Bell 206B/OH-58A/C

Inlet Barrier Filtration System

AEROSPACE FILTRATION SYSTEMS, INC.
AFS
INSTALL BEFORE FLIGHT

MORE OF WHAT YOU WANT,
(protection, margin, power)

LESS OF WHAT YOU DON'T.
(maintenance, erosion, cost)

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Inlet Barrier Filtration System

A proven system

Aerospace Filtration Systems (AFS) introduces a unique Inlet Barrier Filter (IBF) system for the Bell 206B (OH-58A/C) JetRanger. Using technology fielded and proven on commercial and military helicopters, the AFS 206B IBF provides the optimum performance possible within the existing Bell cowling and features an innovative, lightweight and simple to install option versus the significantly less capable Engine Air Particle Separator (EAPS) or FOD Screen. The AFS IBF system provides dust, sand, and dirt separation efficiencies exceeding 99% to ensure your engine has the maximum protection possible. At the same time, the IBF improves air flow versus the EAPS, meaning more power, reduced operating temps, all with no flight restrictions. Performance improvements in the aircraft yield up to 20 degrees more MGT margin compared to the EAPS. 206B performance can be achieved utilizing the basic inlet charts; see approved FAA Flight Manual Supplement.

Key benefits:

- Proven technology with over 1,000,000 flight hours
- Up to 20 degrees MGT reduction (EAPS removed)
- Lowest life cycle costs over alternate systems
- Maximum engine protection, improved performance
- Improved engine inlet plenum access
- Reduced engine maintenance/costs
- Filter maintenance aid (FMA) for on-condition assessment
- Non-intrusive cockpit installation with minimal modifications
- Common components with other AFS certified systems
- Long lasting, dual flat filters for easy cleaning
- Easy filter removal through access door

QUICK SPECS

IBF Kit Weight ..... 13.6 pounds
Installation Time .....40 man hours

Long-life filters

The two lightweight conformal filters are designed to perform with ultimate efficiency in all flight regimes. With a 4,500-hour life, the significant amount of filter area allows cleaning service cycles as long as 300 hours (service life is a function of the operating environment). A filter maintenance aid allows on-condition monitoring of filter status.

Engineering-driven design

The assembly is self-contained and structurally integrated into the existing manufacturer's inlet plenum provisions. Original mount provisions for the FOD screen are used to support the IBF, which includes a self-contained bypass system with cockpit bypass annunciation and activation switch. The bypass system adds a capability for the inlet not provided by an EAPS. A unique top access door is included for mounting in the inlet fairing, allowing easy access to the filter element without removal of the fairing from the aircraft. Flat filter assemblies make servicing a snap in the field, and the filters can be removed and replaced in 15 minutes. Visual access to the bypass system, components and FMA is straightforward via the aircraft's lower side access doors. Engine water wash provisions are provided with the new IBF and function the same as the Bell original system; the filters do not require removal to perform the water wash. This IBF system is available as a factory direct option on the 206B JetRanger.

View looking forward

Only the AFS Bell 206B/OH-58A/C IBF system includes a unique access door option and flat-filter design for improved maintainability. The filter is shown above, and below left, in an OEM Bell 206B/OH-58A/C cowling.

Return on investment

Operators can attain the ROI for a barrier filter system within one engine overhaul cycle, even in a relatively clean environment.

Install before flight

Direct from OEMs, from AFS, or through our dedicated distributors, we make it easier than ever to order an AFS filtration system. IBFs from AFS: Install before flight.

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