



Donaldson
Filtration Solutions

FUEL, OIL & LUBE FILTER SERVICE INSTRUCTIONS

- For all Donaldson Airmaze aircraft pleated and filter pack style filters

RECOMMENDED CLEANING INTERVAL: 100 flight hours, annually or as listed in the appropriate aircraft manufacturers maintenance manual.

NOTE: The maximum recommended cleanings is 10 times and that a slight decrease in contaminant capacity results after each cleaning. Close inspection of the screens, for any damage, is key to maintaining proper filtration and performance of the filter.

RECOMMENDED PRIMARY & SECONDARY CLEANER: USE ANY INDUSTRIAL STRENGTH ALL-PURPOSE CLEANER/DEGREASER, SUCH AS "SIMPLE GREEN", AS THE PRIMARY AND SECONDARY CLEANER. IF INDUSTRIAL STRENGTH ALL-PURPOSE CLEANER/DEGREASER IS UNAVAILABLE, THE FILTER CAN BE CLEANED IN THE LIQUID THAT IT FILTERS SUCH AS FUEL OR OIL.

RECOMMENDED ULTRASONIC CLEANER: USE ANY CLEANER/DEGREASER AS RECOMMENDED BY THE SPECIFIC ULTRASONIC CLEANING APPARATUS.

NOTE: Ultrasonic cleaning is highly recommended for filters having a micron rating of 40 microns or smaller.

STEP 1:
PRIMARY CLEANING:
The primary cleaner should be used on all filter elements, pack and pleated type. Carefully remove filter element from housing and remove all o-rings, valves, springs and so forth. Pack filters should not be disassembled from the center tube for this initial cleaning. Plug open end or ends of filter and immerse in the cleaner for a 30-60 minute soak to remove sludge and baked on contaminants. Metal valve parts, springs, and so on may also be soaked in the cleaner. Remove filter and parts (if any) from cleaner and rinse thoroughly in clean hot flowing tap water. Then drain or blow off with filtered low-pressure air, not exceeding 30 psi.

STEP 2 (Final cleaning if NO ultrasonic cleaner is available)

SECONDARY CLEANING:
Immerse filters, valve parts, springs and so on in secondary cleaner and agitate. Remove any remaining deposits with a stiff bristled non-metallic brush. Unplug filter then drain or blow off with filtered low pressure air, not exceeding 30 psi. Examine filters for cleanliness and screen damage. Repeat secondary cleaning if necessary. If screen is damaged, replace with a new filter. Examine valve parts (if any) for damage and replace if necessary. Replace o-rings and gaskets (if any) and reassemble valve parts and filters to housing.

OR

STEP 2 (Final cleaning in lieu of Secondary Cleaning)

ULTRASONIC CLEANER:
Fill an ultrasonic tank, having a minimum of 3 watts of power per square inch of cleaning tank bottom area, with the above recommended cleaner. Unplug filters for this cleaning.

- A. Pleated Elements: Place elements in a coarse mesh wire basket with the pleats in the horizontal position, perpendicular to the radiating surface of the tank, allowing space between filters. Metal valve parts, springs and so on (if any) may be cleaned simultaneously in a separate basket. Clean for 20 minutes rotating the filter element 90 degrees, every 5 minutes. Remove from tank and drain or dry with low-pressure filtered compressed air, not exceeding 30 psi. Examine filters for cleanliness and screen damage. Repeat ultrasonic cleaning if necessary. If screen is damaged replace with a new filter. Replace o-rings and gaskets (if any) and reassemble valve parts and filter to housing.
- B. Filter Packs: Remove filter packs from the center tube and slide packs onto a rod rack which is supported horizontally in the tank. Allow approximately ¼" space between filter packs. Metal valve parts, spring and so on (if any) may be cleaned simultaneously in a wire mesh basket suspended in the solution. Clean for 20 minutes. Remove from tank and drain or dry with low-pressure filtered compressed air, not exceeding 30 psi. Examine filters for cleanliness and screen damage. Repeat ultrasonic cleaning if necessary. If screen is damaged replace with a new filter pack. Replace o-rings and gaskets (if any) and reassemble valve parts and filters to housing.