

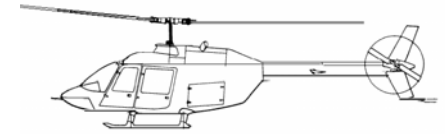


AFS Inlet Barrier Filtration (IBF) System Bell 206B/OH-58A/C

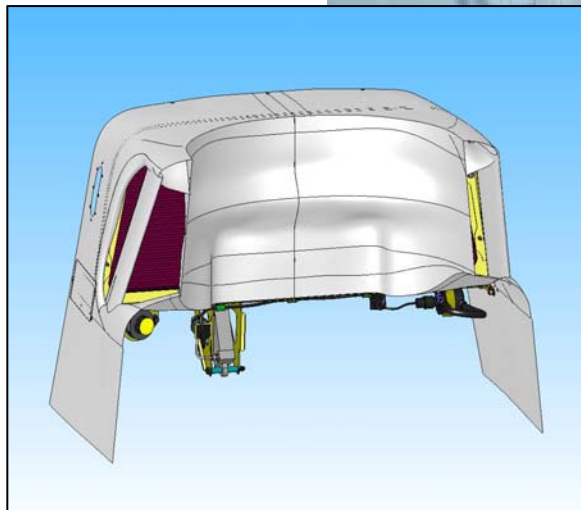
www.AFSfilters.com



AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C

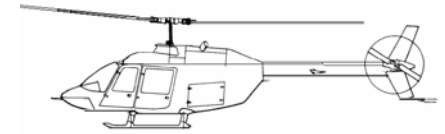


Bell 206B Engine Intake

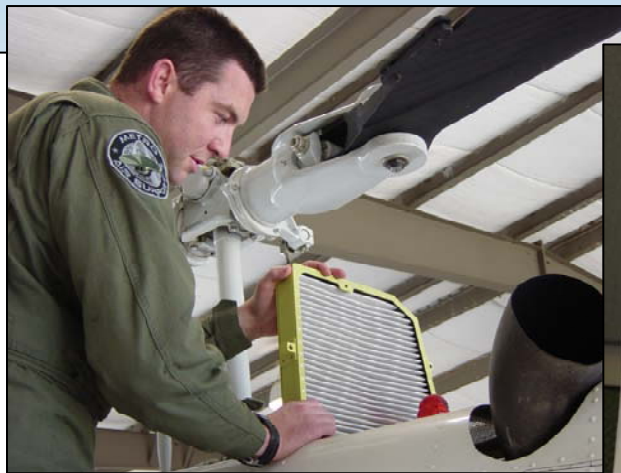
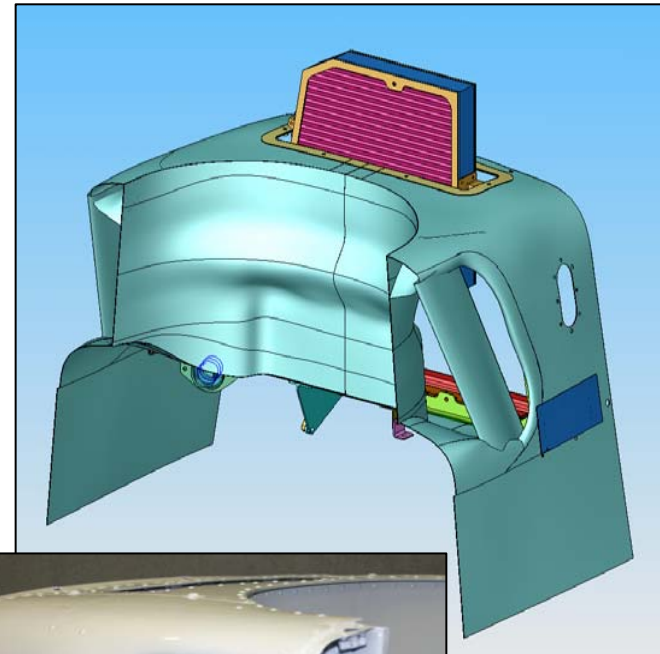
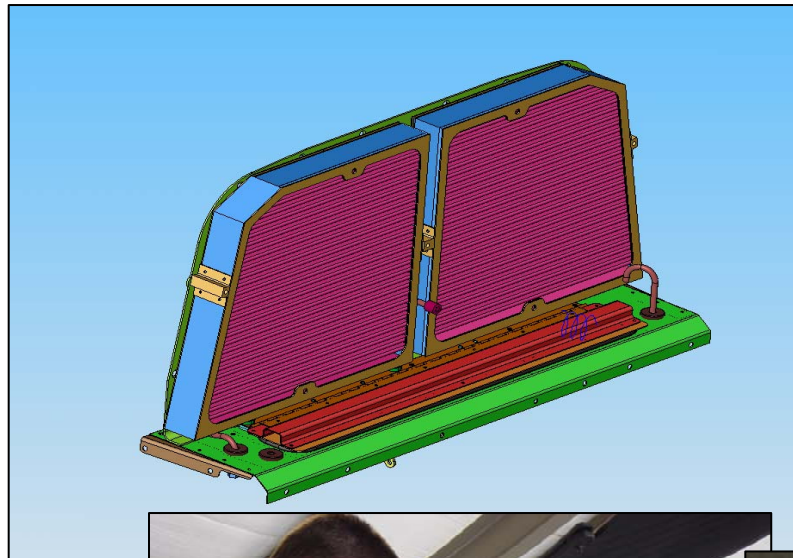




AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C

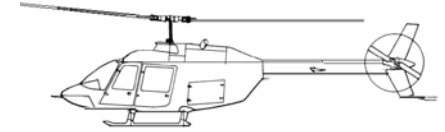


AFS Bell 206B IBF System - US FAA STC SR09451RC





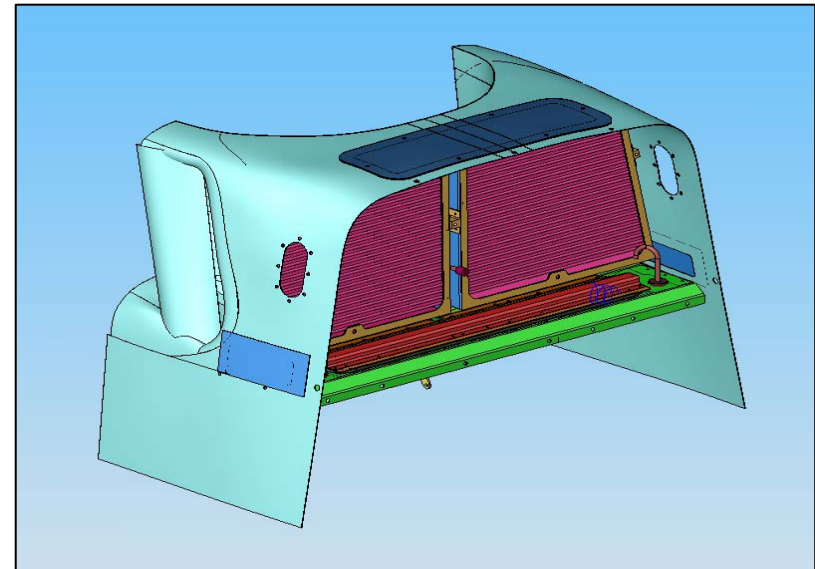
AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C



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

AFS Bell 206B/OH-58A/C IBF

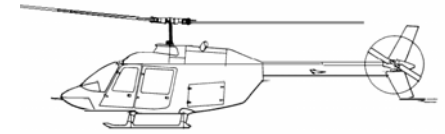


Quick specs

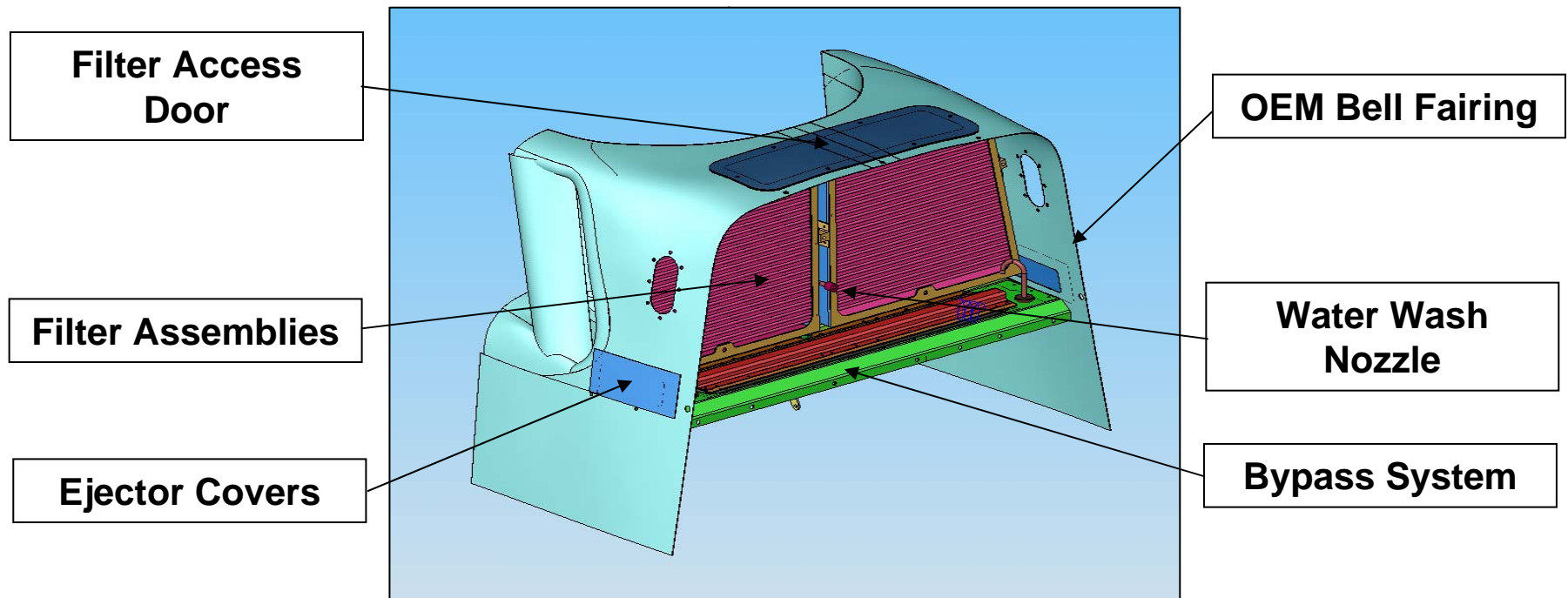
IBF Kit Weight 13.6 pounds
Installation time40 man hours



AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C



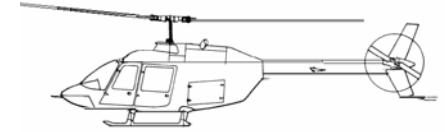
AFS Bell 206B Inlet Barrier Filter System



(shown installed into an OEM Bell 206 Fairing)

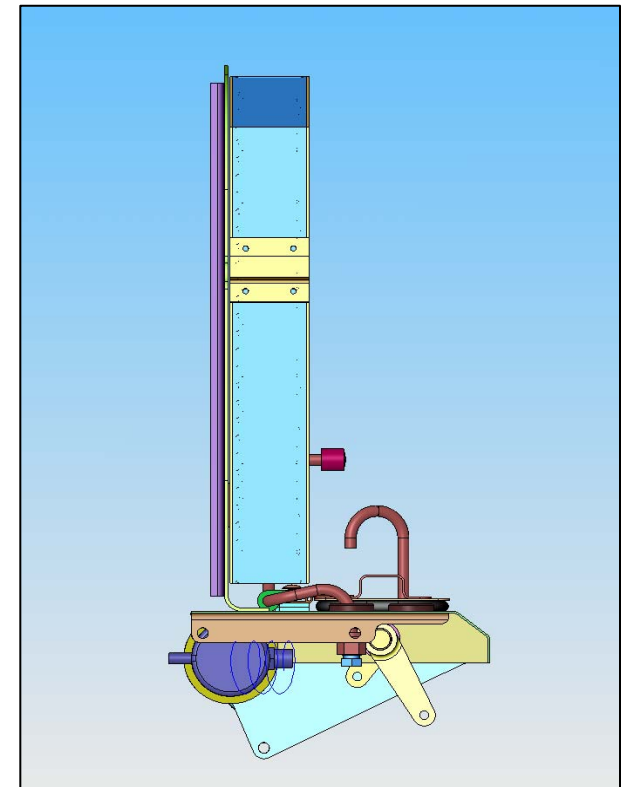


AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C



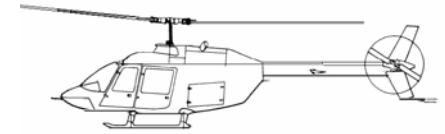
AFS Bell 206B Inlet Barrier Filter System

- IBF designed to minimize impact on engine and airframe, optimized for inlet flow characteristics
- High separation efficiency filter material, 99%+ with AC fine and AC coarse sand at rated engine airflow
- Designed to help your engine attain published TBO and reduce overhaul costs
- Maximum maintainability, Quick & Easy servicing
- No engine bleed air (scavenge) system required
- Engine Air Particle Separator (EAPS) removed
- Replaceable/reusable barrier filter assembly, 15 service cycles
- On condition filter cleaning, up to 300 hours or 1 year
- Maintain current engine wash capability, water wash tube stays in aircraft when filters are removed

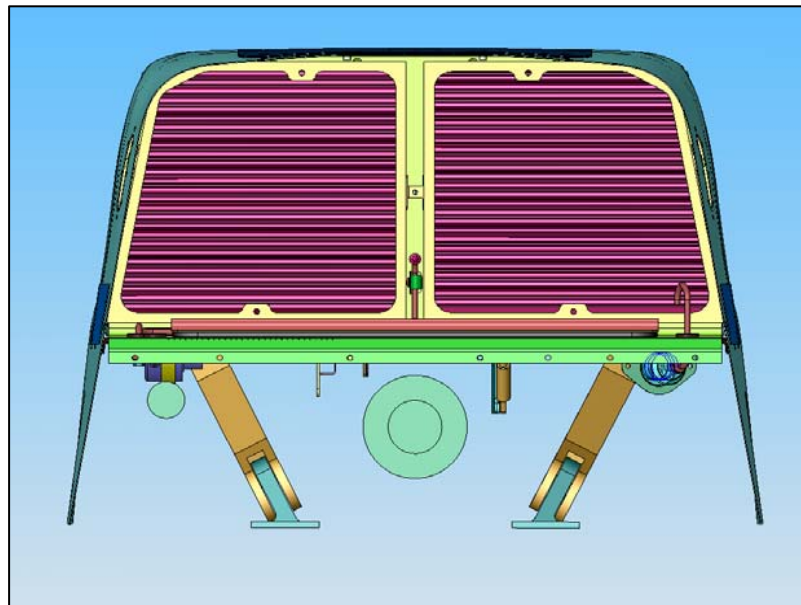




AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C

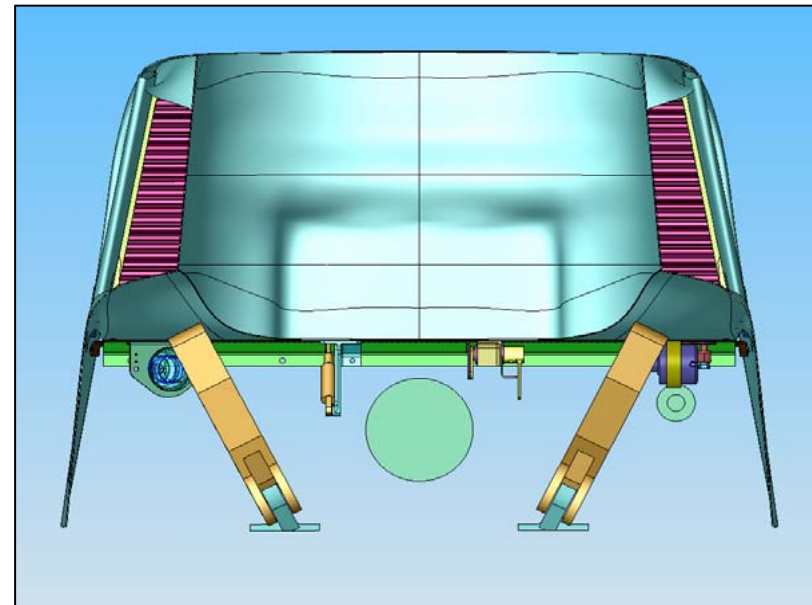


AFS Bell 206B Inlet Barrier Filter System



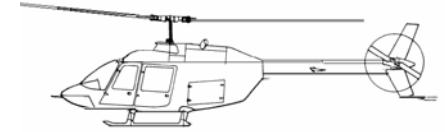
Back side (engine inlet)

Front side (airflow inlet)





AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C



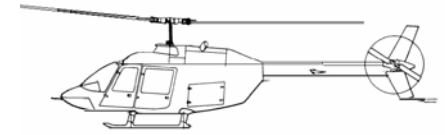
AFS Bell 206B IBF – Rugged, Efficient, Safe Design

- **Rugged Design Concept**- over 1,000,000 flight hours, including high tempo operations in the Afghanistan and Iraqi deserts
- **Rugged Design Concept** - integral bypass system, similar to currently fielded military OH-58D Kiowa Warrior attack helicopters
- **Efficient Design** – approx 10 minutes to remove/replace the filter assembly with the quick access door
- **Efficient Design** – Less weight compared to EAPS
- **Safe** - bypass door; alternate source of air to engine should inlet become obstructed - unlike current EAPS
- **Safe** - aerospace quality rugged aluminum structure
- **Safe** - increased mission capability and safety
- **Safe** - increased MGT margin

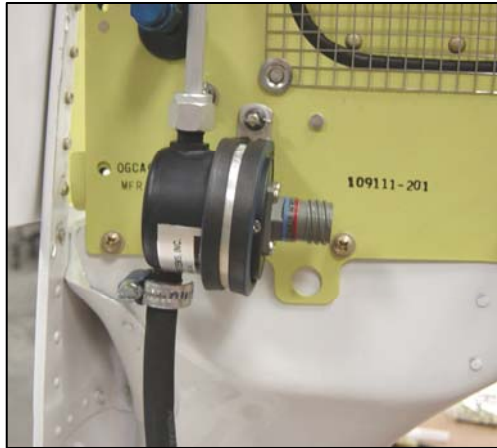




AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C



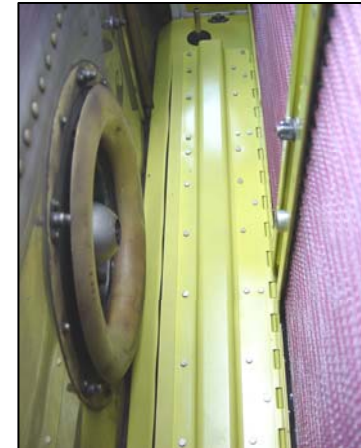
Bell 206B Inlet Barrier Filter - System Components



Delta P Switch



Filter Maintenance Aid



Bypass Door



Electric Bypass Actuator



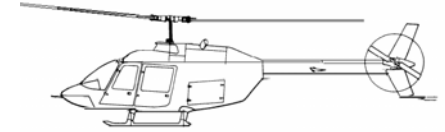
Flat Filter Design



Simple Mod



AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C



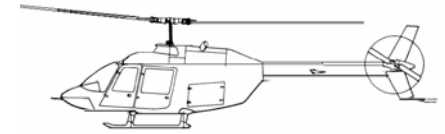
Remove your Engine Air Particle Separator Install an AFS IBF

- EAPS loads up with straw and grass - destroys swirl tube action and EAPS system efficiency
- EAPS swirl tube inlet area is over 80% less area than filter media area
- Every 28 swirl tubes 'out of action' reduces the system by almost 10%, the same area blocked by debris on a filter reduces the total filter media area by less than 2%
- Filter pleating allows nesting of straw and grass - maintaining filtration performance
- Filter pleating creates 5 1/2 times greater area than EAPS - maintaining filtration system efficiency even when covered with debris
- IBF – The best protection for expensive engine components





AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C



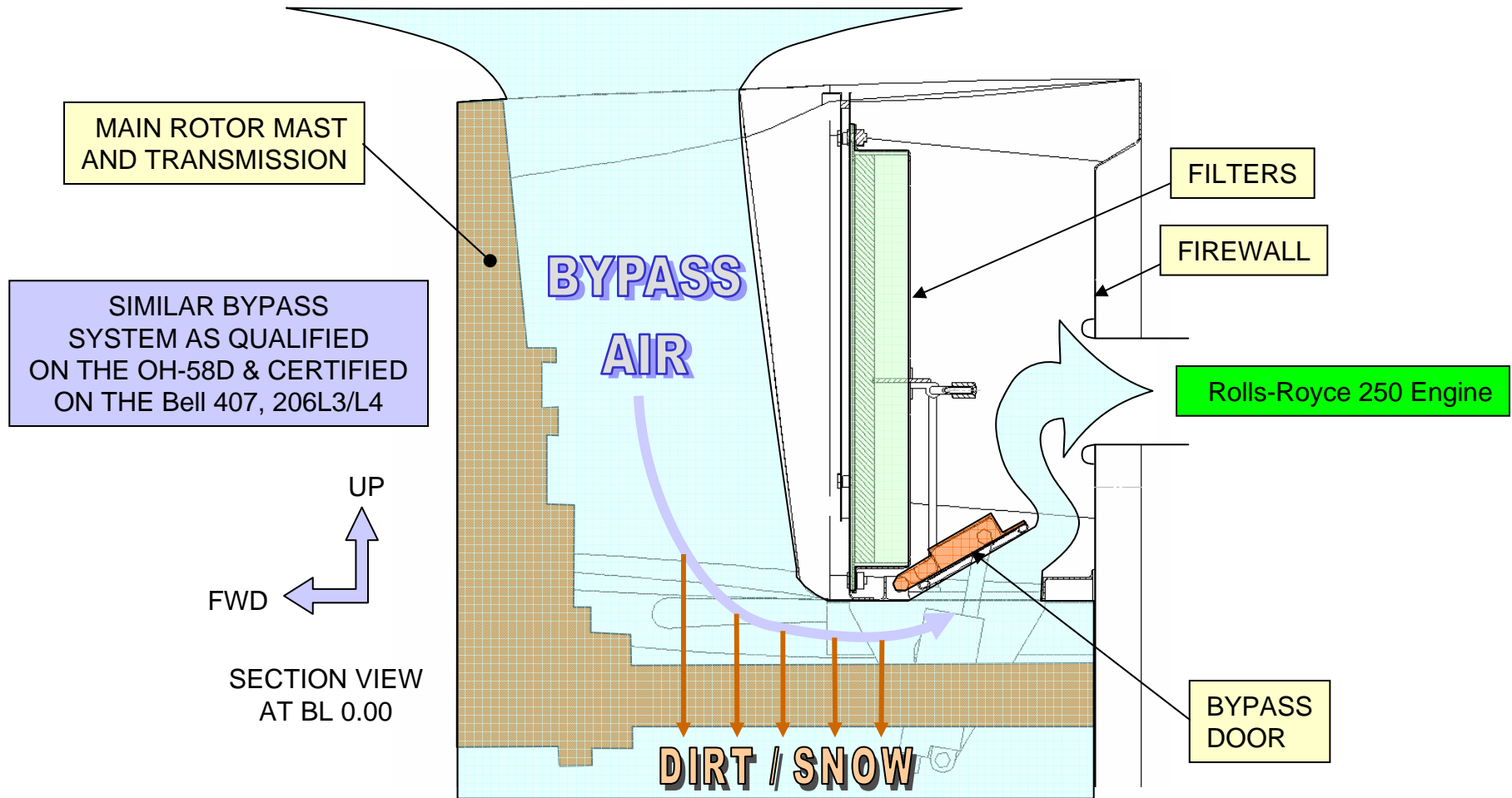
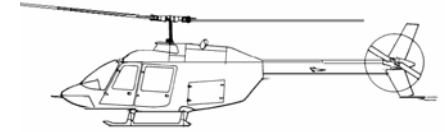
AFS Integral IBF Maintenance Aid

- Pre and Post flight indication of filter contamination level
- Allows flexibility for mission planning with predictable service cycles, particularly in high tempo desert environments
- Verification of post cleaning effectiveness
- Provides the capability for “On Condition Maintenance,” between established cleaning intervals, eliminates unnecessary service





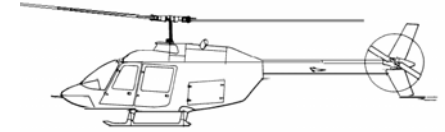
AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C



Bell 407, 206 Filter Bypass System



AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C



AFS Bell 206B IBF Maintenance & Performance Benefits

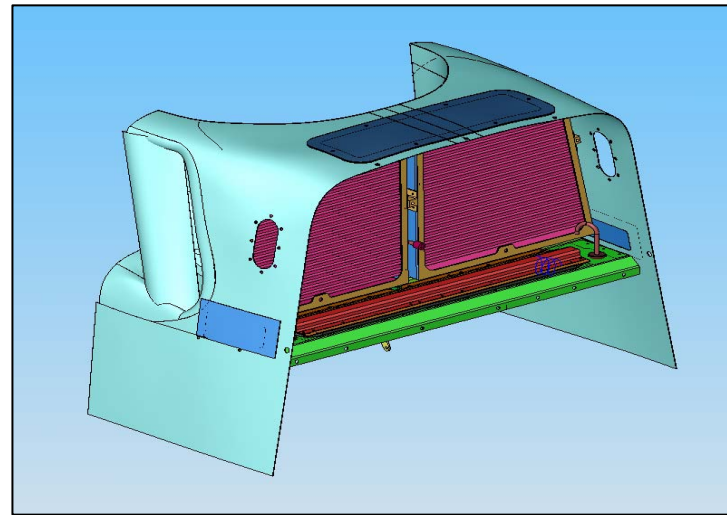
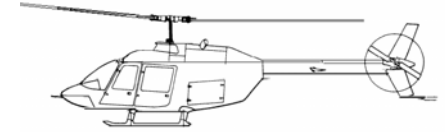
- Expect performance retention for new engines or “as-installed” performance
- Expect to reach established engine TBO
 - without internal damage to bleed driven components
 - without compressor or diffuser erosion
 - without damage to rotating components
 - without glassing in the engine hot section
 - with significant reduction in overhaul costs
- Eliminates current EAPS inspection and service requirements
- Allows instant access to engine inlet plenum through optional access door
- Up to 25 degrees cooler TOT without EAPS
 - ***Temperature margin translates to increased climb rate and forward airspeed, improvements will vary based on original EAPS, engine, and main rotor blade condition***



- ✓ Rugged
- ✓ Efficient
- ✓ Safe



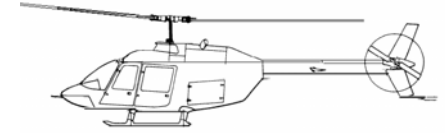
AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C



- ✓ ***AFS IBF Offers***
- ✓ ***Rugged, Efficient, Safe Design***
- ✓ ***Improved Engine Protection***
- ✓ ***Reduced Operating Costs***
- ✓ ***Improved Performance***
- ✓ ***Reduced Maintenance***
- ✓ ***Improved Safety***



AFS Inlet Barrier Filter (IBF) System Bell 206B/OH-58A/C



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**Inlet Barrier Filters from AFS:
Install Before Flight.**



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The AFS Team