



Service Advisory

Date: October 18, 2002

Product Line: Snowmobile

Advisory No: SAS311

Subject: EFI High Temperature Light and Fuel Designation Switch

Affected Models:

2003 700 EFI Models

The 2003 700 EFI models are equipped with many new features, and although these features are explained quite thoroughly in the Operator's Manual and in the Snowmobile Service Manual, Arctic Cat feels it is appropriate to clarify some of the special features in more detail.

High Temperature Light

Since 1999, Arctic Cat EFI engines have been equipped with a rich "fail safe" mode that has protected the engines from overheating. The 2003 700 EFI models still have a rich "fail safe" mode, but with a special feature. The 700 EFI now is equipped with a check-engine light located on the speedometer/tachometer. The check-engine light will automatically display a warning light when the engine is reaching unacceptable operating temperatures. When the coolant temperature reaches 80° C (176° F), the check-engine light will flash continuously. The rich "fail safe" mode is now in operation.

In this mode, the engine will lose power since the fuel delivery is richer than normal. If the snowmobile is operated until the temperature reaches 93° C (200° F), the check-engine light will stay on with no flashing. The ECU will continue to enrich the fuel delivery until the peak power is very low.

The purpose of the check-engine light is to warn the operator that the snowmobile is being operated with marginal cooling. The operator should either stop, shut the engine off, and allow the engine to cool, or if loose snow is available, drive the snowmobile into the loose snow allowing snow to cool the heat exchangers.

■ **NOTE: The check-engine light cannot be retrofitted to any other EFI model.**

Fuel Designation Switch

For your convenience, Arctic Cat has added a fuel designation switch located on the console to activate the ECU either into the ethanol mode or into the regular mode. This switch replaces the former method of disconnecting the gray wire (located at the ECU) to activate the ECU ethanol mode. The switch is in the **up** position to activate the ethanol mode and in the **down** position to activate the regular mode.

The switch can be activated at any engine speed under 5000 RPM on 700 cc engines only. All other EFI systems won't activate until the engine is shut off and the gray wire is disconnected. The fuel designation switch can be retrofitted to any EFI model currently equipped with a gray wire for switching to the ethanol mode; however, if the switch is retrofitted to an older snowmobile, the engine will have to be shut off in order to switch to either mode.

Sincerely,

Product Service Department
Arctic Cat Inc.