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# Modification to fuel filters

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<b>Classification</b>	Highly recommended
<b>Applicability</b>	All Rotax 912/912S engined Europas
<b>Compliance</b>	N/A

## Introduction

There have been reported cases of partial or complete fuel blockage caused by contamination of the fuel filter. This has been caused in part by insertion of electric fuel gauges into the fuel tank, necessitating cutting of the tank walls with the attendant risk of creation of swarf. This Modification introduces a second fuel filter, which can be selected as necessary.

The filter which is already installed will be moved to a position between the fuel tank “main” outlet and the fuel selector valve inlet, and the extra filter will be similarly positioned between the fuel tank “reserve” outlet and the corresponding fuel selector valve inlet. The physical position of the filters can be chosen by the builder, but it is recommended that they be fitted in the seat pans alongside the forward control tunnels.

## Action

1. Unscrew the end fitting of the new fuel filter at the end which has 2 fuel flow holes and the knurled nut (the inlet end). Fit the safety spring part number LC042-G over the fuel flow holes and, with it butting up against the knurled nut, refit the end fitting. Use firm hand force only to tighten the filter end fittings. Over tightening may damage or displace the O-ring seals.
2. Drain the fuel tank, both main and reserve sections, or clamp off the hoses.
3. Remove the existing fuel filter from its current position, and connect the fuel selector valve outlet to the electric fuel pump, using a new length of 8mm hose and existing hose clamps.
4. Disconnect the hoses from the fuel tank outlets at the fuel selector valve inlets.
5. Drill a 19 mm (3/4”) dia hole in the bottom of the seat back in front of the fuel tank outlet, and a second hole in the side of the tunnel, just ahead of the rudder cable pulley, and high enough to avoid the cable.
6. Lead the 8mm hose from the fuel tank outlet through the drilled hole, loop it back on itself and connect it to the inlet of the filter - see figure 1. Connect the outlet of the filter to the inlet of the fuel selector valve, leaving the hose sufficiently long to enable the filters to be lifted for removal and cleaning.

