

The Donaldson FGA Series air cleaner is a three or four piece unit depending upon size. The larger models incorporate a removable element assembly. Fast, easy disassembly permits quick, efficient servicing.

A. BODY ASSEMBLY

This unit filters the air and condenses the oil from the air stream so that only air enters the engine. The condensed oil is returned to the cup where the dirt settles out of the oil and the oil is recirculated.

**B. REMOVABLE ELEMENT ASSEMBLY
(Found in large models only)**

This unit removes a major part of the dust from the air stream thus decreasing the dust load to the fixed wire element. This element is removable for convenient service and it reduces the need for frequent body assembly removal for fixed element service.

**C. INNER CUP
(Removable from Outer Cup)**

This part acts as a baffle directing the oil laden air to the element. It also controls the amount of oil in circulation and meters the oil to the element.

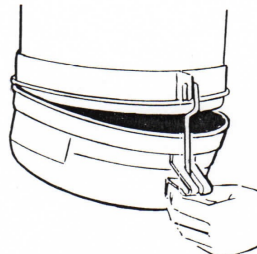
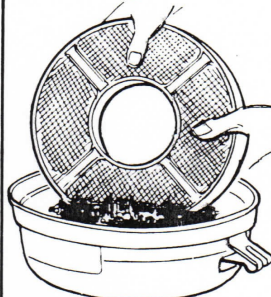


D. OIL CUP

This part supports the inner cup and (depending on size) the removable element assembly and is a reservoir for oil and a settling chamber for dirt.

FGA OIL WASHED Air Cleaner Maintenance

Oil Cup Servicing

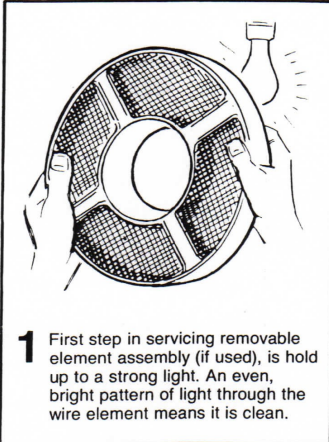
Maximum engine protection against the ravages of dust is possible ONLY if the air cleaner is serviced at REGULAR intervals. Over servicing does not utilize the oil bath feature to the fullest. Example: Up to 2½ lbs. of dirt can be accumulated in the oil cup of a 12" diameter cleaner before servicing is necessary. Set up a schedule and KEEP on schedule. The procedure is simple. Just follow these easy steps as shown.

 <p>1 Service the inner and outer oil cup daily or when ½" of dirt has collected in bottom of either cup. Severe operating conditions may require several inspections daily. Excessive engine wear is possible if operated with ½" of residue.</p>	 <p>2 Upon detaching side clamps and removing bottom portion of unit, lift the removable element assembly (if used) from the oil cup.</p>
 <p>3 Pour out the oil, remove inner cup from outer cup, remove sludge and wipe clean.</p>	 <p>4 Reassemble inner cup in outer cup and refill both cups to indicated oil level. (Use SAE # 10 oil for temperatures below freezing and SAE # 30 oil for temperatures above freezing.) The same oil specified for the engine crankcase is generally acceptable. CAUTION: DO NOT OVER OR UNDERFILL THE CUPS. Over filling means loss of capacity. Under filling means lack of efficiency.</p>

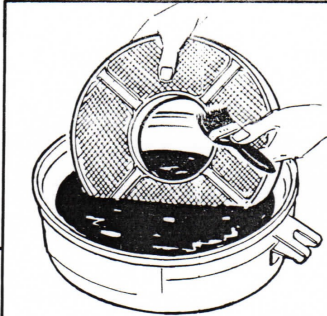
Removable Element Assembly Servicing

The removable element assembly, if used, should be removed from the oil cups and inspected daily or at each oil cup service.

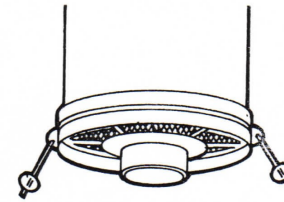
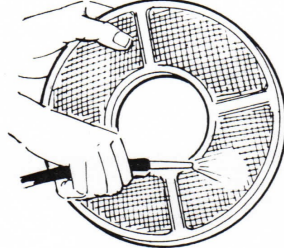
The removable element assembly and fixed element are the most sensitive operational parts of the air cleaner. Unless they are kept clean, the air cleaner cannot function properly. A plugged element not only leads to excessive engine wear, but can also cause loss in engine power.



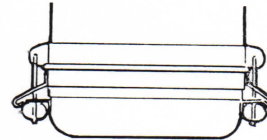
- 1** First step in servicing removable element assembly (if used), is hold up to a strong light. An even, bright pattern of light through the wire element means it is clean.



- 2** If element is even partially plugged with dirt, lint or chaff, wash thoroughly with solvent.
3 Then blow out with compressed air.



- 4** Inspect lower portion of body assembly and center tube each time oil cup is serviced.



- 5** Reassemble removable element assembly (if used), to serviced oil cups and to air cleaner body. Be sure the oil cup is tight to body assembly.

Body Assembly Servicing...

The lower portion of the body assembly should be inspected each time the air cleaner is serviced. If there is any sign of build-up or plugging, the body assembly should be removed and cleaned. At least once a year, remove the body assembly and perform the following service steps.

1. Remove the oil cup and removable element assembly (if used).
2. Check and clean center tube.
3. Pump solvent through the air outlet with sufficient force and volume to produce a hard, even stream out the bottom of the body assembly. Reverse flush until all foreign material is removed.

General Service

The air cleaner should be inspected constantly for leaks. A damaged air cleaner can seriously affect the performance

and life of the engine. The following simple service steps are easily made while the engine is being serviced in the field.

The simple service steps are as follows:

1. Watch all connections for mechanical tightness. Be sure cleaner outlet pipe is not fractured.
2. If cleaner has been dented or damaged, check all connections immediately.
3. In case of leakage and if adjustment does not correct the trouble, replace necessary parts or gaskets.

Caution:

Always cover the engine intake pipe while the air cleaner is being serviced.

If air cleaner is flange mounted, remove gasket before cleaning. Take care not to mar or damage the seating surface.

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