

T53-HC Engine Wash Kit

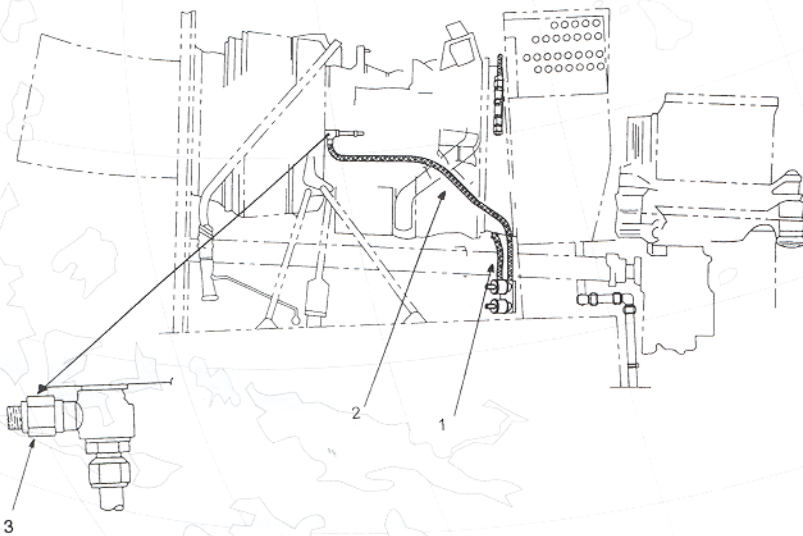
T53-HC Engine Wash Kit

SYSTEM DESCRIPTION:

The T53-HC Engine Wash Kit consists of a standard engine "Bell Mouth" assembly modified with a series of spray nozzles, washing solution canisters, and all hoses, fittings and hardware. The Federal Aviation Administration (FAA) has issued a Supplemental Type Certificate (STC) for the commercial application of the kit.

DEVELOPMENT CRITERIA:

The key to developing an efficient "Hot-Fired" wash system is based on achieving several critical objectives. First, the delivery system must meet the engine manufacturer's maximum recommended flow rate for a running engine wash. Second, the spray nozzles must be strategically placed around the engine inlet to ensure the entire inlet is covered. Third, select the appropriate spray angle that will produce the maximum coverage. Finally, the system must deliver the optimum volume of fluid at a moderate pressure within the time frame normally allowed for an engine cool-down. All of these conditions have been achieved in the design of the T53-HC Engine Wash Kit.



1. Solution Hose From Manifold
2. P₃ Air Supply
3. P₃ Adapter

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STCs

SH4305NM	Centrisep® Particle Separator
SH89-22	
SH2394NM	-17A or -17B Engine
SH89-21	
SH5132NM	212 Rotor Blades
SH91-38	
SH5976NM	-17A or -17B Engine/212 Rotor Blades
SH95-12	
SH5977NM	-17A or -17B Engine/212-9 Pax
SH95-13	
SH5797NM	T53-HC Engine Wash Kit
SH94-6	
SH5122NM	EGT/MGT Indicator (Cycle Counter)
SH91-37	
SH2692NM	Dual Electric Boost Pump
SH90-29	
SH4775NM	Manual Start Fuel Switch
SH90-15	
SH2691NM	Vertical Reference Door
Pending	Left Hand Pilot In Command
Pending	Fuel Recovery System



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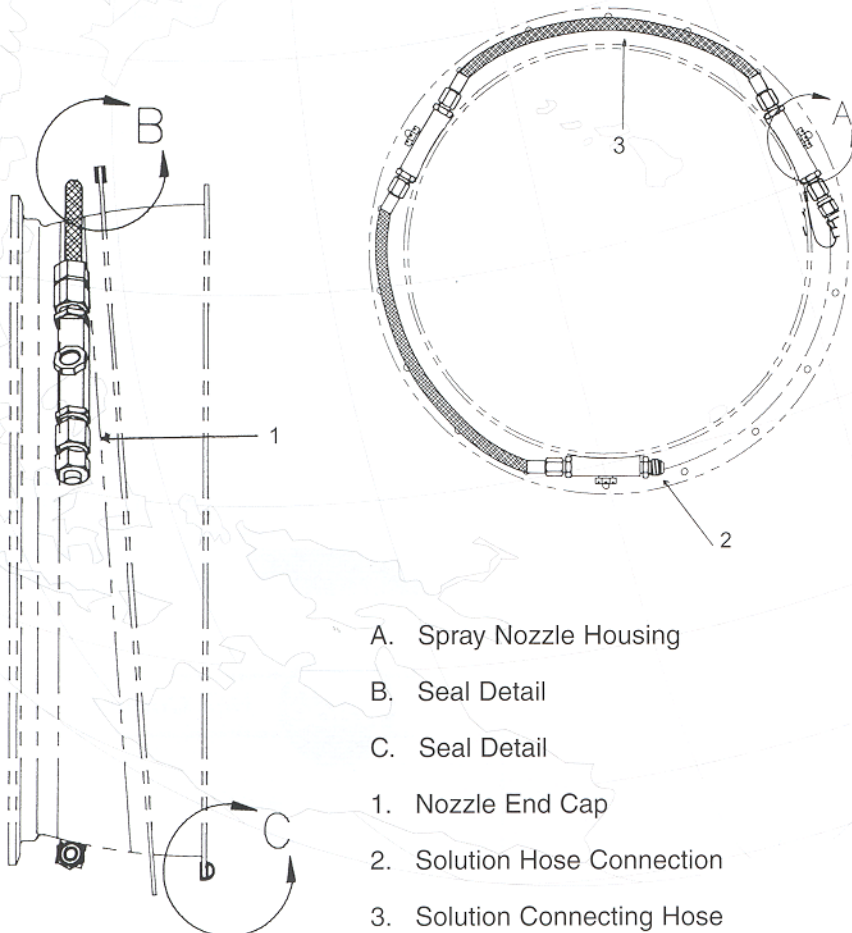
T53-HC ENGINE WASH KIT

THE PROBLEM:

Under normal operating conditions a typical gas-turbine engine consumes nearly eight times the air of a similar piston driven engine. Fortunately, we have the inlet filtration technology to protect the engine in most flight environments; however, despite the industries' very best efforts oil and dust will accumulate in the gas path over time. The T53-HC Engine Wash Kit provides the solution to this dilemma. The Wash Kit enables you to stay ahead of this potentially damaging build-up at a much lower cost than current methods.

The T53-HC Engine Wash Kit also provides these benefits:

- ▶ Enables a running engine wash
- ▶ Reduces exposure to F.O.D.
- ▶ Requires no tools
- ▶ Fully self contained for use in remote sites
- ▶ Adaptable to all T53 series engine inlets
- ▶ Reduces maintenance costs
- ▶ Significantly reduces build-up with routine use



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