

FALCON SERVICE BULLETIN

FALCON 900

No 411-R1

JULY 21, 2010

ATA 53-41

**FUSELAGE
APU AIR INTAKE
PROTECTION AGAINST FLUID INGESTION
DURING DE-ICING PROCEDURE**

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FALCON 900

F900-411

FUSELAGE

APU AIR INTAKE

PROTECTION AGAINST FLUID INGESTION DURING DE-ICING PROCEDURE

INITIAL ISSUANCE

date: April 28, 2010

List of effective pages:
1 to 9.

COMPLETE ISSUANCE: REVISION 1

date: July 21, 2010

List of effective pages:
1, 3, 4, 5, 8 and 9

REASON: To correct wording.



FUSELAGE

APU AIR INTAKE

PROTECTION AGAINST FLUID INGESTION DURING DE-ICING PROCEDURE

1 . PLANNING INFORMATION

A . EFFECTIVITY

This Service Bulletin is applicable to MYSTERE-FALCON 900 aircraft with serial numbers 1 through 202 which have not previously implemented DASSAULT AVIATION modification MF900 M5567.

B . REASON

Several operators have complained about the ingress of anti-icing product into the APU air inlet, causing passenger complaints due to a bad smell in cabin.

The purpose of this Service Bulletin is to prevent bad smell in cabin by reducing the risk of anti-icing fluid ingestion into the APU air intake.

C . DESCRIPTION

The operation consists in:

- installing an angle behind the RH pylon trailing edge to drive back the fluid,
- installing a gutter on the upper part of the APU air intake to avoid the fluid ingestion.

D . COMPLIANCE

If you choose to comply with this Service Bulletin, accomplishment can be performed at your convenience.

E . APPROVAL

This Service Bulletin covers DASSAULT AVIATION modification MF900 M5567 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: 4 hours 30.

- Installation of the gutter on the APU air intake: 2 hours 30.
- Installation of the angle: 1 hour.
- Touch paint: 1 hour.

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

F900-411

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

Normal maintenance tooling.

I . WEIGHT AND BALANCE

Change in weight: None.

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

J . REFERENCES

- Standard Practices: procedure 20-001.
- IPC, chap. 49-10-00.
- AMM, procedure 54-114.
- AMM, chap. 12, Ingredients and Consumable Products.

K . OTHER PUBLICATIONS AFFECTED

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

- Aircraft Maintenance Manual.
- Illustrated Parts Catalog.



FALCON 900

F900-411

2 . ACCOMPLISHMENT INSTRUCTIONS

A . PRELIMINARY STEPS

- (1) The aircraft must be in the maintenance configuration (see Standard Practices, procedure 20-001).
- (2) Open the engine 2 RH cowling (456AR) as per AMM procedure 54-114 instructions.

B . INSTALLATION OF THE GUTTER ON THE APU AIR INTAKE (see figure 1)

- (1) Remove the APU air intake grid (see IPC chap. 49-10-00, fig. 01, item 185) taking care not to lose the washers (item 205) if installed.
- (2) Rub the setting surface of the gutter on the APU air intake grid and clean.
- (3) Position the gutter (item 1) on the frame of the grid.
- (4) Counterdrill the eight holes in the gutter to dia. 0.1 in (2.5 mm).
- (5) Enlarge the holes in the gutter to dia. 0.2 in (5.1 mm).
- (6) Set up the tapered washers (item 2) in the countersinking of the eight upper holes of the grid and old the gutter against the APU air intake grid.
- (7) Countersink the holes of the gutter for screws (item 3).
- (8) Sand the countersinking of the eight upper holes of the APU air intake grid.
- (9) Use alodine to protect the countersinking.
- (10) Bond the tapered washers (item 2) in the countersinking of the eight upper holes of the grid using interlaying sealant.
- (11) Install the grid (and the washers item 205 if installed) using only the screws removed for the lower and the side holes.
- (12) Install the gutter with interlaying sealant using the new screws (item 3). Apply a bead of sealant on the gutter.

C . INSTALLATION OF THE ANGLE BEHIND THE TRAILING EDGE OF THE RH PYLON FOR AIRCRAFT S/N 1 THROUGH 165 (see figure 2)

- (1) Scribe a line protracting the profile of the pylon trailing edge upper surface on the fuselage.
- (2) Position the angle in accordance with the line and counterdrill the fuselage to dia. 0.1 in (2.5 mm).
- (3) Enlarge the holes in the angle and the fuselage to dia. 0.125 in (3.3 mm).
- (4) Draw the outline of the angle on the fuselage.
- (5) Remove the angle.
- (6) Countersink the holes in the angle for rivets (item 5).
- (7) Rub the setting surface of the angle on the fuselage and clean.
- (8) Install the angle with interlaying sealant, using rivets (item 5).
- (9) Apply the bead of sealant between angle and fuselage, and angle and pylon.



FALCON 900

F900-411

D . INSTALLATION OF THE ANGLE BEHIND THE TRAILING EDGE OF THE RH PYLON FOR AIRCRAFT S/N 166 AND SUBSEQUENT (see figure 3)

- (1) Position the angle (item 6) against the angle section of the pylon.
- (2) Orientate the angle (item 6) with the upper face parallel with the stringer fastening line.
- (3) Counterdrill the fuselage in accordance with the angle to dia. 0.1 in (2.5 mm). Pin the angle.
- (4) Counterdrill the pylon angle section in accordance with the angle to dia. 0.1 in (2.5 mm).
- (5) Enlarge the holes in the angle and the fuselage to dia. 0.125 in (3.3 mm).
- (6) Enlarge the holes in the angle and the pylon angle section to dia. 0.13 in (3.3 mm).
- (7) Draw the outline of the angle on the fuselage and the pylon angle section.
- (8) Remove the angle.
- (9) Countersink the holes in the angle for rivets (item 7) on the fuselage side only.
- (10) Rub the setting surface of the angle on the fuselage and the pylon angle section and clean.
- (11) Install the angle with interlaying sealant, using rivets (item 7) and (item 8).
- (12) Apply the bead of sealant between angle and fuselage and angle and pylon.

E . FINAL STEPS

- (1) Paint the gutter, the angle and the fasteners in accordance with the paint scheme used for the external skin of the aircraft in the concerned areas.
- (2) Close the engine 2 RH cowling (456AR) as per AMM procedure 54-114 instructions.

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.

FALCON 900
F900-411
3 . MATERIAL INFORMATION
A . MODIFICATION KIT

- (1) Gutter for APU air intake grid: All aircraft
 Kit SBF900-0411A

NEW P/N	Q T Y	KEY WORD	OLD P/N	INSTRUCTIONS DISPOSITION	I T E M	F I G
FGFB853349121	1	Shield gutter			1	1
FGFB853349122	8	Tapered washer			2	1
NAS517V3-4XF	8	Screw	NAS517V3-3XA	To be discarded	3	1

- (2) Gutter for pylon trailing edge: Aircraft MYSTERE-FALCON 900 S/N 1 through 165
 Kit SBF900-0411B

NEW P/N	Q T Y	KEY WORD	OLD P/N	INSTRUCTIONS DISPOSITION	I T E M	F I G
FGFB853349111	1	Angle		See NOTE	4	2
NAS1921M04S02WU	4	Rivet			5	2

NOTE: The angle is delivered pre-drilled.

- (3) Gutter for pylon trailing edge: Aircraft MYSTERE-FALCON 900 S/N 166 and subsequent
 Kit SBF900-0411C

NEW P/N	Q T Y	KEY WORD	OLD P/N	INSTRUCTIONS DISPOSITION	I T E M	F I G
FGFB853349111A1	1	Angle		See NOTE	6	3
NAS1921M04S02WU	4	Rivet			7	3
21215DE3207	1	Rivet			8	3

NOTE: The angle is delivered pre-drilled.

B . LOCAL PROCUREMENT

As per AMM, chap. 12, Ingredients and Consumable Products:

- Interlaying sealant PS892C.
- Bead sealant PR1776B2.
- Paint scheme used for external skin of the aircraft in the area of the modification.
- Alodine 1200.



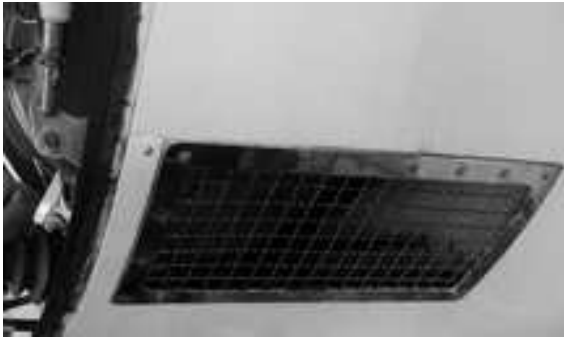
FALCON 900

F900-411

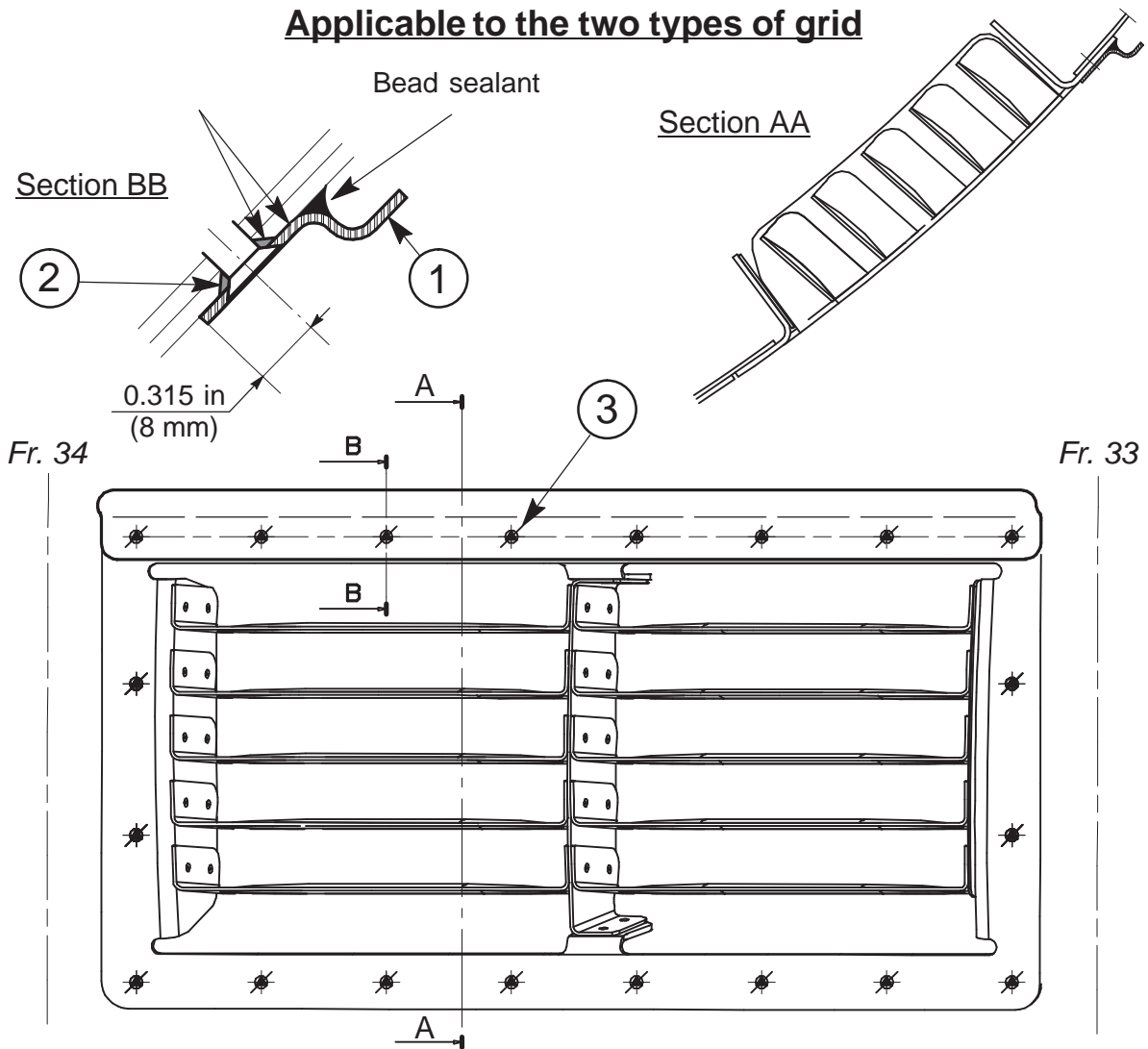
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FALCON 900 **F900-411**



Applicable to the two types of grid

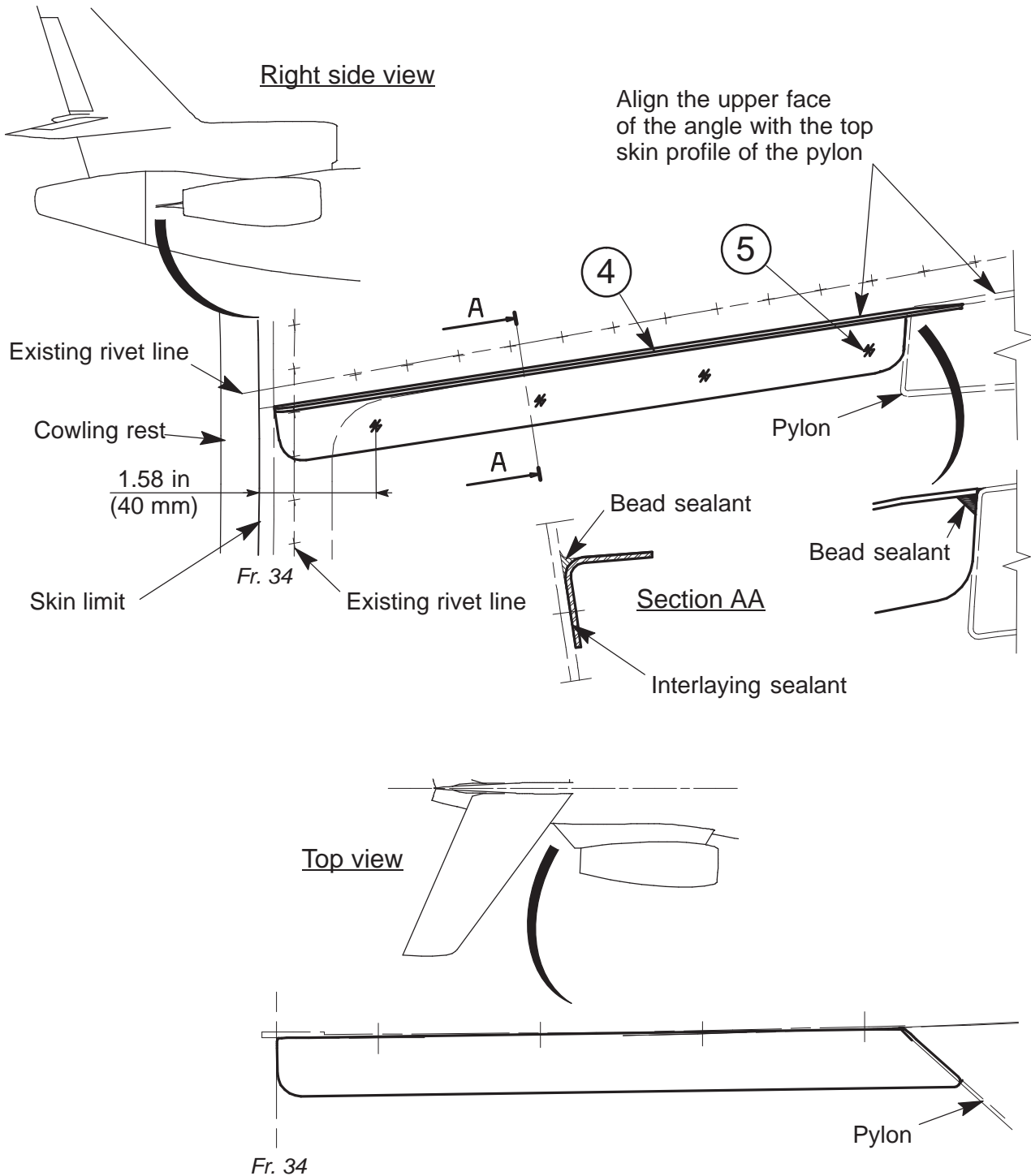


Gutter for APU air intake grid: All A/C
- FIGURE 1 -



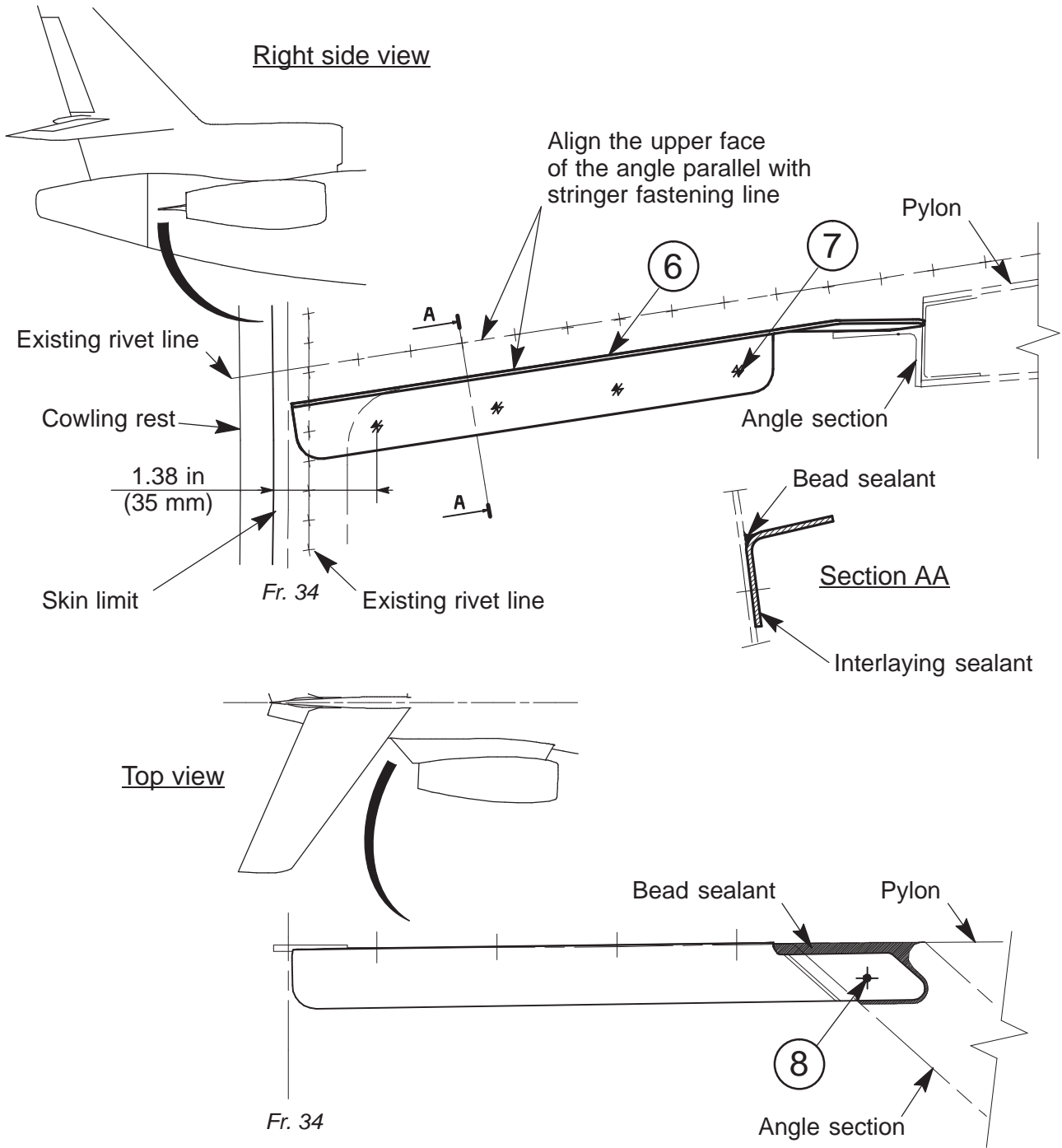
FALCON 900 **F900-411**

DASSAULT AVIATION Proprietary Data



Gutter for pylon trailing edge without angle section: A/C S/N 1 through 165

- FIGURE 2 -



DASSAULT AVIATION Proprietary Data

Gutter for pylon trailing edge with angle section: A/C 166 and subsequent
- FIGURE 3 -

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Cedex 300
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A l'attention de DSC

SERVICE BULLETINS COMPLIANCE

FALCON 900 A/C S/N

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DASSAULT AVIATION Number

ATA Number

F900	411
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F900	53	41	
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Coding:

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

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Performed by:

Remarks:

Revision 1

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°

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DASSAULT AVIATION Number
Numéro DASSAULT AVIATION

ATA Number
Numéro ATA

F900	411
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F900	53	41	
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Coding:

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

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Performed by:

Fait par :

Remarks:

Revision 1

Date :

Signature :

Remarques :

Révision 1