

Federal Emission Warranty Statement

The following warranty applies to the engines that have been certified to the emission regulation of the U.S. Environmental Protection Agency.

Mitsubishi Heavy Industries, Ltd. warrants to the ultimate purchaser and each subsequent purchaser that **the new non-road, stationary and emergency stationary engine**, including all parts of its emission-control system, meets two conditions:

1. It is designed, built, and equipped so it conforms at the time of sale to the ultimate purchaser with applicable regulation of the U.S. Environmental Protection Agency. If the vehicle in which the engine is installed is registered in the state of California, a separate California emission regulation also applies.
2. It is free from defects in materials and workmanship that may keep it from meeting these requirements.

Warranty Period

The emission warranty period is shown below.

However, if Mitsubishi Heavy Industries, Ltd.'s standard warranty period is longer than the emission warranty period, the emission warranty period extends to same as Mitsubishi Heavy Industries, Ltd.'s standard warranty period.

Below warranty period shall begin on the date **the new non-road, stationary and emergency stationary engine** is delivered to the ultimate purchaser.

If your engine is certified as . . .	And its maximum power is . . .	And its rated speed is . . .	Then its warranty period is . . . (whichever comes first.)	
			hours	years
Variable speed or constant speed	kW < 19	Any speed	1500	2
Constant speed	19 ≤ kW < 37	3000 rpm or higher	1500	2
Constant speed	19 ≤ kW < 37	Less than 3000 rpm	3000	5
Variable speed	19 ≤ kW < 37	Any speed	3000	5
Variable speed or constant speed	37 ≤ kW	Any speed	3000	5

Warranty Parts

Mitsubishi Heavy Industries, Ltd. warrants the parts which will increase the emission of pollutants when they become defective.

The followings are examples.

I All the engine parts relating to the systems below are included in the exhaust-gas related components:

1. Air-induction system
2. Fuel system
3. Ignition system
4. Exhaust gas recirculation systems

II The parts below are also included in the exhaust-gas related components:

1. After-treatment devices
2. Crankcase ventilation valves
3. Sensors
4. Electronic control units

III The parts below also included in the evaporative emission gas related components:

1. Fuel tank
2. Fuel cap
3. Fuel Line
4. Fuel Line Fittings
5. Clamps*
6. Pressure Relief Valves*
7. Control Valves*
8. Control Solenoids*
9. Electric Controls*
10. Vacuum Control Diaphragms*
11. Control Cables*
12. Control Linkages*
13. Purge Valves
14. Vapor Hoses
15. Liquid/Vapor Separator
16. Carbon canister
17. Canister Mounting Brackets
18. Carburetor Purge Port Connector

* Parts related to evaporation-emission-gas control system

Owner's Responsibility

*The owner of the engine is responsible for the performance of the required maintenance listed in this operation manual.

*In accordance with **40 CFR 89.1007**, Mitsubishi Heavy Industries, Ltd. makes no warranties if the operator caused the problem through improper maintenance or use.

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If your engine is certified as . . .	And its maximum power is . . .	Then its warranty period is . . . (whichever comes first.)	
		hours	years
Recreational	All	500	5
Commercial	kW < 19	1500	2.5
	19 ≤ kW < 37	2500	3.5
	37 ≤ kW	5000	5

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Owner's Responsibility

*The owner of the engine is responsible for the performance of the required maintenance listed in this operation manual.

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Warranty Parts

Mitsubishi Heavy Industries, Ltd. warrants the parts which will increase the emission of pollutants when they become defective.

The followings are examples.

I All the engine parts relating to the systems below are included in the exhaust-gas related components:

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Owner's Responsibility

*The owner of the engine is responsible for the performance of the required maintenance listed in this operation manual.

*In accordance with **40 CFR 1068.115**, Mitsubishi Heavy Industries, Ltd. makes no warranties if the operator caused the problem through improper maintenance or use.

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Mitsubishi Heavy Industries, Ltd. warrants to the ultimate purchaser and each subsequent purchaser that **the new non-road, stationary and emergency stationary engine**, including all parts of its emission-control system, meets two conditions:

1. It is designed, built, and equipped so it conforms at the time of sale to the ultimate purchaser with applicable regulation of the U.S. Environmental Protection Agency. If the vehicle in which the engine is installed is registered in the state of California, a separate California emission regulation also applies.
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California Emission Control Warranty Statement: your Warranty Rights and Obligations

IMPORTANT

The following warranty applies to the engines that have been certified the emission regulation of **the California Air Resources Board (CARB)**.

The California Air Resources Board (CARB) is pleased to explain the emission control system warranty on your **2013** or later engine. In California, new off-road engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. Mitsubishi Heavy Industries, Ltd. 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 fuel-injection system and the air induction system. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, Mitsubishi Heavy Industries, Ltd. will repair your off-road engine at no cost to you including diagnosis, parts, and labor.

Manufacturer's warranty coverage

The **2013** and later off-road engines are warranted for the warranty period (Same as warranty period of EPA Emission Warranty in this manual). If any emission-related part on your engine is defective, the part will be repaired or replaced by Mitsubishi Heavy Industries, Ltd.

Warranty coverage

- (a) The warranty period shall begin on the date the engine or equipment is delivered to an ultimate purchaser. The use of alternate fuels shall not void the warranties on any engine certified to use such fuel.
- (b) Mitsubishi Heavy Industries, Ltd. of each off-road compression-ignition engine shall warrant to the ultimate purchaser and each subsequent purchaser of the engine registered in the state of California that the engine is:
 - (1) Designed, built and equipped so as to conform with all applicable regulations adopted by the Air Resources Board pursuant to its authority in Chapters 1 and 2, Part 5, Division 26 of the Health and Safety Code; and.
 - (2) Free from defects in materials and workmanship which cause the failure of a warranted part to be identical in all material respects to the parts as described in Mitsubishi Heavy Industries, Ltd.'s application for certification for a period of 5 years or 3,000 hours of operation, whichever occurs first, for all engines rated at 19kW and greater, except as noted below. In the absence of a device to measure hours of use, the engine shall be warranted for a period of 5 years. For all engines rated less than 19 kW, and for constant-speed engines rated under 37 kW with rated speeds higher than or equal to 3,000 min⁻¹, the period of 2 years or 1,500 hours of operation, whichever occurs first, shall apply. In the absence of a device to measure hours of use, the engine shall be warranted for a period of 2 years.

- (c) The warranty on emission-related parts shall be interpreted as follows:
- (1) Any warranted part which is not scheduled for replacement as required maintenance in the written instructions required by Subsection (e) shall be warranted for the warranty period defined in Subsection (b) (2). If any such part fails during the period of warranty coverage, it shall be repaired or replaced by Mitsubishi Heavy Industries, Ltd. according to Subsection (4) below. Any such part repaired or replaced under the warranty shall be warranted for the remaining warranty period.
 - (2) Any warranted part which is scheduled only for regular inspection in the written instructions required by Subsection (e) shall be warranted for the warranty period defined in Subsection (b) (2). A statement in such written instructions to the effect of "repair or replace as necessary" shall not reduce the period of warranty coverage. Any such part repaired or replaced under the warranty shall be warranted for the remaining warranty period.
 - (3) Any warranted part which is scheduled for replacement as required maintenance in the written instructions required in Subsection (e) shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by Mitsubishi Heavy Industries, Ltd. according to Subsection (4) below. Any such part repaired or replaced under the warranty shall be warranted for the remaining warranty period.
 - (4) Repair or replacement of any warranted part under the warranty provisions of this article shall be performed at no charge to the owner at a warranty station.
 - (5) Notwithstanding the provisions of Subsection (4) above, warranty services or repairs shall be provided at all Mitsubishi Heavy Industries, Ltd. distribution centers that are franchised to service the subject engines.
 - (6) The owner shall not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.
 - (7) Mitsubishi Heavy Industries, Ltd. shall be liable for damages to other engine components proximately caused by failure under warranty of any warranted part.
 - (8) Throughout the engine's warranty period defined in Subsection (b) (2), Mitsubishi Heavy Industries, Ltd. shall maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
 - (9) Any replacement part, as defined in Section 1900(b) (13), Title 13, may be used in the performance of any maintenance or repairs and must be provided without charge to the owner. It is not necessary for replacement parts to be the same brand or by the same manufacturer as the original part sold with the engine. Such use shall not reduce the warranty obligations of Mitsubishi Heavy Industries, Ltd.
 - (10) Add-on or modified parts, as defined in Section 1900(b)(1) and (b)(10), Title 13, that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts shall be grounds for disallowing a warranty claim made in accordance with this article. Mitsubishi Heavy Industries, Ltd. shall not be liable under this article to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.
 - (11) The Executive Officer may request and, in such case, Mitsubishi Heavy Industries, Ltd. shall provide, any documents which describe that Mitsubishi Heavy Industries, Ltd.'s warranty procedures or policies.
- (d) Warranted parts list.
- (1) Fuel metering system.
 - (A) Fuel injection system.
 - (B) Air/fuel ratio feedback and control system.
 - (C) Cold start enrichment system.

- (2) Air induction system
 - (A) Controlled hot air intake system.
 - (B) Intake manifold.
 - (C) Heat riser valve and assembly.
 - (D) Turbocharger/supercharger systems.
 - (E) Charged air cooling systems.
- (3) Exhaust gas recirculation (EGR) system
 - (A) EGR valve body, and carburetor spacer if applicable.
 - (B) EGR rate feedback and control system.
- (4) Air injection system
 - (A) Air pump or pulse valve.
 - (B) Valves affecting distribution of flow.
 - (C) Distribution manifold.
- (5) Catalyst or thermal reactor system
 - (A) Catalytic converter.
 - (B) Thermal reactor.
 - (C) Exhaust manifold.
- (6) Particulate controls
 - (A) Traps, filters, precipitators, and any other devices used to capture particulate emissions.
 - (B) Regenerators, oxidizers, fuel additive devices, and any other device used to regenerate or aid in the re-generation of the particulate control device.
 - (C) Control device enclosures and manifolding.
 - (D) Smoke puff limiters.
- (7) Advances oxides of nitrogen (NOx) controls
 - (A) Nox absorbers.
 - (B) Lean NOx catalysts.
 - (C) Selective catalyst reduction.
 - (D) Reductant (urea/fuel) containers/dispensing systems.
- (8) Positive crankcase ventilation (PCV) system
 - (A) PCV valve.
 - (B) Oil filler cap.
- (9) Miscellaneous items used in above systems
 - (A) Vacuum, temperature, and time sensitive valves and switches.
 - (B) Electronic control units, sensors, solenoids, and wiring harnesses.
 - (C) Hoses, belts, connectors, assemblies, clamps, fittings, tubing, sealing gaskets or devices, and mounting hardware.
 - (D) Pulleys, belts and idlers.
 - (E) Emission control information labels.
 - (F) Any other part with the primary purpose of reducing emissions or that can increase emissions during failure without significantly degrading engine performance.
- (e) Mitsubishi Heavy Industries, Ltd. shall furnish with each new engine written instructions for the maintenance and use of the engine by the owner.

Owner's Warranty Responsibilities

*As the off-road engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Mitsubishi Heavy Industries, Ltd. recommends that you retain all receipts covering maintenance on your off-road engine, but Mitsubishi Heavy Industries, Ltd. cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

*As the off-road engine owner, you should, however, be aware that our company may deny you warranty coverage if your off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

*Your engine is designed to operate on diesel fuel only. Use of any other fuel may result in your engine no longer operating in compliance with California's emissions requirements.

*You are responsible for initiating the warranty process. The ARB suggests that you present your off-road engine to a Mitsubishi Heavy Industries, Ltd. dealer or distributor dealer as soon as problem exists. The warranty repairs should be completed by the dealer or distributor as expeditiously as possible.

If you have any questions regarding your warranty rights and responsibilities, you should contact Mitsubishi Engine North America at **1-630-268-0750**.