# Winslow® – Liquid Fuel Filters
## Standard Design Type 2
### Service Instructions

## Parts List

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Cover</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>O-Ring</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Housing</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Plugs</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Filter Elements</td>
<td>See Ordering Information on Page 5</td>
</tr>
<tr>
<td>F</td>
<td>Internal Component Kit for 95830A</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>T-Bolt Kit</td>
<td></td>
</tr>
</tbody>
</table>

**T-Bolt Kit** (includes Washer, Nut and T-Bolt)

---

⚠️ **CAUTION:** These instructions are intended for use by professional mechanics who are trained in the proper use of power and hand tools, using appropriate safety precautions (including eye protection).
Introduction

Winslow® filter elements must be changed periodically to assure the high level of filtering efficiencies required. We recommend that the elements be changed when the pressure differential across the filter reaches the maximum allowable pressure drop as recommended by the engine manufacturer. Excessive pressure differential across the elements could result in reduced flow.

Winslow Fuel Filters are designed to be mounted on the pressure side of a low pressure (< 75 PSI (517.1 kPa)) fuel pump, however they can be mounted on the suction side of a low pressure pump if sized properly. Housing restriction for suction side applications must be less than 1 PSID (6.9 kPa). Pump specifications regarding inlet restriction should be followed and supersede other general recommendations.

To determine the correct pressure differential:

- Note the pressure drop between the filter inlet and outlet when clean elements are installed and the system is up to normal operating flow, temperature, and pressure.
- Periodically check the gradual increase of the filter differential pressure as the filter accumulates hours of operating service.

If no engine specification is known or given, filters should be changed out at 5-7 PSID (34.5-48.3 kPa) above initial differential pressure. Initial differential pressure should be 2-3 PSID (13.8-20.7 kPa)(an initial differential pressure less than 3 PSID (20.7 kPa) is acceptable, but a smaller filter could probably be used).

The filter design includes a sludge and water sump section. A drain is provided at the bottom of the sump for use when the elements require changing.

Servicing the Filter

Removing the Filter Elements

1. Shut off the flow to the filter. Isolate the filter, if possible, by closing the main upstream valve and then the main downstream valve.
2. Shut off electrical power to any accessories attached to the vessel.
3. Remove the air vent plug to equalize the pressure in the tank.
4. Remove the “dirty oil” drain plug (upper plug) and completely drain the filter chamber.

⚠️ CAUTION Fluid may be hot!

Figure 1 – Removing the Air Vent Plug

Figure 2 – Removing the “Dirty Oil” Drain Plug
5. Loosen the nuts on the cover until the T-bolts are free to swing out of position.

6. Lift the cover STRAIGHT UP.

⚠️ CAUTION To prevent damage to the cover gasket and the sealing surfaces, DO NOT SLIDE THE COVER OFF.

7. Place the cover UPSIDE DOWN on a clean work surface. Be careful not to nick or scratch the bottom edge of the sealing surface.

8. Loosen the hex nuts on the element support posts to free the internal components.

9. Loosen and remove the internal components, including the dirty elements (components vary according to housing – see page 1). Pull the elements straight up to remove. Dispose of the elements in an environmentally responsible manner, according to state and/or federal (EPA) recommendations.

⚠️ CAUTION To prevent damage to your engine or equipment, do not allow dirt to fall through the opening of the element support post and into the clean outlet area.
**Reassembling the Filter**

10. Reinstall the internal components, including the new elements. Note the direction of the arrow on each element and insert the proper end into the housing first. If seal cups are included as part of the internal components, they must be reinstalled, as well.

12. Replace the O-ring cover seal. (If necessary, as long as there are no permanent surface deformations, swelling, nicks, and cracks present, the seal can be reused.)

![Figure 7 – Reinstalling the Internal Components](image)

11. Replace the hex nuts onto the element support posts and tighten until the threads bottom-out.

![Figure 8 – Replacing the Hex Nuts](image)

13. Seat the O-ring cover seal into the flange groove.

14. Carefully replace the cover STRAIGHT DOWN and align the bolt slots in the cover flange with the slots in the housing flange.

⚠️ **CAUTION** To prevent damage to the cover gasket and the sealing surfaces, **DO NOT SLIDE THE COVER ON.**

![Figure 9 – Replacing the O-Ring Cover Seal](image)

![Figure 10 – Replacing the Cover](image)
15. Swing the T-bolts into position and tighten all the nuts in a star pattern (similar to replacing lug nuts on an automobile wheel) to assure a uniform seal.

16. When the vessel is full, reinstall the “dirty oil” drain plug.

17. Refill the filter manually or by slowly opening the main upstream valve.

18. When the vessel is full, reinstall the vent plug.

19. Increase the pressure in the filter slowly. Inspect for leaks around the cover gasket area. If no leaks are visible, increase to operating pressure.

20. Inspect for leaks again.

21. Reconnect electrical power to any accessories.

22. Slowly open the downstream valve, if applicable, placing the unit in service.

23. Read and record the pressure differential of the clean elements.

24. The filter is now operational.

**Suggested Preventive Maintenance**

*Every Filter Change* – Replace the O-ring cover seal.

*Every 12 Months* – Check all fittings for leaks.

---

**Ordering Information**

<table>
<thead>
<tr>
<th>C</th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Housing*</td>
<td>Cover</td>
<td>O-Ring</td>
<td>Plugs</td>
<td>Filter Element</td>
<td>Number of Elements</td>
</tr>
<tr>
<td>95730A</td>
<td>Q80660A</td>
<td>Q79058</td>
<td>Q69009</td>
<td>82375A</td>
<td>14</td>
<td>990441K</td>
</tr>
<tr>
<td>95830A</td>
<td>Q80660A</td>
<td>Q79058</td>
<td>Q69009</td>
<td>82375A</td>
<td>21</td>
<td>990442K</td>
</tr>
</tbody>
</table>

* Designed for 75 lb/in² (517.1 kPa) continuous operating conditions.

Table corresponds to Parts List on cover page.
Replacement Filter Element

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>82375A</td>
<td>$\beta_5 = 2$ Full-Flow Lube Depth Element</td>
</tr>
</tbody>
</table>

Filter Specification
Composed of a high flow cotton/wood media blend to provide $\beta_5 = 2$ solid contamination control.

Specifications

<table>
<thead>
<tr>
<th>Housing Part Number</th>
<th>Flow Rate* gal/min (L/min)</th>
<th>Element Number</th>
<th>Chemically Treated Part Number</th>
<th>Number of Elements</th>
<th>Efficiency (Particulate Control)</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>95730A</td>
<td>70 (265.0)</td>
<td>82375A</td>
<td>82371A</td>
<td>14</td>
<td>$\beta_5 = 2$</td>
<td>Capacity Exceeds SAE Time Constraints</td>
</tr>
<tr>
<td>95830A</td>
<td>100 (378.5)</td>
<td>82375A</td>
<td>82371A</td>
<td>21</td>
<td>$\beta_5 = 2$</td>
<td></td>
</tr>
</tbody>
</table>

* Flow rate based on #2 Diesel fuel with a maximum viscosity of 4.63 mm²/s. For residual and heavy fuel blends, Contact Cummins Filtration®.

Notes:
1. Designed for 75 lb/in² (517.1 kPa) continuous operating conditions.
2. Initial assembly differential pressure should not exceed 3 PSID (20.7 kPa) on the pressure side (downstream) of the pump.
3. Change element after initial differential pressure increases 3-4 PSID (20.7-27.6 kPa), depending on engine age and operating oil pressures. A maintenance professional should make the appropriate application decision.
4. Terminal assembly differential pressure should not exceed 7 PSID (48.3 kPa).
Specifications subject to change without notice.

Mounting/Dimensions

<table>
<thead>
<tr>
<th>Housing* Part Number</th>
<th>A Overall Height in (mm)</th>
<th>B Inlet Height in (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>95730A</td>
<td>47.0 (1193.8)</td>
<td>34.0 (863.6)</td>
</tr>
<tr>
<td>95830A</td>
<td>63.0 (1600.2)</td>
<td>50.0 (1270.0)</td>
</tr>
</tbody>
</table>

* Designed for 75 lb/in² (517.1 kPa) continuous operating conditions.