

DC-DC Converter

Higher reliability and fewer unscheduled maintenance tasks

FLY FOKKER

Introduction

The DC-DC Converter is an upgrade of the Thrust Reverser System and a key factor in increasing the reliability level of Fokker 70 and Fokker 100 aircraft. The modification comprises two DC-DC converters (LH+RH) and associated installation components. It increases the reliability of the aircraft, in particular the system performance of the Thrust Reverser Secondary Lock Actuators.

Your needs

The DC-DC Converter offers the uninterrupted improvement of the aircraft systems during the lifecycle of the aircraft operation. The modification reduces unscheduled maintenance tasks and enhances the performance of the Thrust Reverser Secondary Lock Actuators.

During operation the Thrust Reverser Secondary Lock Actuators are continuously exposed to various and severe environmental conditions, degradation resulting from misalignment, and seal wear and friction. The different climatological conditions also have less impact on system performance.

The DC-DC converters are installed against the bottom of the Avionics Rack, which is located in the belly compartment. The converters are activated once the Thrust Reversers are selected and these converters boost the input voltage at the Lock Actuators. This voltage boost results in more reliable actuation and it improves the triggering of the micro switches inside the actuator. The two converters are only operational for the first ten seconds after Thrust Reversers selection.

Your benefits

The installation of the DC-DC converters embeds the improvement of the Thrust Reverser system and this reduces your DOC. Based on the current system service experience and the system description, the following benefits are obtained when the modification is installed:

- improvement of system functionality
- improvement of aircraft dispatch reliability
- less additional inspections of system level
- potential reduction of maintenance costs





Product description

The modification comprises two converters, which are installed against the bottom of the Avionics Rack in the belly compartment. These converters are activated once the Thrust Reversers are selected and provide the power for the secondary lock solenoid. The converter switches off automatically after ten seconds. Two dedicated Circuit Breakers are installed for system protection in the Electrical Power Centre. The converters do not require scheduled maintenance.

The aircraft modification is available with the following EASA approved Service Bulletins:

- SBF100-78-015 Exhaust Thrust Reverser; Intro time delay relay
To be installed prior to execution of the DC-DC Converter modification
- SBF100-78-019 Exhaust Thrust Reverser; Intro DC-DC Converter

Approvals: EASA approved under DOA 21J.059

Type Certificates: EASA.A.037 (Fokker F28/70/100)

Installation: The DC-DC Converter and associated components are installed as described in the Service Bulletin. The time required to incorporate this modification is approximately 39 hours for two mechanics.

FLYFokker for economic sense

The DC-DC Converter is a solution of FLYFokker, our full-service Life Cycle Support program. FLYFokker comprises four solutions: Take Off, Take Care, Take Over and Take Next.

Start-up operators can Take Off with their operation in six weeks instead of typically six months. For mature Fokker operators Take Care is a complete solution to increase Technical Dispatch Reliability (TDR), reduce Direct Operating Cost (DOC) and improve passenger comfort. Operators moving to other aircraft types are supported by Fokker Services in the Take Over of the continued competitive operation of their Fokker fleet. The fourth solution is a package for the mean and lean transfer of aircraft to the next operator, entitled Take Next. Using FLYFokker makes economic sense.

Fokker Services B.V.

P.O. Box 1357
2130 EL Hoofddorp
The Netherlands
Tel. +31 (0)88 628 00 00

Fokker Services Inc.

5169 Southridge Parkway
Suite 100
Atlanta, GA 30349
U.S.A.
Tel. +1 770 991 43 73
Fax +1 770 991 43 60

Fokker Services Asia Pte. Ltd

1800 West Camp Rd.
Seletar AeroSpace Park
Singapore 797521

Contact

For more information contact Fokker Services or visit www.fokkerservices.com

Technical Services - Account Support Manager
E-Mail technicalservices@fokker.com

Websites

www.fokkerservices.com
www.flyfokker.com
www.myfokkerfleet.com