

Project No: **BDHRN002**Job Card No **0041**

Notif.No.: 10049043

Activity: **1001**

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: FALCON A/C TEAM

Job Description: **CLN RH X-feed Unit**

ETOPS A/C: No

RVSM A/C: No

Warranty: -

ATA: -

Check Type: 2A CHECK

Work Center	
FALCON A/C	

**Zone: 100****Access Required for this task:**

160AB,PAX

## Corrective Action

0001	<b>Task carried out in accordance with the attached Customer Card that quotes the Operator code detailed below.</b>					  Order: 80069335 Operation: 0010 Phase: Routine - 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.

**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 &amp; Notifications Completed IAW MOE 2.13.



OEM Code: 28-21-29-100-801

Operator Code: 28-21-29-100-801-02

Form No: JA-SAP-MTX-002

Printed by: ADAMOVIC G



Printed: 03.09.2012

13:34:17

Print No: 1

Operator: **HERON AVIATION**

Serial No.: **096**

Model: **FALCON 900EX**

Reg No.: **D-AHRN**

Work Card No.: **28-21-29-100-801-02**

**PKG # 2 2A INSPECTION**

Workorder No.: \_\_\_\_\_

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

TECHNICIAN SIGNATURE: \_\_\_\_\_ KIND OF CERTIFICATE & NO.: \_\_\_\_\_

INSPECTED BY: \_\_\_\_\_ KIND OF CERTIFICATE & NO.: \_\_\_\_\_

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

>**28-21-29-100-801-02** ☐ **CLEANING OF THE RH CROSSFEED UNIT FILTER**

REMARKS : \_\_\_\_\_

NOTE: DUE EVERY 2A INSP (800H/16M) AND ALSO AT 25-75 AND 100-150 HOURS FOLLOWING  
AMM 28-21-29-100-801 DELIVERY OR C INSPECTION AND MORE OFTEN IF NECESSARY.

## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

### TASK 28-21-29-100-801

## CLEANING OF THE CROSSFEED UNIT FILTERS AND BOOSTER PUMP 2 UNIT FILTER

### 1. OVERVIEW OF THE JOB

Operation codes:

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• 28-21-29-100-801-01</li> <li>• 28-21-29-100-801-02</li> <li>• 28-21-29-100-801-03</li> </ul> | <p>LH crossfeed unit (<u>L500QA</u>)</p> <p>RH crossfeed unit (<u>R500QA</u>)</p> <p>booster pump 2 unit (<u>500QN</u>)</p> |
|---|---|

### 2. LOGISTICS

#### A. References

Reference	Designation
• <u>24-00-00-860-801</u>	ENERGIZATION / DE-ENERGIZATION OF THE AIRCRAFT
• <u>28-00-00-280-801</u>	CHECK FOR NON-CONTAMINATION OF THE FUEL
• <u>28-70-00-860-801</u>	DE-PRESSURIZATION / PRESSURIZATION OF THE FUEL TANKS

#### B. Tools and Ground Support Equipment

Reference	Designation	Quantity
• <u>F7XC202000008</u>	TOOL BOX	

#### C. Ingredients and Consumable Products

Designation	Additional designation
• <u>FUEL</u>	

#### D. Spare Parts

Reference	Designation	Quantity
• <u>AF85-71</u>	TAB-LOCK	6
• <u>R04100X178A21B6</u>	O-RING	3

#### E. Additional Spare Parts

Reference	Designation	Quantity
• <u>4L88-240</u>	FILTER	2
• <u>4L88-237</u>	FILTER	

#### F. Energy

- ELECTRICAL

#### G. Access

Reference	Designation
• <u>PAX</u>	PASSENGER DOOR
• <u>160AB</u>	FUEL EQUIPMENT BAY DOOR

#### H. Miscellaneous

## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

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- DRAIN CONTAINER (LOCAL PROCUREMENT)
- CIRCUIT BREAKER LOCKOUT (LOCAL PROCUREMENT) (QTY : 5)
- FINE SYNTHETIC-BRISTLE BRUSH (LOCAL PROCUREMENT)
- FEELER GAUGE 6 MM 0.25 IN DIA (LOCAL PROCUREMENT)

### 3. **PRELIMINARY STEPS**

Refer to **fig. 1** and **fig. 2**

- A. Connect the electrical ground power unit (Refer to [TASK 24-00-00-860-801](#), paragraph "Connection of the Electrical Ground Power Unit").
- B. Energize the aircraft systems (Refer to [TASK 24-00-00-860-801](#), paragraph "Energization with the Electrical Ground Power Unit").
- C. In the cockpit, on the overhead panel, perform the following operations:
  - (1) Check that "XTK" crossfeed selector switch ([23QA](#)) is set to neutral position.
  - (2) Check that "X-BP" 1-3/3-1 crossfeed selector switch ([22QA](#)) is set to closed position (line in vertical position).
- D. De-energize the aircraft systems (Refer to [TASK 24-00-00-860-801](#), paragraph "De-Energization with the Electrical Ground Power Unit").
- E. Depressurize the fuel tanks (Refer to [TASK 28-70-00-860-801](#), paragraph "Depressurization of fuel tanks").
- F. In the "FUEL" area of center circuit breaker panel ([10PP](#)), disengage the following circuit breakers:
  - (1) In "A1 BUS" area, "BOOST 1" circuit breaker ([L1QN](#)).
  - (2) In "A2 BUS" area, "ST-BY BOOST 2" circuit breaker ([11QN](#)).
  - (3) In "B1 BUS" area, "NORM BOOST 2" circuit breaker ([M1QN](#)) and "X BP 1-3" circuit breaker ([21QA](#)).
  - (4) In "B2 BUS" area, "BOOST 3" circuit breaker ([R1QN](#)).
- G. Install a circuit breaker lockout on the disengaged circuit breakers.
- H. Open door ([160AB](#)).
- I. Set the manual control levers of LH crossfeed unit ([L500QA](#)) and RH crossfeed unit ([R500QA](#)) to position "O" (Open).
- J. Place a drain container under the filter to be removed.

### 4. **REMOVAL OF LH/RH CROSSFEED UNIT FILTERS AND BOOSTER PUMP 2 UNIT FILTER**

Refer to **fig. 2**

- A. Removal of the filters of LH/RH crossfeed units ([L500QA](#))/([R500QA](#)):
  - (1) Unsafety the four screws (2) securing filter cover (4).

## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

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- (2) Remove the four screws (2).
- (3) Discard the two tab-locks (3).
- (4) Install one of the screws (2) at the middle of filter cover (4) in order to make removal easier.
- (5) Remove filter cover (4).
- (6) Remove filter (5).
- (7) Remove O-ring (7).
- (8) Discard O-ring (7).

**B. Removal of the filter of booster pump 2 unit (500QN):**

- (1) Unsafety the four screws (2) securing filter cover (4).
- (2) Remove the four screws (2).
- (3) Discard the two tab-locks (3).
- (4) Install one of the screws (2) at the middle of filter cover (4) in order to make removal easier.
- (5) Remove filter cover (4).
- (6) Remove sleeve (6).
- (7) Remove filter (5).

NOTE: If the valve stays open after removal of filter (5), reinstall filter (5) in its housing several times in order to cause the valve to close.

- (8) Remove O-ring (7).
- (9) Discard O-ring (7).

### **5. INSPECTION - CLEANING OF LH/RH CROSSFEED UNIT FILTERS AND BOOSTER PUMP 2 UNIT FILTER**

**A. Check cleanliness of filter (5):**

NOTE: LH and RH crossfeed units (L500QA)/(R500QA) must be equipped with filter (4L88-240).  
Booster pump 2 unit (500QN) must be equipped with filter (4L88-237).

- (1) If filter (5) is damaged or totally clogged, replace filter (5) (4L88-240) or (4L88-237).

NOTE: In event of clogging, check whether this results from tank contamination (Refer to **TASK 28-00-00-280-801**).

- (2) If filter (5) is still serviceable, clean filter (5) as follows:
  - (a) Wash filter (5) with **fuel** flowing from inside to outside, to remove dirt.
  - (b) If necessary, brush filter (5) with a fine synthetic-bristle brush.

### **6. INSPECTION OF THE NON-RETURN VALVES OF LH/RH CROSSFEED UNITS (L500QA)/(R500QA) WHEN TANKS ARE EMPTY**

Refer to **fig. 3**

NOTE: This inspection is to be performed only if the tanks are empty.

## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

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- A. Insert a feeler gauge down the bottom of the filter housing.
- B. Carefully actuate non-return valve (1) with the feeler gauge to check whether it is jammed in open or closed position.
- C. Remove the feeler gauge from the filter housing.

### **7. INSTALLATION OF LH/RH CROSSFEED UNIT FILTERS AND BOOSTER PUMP 2 UNIT FILTER**

Refer to **fig. 2**

- A. Lubricate three new O-ring (7) ([R04100X178A21B6](#)) with **fuel**.
- B. Installation of LH/RH crossfeed unit filters:
  - (1) Install O-ring (7) in the groove of filter cover (4).
  - (2) Install a clean or new filter (5) ([4L88-240](#)) on filter cover (4).
  - (3) Install filter cover assembly in LH/RH crossfeed unit ([L500QA](#))/([R500QA](#)).
  - (4) Remove the screw (2) previously installed on filter cover (4).
  - (5) Install two new tab-locks (3) ([AF85-71](#)).
  - (6) Install the four screws (2) on filter cover (4).
  - (7) Tighten the four screws (2).
  - (8) Safety the four screws (2) with the two tab-locks (3).
- C. Installation of Booster Pump 2 unit filter:
  - (1) Install O-ring (7) in the groove of filter cover (4).
  - (2) Install sleeve (6) on filter cover (4).
  - (3) Install a clean or new filter (5) ([4L88-237](#)) on filter cover (4).
  - (4) Install filter cover assembly in booster pump 2 unit ([500QN](#)).
  - (5) Remove the screw (2) previously installed on filter cover (4).
  - (6) Install two new tab-locks (3) ([AF85-71](#)).
  - (7) Install the four screws (2) on filter cover (4).
  - (8) Tighten the four screws (2).
  - (9) Safety the four screws (2) with the two tab-locks (3).

### **8. FINAL STEPS**

Refer to **fig. 1** and **fig. 2**

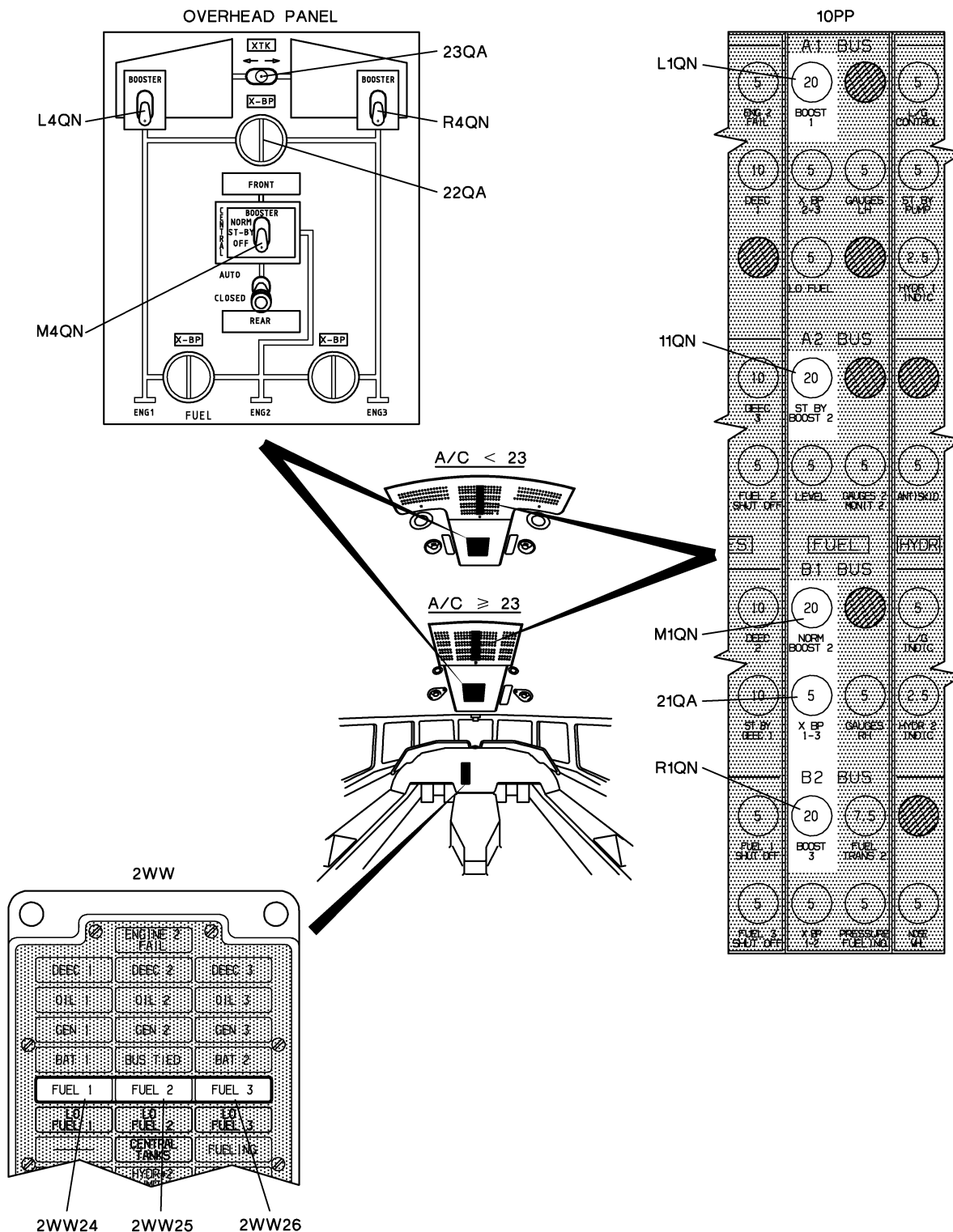
- A. Remove the drain container.
- B. Through door ([160AB](#)), set the manual control levers of LH crossfeed unit ([L500QA](#)) and RH crossfeed unit ([R500QA](#)) to position "C" (Closed).

## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

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- C. Remove the circuit breaker lockout from the disengaged circuit breakers.
- D. In the "FUEL" area of center circuit breaker panel (**10PP**), engage the following circuit breakers:
  - (1) In "A1 BUS" area, "BOOST 1" circuit breaker (**L1QN**).
  - (2) In "A2 BUS" area, "ST-BY BOOST 2" circuit breaker (**11QN**).
  - (3) In "B1 BUS" area, "NORM BOOST 2" circuit breaker (**M1QN**) and "X BP 1-3" circuit breaker (**21QA**).
  - (4) In "B2 BUS" area, "BOOST 3" circuit breaker (**R1QN**).
- E. Energize the aircraft systems (Refer to **TASK 24-00-00-860-801**, paragraph "Energization with the Electrical Ground Power Unit").
- F. In the cockpit, on overhead panel, perform the following steps:
  - (1) Set LH "BOOSTER" switch (**L4QN**) to on position (switch raised).  
On warning panel (**2WW**), check that "FUEL 1" light (**2WW24**) is extinguished.
  - (2) Set RH "BOOSTER" switch (**R4QN**) to on position (switch raised).  
On warning panel (**2WW**), check that "FUEL 3" light (**2WW26**) is extinguished.
  - (3) Set center "BOOSTER" switch (**M4QN**) to "NORM" or "ST-BY" position.  
On warning panel (**2WW**), check that "FUEL 2" light (**2WW25**) is extinguished.
- G. Through door (**160AB**), check that there are no leaks at filter covers (4) of LH crossfeed unit (**L500QA**), RH crossfeed unit (**R500QA**) and booster pump 2 unit (**500QN**).
- H. In the cockpit, on overhead panel, perform the following steps:
  - (1) set LH "BOOSTER" switch (**L4QN**) and RH "BOOSTER" switch (**R4QN**) to off position (switch lowered).
  - (2) set center "BOOSTER" switch (**M4QN**) to "OFF" position.
- I. De-energize the aircraft systems (Refer to **TASK 24-00-00-860-801**, paragraph "De-Energization with the Electrical Ground Power Unit").
- J. Disconnect the electrical ground power unit (Refer to **TASK 24-00-00-860-801**, paragraph "Disconnection of the Electrical Ground Power Unit").
- K. Make sure that the work area is clean and clear of tools or other items.
- L. Close door (**160AB**).

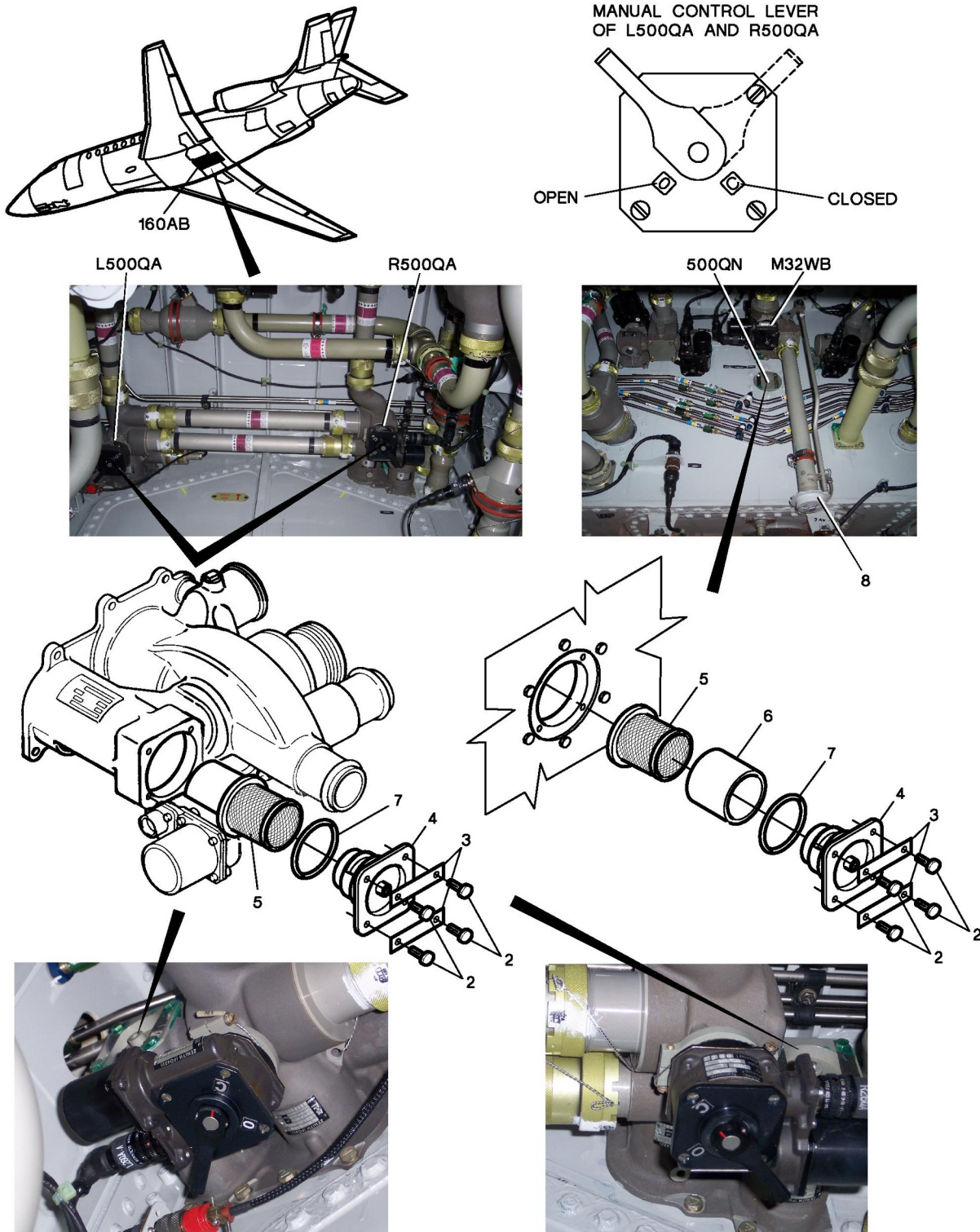
# FALCON 900EX AIRCRAFT MAINTENANCE MANUAL



### Figure 1: Cockpit Controls and Indications

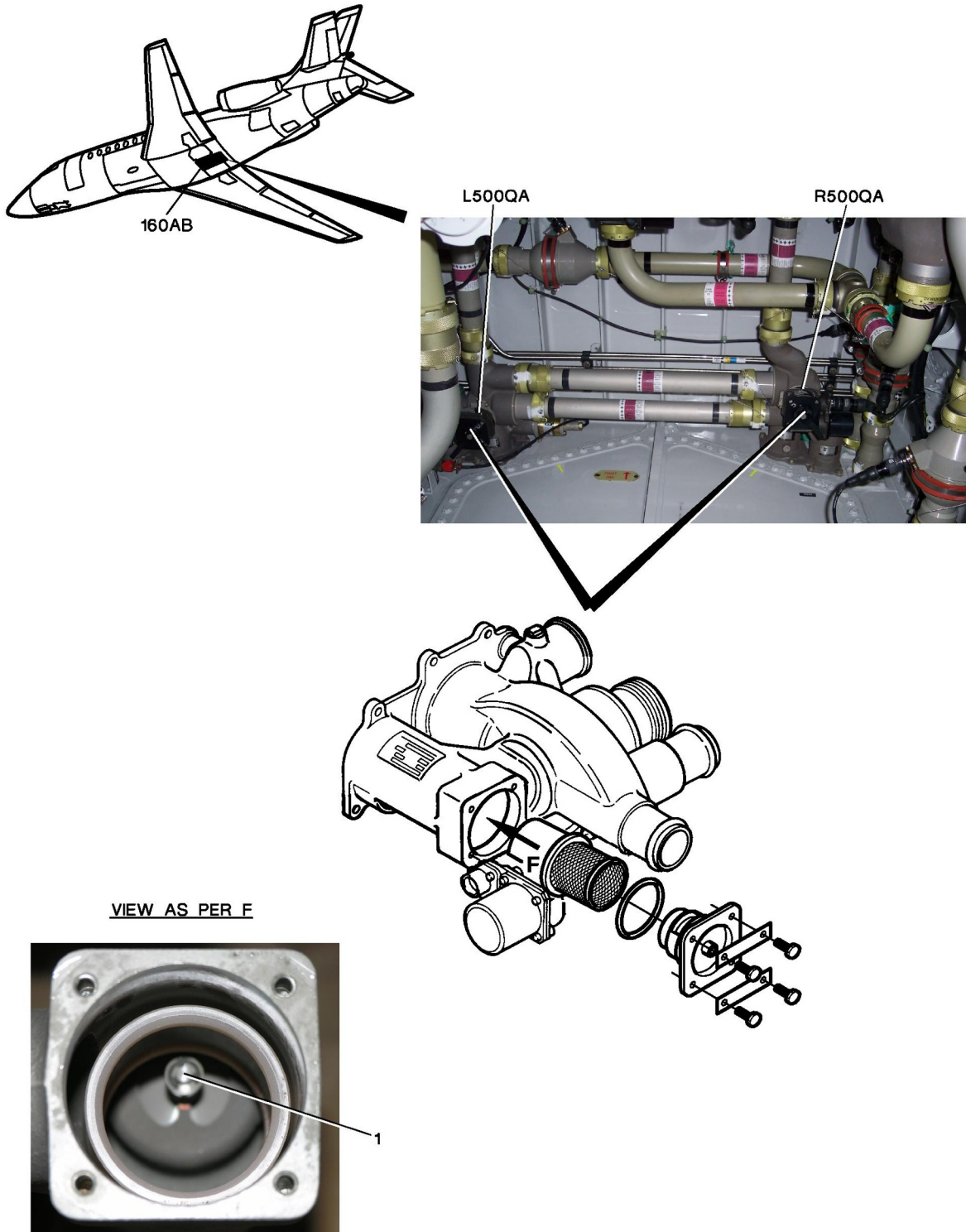


## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL



**Figure 2: Location of Fuel Filters**

## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL



**Figure 3: Inspection of Non-return Valves**