

AIRWORTHINESS DIRECTIVE

released by DIRECTION GENERALE DE L'AVIATION CIVILE

Inspection and/or modifications described below are mandatory. No person may operate a product to which this Airworthiness Directive applies except in accordance with the requirements of this Airworthiness Directive.

Translation of 'Consigne de Navigabilité' ref. : 1999-450(B) R1
In case of any difficulty, reference should be made to the French original issue.

DASSAULT AVIATION

All FALCON aircraft

Consequences of YK2 on airborne systems (ATA all)

1. APPLICABILITY:

All DASSAULT FALCON aircraft.

2. REASON:

The assessment performed by Dassault Aviation on the consequences of YK2 on airborne systems certificated on the responsibility of Dassault Aviation and Dassault Falcon Service revealed a bit of malfunctions some of which being able to affect the airworthiness. Furthermore, some equipment suppliers have not yet provided with clear data relating to consequences of YK2 on the functions of their equipment.

In order to determine the necessary actions, equipment has been ranked in three categories depending to the following criteria:

- a) Those for which malfunctions are known and which could affect airworthiness.
- b) Those for which the equipment supplier has not yet provided with clear data but which are considered not dealing with dates.
- c) Those for which the equipment supplier has not yet provided with clear data or has not performed the YK2 compliance assessment and which deal with dates (eg: navigation systems).

Note 1: Furthermore, Dassault Aviation has identified some malfunctions which do not affect airworthiness, which are subject of Dassault recommendations, but which are not addressed by this AD.

In order to avoid known or possible malfunctions which could affect airworthiness the following actions are rendered mandatory.

3. COMPLIANCE:

Prior to December 31, 1999, check whether listed below equipment are installed on aircraft and perform the required actions:

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n/GH

December 15, 1999

DASSAULT AVIATION
All FALCON aircraft

1999-450(B) R1

3.1. Equipment showing known malfunctions which could affect airworthiness

Equipment	Supplier	Reference	Action and compliance time	Remark
GNS RPU	AlliedSignal	30050-0X0X	See CN 1999-472(AB) and Note 2 below.	Receiver OMEGA/VLF à deactivate.
GNS 500 RCU	AlliedSignal	10050-X-XX-XXXX	See CN 1999-472(AB) and Note 2 below.	Receiver OMEGA/VLF à deactivate.
GNS 1000 FMC	AlliedSignal	30150-0X-0X	See CN 1999-409(AB).	See Memo AlliedSignal 355 "Year 2000 effects on magnetic variation modeling".
GNS-XES	AlliedSignal	17450-XXXX-XXXX	See CN 1999-409(AB).	See Memo AlliedSignal 355 "Year 2000 effects on magnetic variation modeling".
GNS-XLS	AlliedSignal	17960-010X-XXXX	See CN 1999-409(AB).	See Memo AlliedSignal 355 "Year 2000 effects on magnetic variation modeling".
GNS-X NMU	AlliedSignal	14141-XXXX-XXXX	See CN 1999-409(AB).	See Memo AlliedSignal 355 "Year 2000 effects on magnetic variation modeling".

Note 2 : Before December 31, 1999, deactivate the affected equipment according to instructions provided by the equipment manufacturer. The equipment must be disembarked if there are no available deactivation instruction.

In case the equipment is not replaced, relevant MMEL, AFM and operational requirements must be observed.

3.2. Equipment for which the equipment supplier has not yet provided with clear data but which are considered not dealing with dates

Check whether listed below equipment are installed on aircraft. Use of these equipment is prohibited as a precautionary measure from December 31, 1999 and the instructions of the Master Minimum Equipment List, the Aircraft Flight Manual and the operational regulations must be satisfied. Use will be authorized again after January 1st, 2000 and after function check of the involved equipment on ground, engines running as per applicable documentation.

Check the absence of warning or any message. In case of malfunction detected during the check, the use of the equipment will be prohibited.

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Equipment	Supplier	Reference
Recorder control unit	ERCA	BC1709E
TACAN decoder	ERCA	CI1178
Recorder board	ERCA	CI905A
Emergency beacon	GARETT	607690-2
Decoder	GEC Marconi	AA9002-4
altimeter	LEAR SIEGLER	C0001-81103
Anemomachmeter	LEAR SIEGLER	B0200-81127
altimeter	LEAR SIEGLER	C0001-81103
RMI	LITTON	3137L821C
RMI 301	LITTON	520-3010-003
RMI 321	LITTON	520-3210-001
Marker receiver RM 671S	SEXTANT	030-1020-004
Anemomachmeter	SMITHS	B0200-81105
TACAN decoder	THOMSON CSF	S74360G0001

3.3. Equipment for which the equipment supplier has not yet provided with clear data or has not performed the YK2 compliance assessment and which deal with dates

Considering the possible non detectable malfunctions with the hereabove check, the use of the following systems is definitively prohibited from December 31, 1999. The system must be deactivated and the instructions of the Master Minimum Equipment List, the Aircraft Flight Manual and the operational regulations must be satisfied.

Equipment	Supplier	Type/reference	Remark
VLF display unit	Allied/Global/Bendix	10060-7	
Carousel SIX INS CDU	Litton Systems Canada	7892740-XXXX	Up dating solutions are available. See Service Information Letter 98-4 du 21/9/98
Carousel SIX INU	Litton Systems Canada	7892360-XXXX	Same remark
CMA -734-1	CANADIAN MARCONI	244-412-450-0000	OMEGA navigation system. OMEGA stations are inoperative since September 1997. The supplier has not assessed the compatibility YK2
CMA-771-MK1		244-473-157-029	Same remark
CMA -771		473157-003 473157-009 473157-029	Same remark
LTN X11	LITTON	457300-03-35 457300-04	Same remark
	SEXTANT	87272039V29 87272054V00/V07/ V10	Same remark
TRACOR 7800	TRACOR AEROSPACE	138000-72	Same remark
UNS 764	UNIVERSAL	100-601200-003 100-601200-103	Same remark
UNS 1-A	UNIVERSAL	1030-2	Same remark

Equipment	Supplier	Type/reference	Remark
VLF display unit	ONTRAC	VLF 1500	
VLF control unit	ONTRAC	VLF100-1	
VLF display unit	ONTRAC	VLF200-5	
VLF receiver computer	ONTRAC	VLF300-4	
VLF receiver computer	ONTRAC	VLF300-5	

REF. : Nil.

| This Revision 1 replace original AD 1999-450(B) dated November 17, 1999.

EFFECTIVE DATES:

| **Original AD : Upon receipt from NOVEMBER 17, 1999**
 Revision 1 : DECEMBER 25, 1999