

Project No: **BDHRN002**Job Card No **0122**

Notif.No.: 10049113

Activity: **1003**

Rev No: 20000622

Model.: F900EX

Sheet 1 of 1

A/C Regn: **D-AHRN**

Serial No.: 096

Type: F900EX

Starting Phase: Routine

Starting Work Centre: MTX AVIO DEPT

Job Description: **CHK Nose Cone Elec Bonds**

ETOPS A/C: No

RVSM A/C: No

Warranty: -

ATA: 53

Check Type: 2A+ Inspection

Work Center	
MTX AVIO DEPT	

Zone: 200**Access Required for this task:**

210A

Corrective Action

0001	Task carried out in accordance with the attached Customer Card that quotes the Operator code detailed below.					 Order: 80069230 Operation: 0010 Phase: Routine - scheduling activity Work Center: MTX AVIO DEPT
	Accomplished		Inspected			
	Pers. No.	Date	Pers. No.	Date		
	Stamp		Stamp			

Completed & Confirmed on SAP IAW MOE 2.13.

Defect Card Raised

Components Removed/Installed

	Part Number	Part Name	S/N	Location	Comm. Off/On
OFF					
ON					
OFF					
ON					
OFF					
ON					
OFF					
ON					

Occurance Report Raised? YES ☐

Operations Above & Notifications Completed IAW MOE 2.13.



OEM Code: 53-11-00-760-801

Operator Code: 53-11-00-760-801-01

Form No: JA-SAP-MTX-002

Printed by: ADAMOVIC G



Printed: 03.09.2012

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Print No: 1

Operator: **HERON AVIATION**

Work Card No.: **53.270**

Serial No.: **096**

Model: **FALCON 900EX**

PKG # 12 2A+ INSPECTION

Reg No.: **D-AHRN**

Workorder No.: _____

	Date	A/C HRS	AFL	APH			
Due At	25-NOV-2012						
Accomplished							

TECHNICIAN SIGNATURE: _____ KIND OF CERTIFICATE & NO.: _____

INSPECTED BY: _____ KIND OF CERTIFICATE & NO.: _____

TECH	INSP	LABOR-HRS HRS.MINS
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**>53-11-00-760-801- CHECK OF THE NOSE CONE ELECTRICAL BONDING
01**

REMARKS : _____

AMM 53-11-00-760-801

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TASK 53-11-00-760-801 **CHECK OF THE NOSE CONE ELECTRICAL BONDING**

1. OVERVIEW OF THE JOB

Operation code: 53-11-00-760-801-01

NOTE: The milliohmmeter used should have a 1% accuracy.

2. LOGISTICS

A. References

Reference	Designation
• 53-11-33-960-801	REPLACEMENT / REPAIR OF THE LIGHTNING ARRESTER STRIPS

B. Tools and Ground Support Equipment

Reference	Designation	Quantity
• TO-20-510	MILLIOHMMETER	

C. Ingredients and Consumable Products

Designation	Additional designation
• CLEANER	

D. Access

Reference	Designation
• 210A	NOSE CONE

3. PRELIMINARY STEPS

- A. Open nose cone ([210A](#)).

4. VISUAL CHECK OF NOSE CONE BONDING

Refer to [fig. 1](#) and [fig. 2](#)

- A. Visually check lightning arrester strips (1) on the radome front section for:

- pitting,
- separation,
- damage of any kind.

If damage is found or if in doubt, repair or replace the radome lightning arrester strips (Refer to [TASK 53-11-33-960-801](#)).

- B. Make sure that the contact surface between electrical bonding lip seal (2) and frame 0 is perfectly clean and thus provides a good continuity with the structure.

If required, clean with [cleaner](#) the contact surfaces of electrical bonding lip seal (2), of bonding spring blades (3) at the rear of nose cone ([210A](#)) and contact surfaces on frame 0.

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5. MEASUREMENT OF THE ELECTRICAL BONDING RESISTANCE OF NOSE CONE (210A) (A/C WITH SINGLE-PIECE NOSE CONE)

Refer to **fig. 1**

NOTE: Since lightning arrester strips (1) have no electrical continuity, no measurement is possible to check their characteristics.

A. Internal electrical bonding resistance

- (1) Gain access to the bonding points where the internal continuity is to be measured:
 - bonded (conductive) seal (4) in contact with Brochier fabric (5) at radar partition (6),
 - bonding spring blade (3) at the rear of nose cone (210A).
- (2) Checking electrical bonding
 - (a) Use a milliohmmer in compliance with manufacturer's instructions.
 - (b) Measurement of the electrical bonding resistance across bonded (conductive) seal (4) and bonding spring blade (3), using a milliohmmer.

Connect the milliohmmer as follows:

 - negative probe tip to bonded (conductive) seal (4),
 - firmly apply positive probe tip to bonding spring blade (3).
 - (c) Record the electrical bonding resistance: the bonding resistance value R found must not exceed 25 mΩ.
 - (d) Perform the same measurement between each spring blade (3) and bonded (conductive) seal (4).
 - (e) Disconnect the milliohmmer.

B. External electrical bonding resistance

NOTE: The external electrical bonding resistance of nose cone (210A) cannot be measured.

6. MEASUREMENT OF THE ELECTRICAL BONDING RESISTANCE OF NOSE CONE (210A) (A/C WITH TWO-PIECE NOSE CONE)

Refer to **fig. 2**

NOTE: Since lightning arrester strips (1) have no electrical continuity, no measurement is possible to check their characteristics.

A. Internal electrical bonding resistance

- (1) Gain access to the bonding points where the internal continuity is to be measured:
 - bonded (conductive) seal (4) of radar partition (5),
 - bonding spring blade (3) at rear of nose cone (210A).
- (2) Checking electrical bonding
 - (a) Use a milliohmmer in compliance with manufacturer's instructions.
 - (b) Measurement of the electrical bonding resistance across bonded (conductive) seal (4) and bonding spring blade (3), using a milliohmmer.

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Connect the milliohm meter as follows:

- negative probe tip to bonded (conductive) seal (4),
- firmly apply positive probe tip to bonding spring blade (3).

- (c) Record the electrical bonding resistance: the bonding resistance value R found must not exceed 25 mΩ.
- (d) Perform the same measurement between each spring blade (3) and bonded (conductive) seal (4).
- (e) Disconnect the milliohm meter.

B. External electrical bonding resistance

- (1) Gain access to the bonding points where the external continuity is to be measured:
 - attaching screw (6) at the rear of lightning arrester strips (1),
 - bonding spring blade (3) at the rear of nose cone (210A).
- (2) Checking electrical bonding
 - (a) Use a milliohm meter in compliance with manufacturer's instructions.
 - (b) Measurement of the electrical bonding resistance across attaching screw (6) and bonding spring blade (3), using a milliohm meter.

Connect the milliohm meter as follows:

 - negative probe tip to attaching screw (6),
 - firmly apply positive probe tip to bonding spring blade (3).
 - (c) Record the electrical bonding resistance: the bonding resistance value R found must not exceed 25 mΩ.
 - (d) Disconnect the milliohm meter.

7. FINAL STEPS

CAUTION: WHEN CLOSING THE NOSE CONE, SLOW ITS DOWNWARD MOTION BEFORE IT REACHES THE BOTTOM STOP.

- A. Close nose cone (210A).

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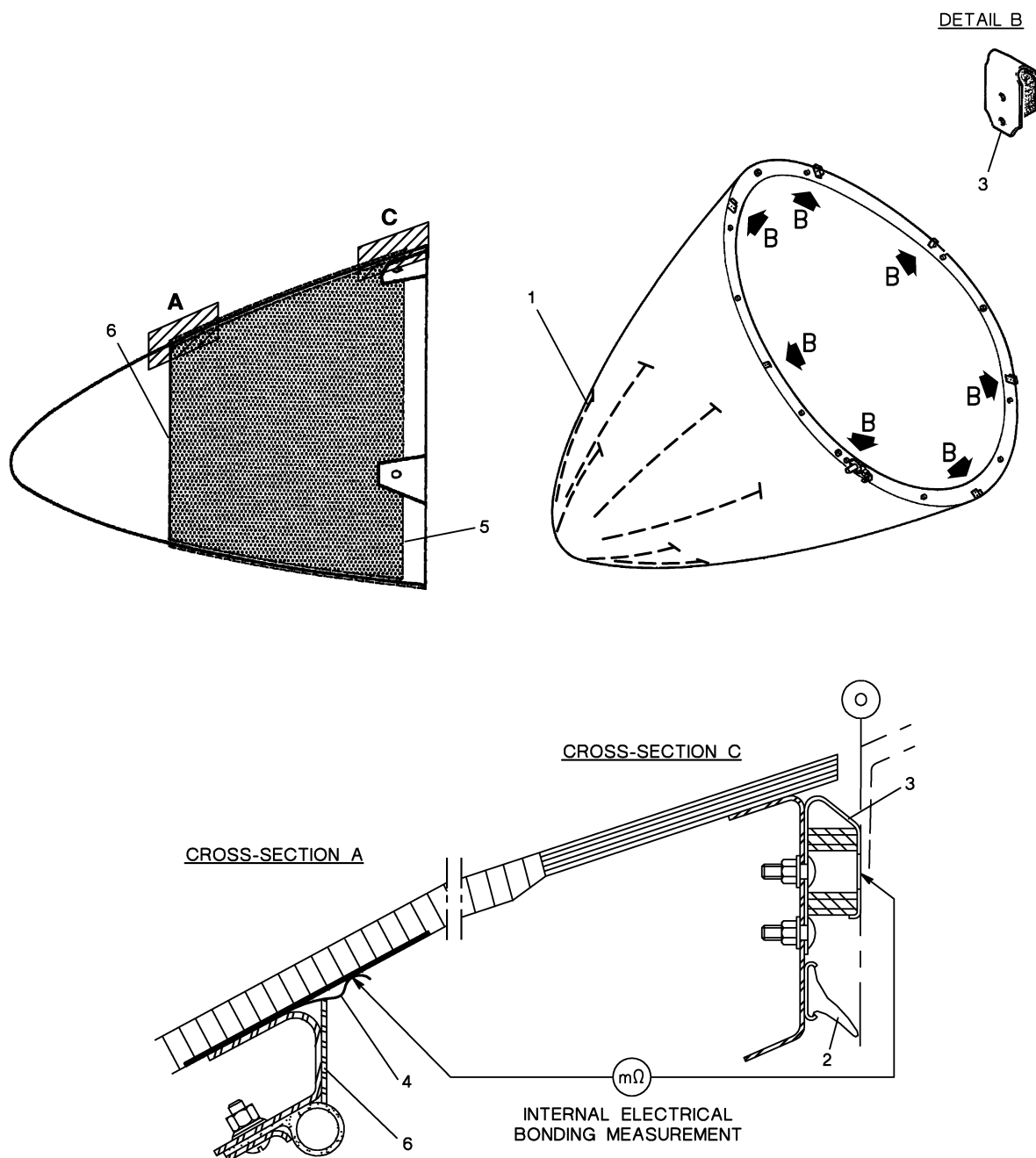


Figure 1: Nose Cone Bonding - Measurement Principle (A/C WITH SINGLE-PIECE NOSE CONE)

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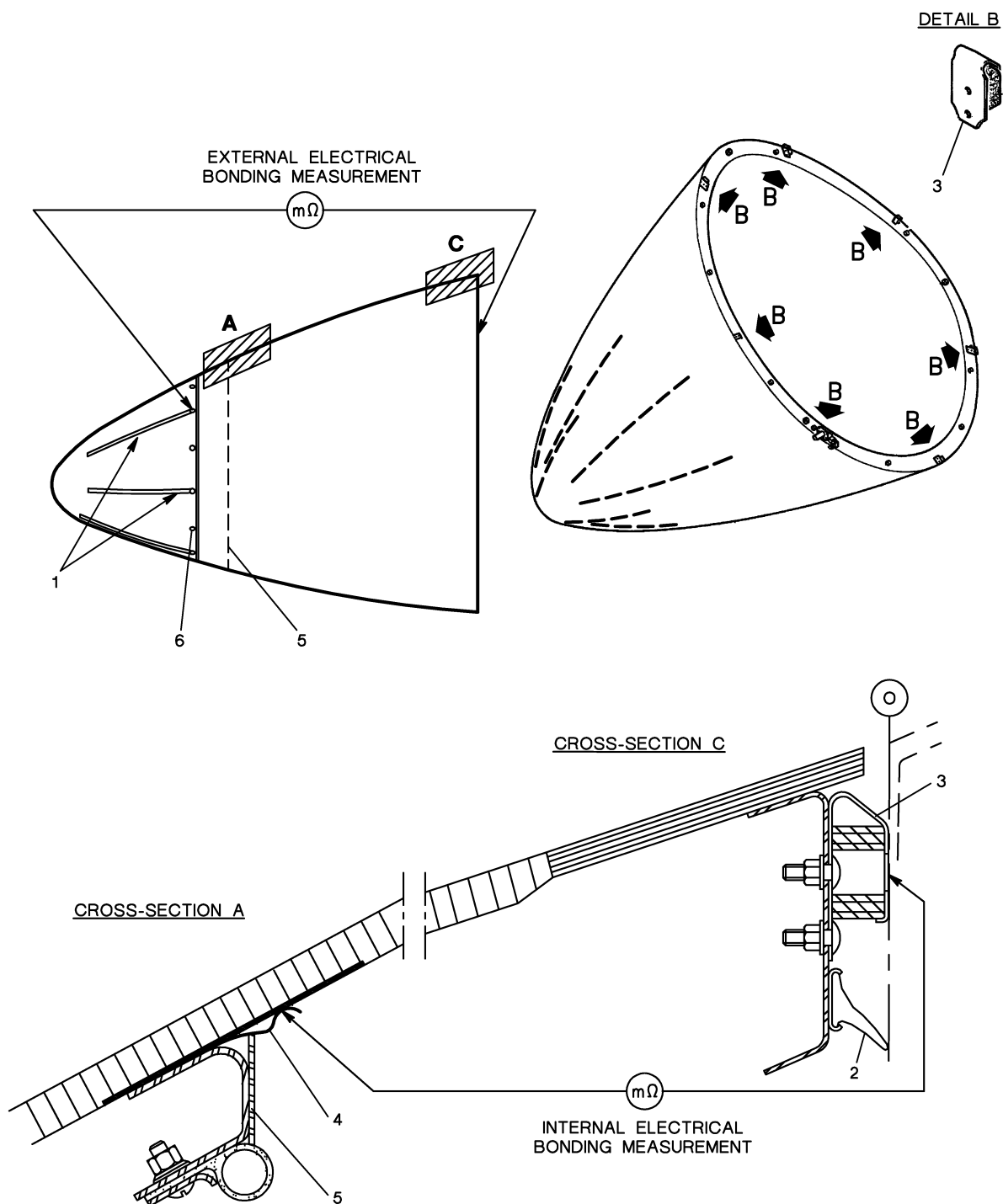


Figure 2: Nose Cone Bonding - Measurement Principle (A/C WITH TWO-PIECE NOSE CONE)