

Project No: **BDHRN002**Job Card No **0159**

Notif.No.: 10049095

Activity: **1003**

Rev No: 20000622

Model.: F900EX

Sheet 1 of 1

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

Serial No.: 096

Type: F900EX

Starting Phase: Functions

Starting Work Centre: MTX AVIO DEPT

Job Description: **OPC Cvr System**

ETOPS A/C: No

RVSM A/C: No

Warranty: -

ATA: 31

Check Type: 2A+ Inspection

Work Center	
MTX AVIO DEPT	

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

PAX

Corrective Action

0001	Task carried out in accordance with the attached Customer Card that quotes the Operator code detailed below.					 Order: 80069261 Operation: 0010 Phase: Functions - 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: 31-31-50-710-801

Operator Code: 31-31-50-710-801-01

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.: **31.080**
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.: _____

31-31-51-900-801-01 ☐ COCKPIT VOICE RECORDER AMM 31-31-51-900-801

REASON REMOVED: (CHECK ONE) ☐ TIME EXPIRED ☐ FAILURE ☐ WORN ☐ LOANER ☐ SCHEDULING CONV
☐ MOD/UPGRADE ☐ SERVICE ☐ ENGINE CHANGE ☐ TIRE CHANGE ☐ SWAP/TRBLE SHOOT ☐ DAMAGED ☐ UNKNOWN

If removed P/N & S/N information is incorrect please provide details below.

REMOVED P/N	980-6023-001		S/N	362		LABOR-HRS	
INSTALLED P/N			S/N			PART COST\$	
INSTALLED TSN	MOS	INSTALLED TSO	MOS	TIME SINCE	MOS	WARRANTY TIME	MOS
	HRS		HRS	REPAIR	HRS	REMAINING	HRS
	LDGS		LDGS		LDGS		LDGS
				TECH:		INSP:	

REMARKS : _____

Note: INITIAL THE SERVICE TASKS BELOW WHICH WERE ACCOMPLISHED DURING CHANGE. IF TASKS WERE NOT ACCOMPLISHED, RECORD TIME ACCRUED SINCE TASK WAS LAST ACCOMPLISHED OR CHECK CONTINUE TIME (CT).

TECH	INSP	LABOR-HRS	TIME	CONTINUE
		HRS.MINS	ACCRUED	TIME

>31-31-50-710-801- 01 OPERATIONAL TEST COCKPIT VOICE RECORDER

REMARKS : _____

AMM 31-31-50-710-801

FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

TASK 31-31-51-900-801 REMOVAL / INSTALLATION OF THE COCKPIT VOICE RECORDER (CVR)

1. OVERVIEW OF THE JOB

Operation code: 31-31-51-900-801-01 CVR (**2RK**)

2. LOGISTICS

A. References

Reference

• **31-31-50-710-801**

Designation

OPERATIONAL TEST OF THE COCKPIT VOICE RECORDER (CVR) SYSTEM

B. Tools and Ground Support Equipment

Reference

• **F7XC202000008**

Designation

TOOL BOX

Quantity

C. Ingredients and Consumable Products

Designation

• **LOCKWIRE**

Additional designation

MS20995C32

D. Energy

• ELECTRICAL

E. Access

Reference

• **MSD**

• **PAX**

Designation

SERVICING COMPARTMENT DOOR

PASSENGER DOOR

3. PRELIMINARY STEPS

Refer to **fig. 1**

A. In the cockpit, on RH circuit breaker panel (**10PP**), disengage "VOICE RECORDER" circuit breaker (**1RK**).

4. REMOVAL OF COCKPIT VOICE RECORDER (CVR) (**2RK**)

A. Removal of ALLIED SIGNAL "AR-Series" CVR (**2RK**) (A/C with M 2819 or M 2841) (**fig. 2**)

(1) In the mechanic's servicing compartment (**MSD**):

- (a) Disconnect the electrical cable from connector (1).
- (b) Remove the six screws with their washers (2).
- (c) Carefully extract CVR (**2RK**) from its support (3).

Effectivity: A/C WITH M2819 OR M2841 OR M2022 OR M2818

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B. Removal of ALLIED SIGNAL "Solid State" CVR (**2RK**) (A/C with M 2022 or M 2818) (**fig. 3**)

- (1) In the mechanic's servicing compartment (**MSD**):
 - (a) Unsafety the two quick-disconnect locks (1) by cutting lockwire (2).
 - (b) Loosen and clear the two quick-disconnect locks (1).
 - (c) Carefully extract CVR (**2RK**) from its support rack (3).

5. INSTALLATION OF CVR (2RK)

A. Installation of ALLIED SIGNAL "AR-Series" CVR (**2RK**) (A/C with M 2819 or M 2841) (**fig. 2**)

- (1) In the mechanic's servicing compartment (**MSD**):
 - (a) Position CVR (**2RK**) on its support (3).
 - (b) Tighten the six screws with their washers (2).
 - (c) Connect the electrical cable to connector (1).

B. Installation of ALLIED SIGNAL "Solid State" CVR (**2RK**) (A/C with M 2022 or M 2818) (**fig. 3**)

- (1) In the mechanic's servicing compartment (**MSD**):
 - (a) Position CVR (**2RK**) on its support rack (3) and bring it in contact with its locating pins.
NOTE: The two locating pins are located at the rear of the support rack (3).
 - (b) Tighten the two quick-disconnect locks (1).
 - (c) Safety the two quick-disconnect locks (1) with lockwire (2).

6. FINAL STEPS

Refer to **fig. 1**

- A. In the cockpit, on RH circuit breaker panel (**10PP**), engage "VOICE RECORDER" circuit breaker (**1RK**).
- B. Perform the operational test of CVR (**2RK**) (Refer to **TASK 31-31-50-710-801**).

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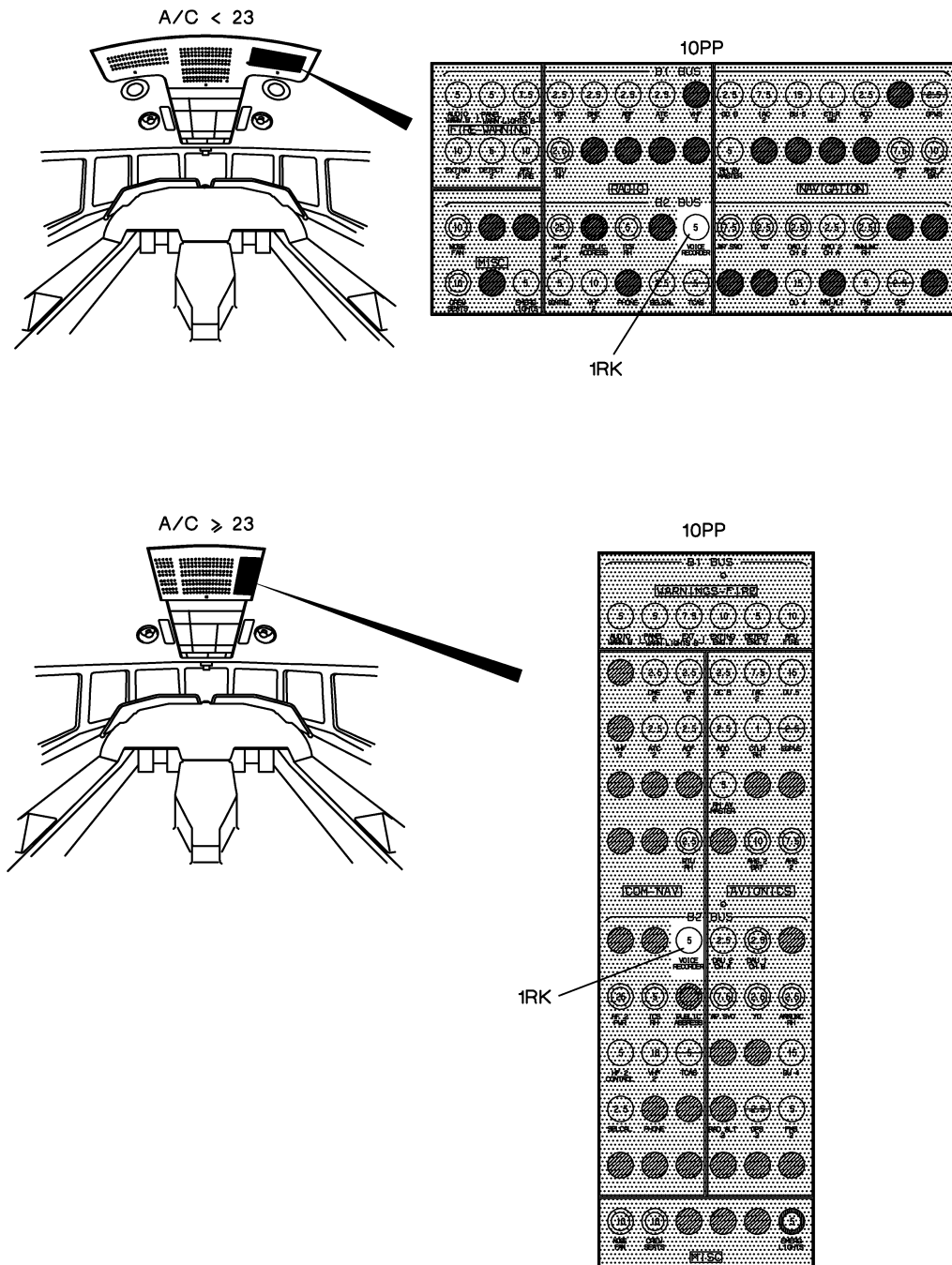


Figure 1: Location of Circuit Breakers

Effectivity: A/C WITH M2819 OR M2841 OR M2022 OR M2818

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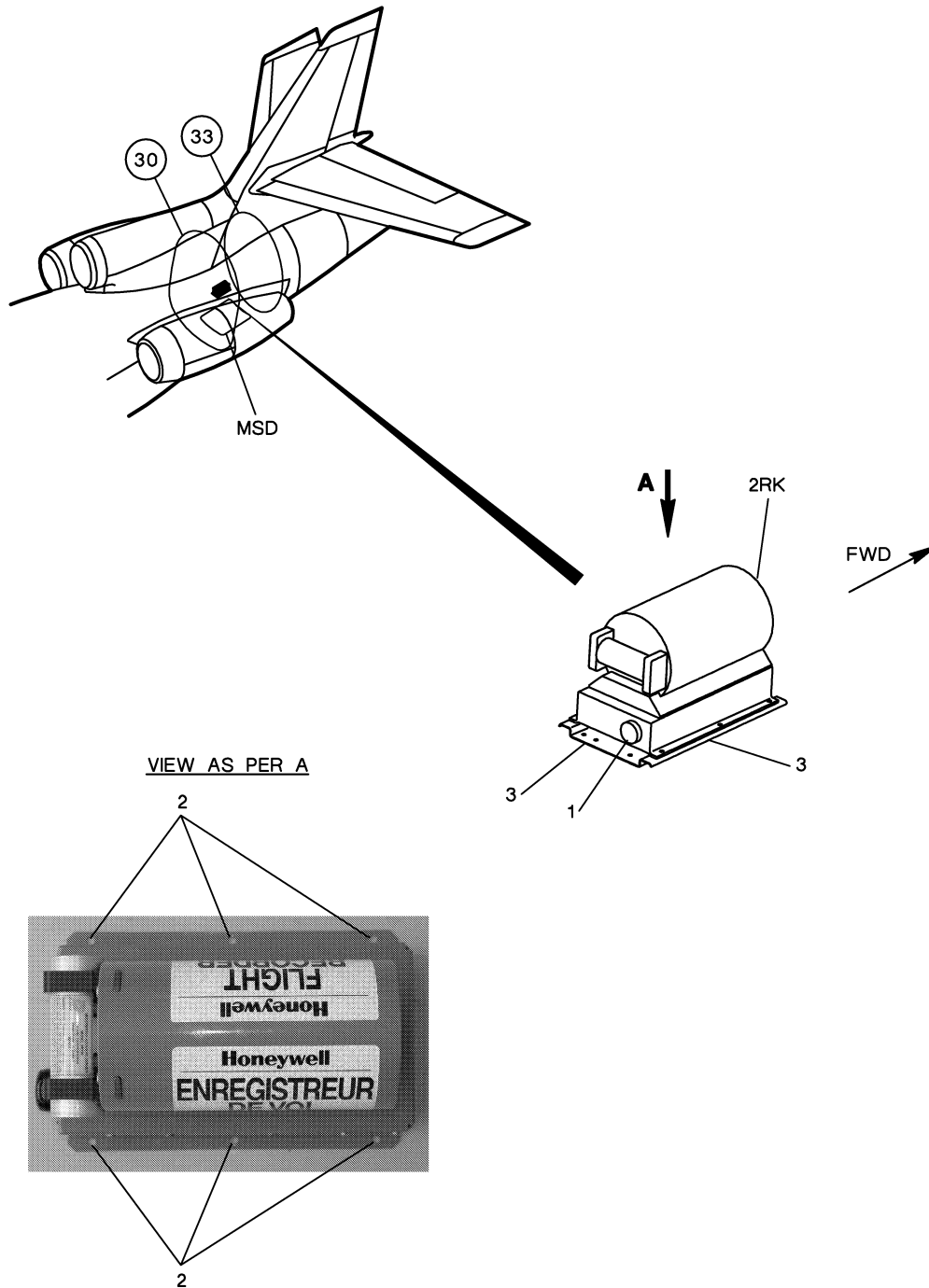


Figure 2: Removal/Installation of ALLIED SIGNAL "AR-Series" CVR (A/C WITH M 2819 OR M 2841)

Effectivity: A/C WITH M2819 OR M2841 OR M2022 OR M2818

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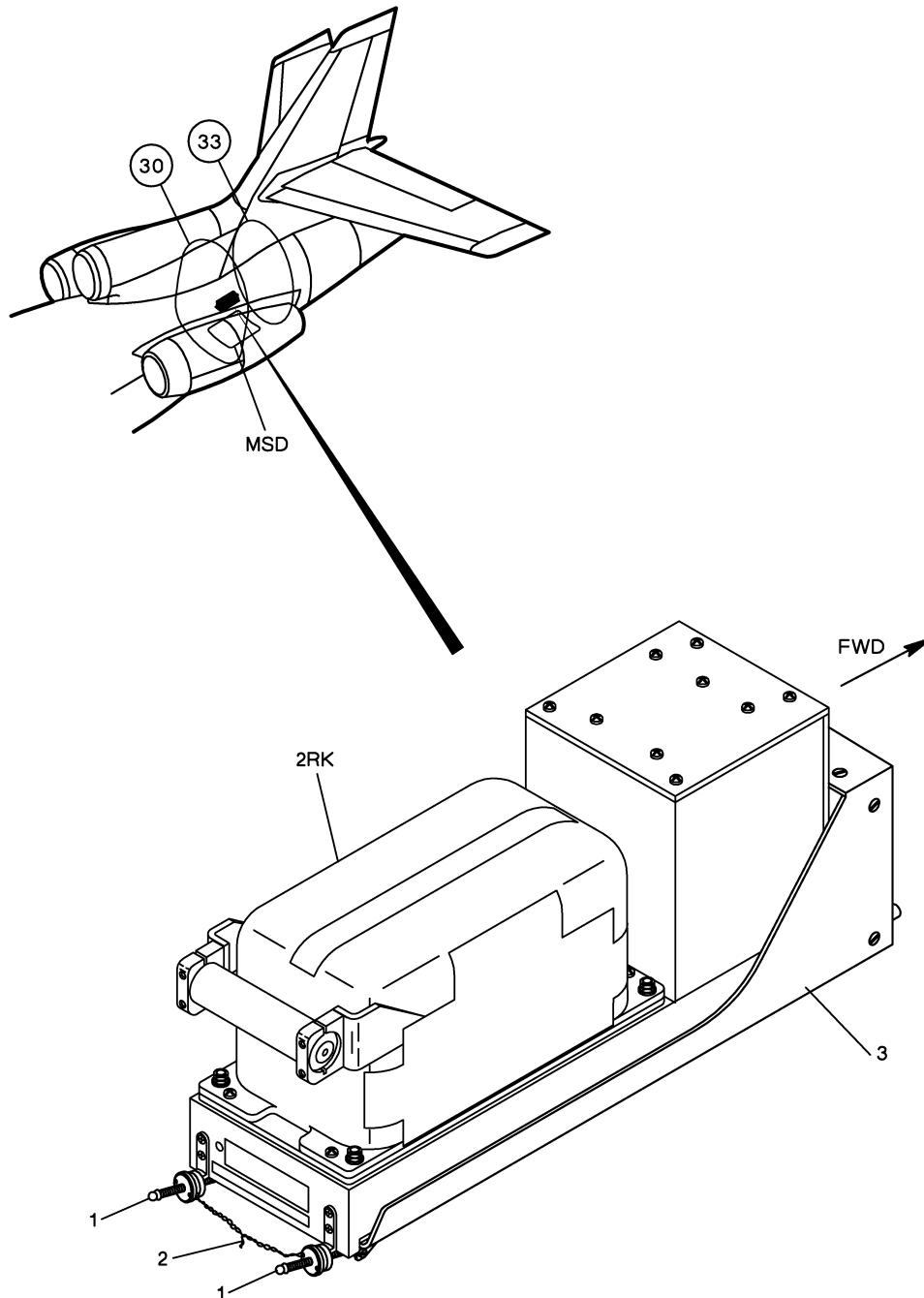


Figure 3: Removal/Installation of ALLIED SIGNAL "Solid State" CVR (A/C WITH M 2022 or M 2818)

Effectivity: A/C WITH M2819 OR M2841 OR M2022 OR M2818

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FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

TASK 31-31-50-710-801 OPERATIONAL TEST OF THE COCKPIT VOICE RECORDER (CVR) SYSTEM

1. OVERVIEW OF THE JOB

Operation code: 31-31-50-710-801-01

2. LOGISTICS

A. References

Reference	Designation
• 24-00-00-860-801	ENERGIZATION / DE-ENERGIZATION OF THE AIRCRAFT

B. Tools and Ground Support Equipment

Reference	Designation	Quantity
• F7XC202000008	TOOL BOX	

C. Energy

- ELECTRICAL

D. Access

Reference	Designation
• PAX	PASSENGER DOOR

E. Miscellaneous

- HEADSET (LOCAL MANUFACTURE)

3. PRELIMINARY STEPS

A. Energize the aircraft systems (Refer to [TASK 24-00-00-860-801](#)).

B. Check that the following circuit breakers are engaged:

- (1) "VOICE RECORDER" ([1RK](#)),
- (2) "ICS LH" ([L1RL](#)),
- (3) "ICS RH" ([R1RL](#)),
- (4) "EXT WARN LIGHTS A" ([L1WW](#)),
- (5) "EXT WARN LIGHTS B" ([R1WW](#)),
- (6) "VHF 1" ([L1RC](#)),
- (7) "VHF 2" ([R1RC](#)),
- (8) "HF 1 CONTROL" ([L11RE](#)),
- (9) "HF 2 CONTROL" ([R11RE](#)),
- (10) "HF 1 PWR" ([L1RE](#)),

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(11) "HF 2 PWR" (**R1RE**).

- C. Connect the headset in "HEADPHONE" jack connector of control unit (**3RK**).
- D. Check that (**PAX**) door is open.

4. CHECK OF ERASE FUNCTION

- A. Press "ERASE" pushbutton of cockpit voice recorder control unit (**3RK**) for one second.
- B. One second later, check that a 400 Hz signal is heard in the headset connected to the "HEADPHONE" jack connector.
- C. Close (**PAX**) door or simulate closing by tripping the position of microswitches (**1MW**) and (**2MW**).
- D. Press again the "ERASE" pushbutton of the cockpit voice recorder control unit for one second.
- E. Check that no 400 Hz signal is heard in the helmet.

5. CHECK OF TEST FUNCTION

- A. Check the "TEST" pushbutton of the cockpit voice recorder control unit (**3RK**) for one second.
- B. Check for operation of the green indicator light and flashing of the "PASS" and "FAIL" lights.
- C. Check that a 800 Hz signal is heard for two seconds in the helmet connected to the "HEADPHONE" jack connector.

6. CHECK OF AUDIO FUNCTION

- A. Check that "SPK" keys of ICS (**L2RL**) (pilot) and (**R2RL**) (copilot) are not pressed in.
- B. Using the headset, check that ambient noise is correctly picked up by the cockpit mike.
- C. Program VHF 1 and VHF 2 transceivers to a frequency of 131.15 MHz.
- D. Program HF 1 and HF 2 transceivers to a frequency of 6175 kHz.
- E. In sequence, press in then release "VHF 1", "VHF 2", "HF 1" and "HF 2" "AUDIO" keys of pilot ICS (**L2RL**).
- F. Each time a key is actuated, check for frequency tuning in the headset connected to the "HEADPHONE" jack connector.
- G. Repeat the test with copilot ICS (**R2RL**).
- H. Change the frequency of VHF 1 and VHF 2 transceivers.
- I. In sequence, press in then release "VHF 1" and "VHF 2" "MICRO" keys of the pilot ICS (**L2RL**) and perform a transmission test using the headset mike, then the hand mike, then the oxygen mask mike.

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- J. Each time a key is actuated, check for intercommunication between each mike and the headset connected to the "HEADPHONE" jack connector.
- K. Release the pilot "MICRO" keys and repeat the test with copilot ICS ([R2RL](#)).

7. CHECK OF ACCELERATION CONTACT LOGIC CIRCUIT

- A. Connect "NO" terminal to ground by creating a short-circuit between said terminal and "C" terminal of acceleration contact ([5RK](#)) then break the ground connection.
- B. Using control unit ([3RK](#)), check that cockpit voice recorder ([2RK](#)) is no longer energized. The green indicator light and the "PASS" and "FAIL" light should not illuminate.
- C. Disengage "VOICE RECORDER" circuit breaker ([1RK](#)) then engage it.
- D. Using control unit ([3RK](#)), check that cockpit voice recorder ([2RK](#)) is energized again. The green indicator light and the "PASS" and "FAIL" light should illuminate.

8. FINAL STEPS

- A. Disconnect the headset.
- B. De-energize the aircraft systems (Refer to [TASK 24-00-00-860-801](#)).

FALCON 900EX AIRCRAFT MAINTENANCE MANUAL

TASK 31-31-50-710-801 OPERATIONAL TEST OF THE COCKPIT VOICE RECORDER (CVR) SYSTEM

1. OVERVIEW OF THE JOB

Operation code: 31-31-50-710-801-01

2. LOGISTICS

A. References

Reference

- [24-00-00-860-801](#)

Designation

ENERGIZATION / DE-ENERGIZATION OF THE AIRCRAFT

B. Energy

- ELECTRICAL

C. Access

Reference

- [PAX](#)

Designation

PASSENGER DOOR

D. Miscellaneous

- HEADSET (LOCAL PROCUREMENT)

3. PRELIMINARY STEPS

Refer to **fig. 1**

- Connect the electrical ground power unit (Refer to [TASK 24-00-00-860-801](#), paragraph "Connection of the Electrical Ground Power Unit").
- Energize the aircraft systems (Refer to [TASK 24-00-00-860-801](#), paragraph "Energization with the Electrical Ground Power Unit").

4. OPERATIONAL TEST

Refer to **fig. 1**

- A/C with M 2022 or M 2818:

- On CVR control unit ([3RK](#)):
 - Make sure that the "STATUS" led (1) is extinguished.
 - Connect the headset to the "HEADPHONE" connector (3).
 - Press the "TEST" pushbutton (2) for one second.
 - One second later, check that:
 - a 800-Hz signal is heard in the headset for approximately 2 seconds,
 - the "STATUS" led (1) illuminates for approximately 1 second.

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NOTE: After the test, if the "STATUS" led (1) remains illuminated and no signal is heard, a fault has been detected.

B. A/C with M 2819 or M 2841:

(1) On CVR control unit (**3RK**):

- (a) Make sure that the "STATUS" led (**513FZ**) is extinguished,
- (b) Connect the headset to the "HEAD PHONE" connector (**514FZ**).
- (c) Press the "TEST" pushbutton (**511FZ**) for one second.
- (d) Check that:
 - a 800-Hz signal is heard in the headset for approximately 2 seconds,
 - the "STATUS" led (**513FZ**) remains extinguished.

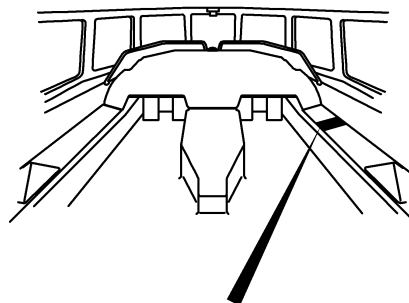
NOTE: After the test, if the "STATUS" led (**513FZ**) remains illuminated and no signal is heard, a fault has been detected.

5. FINAL STEPS

Refer to **fig. 1**

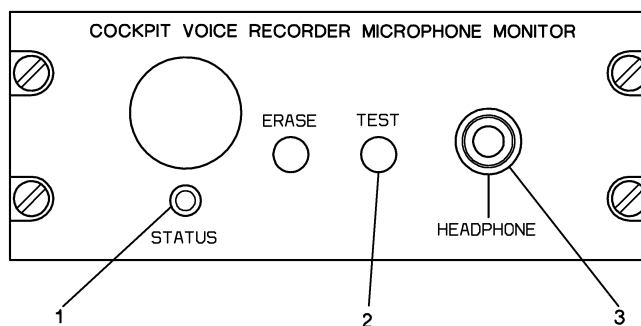
- A. Disconnect the headset from the "HEADPHONE" connector (3) or "HEAD PHONE" connector (**514FZ**),
- B. De-energize the aircraft systems (Refer to **TASK 24-00-00-860-801**, paragraph "De-energization with the Electrical Ground Power Unit").
- C. Disconnect the electrical ground power unit (Refer to **TASK 24-00-00-860-801**, paragraph "Disconnection of the Electrical Ground Power Unit").

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A/C WITH M 2022 OR M 2818

3RK



A/C WITH M 2819 OR M 2841

3RK

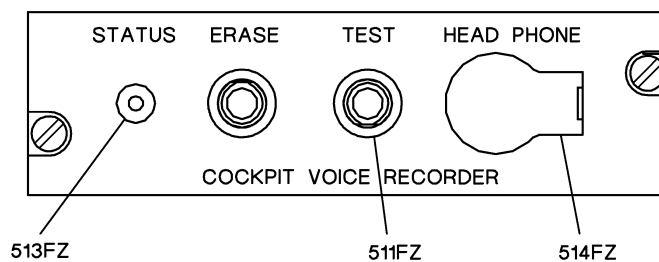


Figure 1: Location of Cockpit Controls

Effectivity: A/C WITHOUT M1827

Rev. Date: MAR 15/2011

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