

FALCON SERVICE BULLETIN ADVISORY

DASSAULT AVIATION
SERVICE BULLETIN:

F900-371

DATE:

February 15, 2006

ATA CHAPTER: 34

COVERED MOD: M5113

TITLE: **NAVIGATION - ATC - EXTENDED SQUITTER FUNCTION INHIBIT**

EFFECTIVITY: S/N 1 through 202, equipped with:

- COLLINS TDR-94D ATCs P/N 622-9210-004
(Dassault Aviation modification M2358 applied).

or

- COLLINS TDR-94D ATCs P/N 622-9210-007 (SB F900-333 and revision
1 or Dassault Aviation modification M3623 applied or SB 348 and
revision 1 or Dassault Aviation modification M3791).

REASON:

COLLINS TDR-94D-004 or TDR-94D-007 Mode S transponder was capable of the first definition of the ADS-B (Automatic Dependant Surveillance - Broadcast) Extended Squitter transmission with ground stations in accordance with RTCA DO-260 standard. Since then, DO-260 has been updated to DO-260A introducing a new format for the ADS-B messages process transmission to ground stations. The new ADS-B message format is no longer compatible with the initial one, as the Extended Squitter decoding process may provide a wrong aircraft position to ATC which is now compliant with the RTCA DO-260A format.

The purpose of this Service Bulletin is to inhibit the Extended Squitter capability to prevent wrong aircraft position information to the ground stations processing the DO-260A ADS-B transmission format.

DESCRIPTION:

On each of the ATCs, the operation consists in grounding the terminal corresponding to the activation of this function.

Note: SB F900-368 (TDR-94D - ATC reply inhibit on ground) consists in similar operation on the same equipment. To reduce maintenance time, Dassault Aviation recommends to comply simultaneously with both Service Bulletins.

RELATED SB's: SB 333, 333 rev. 1 and SB 368.

COMPLIANCE: **Recommended at the next "A" inspection.**

ESTIMATED 2 hours for modification and testing.

LABOR-HRS: 1 hour for access time.

Note : Estimated labor hours concern only the work described in this Service Bulletin and do not include other maintenance work which may be performed on this occasion.

MATERIAL INFORMATION: Excluding locally procured material.

PART NUMBER TO ORDER	QTY	2006 UNIT PRICE (US\$)	REMARKS
SBF900EX0282A	1	372.70	

SPECIAL CONDITIONS: None

TO ORDER, CONTACT YOUR DASSAULT FALCON SPARES ACCOUNT REPRESENTATIVE

Prices are subject to change without notice

FALCON SERVICE BULLETIN

FALCON 900

No 371

FEBRUARY 15, 2006

ATA 34-42

NAVIGATION

ATC

EXTENDED SQUITTER FUNCTION INHIBIT

Copyright © 2006 by Dassault Aviation.
All rights reserved. No part of this work may be reproduced or copied
in any form or by any means without written permission
of Dassault Aviation.



FALCON 900

F900-371

NAVIGATION

ATC

EXTENDED SQUITTER FUNCTION INHIBIT

INITIAL ISSUANCE

date: February 15, 2006

List of effective pages:
1 to 7.



NAVIGATION

ATC

EXTENDED SQUITTER FUNCTION INHIBIT

1 . PLANNING INFORMATION

A . EFFECTIVITY

This Service Bulletin is applicable to MYSTERE-FALCON 900 aircraft with serial numbers 1 through 202, equipped with:

– COLLINS TDR-94D ATCs P/N 622-9210-004 (DASSAULT AVIATION modification MF900 M2358 applied).

or

– COLLINS TDR-94D ATCs P/N 622-9210-007 (SB F900-333 and revision 1 or DASSAULT AVIATION modification MF900 M3623 applied or SB F900-348 and revision 1 or DASSAULT AVIATION modification MF900 3791).

B . REASON

COLLINS TDR-94D “-004” or “-007” Mode S transponder was capable of the first definition of the ADS-B (Automatic Dependant Surveillance – Broadcast) “Extended Squitter” transmission with ground stations in accordance with RTCA DO-260 standard. Since then, DO-260 has been updated to DO-260A introducing a new format for the ADS-B messages process transmission to ground stations. The new ADS-B message format is no longer compatible with the initial one, as the “Extended Squitter” decoding process may provide a wrong aircraft position to ATC compliant which is now compliant with the RTCA DO-260A format.

The purpose of this Service Bulletin is to inhibit the “Extended Squitter” capability to prevent wrong aircraft position information to the ground stations processing the DO-260A ADS-B transmission format.

C . DESCRIPTION

On each of the ATCs, the operation consists in grounding the terminal corresponding to the activation of this function.

D . COMPLIANCE

Recommended at the next “A” inspection (300 flight hours or 6 months).

E . APPROVAL

This Service Bulletin covers DASSAULT AVIATION modification MF900 M5113 which has been approved under the authority of DOA nr. EASA.21J.051.

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

F . LABOR

Estimated labor-hours: 2 hours for modification and testing.
1 hour for access time.

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



FALCON 900

F900-371

G . MATERIAL – PRICE AND AVAILABILITY

The modification kit may be obtained from either address listed below:

Western hemisphere: DASSAULT FALCON JET CORP.
SPARES DISTRIBUTION CENTER
200 RISER ROAD
LITTLE FERRY, NJ 07643 U.S.A.

Telephone:

CANADA and U.S.A.: 1-800-800-4036
MEXICO: 001-800-800-4036
Other countries: 1-201-541-4809

Fax:

CANADA and U.S.A.: 1-800-800-4817
MEXICO: 001-800-800-4817
Other countries: 1-201-440-7021

Other continents:

DASSAULT AVIATION
Falcon Spares
BOITE POSTALE N° 101
AEROPORT DU BOURGET
93352 – LE BOURGET Cedex (FRANCE)

Please contact your Dassault Aviation
Account Representative
Telephone: 33 (0)1.48.35.56.78
Fax: 33 (0)1.48.35.56.00

Price and availability on request.

H . TOOLING – PRICE AND AVAILABILITY

Test set ATC601.

I . WEIGHT AND BALANCE

Change in weight: None.

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

J . REFERENCES

Wiring Manual:

- Chap. 23-11-10.
- Chap. 23-11-30.

Maintenance Manual procedure:

- MP 20-000 or Maintenance and Repair Instructions chap. 51-50-05.
- MP 20-902 or Maintenance and Repair Instructions chap. 51-50-04.
- MP 34-516.

K . OTHER PUBLICATIONS AFFECTED

The Wiring Manual and the Maintenance Manual will be revised as a consequence of this Service Bulletin.



FALCON 900

F900-371

2 . ACCOMPLISHMENT INSTRUCTIONS

A . PRELIMINARY STEPS

- (1) Aircraft on wheels, battery switches OFF, no ground power unit connected to the aircraft.
- (2) Open the nose cone.
- (3) In the LH electrical cabinet FR4/FR5, remove the completion items required to gain access to ATC1 (L3SH).

B . GENERAL ELECTRICAL INSTRUCTIONS

- (1) When mechanical retrofit and/or modification operations are performed on the aircraft, take special care to protect the wiring in order to prevent metal chips (or burrs) from penetrating into the wire bundles, since they could eventually damage the insulation sheathing of the wires. Whenever possible, it is recommended that the wiring be removed from the work area. If that is not possible, it is absolutely necessary to protect the wiring.
- (2) New wires which are installed alongside existing wires should be secured by the existing clamps.
- (3) Check that all connections are properly protected to ensure proper insulation and that markings are visible and appropriate.
- (4) Connector wires should be inserted and extracted as per the recommendations in MRI, chapter 51-50-04.
- (5) Electric and electronic equipment should be removed and installed as per the recommendations in MRI, chap. 51-50-05.
- (6) Visually inspect the area for particles or debris, then vacuum-clean. The blowing of compressed air is prohibited since it could move metal chips to inaccessible areas.

C . MODIFICATION

- (1) Remove ATC1 (L3SH) (LH electrical cabinet FR4/FR5) and ATC2 (R3SH) (nose cone), and gain access to the wiring of connectors L3SH1 and R3SH1.
- (2) Perform the electrical modifications in accordance with the diagram in figure 1 of this Service Bulletin.

D . CHECK – TESTING

- (1) Conduct a wire by wire inspection of the aircraft wiring following the diagram in figure 1.
- (2) Install ATC1 (L3SH) and ATC2 (R3SH).
- (3) Using the test set ATC601 verify in the SQUITTER TEST page, the squitter is not detected.

NOTE: Downlink format No. 17 is the data base dedicated to the Extended Squitter.

- (4) Perform an operational test of the ATCs in accordance with procedure 34-516 of the Maintenance Manual.



FALCON 900

F900-371

E . FINAL STEPS

Reverse the operations described in paragraph 2. A.

F . RECORDING

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

Fill out the card located at the end of the Service Bulletin and mail or fax it to Dassault Aviation or Dassault Falcon Jet, or fill out the Compliance Form on line on the Dassault Falcon website.

Incorporate the diagram in figure 1 into the Wiring Manual.



FALCON 900 **F900-371**

3 . MATERIAL INFORMATION

A . MODIFICATION KIT
SBF900EX0282A

NEW P/N	Q T Y	KEY WORD	INSTRUCTIONS DISPOSITION
372-2514-110 01CAN210-1-24	2 3.28 ft (1 m)	Contact #24 single wire	L3SH1-59/R3SH1-59
01EQTC0S20-05-079-24 59	2 2	Lug Sleeve 01PR0TMS3-32GR	Terminal marking

B . LOCAL PROCUREMENT

As indicated in Maintenance Manual, Chap. 12 (DTM536G):

– Green CELOMER varnish 6060B.

DASSAULT AVIATION Proprietary Data



FALCON 900

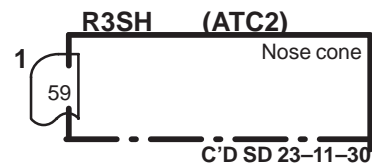
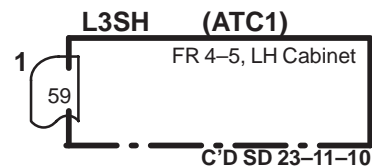
F900-371

PAGE INTENTIONALLY LEFT BLANK



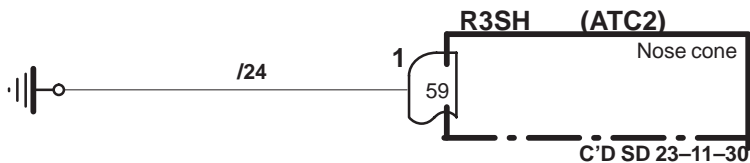
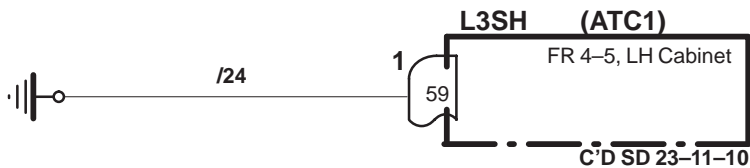
FALCON 900 **F900-371**

BEFORE MODIFICATION



AFTER MODIFICATION

INCORPORATE TO WDM, CHAP. 23-11-10 and 23-11-30



FOR COMPLEMENT SEE WDM CHAP. 23-11-10 or 23-11-30

- FIGURE 1 -

FROM _____

ZIP CODE _____



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



BUSINESS REPLY MAIL
FIRST CLASS MAIL PERMIT NO. 3306 HACKENSACK, NJ 07602

POSTAGE WILL BE PAID BY ADDRESSEE:

DASSAULT FALCON JET CORP.
PO BOX 1946
SO HACKENSACK NJ 07606-9946

ATTENTION:
FIELD SERVICE DEPARTMENT



DASSAULT AVIATION
78, Quai Marcel Dassault
Cedex 300
92552 SAINT-CLOUD Cedex
FRANCE

A l'attention de DSC

SERVICE BULLETINS COMPLIANCE

FALCON 900 A/C S/N

--	--	--	--

DASSAULT AVIATION Number

ATA Number

F900	371
------	-----

F900	34	42	
------	----	----	--

Coding:

- C** complete compliance
- T** partial compliance

--	--

--	--	--	--

--	--

--	--	--	--

Performed by:

Remarks:

Initial issuance

Date :

Signature :

SERVICE BULLETINS COMPLIANCE

Would you be kind enough to inform us that this Service Bulletin is complied with:

– For "Western Hemisphere", mail upper card (**No postage necessary if mailed in the U.S.A.**) or fax to Dassault Falcon Jet: 1–201–541–4700.

– For "Other Continents", mail card herebelow or fax to Dassault Aviation: 33 (0)1.47.11.65.21.

On the occasion, if other Service Bulletins have been simultaneously complied with could you complete the blank spaces provided for this purpose.

APPLICATION DE BULLETINS DE SERVICE

Lorsque vous aurez appliqué ce Bulletin de Service sur votre avion, veuillez avoir l'amabilité de nous en informer :

– Utiliser la carte réponse supérieure pour continent américain (**Dispensée de timbrage pour postage depuis les U.S.A.**) ou le fax pour Dassault Falcon Jet : 1–201–541–4700.

– Ou la carte réponse inférieure pour autres continents ou le fax pour Dassault Aviation : 33 (0)1.47.11.65.21.

Eventuellement, si d'autres Bulletins de Service ont été appliqués simultanément, vous pouvez les mentionner dans les cases vierges prévues à cet effet.

SERVICE BULLETINS COMPLIANCE

APPLICATION DES BULLETINS DE SERVICE

FALCON 900 Avion N°

--	--	--	--

DASSAULT AVIATION Number
Numéro DASSAULT AVIATION

ATA Number
Numéro ATA

F900	371
------	-----

F900	34	42	
------	----	----	--

Coding:

- C** complete compliance
application totale
- T** partial compliance
application partielle

--	--

--	--	--	--

Performed by:

Fait par :

Remarks:

Initial issuance

Date :

Signature :

Remarques :

Edition originale