

Service Bulletin No: 24-005

Ref No: 133

Modification No: Inspection

ATA Chapter: 24

**ELECTRICAL POWER - GENERAL
INSPECTION FOR CHAFING OF THE ELECTRICAL WIRES BELOW PANEL F3****1. Planning Information****A. Effectivity**

MSNs 164 thru 171, MSN 173 and MSN 176.

B. Concurrent Requirements

None.

C. Reason**(1) Problem**

An Operator has reported chafing of the wiring loom installed below the access panel F3.

(2) Cause

Investigation has shown that although there is sufficient clearance between the wiring loom and the components installed below the access panel F3 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 F3
- 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 F3.
- (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.

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 Letter of DOA Acceptance ref. FOCA.21J.002.

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.

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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 F3.	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

Aircraft Maintenance Manual (AMM): 12-00-00, 20-31-00.

M. Publications Affected

None.

N. Interchangeability of Parts

Not applicable.

2. Material Information**A. Material - Price and Availability**

No modification kit is necessary to do this Service Bulletin.

Operators who require more information should contact:

PILATUS AIRCRAFT LTD,
INTERGRATED LOGISTIC SUPPORT MANAGER,
CH 6371 STANS, Tel: +41 41 619 66 30
SWITZERLAND Fax: +41 41 610 33 51

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

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 (Ref. AMM 20-31-00)

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**

Remove the access panel F3 (Ref. AMM, 12-00-00, Page Block 1).

B. Inspection

- (1) Do a visual inspection of all the wires below the panel F3 for signs of chafing and contact with the casings of the Line Replacement Units (LRUs) 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 F3 (Ref. AMM, 12-00-00, Page Block 1).

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. 24-005			
Title	Electrical Power - General Inspection for Chafing of the Electrical Wires Below Panel F3		
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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