

## **EMISSION CONTROL WARRANTY STATEMENT**

### **YOUR WARRANTY RIGHTS AND OBLIGATIONS**

The U.S. EPA and Origin Engines, Inc. (Origin) are pleased to explain the emission control system warranty on your 2013 Off-Road Large Spark Ignition certified engine. New off-road Large Spark-Ignition (LSI) engines must be designed, built and equipped to meet stringent Federal anti-smog standards. Origin must warrant the emission control system on your engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your engine.

Your emission control system may include parts such as the carburetor, regulator or fuel injection system, ignition system, engine computer unit (ECM), catalytic converter and air induction system. Also included may be sensors, hoses, belts, connectors and other emission-related assemblies. See below the complete Emissions Warranty Parts List.

Where a warrantable condition exists, Origin will repair your LSI engine at no cost to you including diagnosis, parts and labor.

#### **MANUFACTURER'S WARRANTY COVERAGE:**

The warranty period begins on the date the engine or equipment is delivered to the ultimate purchaser. Operating hours will be determined by the Engine Control Module's (ECM's) internal hour meter.

#### **Base Warranty Period**

The engine's base warranty period is 2500 hours or 3 years, whichever comes first.

#### **General Emissions-Related Components:**

3 (three) years or 2,500 hours for LSI (Large Spark Ignition) engines, whichever occurs first as per items listed in the "General Emissions Warranty Parts List".

#### **High-Cost Emissions-Related Components:**

5 (five) years or 3,500 hours, whichever occurs first

#### **OWNER'S WARRANTY RESPONSIBILITIES:**

- a) As the off-road LSI engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. Origin recommends that you retain all receipts covering maintenance of your off-road engine, but Origin cannot deny warranty solely for the lack of receipts or for failure to ensure the performance of all scheduled maintenance.
- b) As the off-road LSI engine owner, you should however be aware that Origin may deny your warranty coverage if your off-road engine or a part has failed due to abuse, accidents, neglect, misuse, improper service or maintenance, wrong or contaminated fuel, use of any starting aid, improper cooling concentration or unapproved modifications.



Your source for industrial engine excellence.

- c) Your engine is designed to operate only on commercial-grade LPG, pipeline-quality natural gas, and some grades of non-pipeline gas. Specifically regarding natural gas, your engine is certified to run on natural gas with a methane content of at least 48% by volume AND an energy content of 800 -1400 BTU per SCF. Use of any other fuels may result in your engine package no longer operating in compliance with EPA emissions requirements.
- d) You are responsible for initiating the warranty process. EPA suggests that you present your off-road LSI engine to an Origin Authorized Distributor (dealer) as soon as any problem exists. The warranty repairs should be completed by the Distributor (dealer) as expeditiously as possible.

### **Component Lists**

#### **Components Covered under the 2500 hour/3 year Warranty**

- Mixer
- Engine Control Module (ECM)
- Engine Coolant Temperature (ECT) sensor
- Electronic throttle
- Engine wiring harness
- Exhaust manifolds
- Headers (alternative option to exhaust manifolds)
- Final stage natural gas fuel pressure regulator
- Fuel supply pressure control valve
- Ignition coil
- Ignition control module
- Intake manifold
- Liquid LPG pressure regulator/vaporizer
- Vapor LPG regulator
- Natural gas regulator
- Manifold Absolute Pressure (MAP)/Intake Air Temp (IAT) sensor
- Closed Crankcase Ventilation (CCV) system
- Pre-catalyst oxygen sensor
- Post-catalyst oxygen sensor
- Wiring Harness

#### **Components Covered under the 3500 hour/5 year Warranty**

- Catalyst
- Fuel Trim Valve

If you have any questions regarding your warranty rights or responsibilities, contact Origin Engines at 877-667-6360.