

Project No: **BDHRN002**Job Card No **0087**

Notif.No.: 10049001

Activity: **1000**

Rev No: 20000622

Model.: F900EX

Sheet 1 of 2

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

Serial No.: 096

Type: F900EX

Starting Phase: Routine

Starting Work Centre: FALCON A/C TEAM

**Job Description: FNC Flap Asymmetry Detection System**

ETOPS A/C: No

RVSM A/C: No

Warranty: -

ATA: 27

Check Type: 1A CHECK

Work Center	
FALCON A/C	

**Zone:** 500,600**Access Required for this task:**


PAX

**\*\*\*\*WARNINGS, CAUTIONS & NOTES \*\*\*\***

Order Number:80069213

OEM CODE RELATED TO CH5.40:27-50-00-720-802

## Corrective Action

0001	<b>Task carried out in accordance with the attached Customer Card that quotes the Operator code detailed below.</b>				  Order: 80069213 Operation: 0010 Phase: Routine - scheduling activity Work Center:FALCON A/C TEAM	
	<b>This task satisfies operator codes 27-50-00-720-802-01 &amp; 27-50-00-720-802-01A &amp; AD 2002-23-20 Para A</b>					
	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					

OEM Code: 27-50-00-720-802

Form No: JA-SAP-MTX-002

Operator Code: 27-50-00-720-802-01

Printed by: ADAMOVIC G

Project No: **BDHRN002**

Job Card No **0087**

Notif.No.: 10049001



Activity: **1000**

Rev No: 20000622

Model.: F900EX

Sheet 2 of 2

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

Serial No.: 096

Type: F900EX

Starting Phase: Routine

Starting Work Centre: FALCON A/C TEAM

Job Description: **FNC Flap Asymmetry Detection System**

ETOPS A/C: No

RVSM A/C: No

Warranty: -

ATA: 27

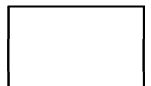
Check Type: 1A CHECK

Work Center	
FALCON A/C	

OFF					
ON					

Occurance Report Raised? YES ☐

Operations Above & Notifications Completed IAW MOE 2.13.



OEM Code: 27-50-00-720-802

Operator Code: 27-50-00-720-802-01

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.: **27.330**  
Serial No.: **096** Model: **FALCON 900EX** **PKG # 2 2A INSPECTION**  
Reg No.: **D-AHRN** 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
------	------	-----------------------

>**27-50-00-720-802-01** ☐ **FUNCTIONAL TEST OF THE FLAP ASYMMETRY DETECTION SYSTEM**

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

AMM 27-50-00-720-802

AD 2002-23-20 PARA A ☐ OPERATIONAL TEST AVIAC FLAP ACTUATOR FLAP ASYMMETRY DETECTION SYSTEM (A/C 004 AND SUBSEQUENT ONLY)

Amendment No: 39-12964 Effective Date: 11-AUG-1999 Next Compliance Due Date Hours/Other: \_\_\_\_\_

☐ COMPLIED WITH ☐ DECLINED ☐ DEFERRED ☐ NOT APPLICABLE

*All text added to the "Note" field will be presented as part of the MOC selection through the application.  
Ex: MOC of "Complied With" and a Note of "At Manufacture" will display as "Complied With - At Manufacture"*

Compliance Note: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TECH \_\_\_\_\_ INSP \_\_\_\_\_ LABOR-HRS  
HRS.MINS \_\_\_\_\_

Operator: **HERON AVIATION** Work Card No.: **27.330**  
 Serial No.: **096** Model: **FALCON 900EX** **PKG # 2 2A INSPECTION**  
 Reg No.: **D-AHRN** Workorder No.: \_\_\_\_\_

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

27-50-00-720-802-01A ☐ FUNCTIONAL TEST OF THE FLAP ASYMMETRY DETECTION SYSTEM  
 (MANDATORY REF 5-40-20)

**MANDATORY 5-40**

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

AMM 27-50-00-720-802

# FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

## TASK 27-50-00-720-802

# FUNCTIONAL TEST OF THE FLAP ASYMMETRY DETECTION SYSTEM

### 1. OVERVIEW OF THE JOB

Operation code: 27-50-00-720-802-01

NOTE: The procedure requires two operators:

- one operator in the cockpit,
- one operator close to flap position potentiometers (L4DL)/(R4DL).

### 2. LOGISTICS

#### A. References

##### Reference

- 24-00-00-860-801
- 27-00-00-910-801
- 27-50-00-720-801
- 27-50-00-860-802
- 29-00-00-860-801

##### Designation

ENERGIZATION / DE-ENERGIZATION OF THE AIRCRAFT  
FLIGHT CONTROL SYSTEM MAINTENANCE AND SAFETY  
 PRECAUTIONS  
 FUNCTIONAL TEST OF THE FLAP CONTROL AND INDICATING  
 SYSTEM  
 EXTENSION / RETRACTION OF THE SLATS / FLAPS FOR  
 MAINTENANCE  
 PRESSURIZATION / DE-PRESSURIZATION OF THE HYDRAULIC  
 SYSTEMS

#### B. Tools and Ground Support Equipment

##### Reference

- F7XC202000008

##### Designation

TOOL BOX

##### Quantity

#### C. Spare Parts

##### Reference

- EN2367-14008

##### Designation

COTTER PIN

##### Quantity

2

#### D. Additional Spare Parts

##### Reference

- FGFB163007110A1

##### Designation

PIVOT PIN SET

##### Quantity

2

#### E. Energy

- ELECTRICAL
- HYDRAULIC

#### F. Access

##### Reference

- PAX

##### Designation

PASSENGER DOOR



## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

---

### 3. **PRELIMINARY STEPS**

Refer to **fig. 1**

- A. Obey the flight control system maintenance and safety precautions (Refer to **TASK 27-00-00-910-801**).
- B. Connect the electrical ground power unit (GPU) (Refer to **TASK 24-00-00-860-801**, paragraph "Connection of the Electrical Ground Power Unit").
- C. Connect the hydraulic GPU to hydraulic system 2 (Refer to **TASK 29-00-00-860-801**, paragraph "Connection of the Hydraulic Ground Power Unit").
- D. Energize the aircraft systems (Refer to **TASK 24-00-00-860-801**, paragraph "Energization with the Electrical Ground Power Unit").
- E. Pressurize hydraulic system 2 (Refer to **TASK 29-00-00-860-801**, paragraph "Pressurization from the Hydraulic Ground Power Unit").
- ◆
- F. Extend the flaps to 20° (Refer to **TASK 27-50-00-860-802**, paragraph "Extension in Normal Mode").
- G. Cut off and drop the pressure in hydraulic system 2 (Refer to **TASK 29-00-00-860-801**, paragraph "Cut off and Drop Pressure from the Hydraulic Ground Power Unit").

### 4. **TESTS**

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

**CAUTION:** ALL SAFETY PRECAUTIONS MUST BE TAKEN TO PREVENT A BRUTAL RETRACTION OF POTENTIOMETER CABLE (8) WHEN DISCONNECTING IT FROM FLAP CLEVIS (5).

- A. Install flap and slat safeties (Refer to **TASK 27-50-00-860-802**, paragraph "Operation on Slats or Flaps Extended").

**NOTE:** Except for "FLAP CONTROL" circuit breaker (**1CG**) which must be kept engaged.

- ◆
- B. Operational Test of LH flap position potentiometer (**L4DL**)

- (1) On potentiometer cable (8)
  - (a) Extract and discard cotter pin (1).
  - (b) Remove washer (3).
  - (c) Remove pivot pin (2) from flap clevis (5).
  - (d) Maintain potentiometer cable (8).
  - (e) Position a ruler (6) (**see fig. 2**).
- (2) Mark the original position of potentiometer cable (8) on ruler (6).
- (3) Slowly pull out potentiometer cable (8) until:

## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

- amber "FLAP ASYM" warning light (**2WW47**) illuminates, on warning panel (**2WW**),
  - "FLAP CONTROL" circuit breaker (**1CG**) pops out, on circuit breaker panel (**10PP**).
- (4) Make sure that this occurs for a travel of potentiometer cable (8) equal to  $30 \pm 2$  mm ( $1.18 \pm 0.08$  in.), measured along the control cable travel centerline (travel origin corresponds to control cable position prior to disconnection).
  - (5) Put potentiometer cable (8) to the original position according to the position mark (see paragraph 4.B.(2)).
  - (6) On circuit breaker panel (**10PP**), engage in "B2 BUS" section, "FLT CONTROL" zone, "FLAP CONTROL" circuit breaker (**1CG**).
  - (7) Make sure that amber "FLAP ASYM" warning light (**2WW47**) extinguishes, on warning panel (**2WW**).
  - (8) Perform the same check in the direction corresponding to flap retraction (see paragraph 4.B.(3) to 4.B.(7)).
  - (9) Check the pivot pin (2) for condition (free of scratches).
  - (10) If there is a risk of cable lug blocking due to a damaged pivot pin, replace the pivot pin (2) (set of pin/washer/cotter pin ♦ (**FGFB163007110A1**)).
  - (11) On potentiometer cable (8) of LH flap position potentiometer (**L4DL**)
    - (a) Install pivot pin (2) on flap clevis (5).
 

**CAUTION: THE POTENTIOMETER CABLE (8) MUST NOT BE UNTWISTED AND MUST BE TAUT IN THE DIRECTION OF CABLE WIRE TWIST.**
    - (b) Install cable lug (4) on pivot pin (2).
    - (c) Install washer (3).
    - (d) Safety pivot pin (2) with new cotter pin (1) (**EN2367-14008**).
  - (12) Using a dry and clean lint-free cloth, clean drive cable and cable lug of LH flap position potentiometer (**L4DL**).
  - (13) Before and throughout flap deflection, make sure that there is no interference between:
    - potentiometer cable (8) and the structure,
    - potentiometer cable (8) and its slot (7).
- C. Perform the same checks with RH flap position potentiometer (**R4DL**) (see paragraph 4.B.).
- ♦
- D. Remove the flap and slat safeties (Refer to **TASK 27-50-00-860-802**, paragraph "Operation on Slats or Flaps Extended").

### 5. FINAL STEPS

Refer to **fig. 1**



- A. Pressurize hydraulic system 2 (Refer to **TASK 29-00-00-860-801**, paragraph "Pressurization from the Hydraulic Ground Power Unit").

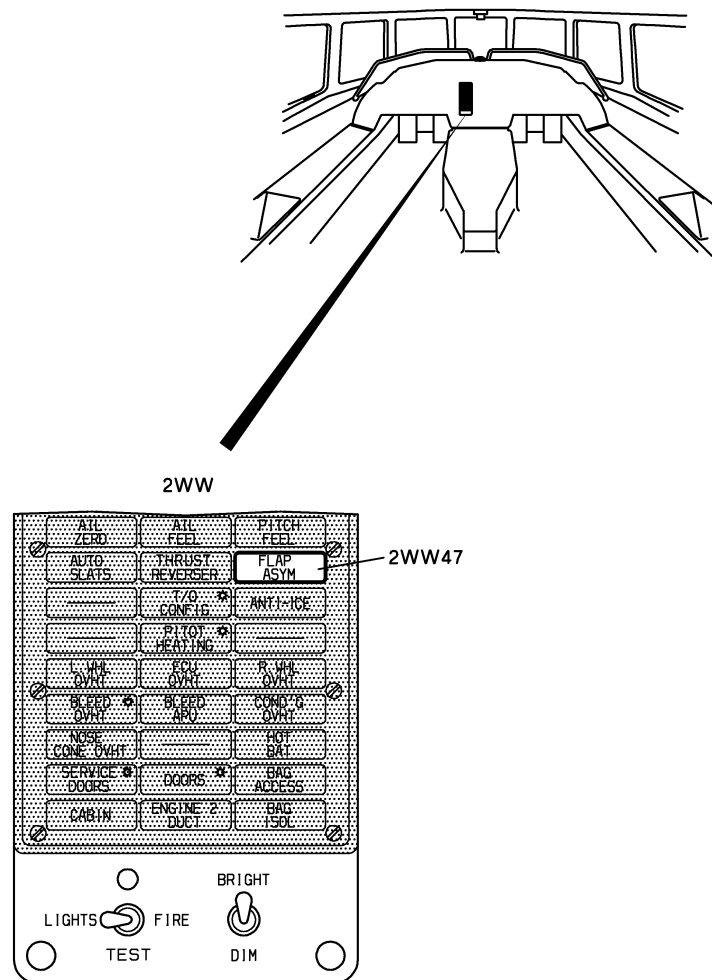
## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

---

- B. Fully retract the flaps (Refer to [TASK 27-50-00-860-802](#), paragraph "Retraction in Normal Mode").
- C. Perform full extension and retraction of flaps to check the proper operations and indications without measuring the travel durations (Refer to [TASK 27-50-00-720-801](#), paragraph "Indication and Travel Duration Tests").
- D. Cut off and drop the pressure in hydraulic system 2 (Refer to [TASK 29-00-00-860-801](#), paragraph "Cut off and Drop Pressure from the Hydraulic Ground Power Unit").
- E. Disconnect the hydraulic GPU (Refer to [TASK 29-00-00-860-801](#), paragraph "Disconnection of the Hydraulic Ground Power Unit").
- F. Disconnect the electrical GPU (Refer to [TASK 24-00-00-860-801](#), paragraph "Disconnection of the Electrical Ground Power Unit").

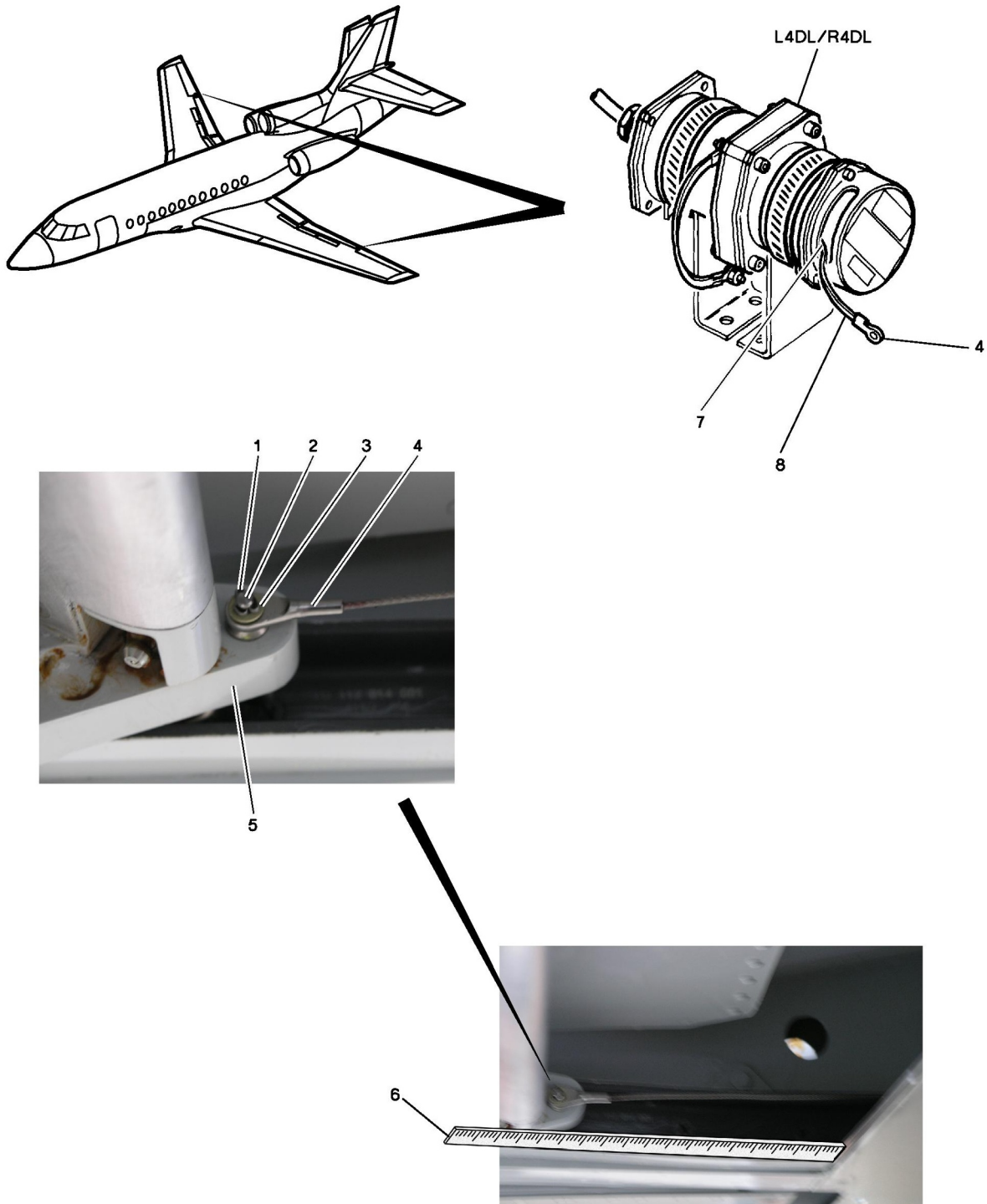


## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL



**Figure 1: LOCATION OF COCKPIT CONTROLS AND INDICATIONS**

## FALCON 900EX AIRCRAFT MAINTENANCE MANUAL



**Figure 2: REMOVAL/INSTALLATION OF CONTROL CABLES**