

## BRP-Powertrain

### INSTALLATION MANUAL

## 1) Fuel system

### 1.1) Description of system

<b>General note</b>	See <a href="#">Fig. 2</a> .
	<b>NOTE:</b> The fuel system from tank to the inlet of engine-driven fuel pump has to be installed by the aircraft manufacturer.
<b>Fuel</b>	The fuel flows from the tank (1) via a coarse filter and fire cock (3) continue to water trap/fine (4) to the mechanical fuel pump (5), from the pumps fuel passes on via the fuel manifold (3) to the two carburetors.
<b>Fuel lines</b>	Depending on the configuration of the engine the fuel lines from fuel pump to the carburetors are already installed by the manufacturer (optional on some engine). Only the following connections per <a href="#">Fig. 2</a> have to be established: <ul style="list-style-type: none"><li>- Feeding lines to suction side of the mechanical fuel pump (5).</li><li>- Lines from pressure side of the mechanical fuel pump to inlet of fuel manifold (6).</li><li>- Returnline from fuel pressure control to fuel tank.</li></ul>
<b>Return line</b>	Via the return line (5) surplus fuel flows back to the fuel tank and suction side of fuel system. <b>NOTE:</b> The return line prevents malfunctions caused by the formation of vapor lock.
<b>Components</b>	The fuel system includes the following items: <ul style="list-style-type: none"><li>- Tank</li><li>- Coarse filter</li><li>- Fine filter/water trap</li><li>- Fuel shut off valve</li><li>- Electrical fuel pump</li><li>- Manometer</li><li>- Return line from tank to engine (with integrated adapter sleeve)</li></ul> as well as the required fuel lines and connections.

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