

E-TEC DIRECT FUEL INJECTION

SERVICE TOOLS

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GENERAL

WARNING

Always disconnect the magneto connector prior to:

- Disconnecting any fuel hose.
 - Removing a fuel injector.
 - Removing a spark plug cable or spark plug.
- Otherwise, fuel vapors may ignite in presence of a spark creating a fire hazard.

WARNING

The fuel system is under high pressure. Proceed with care when working on the fuel system. Wear safety glasses and work in a well ventilated area.

Release fuel system pressure prior to removing fuel system components. Refer to *FUEL TANK REMOVAL* in *FUEL TANK AND FUEL PUMP* subsection.

WARNING

Perform a fuel pressure test each time a component from the fuel system is removed. Prior to starting the engine when a fuel hose was disconnected or a fuel injector removed:

- Ensure all fuel lines are properly connected.
- Inspect engine compartment to detect any fuel leakage or an abnormally strong fuel odor which may be an indication of a fuel leak that is not readily visible.

SYSTEM DESCRIPTION

The ECM reads the input signals from different sensors which indicate engine operating conditions at micro-second intervals.

The ECM calculates the proper air/fuel ratio and activates the output to fuel injectors.

Signals from sensors are used by the ECM to determine the injection parameters (fuel maps required for optimum air-fuel ratio).

The crankshaft position sensor (CPS), the throttle position sensor (TPS) are the primary sensors used to control the injection. Other sensors (like temperature sensors, etc.) are used as secondary input.

Sea Doo Direct Fuel Injection Manual

Sebastian Brünink



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