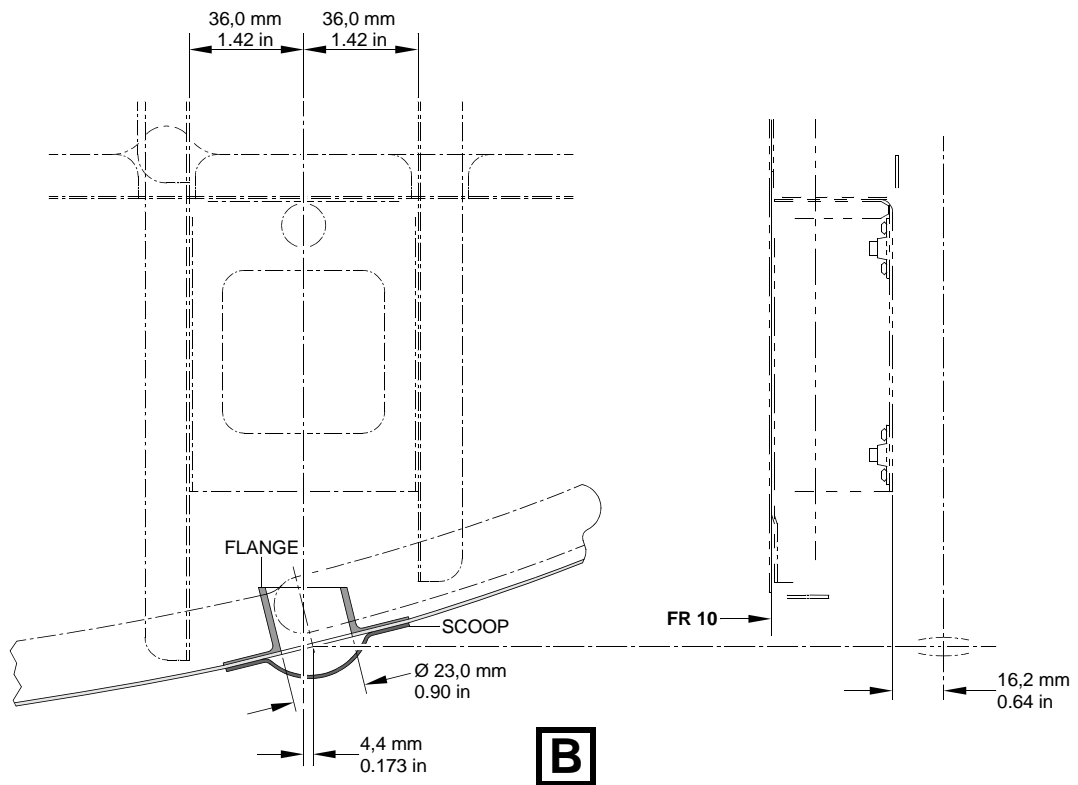
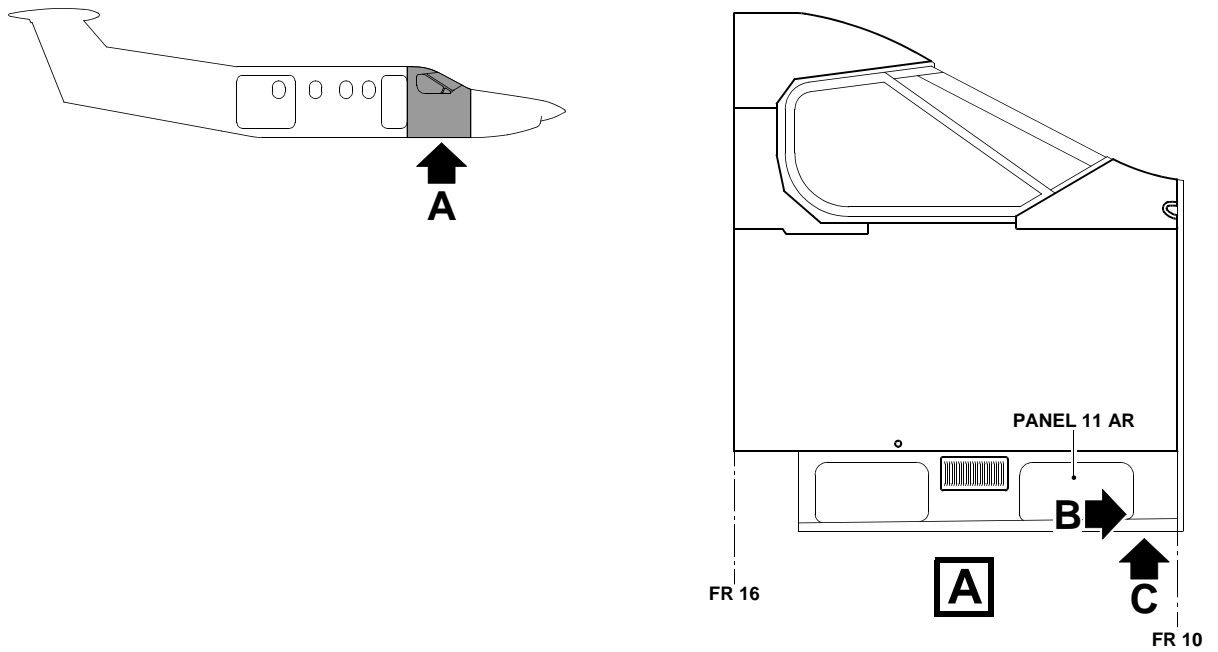
Make an entry in the Aircraft Logbook that this Service Bulletin has been incorporated.



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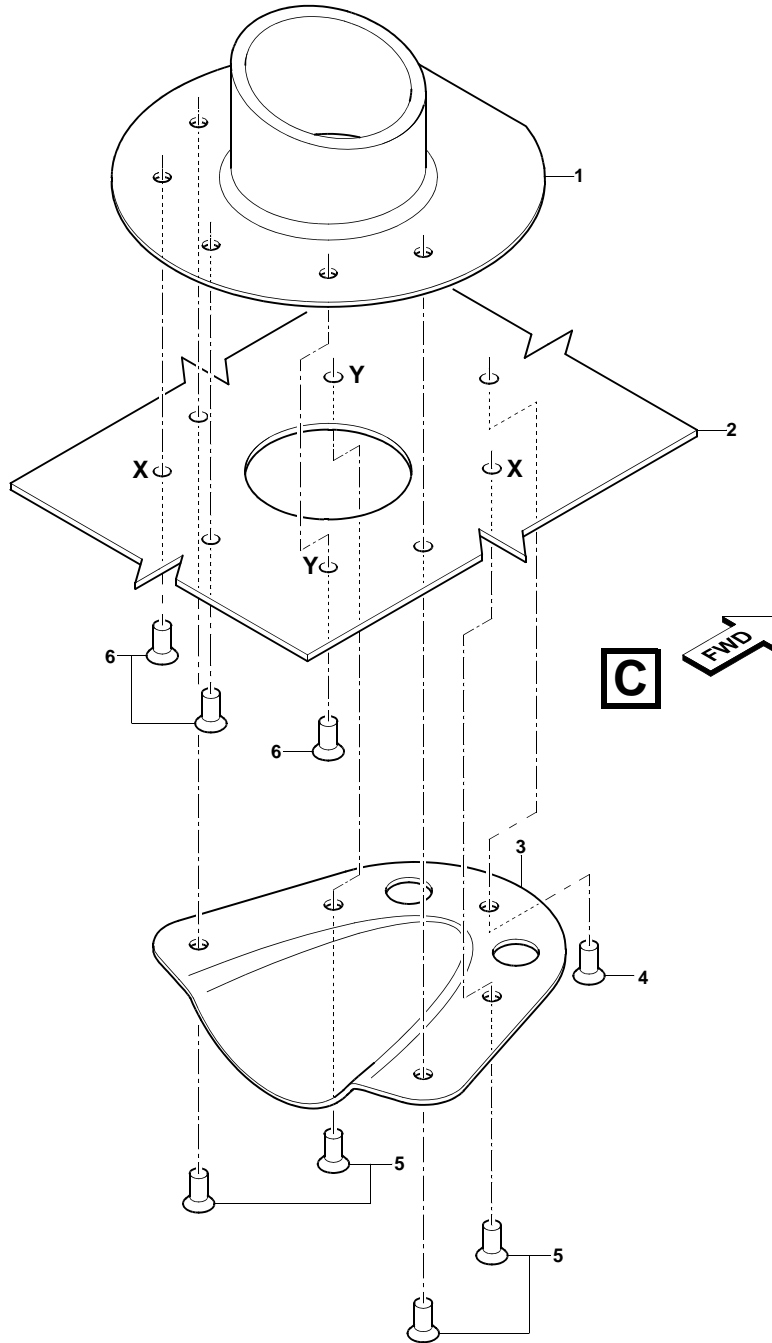
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Overboard Vent - Installation
 Figure 1 (Sheet 1 of 2)

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Overboard Vent - Installation
Figure 1 (Sheet 2 of 2)

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