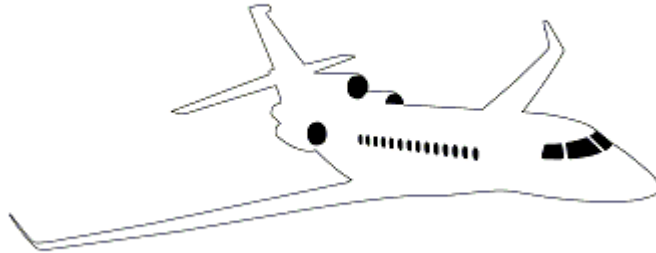


FALCON SERVICE BULLETIN

FALCON 8X



No 590

APRIL 19, 2022

MANDATORY

ATA 00

**GENERAL
ENHANCED AVIONICS SYSTEM
EASY III - 4TH CERT**

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**GENERAL
ENHANCED AVIONICS SYSTEM
EASY III - 4TH CERT**

Initial issuance

April 19, 2022

List of effective pages:
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**GENERAL
ENHANCED AVIONICS SYSTEM
EASy III - 4TH CERT**

1. PLANNING INFORMATION
A. EFFECTIVITY

This Service Bulletin is applicable to FALCON 8X aircraft with serial numbers 402 and subsequent that have not previously implemented DASSAULT AVIATION modification FALCON 8X M2091.

NOTE: Implementation of DASSAULT AVIATION Service Bulletin 7X-550 (M1925) "EASy III - 3RD CERT" is a prerequisite.

B. REASON

The purpose of this Service Bulletin is to upgrade the aircraft avionics to the EASy III load 16.6.3 standard that fixes a weak point in the Falcon 7X EASy avionics architecture.

This weak point can lead to the display of misleading data on the display units.

C. DESCRIPTION

The operation consists in performing a full software load.

D. COMPLIANCE

Mandatory as prescribed by the Airworthiness Authorities of the country of registration of the aircraft.

E. APPROVAL

This Service Bulletin covers DASSAULT AVIATION modification FALCON 8X M2091 that has been approved by EASA.

The technical content of this document is approved under the authority of the DOA ref. EASA.21J.051.

F. LABOR

Estimated labor-hours: Refer to Service Bulletin Commercial Summary.

NOTE: These labor-hours only concern the work described in this Service Bulletin and do not include other maintenance work that may be performed on this occasion.

G. WEIGHT AND BALANCE

Change in weight: None.

Change in balance with respect to 25% MAC: None.

H. REFERENCES

Aircraft Maintenance Manual:

- GENERAL MAINTENANCE AND SAFETY PRECAUTIONS (Refer to [TASK 20-00-00-910-801](#))
- USE OF THE AIRCRAFT MAINTENANCE PROCEDURES (Refer to [TASK 20-00-00-910-803](#))
- ENERGIZATION / DE-ENERGIZATION OF THE AIRCRAFT (Refer to [TASK 24-00-00-860-801](#))
- PERIODIC DATABASE LOADING (Refer to [TASK 45-90-00-860-801](#))

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- DATABASE LOADING (Refer to [TASK 45-90-00-860-803](#))
- SOFTWARE LOADING (Refer to [TASK 45-90-00-860-804](#))
- USE OF THE APM SETTINGS TOOL (Refer to [TASK 45-91-00-910-801](#))

I. OTHER PUBLICATIONS AFFECTED

The following publication is revised to account for the changes introduced by this Service Bulletin (refer to paragraph 2.D.) :

- Airplane Flight Manual.

The following publications will be revised at a later date to account for the changes introduced by this Service Bulletin:

- CODDE 2 revision 6,
- QRH 2 revision 7,
- eDG/edispatch revision 7.

Operational Suitability Data:

- Operational Suitability Data - Flight Crew:
 - Refer to OSM - FC revision 7 or subsequent revision,
- Operational Suitability Manual - Master Minimum Equipment List:
 - Refer to paragraph 2.D..

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2. ACCOMPLISHMENT INSTRUCTIONS
A. GENERAL INSTRUCTIONS AND SAFETY PRECAUTIONS

Obey the general maintenance and safety precautions (Refer to [TASK 20-00-00-910-801](#)).

B. PRELIMINARY STEPS

The aircraft must be in the maintenance configuration (Refer to [TASK 20-00-00-910-803](#)).

C. PROCEDURE

CAUTION: PRIOR TO STARTING THE SOFTWARE LOADING, MAKE SURE THAT YOU HAVE ALL THE REQUIRED CD-ROMS MENTIONED IN PARAGRAPH 3.

- (1) Energize the aircraft systems (Refer to [TASK 24-00-00-860-801](#) - "Connection of the electrical ground power unit" and "Energization with the electrical ground power unit").
- (2) Record the current APM Settings configuration of the aircraft (Refer to [TASK 45-91-00-910-801](#)).
- (3) Load the new software and databases in accordance with the data loading procedures (Refer to [TASK 45-90-00-860-801](#)), (Refer to [TASK 45-90-00-860-803](#)), (Refer to [TASK 45-90-00-860-804](#)) and following the sequence hereafter:

CAUTION: PRIOR TO STARTING THE OPERATIONAL SOFTWARE LOADING, MAKE SURE THAT THE "CRC32" VALUE CONTAINED ON THE LOAD CD-ROM MATCHES THE CRC VALUE SHOWN ON FALCON PORTAL (REFER TO [TASK 45-90-00-860-804](#)).

SOFTWARE	KEY WORD	EFFECTIVITY
Load 16.6.3	Operational Software Top Level System Part Number EB60001546-0117	All aircraft
Creation of the APM Settings files: • Create and save the APM Settings file on the hard drive using the APM Settings Tool on the HONEYWELL EPIC Tools CD-ROM and the configuration noted previously. Use the settings.def definition file from the load 16.6.3 Operation Software located in the apm_defn folder. <u>NOTE:</u> The create and load feature should not be used. • Load the settings file created from the hard drive using DLS. • Make a copy of this file generated by the APM Settings Tool on a media (e.g. CD-ROM) and keep a copy on-board the aircraft. <u>NOTE:</u> It is recommended to print the "settings.text" file generated by the APM Settings Tool to keep a record of the latest settings configuration.		
TT60005540-XXXXX*	APM Options parameter configuration <u>NOTE:</u> If an authorization code is required, it will be specified on the CD ROM label (Refer to TASK 45-90-00-860-803)	
16.6.3*	LDI	
Refer to SB 7X-440	Airline Modifiable Information (AMI) database	Aircraft with Datalink installed

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SOFTWARE	KEY WORD	EFFECTIVITY
V0033*	ECL	All aircraft
V0014*	FLT (Fault Code database)	
V0012*	OPS (Consequences Database)	
Latest applicable version	ECB	
PS60002397-0004*	FMS AEDB	
PS60001004-0004*	FMS MAGVAR	
PS60004646-002*	FMS TOLD	
Full charts	INDS Electronic Terminal Charts	
996-0145-6XX* (threat)	INDS EGPWS Data	
996-0114-5XX* (envelope modulation)		
996-0146-6XX* (terrain server)		
DS3-YYCC-RRR*	INDS EPIC AIRSPACE & COMM NAVIGATION DATA	A/C without RNP-AR
DS4-YYCC-RRR*		A/C with RNP-AR=0.3
PS60001005-0015*	ATC database	Aircraft with CPDLC ATN-B1
P1148-Issue-2*	ACMF file	Optional but recommended to all aircraft for troubleshooting

*or latest applicable version (the most current software and database versions which can be loaded on the aircraft are now tracked in the "SOFTWARE & DATABASES - Software & Databases Status" section of the Falcon portal, where you will be given the most up-to-date versions depending on the aircraft configuration).

- (4) De-energize the aircraft systems (Refer to [TASK 24-00-00-860-801](#) - "De-energization with the electrical ground power unit" and "Disconnection of the electrical ground power unit").
- (5) Discard all previous versions of the software, Options, Settings, Operator Tools and Database CD-ROMs.

D. DOCUMENTATION

- (1) Remove AFM-CP0177-PUB from Airplane Flight Manual revision 5 and CODDE 2 revision 5 and replace it with CP0178-PUB in AFM.
AFM-CP0178-PUB will be incorporated in AFM revision 6. For aircraft equipped with this revision or subsequent one, no action is required.
- (2) Remove MMEL-CP0299-PUB from MMEL revision 15 and replace it with MMEL-CP0302-PUB.
MMEL-CP0302-PUB will be incorporated in MMEL revision 16. For aircraft equipped with this revision or subsequent one, no action is required.

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Record compliance with this Service Bulletin in the appropriate aircraft documents.

Fill out the electronic Service Bulletin reply form accessible from the "Service Bulletin" page on the Falcon portal or register SB implementation at Sbconfiguration@dassault-aviation.com, providing all useful information for aircraft identification:

- aircraft type and serial number,
- SB compliance: complete or section(s) applied,
- remarks,
- compliance date,
- service center.

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3. MATERIAL INFORMATION
A. NEW SOFTWARE / DATABASES REQUIRED

NEW P/N	SOFTWARE	KEY WORD	EFFECTIVITY	SUPPLIER
MM7034838-018	Operational Software Top Level System Part Number EB60001546-0117	Load 16.6.3	All aircraft	HONEYWELL
PUB: 1001	16.6.3*	LDI		DASSAULT AVIATION available on Falcon eData

* or latest applicable version (the most current software and database versions which can be loaded on the aircraft are now tracked in the "SOFTWARE & DATABASES - Software & Databases Status" section of the Falcon Portal, where you will be given the most up-to-date versions depending on the aircraft configuration).

B. CD ROMS P/N REQUIRED ONLY IF NOT PREVIOUSLY PROCURED

NEW P/N	SOFTWARE	KEY WORD	EFFECTIVITY	SUPPLIER
Refer to Service Bulletin 7X-440		AMI database	Aircraft with Datalink installed	GDC or ARINC Direct or SATCOM DIRECT
DM60001005-0015*	PS60001005-0015*	ATC database	Aircraft with SB 7X-308	HONEYWELL
PUB: 1001	P1148-Issue-2*	ACMF	Optional but recommended to all aircraft for troubleshooting	DASSAULT AVIATION available on Falcon eData
DS3	DS3-YYCC-RRR*	INDS EPIC AIRSPACE & COMM NAVIGATION DATA	A/C without RNP-AR	Integrated Navigation
DS4	DS4-YYCC-RRR*		A/C with RNP-AR=0.3	Data Service (INDS)
PUB: 804	Latest applicable version	ECB	All aircraft	DASSAULT AVIATION
TM60005558-102	EPIC Tools including: • Remote Terminal - v 26.1 • DLS - v 8.6.1 • APM settings tool - v 3.0 • APM restoration tool - v 2.2			HONEYWELL

DASSAULT AVIATION Proprietary Data

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NEW P/N	SOFTWARE	KEY WORD	EFFECTIVITY	SUPPLIER
TT60005540-XXXXX*	TT60005540-XXXXX*	APM Options parameter configuration		HONEYWELL through DASSAULT AVIATION
PUB: 1001	V0014*	FLT (Fault Code database)		DASSAULT AVIATION available on Falcon eData
PUB: 1001	V0012*	OPS (Consequences Database)		
PUB: 1001	V0033*	ECL		
DM60002397-0004*	PS60002397-0004*	FMS AEDB		HONEYWELL
DM60004646-002*	PS60004646-002*	FMS TOLD		
DM60001004-0004*	PS60001004-0004*	FMS MAGVAR		
Full Charts		INDS Electronic Terminal Charts		INDS
EGPWS Database	996-0145-6XX* (threat)	INDS EGPWS Data		
	996-0114-5XX* (envelope modulation)			
	996-0146-6XX* (terrain server)			

*or latest applicable version (the most current software and database versions which can be loaded on the aircraft are now tracked in the "SOFTWARE & DATABASES - Software & Databases Status" section of the Falcon Portal, where you will be given the most up-to-date versions depending on the aircraft configuration).