

Service Bulletin No: 24-008
Modification No: Inspection

Ref No: 147
ATA Chapter: 24

**ELECTRICAL POWER - GENERAL
INSPECTION FOR CHAFING OF THE ELECTRICAL WIRES BELOW PANEL F5**

1. Planning Information

A. Effectivity

MSNs 101 thru 537, MSNs 548 thru 609 and MSNs 613 thru 618.

NOTE: It is not necessary for operators that have already embodied this Service Bulletin at the initial issue to do this Service Bulletin again.

NOTE: Config. 1 aircraft - MSNs 320 thru 349.

NOTE: Config. 2 aircraft - MSNs 101 thru 319, MSNs 350 thru 537, MSNs 548 thru 609 and MSNs 613 thru 618.

B. Concurrent Requirements

None.

C. Reason

(1) Problem

An Operator has reported chafing of the wiring loom installed below the access panel F5.

(2) Cause

Investigation has shown that although there is sufficient clearance between the wiring loom and the components installed below the access panel F5 on new build aircraft, wire looms can be moved when components installed in the front instrument panel are removed and re-installed during maintenance. As a result of this, wiring looms can come into contact with other equipment and chafing damage to the wiring looms can result.

(3) Solution

Do an Inspection of:

- The wires below the access panel F5
- The metal clips on the demist hoses to make sure they are not in contact with wiring looms.

D. Description

This Service Bulletin gives the data and instructions necessary to:

- (1) Do an Inspection of the wires below the access panel F5.
- (2) If necessary, repair or replace damaged wires.

- (3) If necessary, install a protective sleeve on the wires.
- (4) Do a visual inspection of the metal clips on the demist hoses.
- (5) If necessary, adjust the orientation of the clips.
- (6) Report all findings to Pilatus.

Revision No. 1 of this Service Bulletin is issued to extend the effectivity of this Service Bulletin and to include additional criteria to the inspection requirement in Para. 3.B.(1).

Revision No. 2 of this Service Bulletin is issued to add Config. 1 and Config. 2 effectivity to enable provision for the addition of ATA 100 AMM references in the Service Bulletin.

E. Compliance

Mandatory.

Accomplishment required not later than 120 days after the effective date of this Service Bulletin.

F. Approval

The technical content of this Service Bulletin is approved under the authority of Pilatus Aircraft Ltd.

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

G. Copyright Information

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H. Manpower

	Man-Hours Inspection	Man-Hours Repair Wire(s) (Per Wire)	Man-Hours Replace Wire(s) (Per Wire)
Preparation	1.0		
Do an Inspection of the wires below the access panel F5.	1.0		
If necessary, repair damaged wires (per wire).		0.5	
If necessary, replace damaged wires (per wire).			4.0
If necessary, install a protective sleeve on the wires.		1.0	
Do a visual inspection of the metal clips on the demist hoses.	0.5		
If necessary, adjust the orientation of the clips.	0.5		
Report all findings to Pilatus.	1.0		
Close up	1.0		
TOTAL MAN-HOURS	5.0	1.5	4.0

I. Weight and Balance

(1) Weight Change

Negligible.

(2) Moment Change

Negligible.

J. Electrical Load Data

Not changed.

K. Software

Not changed.

L. References

For Config. 1 aircraft:

Aircraft Maintenance Manual (AMM): P2-A-06-40-00-00A-055A-A, P2-A-20-31-00-00A-070A-A.

For Config. 2 aircraft:

AMM: 12-00-00, 20-31-00.

M. Publications Affected

None.

N. Interchangeability of Parts

Not applicable.

2. Material Information**A. Material**

No modification kit is necessary to do this Service Bulletin.

Operators who require further information on Price and Availability should contact their Customer Liaison Manager at:

Pilatus Aircraft Ltd,
6371 Stans,
Switzerland.

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

B. Material Necessary for Each Aircraft**(1) Material to be Procured**

If necessary, you will need this part to accomplish this Service Bulletin:

NEW PART NO.	DESCRIPTION	OLD PART NO.	QTY
917.96.92.154	PROTECTION SLEEVE		1 M

NOTE: The protection sleeve (P/N 917.96.92.154) is only necessary if you find chafed wires during the inspection (Ref. Para 3.B.(3)).

(2) Operator Supplied Materials

For Config. 1 aircraft, Ref. AMM P2-A-20-31-00-00A-070A-A.

For Config. 2 aircraft, Ref. AMM 20-31-00-00.

MATERIAL NO.	DESCRIPTION	QTY	REMARKS
P09-005	CABLE TIE	A/R	
P09-008	CABLE TIE	A/R	
P09-014	CABLE TIE	A/R	

C. Material Necessary for Each Spare

None.

D. Re-identified Parts

None.

E. Tooling - Cost and Availability

Not applicable.

3. Accomplishment Instructions**A. Preparation**

For Config. 1 aircraft:

Remove the access panel F5 (Ref. AMM, P2-A-06-40-00-00A-055A-A).

For Config. 2 aircraft:

Remove the access panel F5 (Ref. AMM, 12-00-00).

B. Inspection

- (1) Do a visual inspection of all the wires below the panel F5 for signs of chafing and contact with the casings of the Line Replacement Units (LRUs), panel edges and/or Environmental Control System (ECS) hoses.
- (2) If you find signs of chafing and you can see the bare wires under the insulation, replace the wire(s). If necessary, contact Pilatus for more information.
- (3) If you find signs of chafing but you cannot see bare wires under the insulation:
 - (a) Cut a piece of the protection sleeve (P/N 917.96.92.154) long enough to cover the chafed wires plus an additional 25 mm (1 in.) at each end.
 - (b) Remove the cable ties as necessary in the length of the chafed wires.
 - (c) Put the protection sleeve (P/N 917.96.92.154) in position around the affected cable loom. Make sure there are no cable ties beneath the protection sleeve (P/N 917.96.92.154).
 - (d) Wrap the protection sleeve (P/N 917.96.92.154) around the wires in the affected cable loom and keep it in position with the cable ties (Material No. P09-005, Material No. P09-008, and / or Material No. P09-014).
 - (e) Make sure the ends of the cable ties (Material No. P09-005, Material No. P09-008, and / or Material No. P09-014) cannot cause damage to the adjacent wires and cables.
- (4) Do a visual inspection of the metal clips on the demist hoses to make sure they are not in contact with the wiring looms.
- (5) If you find signs of contact with the wiring looms, adjust the orientation of the clips to put their sharp edges away from the wiring loom.
- (6) Report your findings to Pilatus.

C. Job Close-Up

- (1) Remove all equipment, materials and tools from the work area. Make sure that the work area is clean.

(2) Install the access panel F5:

- For Config. 1 aircraft (Ref. AMM, P2-A-06-40-00-00A-055A-A)
- For Config. 2 aircraft (Ref. AMM, 12-00-00).

D. Documentation

- (1) Make an entry in the Aircraft Logbook that this Service Bulletin has been incorporated.
- (2) Use the Service Bulletin Evaluation Sheet and report your results and the serial number of the aircraft to PILATUS.

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SERVICE BULLETIN EVALUATION SHEET FOR SB No. 24-008			
Title	Electrical Power - General Inspection for Chafing of the Electrical Wires Below Panel F5		
Customer			
Service Center			
EMBODIMENT REPORTING			
This SB has been embodied:		<input type="checkbox"/>	On the entire fleet
		<input type="checkbox"/>	Only partially
Provide embodiment details per aircraft (use additional copies of this table, if necessary)			
MSN	Flying Hours	MSN	Flying Hours
Additional embodiment comments/findings			
EDITORIAL COMMENTS (procedure, kit quality, suggested improvements, etc.)			
Name	Signature	Date	
Please complete and forward this form to: Pilatus Aircraft LTD, Customer Technical Support (MCC), P.O. BOX 992, 6371 Stans, Switzerland Fax: +41 (0)41 619 6773 Email: Techsupport@pilatus-aircraft.com			

SERVICE BULLETIN EVALUATION SHEET

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