A Textron Company

TECHNICAL BULLETIN **505-18-04**

16 January 2018
Revision A, 18 February 2019

MODEL AFFECTED: **505**

SUBJECT: **TRANSMISSION FAIRING INSTALLATION, IMPROVEMENT OF**

HELICOPTERS AFFECTED: **Serial numbers 65011 through 65119.**

[Serial number 65120 and subsequent will have the intent of this bulletin accomplished prior to delivery.]

COMPLIANCE: At customer's option.

DESCRIPTION:

Bell is aware of difficulties encountered during the installation of the left SLS-030-402-001 and right SLS-030-403-001 transmission fairings on the helicopter. This bulletin provides instructions to install ejector blades on each transmission fairing and enlarge (8) holes on the forward main rotor drive compartment fairing for optimal fastener alignment.

The left SLS-030-402-001 and right SLS-030-403-001 transmission fairings will be re-identified as SLS-030-402-005FM and SLS-030-403-005FM respectively.

The purpose of Revision A of this bulletin is to correct the installation configuration, parts and material requirements of the left and right transmission fairings. Operators having already completed this bulletin will require removing the washer from the ejector blade installation and obtain additional hardware if required.

The applicability of this bulletin to any spare part shall be determined prior to its installation on an affected helicopter.

APPROVAL:

The engineering design aspects of this bulletin are Transport Canada Civil Aviation (TCCA) approved.

CONTACT INFO:

For any questions regarding this bulletin, please contact:

Bell Product Support Engineering
LIGHT Tel: 450-437-2862 / 1-800-363-8023 / productsupport@bellflight.com

MANPOWER:

Approximately 4.0 man-hours are required to complete this bulletin. This estimate is based on hands-on time and may vary with personnel and facilities available.

WARRANTY:

There is no warranty credit applicable for parts or labor associated with this bulletin.

MATERIAL:

Required Material:
The following material is required for the accomplishment of this bulletin and may be obtained through your Bell Supply Center.

Part Number	Nomenclature	Qty (Note)
50-010-3	Ejector Blade	6
NAS1200-3-4	Rivet	12
50-009C2	Grommet	32
50-007A27C	Fastener	8
50-007A24C	Fastener	6 (1)
50-007A21C	Fastener	7 (1)
50-007A18C	Fastener	11 (1)

NOTE 1: Only required if currently installed fasteners are difficult to install.

Consumable Material:

The following material is required to accomplish this bulletin, but may not require ordering, depending on the operator's consumable material stock levels. This material may be obtained through your Bell Supply Center.

Part Number	Nomenclature	Qty (Notes)	Reference *
2010-05970-00	Sealing compound (Fuel Resistant)	1 PT (1)	C-559
2230-00451-00	Primer, Epoxy Polyamide	1 Oz (1)	C-204

* C-XXX numbers refer to the consumables list in the BHT-ALL-SPM, Standard Practices Manual

NOTE 1: The quantity indicated is the format the product is delivered in. Actual quantity required to accomplish the instructions in this bulletin may be less.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

BHT-505-IPB, Illustrated Parts Breakdown
BHT-ALL-SPM, Standard Practice Manual
BHT-ALL-SRM, Structural Repair Manual

PUBLICATIONS AFFECTED:

BHT-505-IPB, Illustrated Parts Breakdown

ACCOMPLISHMENT INSTRUCTIONS:

1. Prepare the helicopter for maintenance.

2. Remove left (1, Figure 1) (DMC-505-A-53-40-01-00A-520A-A) and right transmission fairing (2) (DMC-505-A-53-40-02-00A-520A-A). Remove all the fasteners (6) which are located in Detail A and Detail D.

a. Discard the six washers and fasteners.

-NOTE-

Some helicopters may already have the fastener (6) holes on the left (1) and right fairing assembly (2) enlarged.

3. Enlarge existing fastener (6, Detail A) hole locations 0.250 to 0.255 inch (6.35 to 6.47 mm) on the left fairing (1) which will have the ejector blades (5) only.

4. Locate the three ejector blades (5) on the left fairing (1) on most forward inboard edge holes. Using a #40 drill bit, transfer the rivet (7) holes on the ejector blade (5) into the left fairing (1). (BHT-ALL-SRM.

5. Install the ejector blades (5) on left fairing (1) with rivet (7) using the hand squeeze method only. Overcoat the tail side of the rivet (7) with sealant (C-559).

-NOTE-

A washer is not used between the fastener (6) and ejector blade (5).

6. Install fastener (6) through ejector blade (5) and secure in place with grommet (8).

7. Repeat steps 3 to 6 for the right transmission fairing (2, Detail D).

-NOTE-

The following change of longer fasteners is only required if the installation is proving to be difficult.

8. Install the washer (9, Detail C) and fasteners (6, 10, and 11) on the left transmission fairing (1).

9. Install the washer (9, Detail F) and fasteners (6, 10, 11, and 12) on the right transmission fairing (2).

10. Locate the aft eight holes on the forward main rotor drive compartment (3, Detail C) that mate with the left (1) and right transmission fairings (2).

    a. The subject hole diameters must be as shown in section B-B and section E-E. If not, increase each hole diameter 0.458 to 0.478 inch (11.63 to 12.14 mm) (BHT-ALL-SRM).

11. Touch-up the surrounding primed and/or painted areas as required (BHT-ALL-SPM).

12. Using permanent ink marker, re-identify left transmission fairing as SLS-030-402-005FM or SLS-030-403-005FM for right transmission fairing, as applicable.

13. Install the left (1) (DMC-505-A-53-40-01-00A-720A-A) and right transmission fairing (2) (DMC-505-A-53-40-02-00A-720A-A).

14. Make an entry in the helicopter logbook and historical service records indicating compliance with this Technical Bulletin.

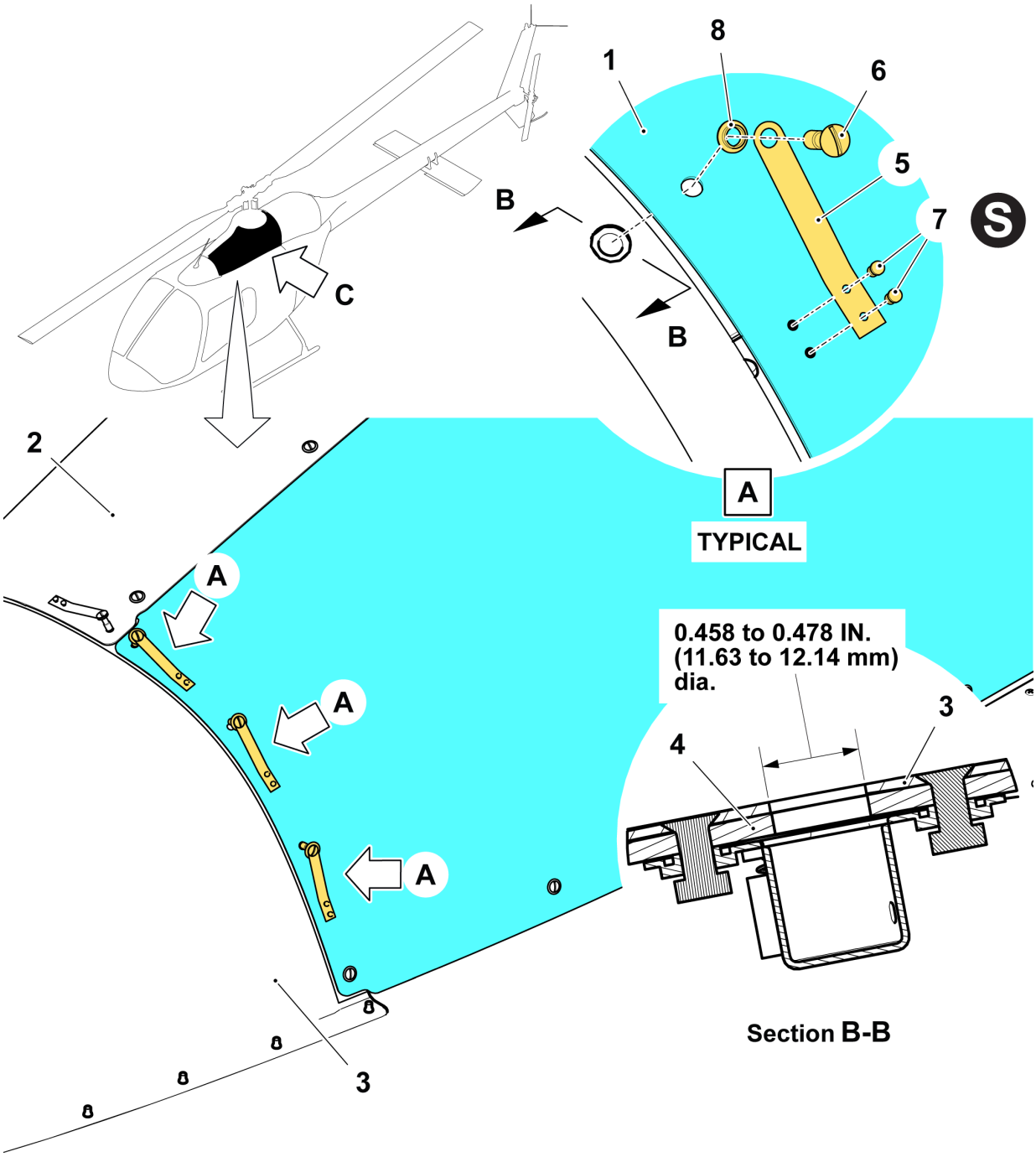

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Figure 1 – Transmission Fairing Installation Improvement (Sheet 1 of 5)

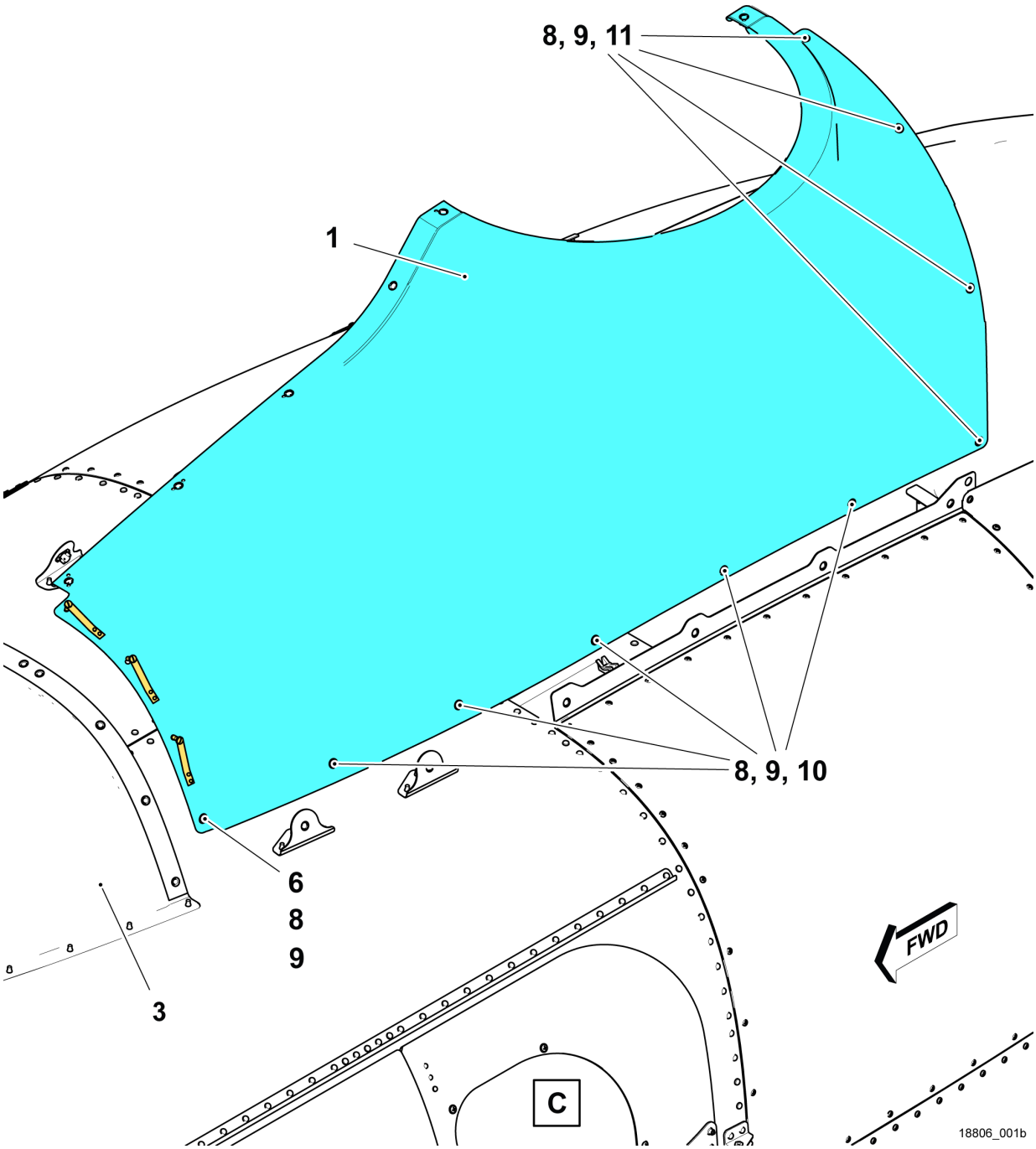

Figure 1 – Transmission Fairing Installation Improvement (Sheet 2 of 5)

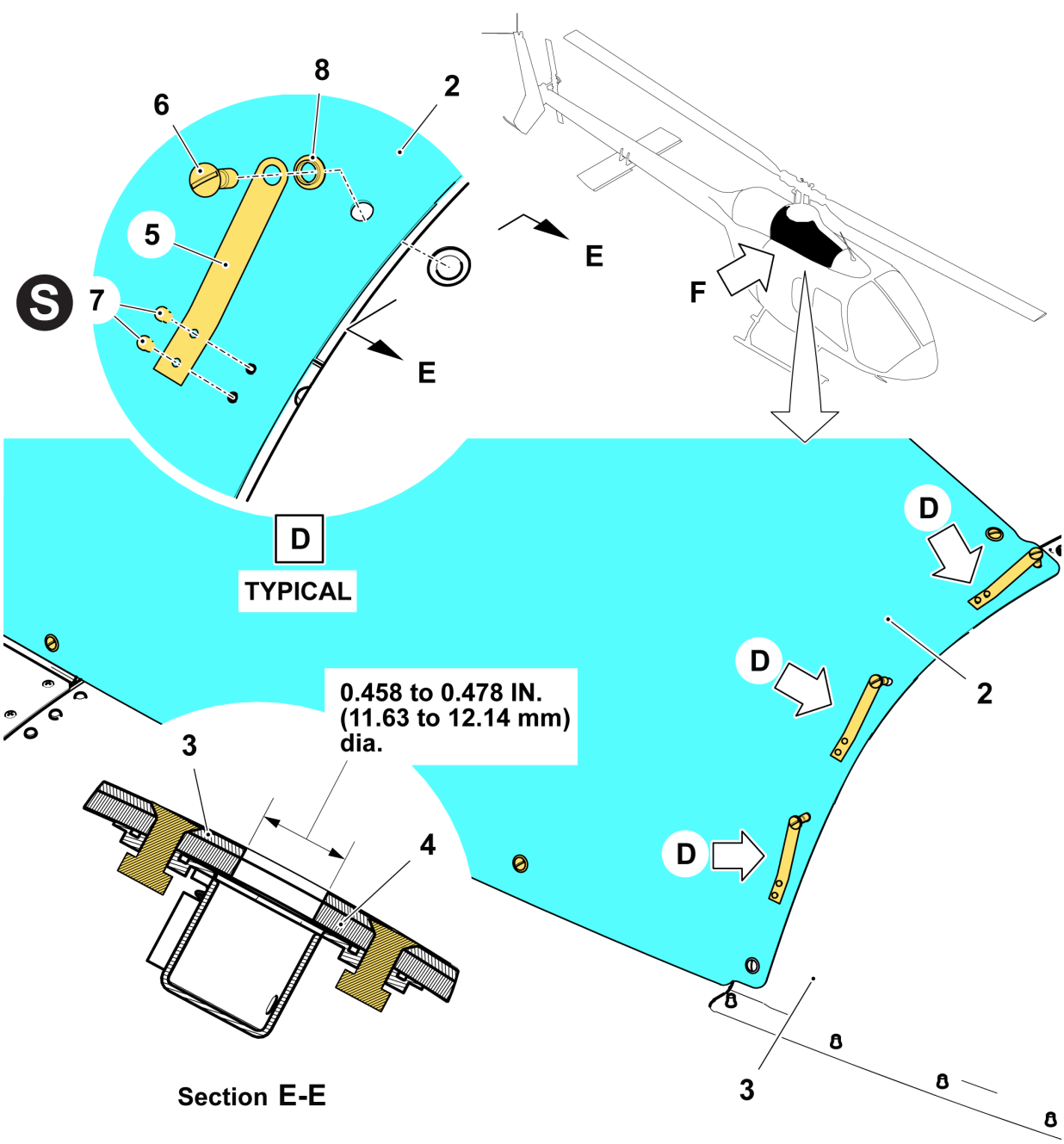

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Figure 1 – Transmission Fairing Installation Improvement (Sheet 3 of 5)

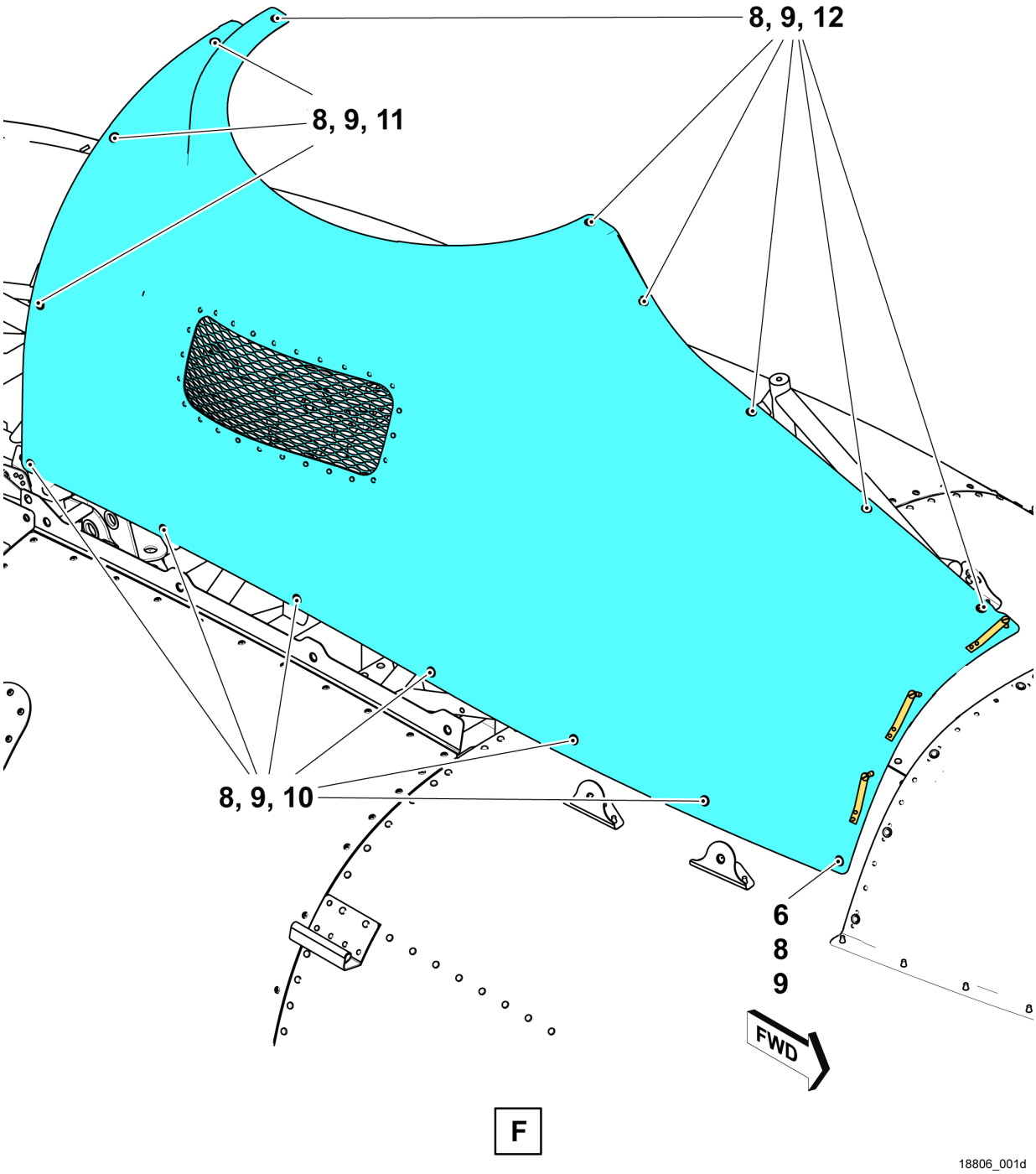

Figure 1 – Transmission Fairing Installation Improvement (Sheet 4 of 5)

1. Left hand transmission fairing (Ref)
2. Right hand transmission fairing (Ref)
3. Forward fairing assembly (Ref)
4. Spacer (Ref)
5. Ejector blade (50-010-3) 6 Reqd
6. Fastener (50-007A27C) 8 Reqd
7. Rivet (NAS1200-3-4) 12 Reqd
8. Grommet (50-009C2) 32 Reqd
9. Washer (Ref)
10. Fastener (50-007A18C) 11 Reqd
11. Fastener (50-007A21C) 7 Reqd
12. Fastener (50-007A24C) 6 Reqd

S Sealant (C-559)

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Figure 1 – Transmission Fairing Installation Improvement (Sheet 5 of 5)