

Advisory Wire

REFERENCE NO: AW700-36-0855 Rev. 03

ATA: 36-11

EFFECTIVITY: Global 7500 aircraft

SUBJECT: Heat Exchanger Rope Seal

1. REFERENCES:

- 1.1. Illustrated Parts Data Publication (IPDP) BD700-A-J36-11-11-01AAA-941A-A
- 1.2. Aircraft Maintenance Procedure (AMP) AMP BD700-A-J36-11-11-00AAA-520A-A
- 1.3. Aircraft Maintenance Procedure (AMP) AMP BD700-A-J36-11-17-01AAA-921B-A
- 1.4. Bombardier Service Bulletin (SB) 700-36-7505 - Installation of improved forward rope seal between fan air – valve and precooler

2. INTRODUCTION:

This Advisory Wire is to inform Operators of reported events where the Pre-Cooler Exchanger (PCE) / Fan Air Valve (FAV) rope seals were found damaged.

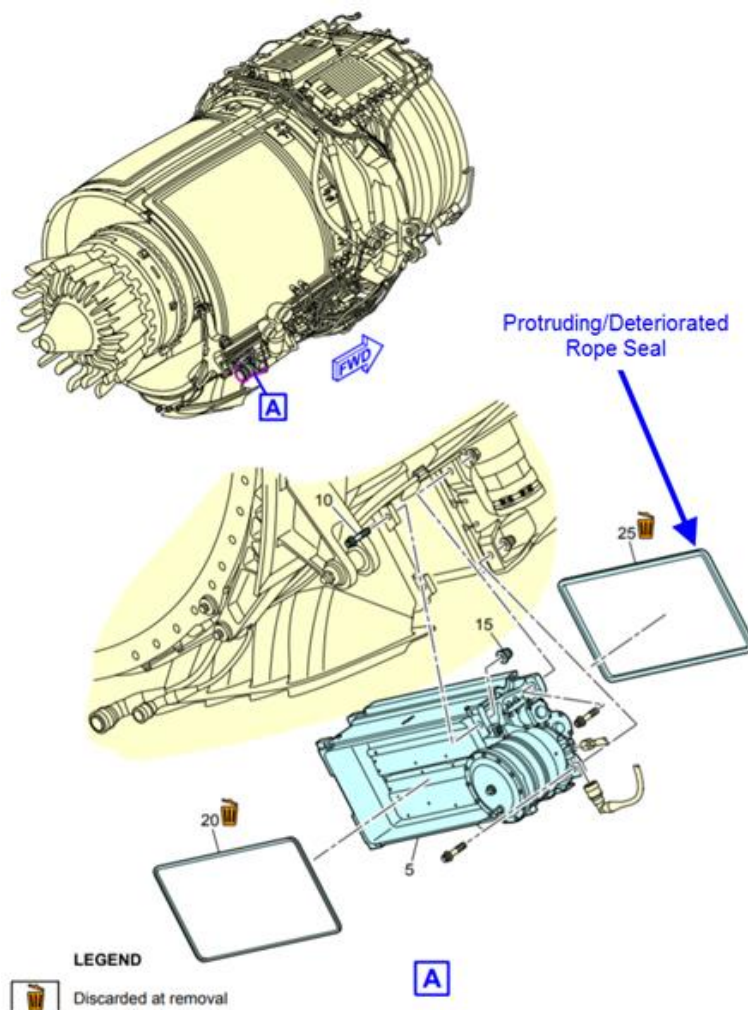
This revision 2 is to inform Operators about the release of the Service Bulletin (Ref 1.4) on October 7th, 2022, which provide instructions to replace the forward rope seal on in-service aircraft.

Revision 3 is to inform Operators of the importance of carrying out the Service Bulletin and to provide the latest fleet-incorporation rate.

3. DESCRIPTION:

Bombardier has received reports of discoloration found on the inside of the lower engine cowlings. When looking above the area, the rope seal at the PCE / FAV interface was found protruding and damaged.

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The damaged rope seal is part number (PN) 70659-30 (Ref 1.1). When replacing the rope seal, the FAV and exhaust will need to be removed to replace the forward seal (Ref 1.2).

Bombardier and the vendor, Liebherr, concluded the investigation and the root cause was identified. It has been determined that the mechanical properties of the rope seal had failed and that a different type of seal was required for this application. Hence, a new seal design was developed and is now available via the SB (Ref 1.4) incorporation.

In some of the cases reported, there was also damage or discoloration found on the insulation installed on the pre-cooler exchanger. A teardown of two precoolers was performed and there was no damage found.

Bombardier has published an AMP task (Ref 1.3) to replace the main precoolers insulation(s) which provides the required components part number and instructions for insulation replacement. The replacement insulation part numbers have been introduced in the Bombardier spares system, therefore, can be ordered from Bombardier.

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The fleet incorporation rate of the SB (Ref 1.4) is almost at 50 %.

4. ACTION:

Bombardier recommends Operators to incorporate the recently released SB 700-36-7505 (Ref 1.4), available on the Bombardier portal. The SB should be incorporated at the earliest convenience in order to prevent collateral damage to the engine cowling, main precooler insulation or other areas surrounding the rope seal.

In cases where the engine cowling is found with discoloration, operators are requested to submit an SRPSA for analysis and to obtain an engineering disposition.

If the main pre-cooler insulation(s) is found damaged, refer to the recently released AMP task (Ref 1.3).

Should you have any technical queries pertaining to this Advisory Wire, please contact your local Field Service Representative (FSR) or the Customer Response Centre (CRC).