

Project No: **BDHRN002**Job Card No **0029**

Notif.No.: 10049046

Activity: **1001**

Rev No: 20000622

Model.: F900EX

Sheet 1 of 2

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

Serial No.: 096

Type: F900EX

Starting Phase: Inspect

Starting Work Centre: FALCON A/C TEAM

Job Description: GVI Engine 1 & 3 Nacelles & Pylons

ETOPS A/C: No RVSM A/C: No Warranty: - ATA: 54

Check Type: 2A CHECK

Work Center	
FALCON A/C	
MTX CLEANERS	

Zone: 400**Access Required for this task:**

411AL,413AB,414AT,417AL,417BL,421AR,423AB,424AT,427AR,427BR

Corrective Action

0001	Task carried out in accordance with the attached Customer Card that quotes the Operator code detailed below.					 Order: 80069279 Operation: 0010 Phase: Inspect - scheduling activity Work Center:FALCON A/C TEAM
	Accomplished		Inspected			
	Pers. No.	Date	Pers. No.	Date		
	Stamp		Stamp			
Completed & Confirmed on SAP IAW MOE 2.13.						
0002	Task carried out in accordance with the attached Customer Card that quotes the Operator code detailed below.					 Order: 80069279 Operation: 0020 Phase: Inspect - scheduling activity Work Center:MTX CLEANERS
	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					

OEM Code: 54-00-00-210-810

Form No: JA-SAP-MTX-002

Operator Code: 54-00-00-210-810-01

Printed by: ADAMOVIC G



Printed: 03.09.2012

13:34:17

Print No: 1

Project No: **BDHRN002**

Job Card No **0029**

Notif.No.: 10049046



Activity: **1001**

Rev No: 20000622

Model.: F900EX

Sheet 2 of 2

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

Serial No.: 096

Type: F900EX

Starting Phase: Inspect

Starting Work Centre: FALCON A/C TEAM

Job Description: **GVI Engine 1 & 3 Nacelles & Pylons**

ETOPS A/C: No

RVSM A/C: No

Warranty: -

ATA: 54

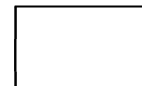
Check Type: 2A CHECK

Work Center	
FALCON A/C	
MTX CLEANERS	

OFF					
ON					
OFF					
ON					

Occurance Report Raised? YES ☐

Operations Above & Notifications Completed IAW MOE 2.13.



OEM Code: 54-00-00-210-810

Operator Code: 54-00-00-210-810-01

Form No: JA-SAP-MTX-002

Printed by: ADAMOVIC G



Printed: 03.09.2012

13:34:17

Print No: 1

Operator: **HERON AVIATION**

Work Card No.: **54.0102**

Serial No.: **096**

Model: **FALCON 900EX**

PKG # 2 2A INSPECTION

Reg No.: **D-AHRN**

Workorder No.: _____

	Date	A/C HRS	AFL	APH			
Due At	25-NOV-2012	4410:47					
Accomplished							

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

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

TECH	INSP	LABOR-HRS HRS.MINS
------	------	-----------------------

**>54-00-00-210-810- GENERAL VISUAL INSPECTION OF THE NO.1 ENGINE
01 NACELLE AND PYLON**

REMARKS : _____

AMM 54-00-00-210-810

FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

TASK 54-00-00-210-810

GENERAL VISUAL INSPECTION OF THE ENGINE 1 AND 3 NACELLES AND PYLONS

CAUTION: THE PRESENCE OF A CRACK ENTAILS SYSTEMATIC REPAIR.

- IF A CRACK IS FOUND ON A RIVET LOCATED ON LATERAL ENGINE AIR INTAKE, REFER TO SRM (REFER TO **SRM 54-41-02**). ♦
- IF A CRACK IS FOUND ON THE SKIN, CONTACT THE MANUFACTURER.

1. OVERVIEW OF THE JOB

Operation codes:

- 54-00-00-210-810-01 engine 1 (**L4EZ**)
- 54-00-00-210-810-02 engine 3 (**R4EZ**)

2. LOGISTICS

A. References

Reference

- **20-31-00-100-804**
- **20-31-00-350-801**
- **20-50-00-300-801**
- **20-60-00-370-803**
- **23-60-01-900-801**
- **54-11-01-900-802**
- **54-11-13-960-801**

Designation

- CLEANING OF THE WING AND AIR INTAKE LEADING EDGES
- POLISHING OF WING AND AIR INTAKE LEADING EDGES
- TREATMENT OF SCRATCHES ON CLADDED SKINS
- APPLICATION OF PU66 CELOMER PAINT SCHEME
- REMOVAL / INSTALLATION OF THE STATIC DISCHARGERS**
- REMOVAL / INSTALLATION OF THE ENGINE 1 AND 3 UPPER AND LOWER COWLINGS
- REPLACEMENT OF THE ENGINE 1 AND 3 COWLING SEALS**

B. Tools and Ground Support Equipment

Reference

- **F7XC202000008**

Designation

TOOL BOX

Quantity

C. Ingredients and Consumable Products

Designation

- **TOP COAT PU66**
- **HIGH TEMPERATURE SEALANT**
- **CLEANER**
- **POLISH**
- OR **WHITE POLISHING PASTE NU-SHINE**

Additional designation

MULTIPURPOSE
AA 59318

D. Access

Reference

- **411AL**
- **413AB**
- **414AT**

Designation

ENGINE 1 AIR INTAKE
ENGINE 1 LOWER COWLING
ENGINE 1 UPPER COWLING

FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

- [417AL](#) ENGINE 1 AFTERBODY
- [417BL](#) ENGINE 1 AFTERBODY LOWER ACCESS PANEL
- [421AR](#) ENGINE 3 AIR INTAKE
- [423AB](#) ENGINE 3 LOWER COWLING
- [424AT](#) ENGINE 3 UPPER COWLING
- [427AR](#) ENGINE 3 AFTERBODY
- [427BR](#) ENGINE 3 AFTERBODY LOWER ACCESS PANEL

E. Miscellaneous

- STEPLADDER (LOCAL PROCUREMENT)



- METAL ROD: 4 MM (0.16 IN) DIAMETER WITH ROUNDED END (LOCAL PROCUREMENT)

3. PRELIMINARY STEPS

- A. Remove engine cowls ([413AB](#))/([423AB](#))/([414AT](#))/([424AT](#)) (Refer to [TASK 54-11-01-900-802](#)).

4. STRUCTURE

- A. Using the stepladder, check each inspected element for corrosion, shocks, traces of impact, cracks and scratches.

B. Nacelles

- (1) On the entire external surface of the nacelles check for:
 - (a) Paint condition.
 - (b) Missing or loose rivets.
If rivets are found missing or loose, refer to SRM (Refer to [SRM 54-41-02](#)).
- (2) On air intake ([411AL](#))/([421AR](#)) leading edge:
 - (a) Clean with **cleaner** (Refer to [TASK 20-31-00-100-804](#)).
 - (b) Check for erosion or scratches (Refer to [TASK 20-50-00-300-801](#)).
 - (c) Polish with **polish** to restore the protection (Refer to [TASK 20-31-00-350-801](#)).
- (3) On air intake ([411AL](#))/([421AR](#)), check:
 - (a) The inner duct for cleanliness, condition of skin, condition of Pt2 probe ([L4EZ2](#))/([R4EZ2](#)).
 - 1 On the inner skin paint coat:
 - If corrosion is found, refer to SRM (Refer to [SRM 51-10-02](#)).
 - If the protective paint is damaged or after corrosion treatment, renew the **top coat PU66** paint scheme (Refer to [TASK 20-60-00-370-803](#)).
 - 2 Check the inner skin for:
 - Missing or loose rivets.
If rivets are found missing or loose, refer to SRM (Refer to [SRM 54-41-02](#)).
 - (b) The external skin for:

FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

- anti-icing air exhaust louvers for clogging,
- engine cowling rest straps for condition,
- cracks or impact damage.

(c) **Rear air intake duct under engine cowlings:**

- eight bonding cleats,
- supports for condition (engine cowls attachment, Pt2 probe and generator wiring),
- anti-icing duct connection,
- engine air intake ring for condition and security of attachment.

(4) For engine upper cowl (**414AT**)/(**424AT**), check the following:

- (a) Inner and outer skin (condition of the two attachment holes and of the bonding strips, delamination, burn marks). Recondition the inner skin paint coat if blistered (Refer to **TASK 20-60-00-370-803**).
- (b) Both latching pawls.
- (c) Pylon side tie rods.
- (d) Hinge fittings.
- (e) Forward and aft bonding lugs for condition.
- (f) Engine equipment ventilation louvers, no obstruction.
- (g) Drain duct for condition and attachment clamp.
- (h) Metalized bonding seal, if damaged (Refer to **TASK 54-11-13-960-801**).

(5) For engine lower cowl (**413AB**)/(**423AB**), check the following:

- (a) Inner and outer skin (condition of bonding strips and angles, delamination, burn marks). Recondition the inner skin paint coat if blistered (Refer to **TASK 20-60-00-370-803**).
- (b) Inside of goose necks.
- (c) Pylon side locks.
- (d) Open position holding rod, for operation and condition of latching mechanism (pip pin and retaining bead).
- (e) Metalized bonding seal, if damaged (Refer to **TASK 54-11-13-960-801**).
- (f) No obstruction of:
 - engine equipment ventilation louvers,
 - starter-generator ventilation air outlet,
 - oil breather,
 - drain duct.

(6) On afterbody (**417AL**)/(**427AR**), check the following:

- (a) External skin for delamination.
- (b) Check doors (**417BL**) / (**427BR**) giving access to ignitor plugs.
- (c) Opening cowling rest flange.

FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

- (d) Forward frame:
 - attachment ring on engine,
 - eight bonding cleats,
 - junction of starter-generator ventilation duct,
 - latching pawls receptacle of the engine upper cowling.
 - (e) Inner duct skin, for condition.
- If you find corrosion, refer to SRM (Refer to **SRM 54-13-05**) for acceptance criteria.

C. On each pylon, check the following:

- (1) Upper surface: skin, riveting, fuselage linking brackets, inspection door.
- (2) Lower surface: skin, riveting, junction angles on fuselage, inspection door.
- (3) Leading edge and ram air inlet, on the LH side only.
- (4) Trailing edge.
- (5) Static dischargers (**L505RD**) / (**R505RD**) for condition and security of attachment. If damaged, (Refer to **TASK 23-60-01-900-801**)
- (6) Engine air intake anti-icing duct coupling.
- (7) Engine cowling upper and lower bonding braids.

D. Engine compartment

- (1) Inspect the front bulkhead:
 - (a) Condition of front edge, cowling seating surface.
 - (b) Condition and security of attachment of mounts.
- (2) Check the engine for security of attachments.
- (3) Check the pylon-to-nacelle connecting seals.
 - (a) Check the attachment and condition of the upper and lower surface pylon-to-nacelle connecting seals (absence of damage or tear).
 - (b) Record the defective seal(s) for replacement at next engine removal.
- (4) Inspect the rear bulkhead:
 - (a) Condition of rear edge, cowling seating surface.
 - (b) Condition of attachment of afterbody to engine.

5. ELECTRICAL CIRCUITS

A. Inspect starter-generators (**L1PA**) / (**R1PA**):

- (1) Attachment and condition of the intake ventilation duct .
- (2) Attachment and condition of the outlet ventilation duct and seal, pegs in position.

FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

- (3) Attachment and condition of the brushes protection strap.
- (4) Attaching clamp on accessory gearbox safetying.
- (5) Condition of starter generator terminal block cover. Move the cover aside and check that the wiring runs parallele with the generator body.
- (6) Generator wiring for condition and grounding connection cable to the structure for attachment.



- (7) Inspect the electrical wiring:
 - (a) Check the electrical cables for appearance, cleanliness, routing, attachment and marking.
 - (b) Make sure that there is no contact between the electrical cables and the structure.
 - (c) Check the connectors for correct connection.

6. HYDRAULIC SYSTEMS

- A. Check the supply and return lines between pumps and flexible lines for interference.
- B. Check each hydraulic coupling for leaks.

7. ENGINE FIRE PROTECTION SYSTEMS

- A. On fire detector (**L2WG**)/(**R2WG**), check:
 - (1) The connector to the responder body, for safetying.
 - (2) The routing and security of attachment of detector by means of isolating sleeves.
 - (3) The detector body, for contact with the structure.
 - (4) The detector does not include sharp bends (minimum bending radius 10 mm (0.4 in.)).
 - (5) The detector is neither crushed nor damaged.
 - (6) The responder body does not show any traces of crushing.
- B. Check the fire extinguishing lines:
 - (1) For crushing,orientation and damage.
 - (2) For condition and security of attachment.
 - (3) For condition and tightness of couplings.

8. FUEL SYSTEM

- A. Check the engine fuel supply lines for condition, attachment, and routing.
 - (1) Absence of leaks or crushing.
 - (2) Protections, marking.

FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

9. OIL PRESSURE SYSTEM

- A. Check the oil reservoir pressurization valve drain seal for condition. If the seal is separate, even partially, remove grease and bond using **high temperature sealant**.

10. AIR INTAKE ANTI-ICING SYSTEM

- A. Check the anti-icing lines for security of attachment, condition and routing.
- (1) Check for leaks and crushing.
 - (2) Condition, tightening of expansion sleeves and attaching clamps.
- B. Check LP anti-icing pressure switch (**L6HA**)/(**R6HA**) and HP anti-icing pressure switch (**L12HA**)/(**R12HA**), for condition and security of attachment.
- (1) Electrical connector, for correct connection.
 - (2) Attaching clamps, for tightening.
 - (3) Marking.
- C. Check electrical valve (**L3HA**)/(**R3HA**) for condition and security of attachment.
- (1) Electrical connector, for correct connection.
 - (2) Attaching clamps, for tightening.
 - (3) Marking.

11. ENGINE CONTROLS

- A. Check the TELEFLEX control cables of each engine for condition, routing, abnormal condition (crushing).

12. ENGINE EQUIPMENT AND ENGINE DRAINAGE SYSTEM

- A. Check the drain lines (attachment and condition) in zone 1.
- (1) Starter-generator drive.
 - (2) Hydraulic pump drive.
 - (3) Hydraulic pump.
 - (4) Fuel pump drive.
 - (5) FCU drive.
 - (6) Rilsan drain of the louvers of LH upper cowling (**414AT**) and RH upper cowling (**424AT**).
- B. Check the Pt2 circuit engine computer decanting bowl, for water, and inspect the line.

13. NACELLE AND PYLON DRAIN HOLES

Refer to **fig. 1**

- A. Check nacelle and pylon drain holes.

FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

Check that the drain ports are not clogged, visually or using a 4 mm (0.16 in) diameter metal rod with a rounded end.

- (1) Under lateral engine pylons.
- (2) Under lateral engine nacelles:
 - at air intake external skin,
 - at engine lower cowl,
 - at after body doors (**417BL**) / (**427BR**).
 - under each bowl under lateral engine cowling upper air scoops.

14. FINAL STEPS

- A. Make sure that the work area is clean and clear of tools or other items.
- B. Install cowlings (**413AB**)/(**414AT**)/(**423AB**)/(**424AT**) (Refer to **TASK 54-11-01-900-802**).

FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

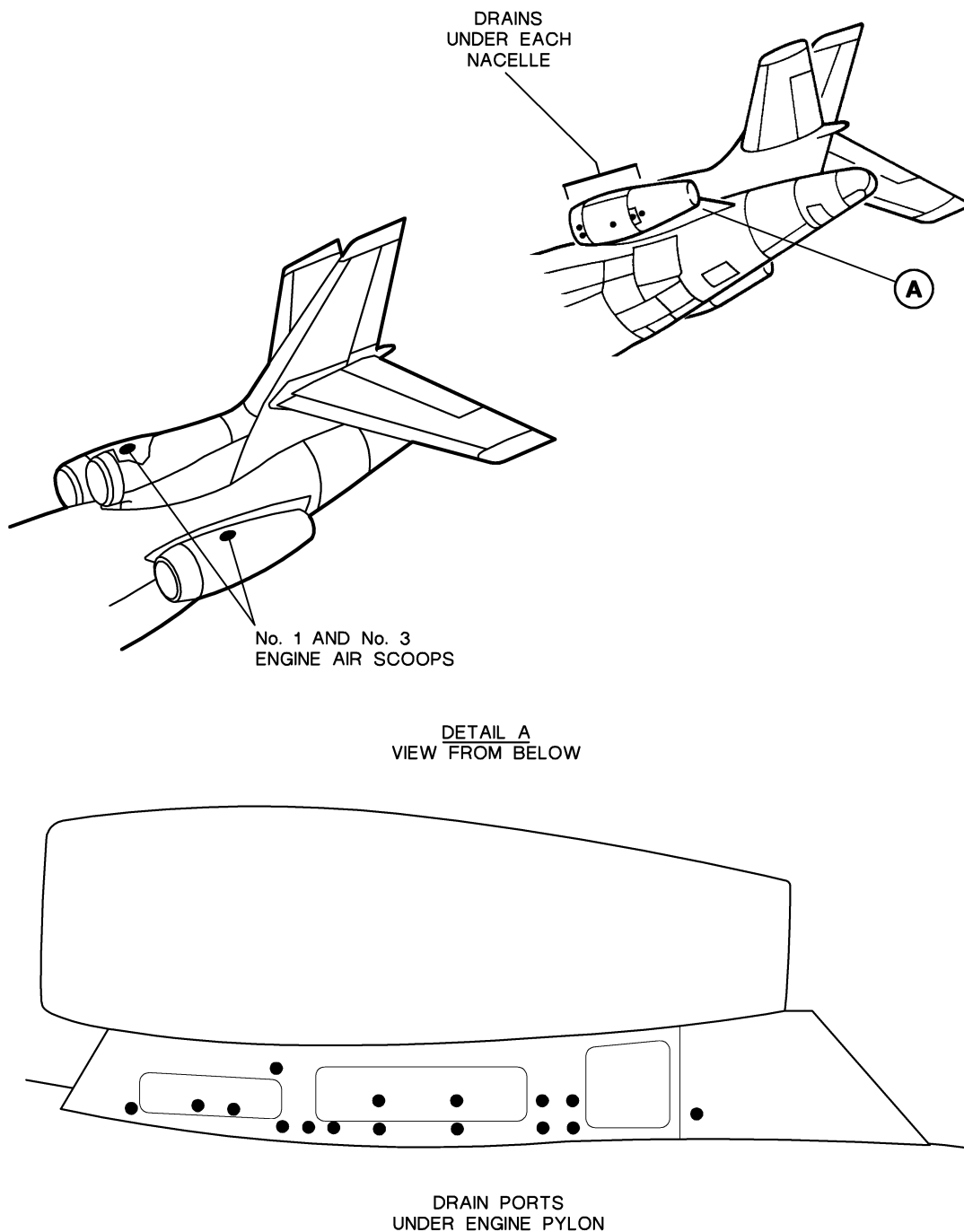


Figure 1: NACELLE AND PYLON DRAIN HOLES