

# *Honda General Purpose Engines*



*Features & Benefits*

*2011*



# *M-4 Series Engines*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

2-Year Limited  
Warranty

Integrated  
Cylinder and Head

Full 360 Degree  
Operation

Easy Starting



Low  
Vibration

Low Noise

Impressive  
Fuel  
Economy

## **Make light work of hard tasks with the world's lightest OHC engine**

Honda has applied its superior engine technology and decades of automotive, motorcycle and power equipment experience to create the world's first 360° inclinable 4-Stroke engines. Designed with Honda's ingenious Mini 4-Stroke technology, each engine efficiently delivers clean, powerful, quiet performance. Its low vibration reduces work fatigue, making it the ideal power plant for an incredible array of applications from hand-held and portable equipment including brush cutters, mowers and pumps, to hobbyist applications such as radio-controlled vehicles. Wherever and however it's used, the revolutionary Honda Mini 4-Stroke will enhance the attractiveness, quality and value of any product.

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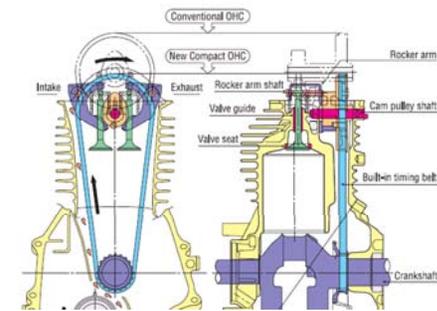
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Economy

## Overhead Cam, Internal Timing Belt



## Robust Power & Quick Throttle Response

An efficient new port configuration and large-diameter valves help maximize the power output of the OHC configuration for satisfyingly robust performance. A lighter, more rigid valve train helps extend the engine's superior 4-Stroke performance throughout its entire speed range, while a new carburetor equipped with an accelerator pump ensures consistently fast, easy acceleration.

### Net Power – SAE J1349:

SAE J1349 measures net power with the manufacturer's standard air filter and muffler but without the governor system. It gives a reasonable indication of the power output in the application. The power rating of the engines indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3600 rpm. Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

**Note:** M4 engines are rated at 7000 rpm.

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## Cleaner running with No Catalyst

Honda certifies to all current CARB and EPA emission requirements by offering 50-state compliant engines only. The development of one engine for use in all 50 states continues to reflect Honda's forward thinking with regard to emission regulations, air quality and the needs of our customers.

Our advanced engine technology allows Honda to remain compliant for the foreseeable future without the use of a catalytic converter.

Honda's environmentally conscious technology results in significantly lower HC and NOx emissions compared to 2-Stroke engines and certifies to the world's toughest emissions regulations.

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## **Smoother running**

The M-4 series of engines are manufactured to precise dimension and weight tolerances to assure the smoothest operation possible.

Less vibration means greater longevity out of the engines and less operator fatigue.

# M-4 Series Engines

High Power Output

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Operation

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## Dramatically improved sound quality

Power equipment users and their neighbors will prefer the quiet operation offered by the M-4 Series' built-in timing belt. Valve train and gear noise have also been minimized for a better quality engine sound that is distinctly easier on the ears – a feature sure to be appreciated by users and bystanders alike.

# M-4 Series Engines

High Power Output

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## Total Gasoline & Oil Consumption Costs† (Based on 5 months use/year)



## Reduced Fuel & Oil Consumption

Efficient 4-Stroke technology not only offers superior fuel economy, it also requires no mixing of oil directly into the engine's fuel supply, thus substantially reducing both oil consumption and the emission of unburned oil in the exhaust. The results include better all-around environmental performance and operating costs that actually decrease the more the engine is used!

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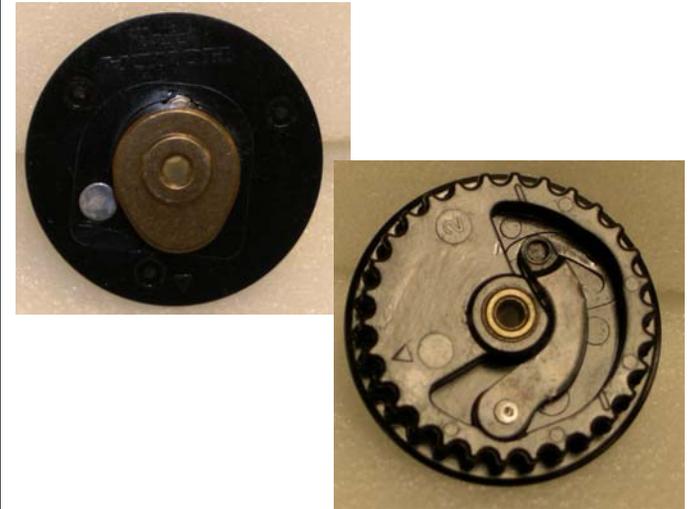
Easy Starting



Low  
Vibration

Low Noise

Impressive  
Fuel  
Economy



## Quick, Easy Starts Even After Long Storage

A new exhaust decompression system and precise 4-Stroke intake and exhaust control ensure considerably easier, more natural-feeling recoil starting.

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Cylinder and Head



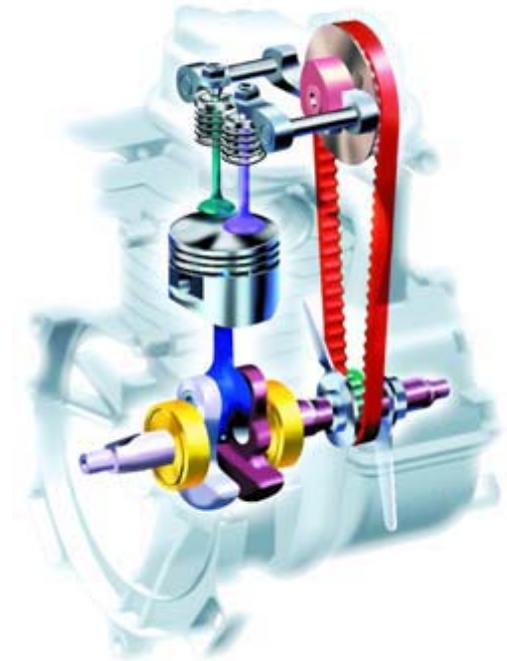
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Full 360 Degree  
Operation

Easy Starting



## Full 360°“Any-Side-Up” Operation

The innovative design of Honda's Mini 4-Stroke allows it to be used and stored in absolutely any position – upright, sideways, even upside down – for a full 360° of usability. An exclusive Honda rotary-slinger lubrication system keeps oil in a completely misted state and circulates it using pressure fluctuations generated by the movement of the piston. Built-in passages effectively return the circulated oil to the oil reservoir from every part of the engine, and an oil return port positioned in the center of the reservoir ensures that oil cannot accidentally flow into the combustion chamber.

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Vibration

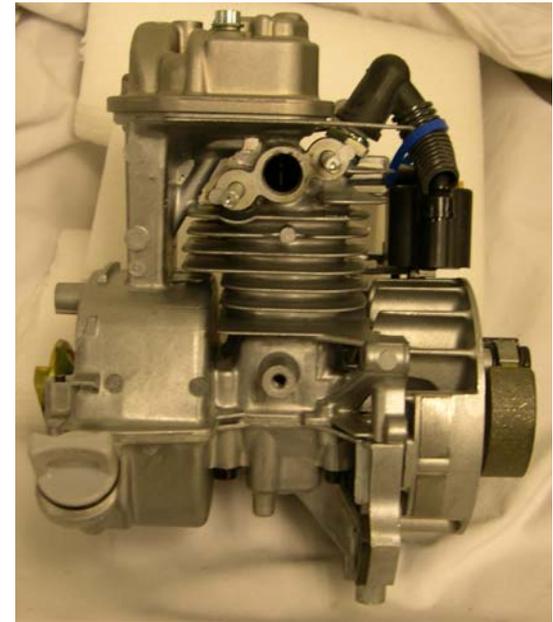
Low Noise

Integrated  
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Full 360 Degree  
Operation

Easy Starting



## Integrated Cylinder and Head

An integrated cylinder and head mean better performance.

The cylinder head is cast with the cylinder barrel

- Eliminates the need for cylinder head gaskets and head bolts
- Provides exceptional cooling
- Enhances reliability
- More precise combustion chamber temperature management

Fewer parts also mean a quieter running engine and better durability.

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Easy Starting

**HONDA**  
**ENGINES**

## Distributor's Limited Warranty

Honda General Purpose Engines

This warranty is limited to Honda general purpose engines distributed by American Honda Motor Co., Inc., Power Equipment Division, 4900 Marconi Drive, Alpharetta, Georgia 30005-8847.

PRODUCTS COVERED BY THIS WARRANTY:		LENGTH OF WARRANTY: (FROM DATE OF ORIGINAL PURCHASE)	
PRODUCT	APPLICATIONS	NONCOMMERCIAL/NONRENTAL	COMMERCIAL/RENTAL
GX & GCV Series Engines (not listed below)	All (1)	24 months	24 months (2)
GX22, GX25, GX31, GX35, GXH50 & GXV50, GS & GSV Series Engines	All	24 months	12 months (3)
GC & GCV Series Engines	All	24 months	3 months (3)

### 2-Year limited warranty

All M-4 series engines come with a 2 year limited warranty when used in a homeowner type application, and 3 months warranty in a commercial application.

# *GC/GCV-GS/GSV Series Engines*



There are many reasons to insist on genuine Honda engines. As the world's largest engine manufacturer, Honda offers more engine experience than anyone.

Experience born on racetracks and roadways around the globe. Experience that keeps us on the cutting edge of engine performance technology and can be found on our entire product line. From automobiles, race cars, motorcycles and all-terrain vehicles to marine engines, power equipment products and general-purpose engines, Honda is committed to designing products that meet or exceed the demands of our customers.

Based on the wide variety of products we offer with our Honda engines, we're experts at matching the right engine for the right job and producing engines that will "get the job done" no matter what the application.

Throughout our history, Honda has been dedicated to technological and environmental innovation, and today is no different. After all, we have a legendary reputation to live up to. A reputation for unsurpassed quality, performance and reliability.

A reputation worth considering the next time you're in the market for an engine.

# GC/GCV-GS/GSV Series Engines

**Best Practice**

High Power Output

50 State Emissions Compliant  
With no catalyst

Genuine Honda

2-Year Limited Warranty

Integrated Cylinder, Head and Crankcase

Auto Throttle

Several Choke Options

Honda Reliability

Economical



Lightweight, Compact Design

Low Vibration

Low Noise

Easy Starting



## Best Practice

Honda's fuel bowl shape allows very little (< 1cc) remaining fuel in the bowl if the customer shuts off the fuel valve and runs the carb dry, which is a best practice that we have added to our owners manuals.



Old style float bowl



New style float bowl

## Best Practice

If the customer still chooses to drain the carburetor bowl this can be easily accomplished by simply loosening the bottom retaining bolt 1 turn and allowing the fuel to drain.

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Compact Design

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Integrated  
Cylinder, Head  
and Crankcase

Low Noise

Auto Throttle

Easy  
Starting

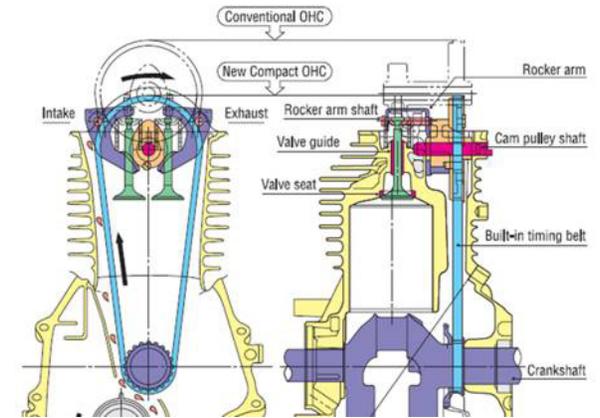
Several Choke  
Options

Honda  
Reliability

Economical



## Overhead Cam, Internal Timing Belt



### More Power

Honda's superior engine design results in increased efficiency and transfer of power to your application.

The overhead valve creates more power and allows for a more complete and thorough combustion process. The overhead valve design further benefits from the use of an overhead cam..

### Net Power – SAE J1349:

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Options

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Reliability

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Lightweight,  
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Low  
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Easy  
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## **Cleaner Running with No Catalyst**

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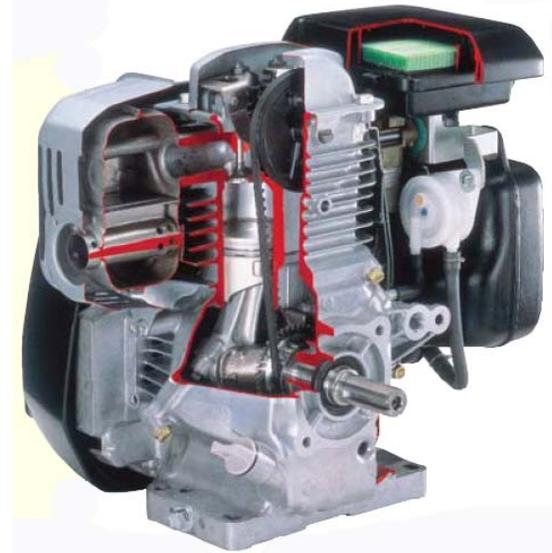
Economical

Lightweight,  
Compact Design

Low  
Vibration

Low Noise

Easy  
Starting



## The lightest engines in their class

A revolutionary combination of the world's first internal timing belt, a tough nylon overhead cam and uniblock construction has made the GC Series lighter and more compact than any engine in their class. Plus, simple construction has minimized the number of parts, making the engine reliable and easier to operate..

# GC/GCV-GS/GSV Series Engines

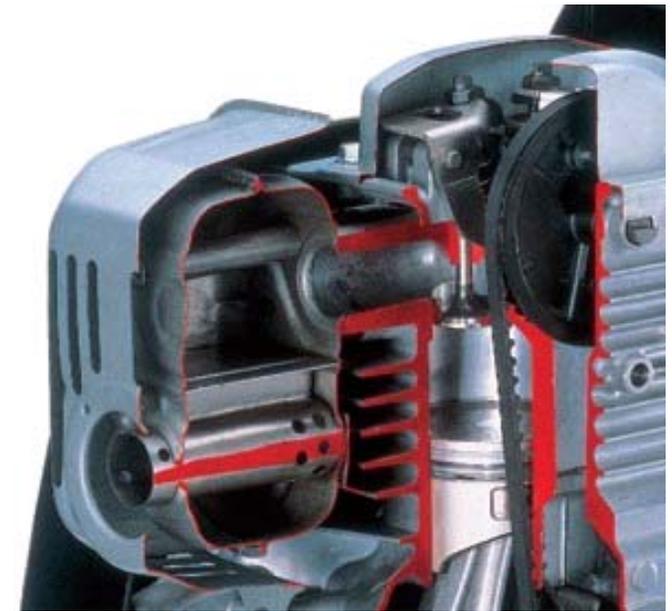


## **Smoother running**

The GC series of engines are manufactured to precise dimension and weight tolerances to assure the smoothest operation possible.

Less vibration means greater longevity out of the engines and less operator fatigue.

# GC/GCV-GS/GSV Series Engines



## **Dramatically improved sound quality**

Power equipment users and their neighbors will prefer the quiet operation offered by the GC Series' built-in timing belt. Valve train and gear noise have also been minimized for a better quality engine sound that is distinctly easier on the ears – a feature sure to be appreciated by users and bystanders alike.

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Lightweight,  
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Cylinder, Head  
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Auto Throttle

**Easy  
Starting**

Several Choke  
Options

Honda  
Reliability

Economical



## Fast, easy, reliable starting

GC Series engines feature a horizontal cross-flow intake port that smoothes the flow of fuel into the combustion chamber for quick, reliable starts that require no special skills. Automatic mechanical de-compression mechanism built into the camshaft (shown) and electronic ignition further ensures easy starting.

# GC/GCV-GS/GSV Series Engines



## Reduced maintenance and fuel consumption

A truly innovative combination of a compact combustion chamber, overhead cam configuration and uniblock construction significantly reduces fuel and oil consumption as compared to conventional side-valve engines. Honda's DuaLube™ System achieves full engine lubrication by combining governor slinger paddles and an oil-delivering timing belt. Also, simple construction reduces many potential maintenance needs, making Honda's GC engine one of the most efficient and cost-effective engines available.

# GC/GCV-GS/GSV Series Engines



## Consistent, dependable power

The wide, flat, powerful torque offered by Honda's GC Series engines helps reduce engine speed drop associated with sudden load increases for smoother, less-troublesome all-around performance.

The GS Series engines offer higher durability with features like a cast iron cylinder sleeve and three-piece oil control piston ring for long engine life.

These powerful engines are built strong with long-term use in mind and are an excellent choice for demanding homeowner and light duty commercial applications.

# GC/GCV-GS/GSV Series Engines



## Automatic Choke

The vertical shaft engines are available with Auto Return Choke System or full Automatic Choke. *Lawnmower models only.*

Both systems will prevent the owner from over choking the engine and causing operational problems. They also eliminate the need for levers and cables to operate the choke.

Both vertical and horizontal engines can also be equipped with manual lever or remote choke options.

# GC/GCV-GS/GSV Series Engines



## Auto Throttle

The engine does not require integration with pump and/or cables to operate the Auto Throttle, no frame changes required, engine dimensions/mounting are unchanged.

Fully automatic throttle control, does not require customer input, controlled by load application.

Quieter operation, 9.58 dB(A) average noise reduction\* and improved fuel economy, 11.2% greater fuel efficiency.\*

- Noise reduction based on a 66.7% duty cycle
- Fuel reduction dependent on load on/load off duration and frequency
- 11.2 % fuel reduction figure based on a 66.7% duty cycle

# GC/GCV-GS/GSV Series Engines



## Uni-block construction

An integrated cylinder, head and crankcase mean better performance, the cylinder head is cast with the cylinder barrel and crankcase.

This eliminates the need for cylinder head gaskets and head bolts, provides exceptional cooling and enhances reliability.

Gives more precise combustion chamber temperature management with fewer parts creating a quieter running engine and better durability.

# GC/GCV-GS/GSV Series Engines

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Lightweight,  
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**HONDA**  
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GC & GCV Series Engines	All	24 months	3 months (3)

### 2-Year limited warranty

All GC series engines come with a 2 year limited warranty when used in a homeowner type application, and 3 months warranty in a commercial application.

# ***GX/GXV Series Engines***

**Genuine Honda**

High Power Output

50 State Emissions  
Compliant  
With no catalyst

3-Year  
Limited  
Warranty

Honda Reliability



Low  
Vibration

Low Noise

Oil Alert

Easy Starting

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Based on the wide variety of products we offer with our Honda engines, we're experts at matching the right engine for the right job and producing engines that will "get the job done" no matter what the application.

Throughout our history, Honda has been dedicated to technological and environmental innovation, and today is no different. After all, we have a legendary reputation to live up to. A reputation for unsurpassed quality, performance and reliability.

A reputation worth considering the next time you're in the market for an engine.

# *GX/GXV Series Engines*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability

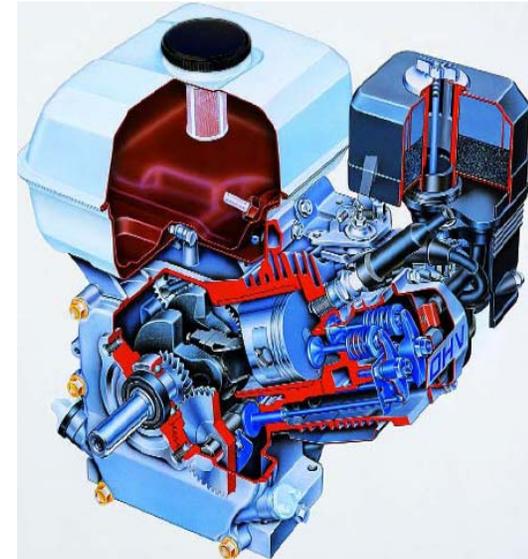


Oil Alert

Easy Starting

Low  
Vibration

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## **More Power**

Honda's superior engine design results in increased efficiency and transfer of power to your application.

The overhead valves creates more power and allows for a more complete and thorough combustion process.

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High Power Output

50 State Emissions  
Compliant  
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Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Low  
Vibration

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## **Cleaner running with No Catalyst**

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Our advanced engine technology allows Honda to remain compliant for the foreseeable future without the use of a catalytic converter.

Environmental responsibility has been an integral part of our product development philosophy years before emission levels were established. In fact, with minor modifications, the same GX Series engine design introduced in 1983 meets today's EPA and CARB emission level standards. Honda's advanced engine technology offers a number of distinct advantages including fuel savings and standardized replacement parts readily available through your local Honda Engines dealer.

# *GX/GXV Series Engines*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Low  
Vibration

Low Noise

Oil Alert

Easy Starting



## **Smoother running**

The GX series engines are manufactured to precise dimension and weight tolerances to assure the smoothest operation possible.

Less vibration means greater longevity out of the engines and less operator fatigue.

# *GX/GXV Series Engines*

High Power Output

50 State Emissions  
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Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Low  
Vibration

Low Noise

Oil Alert

Easy Starting



## **Exceptionally Quiet**

The Honda GX series engines all come with a large capacity, multi chamber exhaust system to keep engine noise to a minimum.

Reduced mechanical noise through application of light weight, noise-reducing materials.

Forged steel crankshaft and ridged crankcase further reduce engine noise.

# *GX/GXV Series Engines*

High Power Output

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Compliant  
With no catalyst

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3-Year  
Limited  
Warranty

Honda Reliability



Oil Alert

Easy Starting

Low  
Vibration

Low Noise



## **Fast, easy, reliable starting**

Honda GX Series engines feature an overhead valve design that smoothes the flow of fuel into the combustion chamber for quick, reliable starts that require no special skills. Automatic mechanical de-compression and electronic ignition further ensures easy starting.

# *GX/GXV Series Engines*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
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Warranty

Honda Reliability

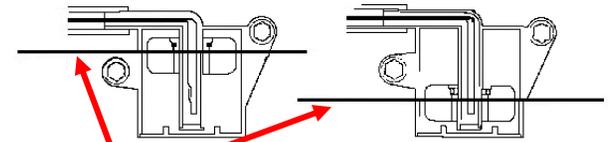


Low  
Vibration

Low Noise

Oil Alert

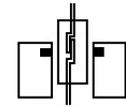
Easy Starting



Oil level



OFF DURING  
NORMAL  
OPERATION



ON DUE TO  
INSUFFICIENT OIL LEVEL

## **No More Engine Failures Due to Insufficient Oil**

Honda GX Series can be equipped with an Oil Alert © unit. Honda's system that shuts the engine off when the oil level reaches an unsafe level.

When the oil level in the engine is sufficient, the magnet inside the float sits above the wire contacts inside the filament tube and has no effect on the wire contacts.

As the oil level drops below the safe limit, the float drops down and the magnet pulls the two contact leads together. This grounds the ignition system and stops the engine.

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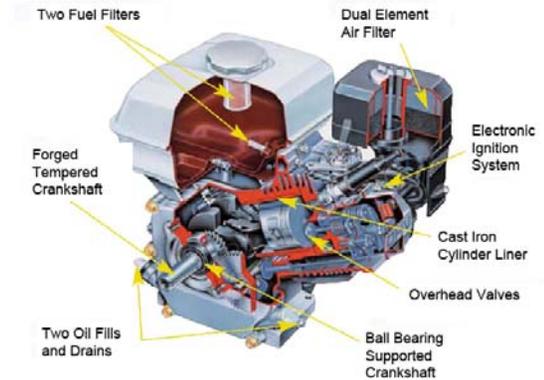


Oil Alert

Easy Starting

Low  
Vibration

Low Noise



**The GX Series Engines have reliability written all over them.**

Honda GX Series Engines have long been recognized as the industry leader in providing reliable, easy-starting and fuel efficient small engines. You'll find Honda GX Series overhead valve engines on a wide variety of construction, maintenance and premium power equipment.

The rental industry, where power equipment is subjected to the ultimate test of durability, relies heavily on Honda OHV engines to ensure customer satisfaction and a minimal level of maintenance and repair. When it comes to reliability, trust the engines with the Honda name.

Next time you visit a rental center, see a landscape truck or pass by a construction site, you'll probably see a Honda GX engine-powered piece of equipment. Stop and ask them what they think of the Honda engine. Chances are they'll tell you they wouldn't use anything else.

Sure, you can find a less expensive engine, but you won't find a more reliable one.

# *GX/GXV Series Engines*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Low  
Vibration

Low Noise

Oil Alert

Easy Starting



## **3-Year Limited Warranty**

You already know that Honda engines are reliable. Now we've put it in writing. All Honda GX/GXV engines come with a 3-year limited warranty.

# Refreshed GX240 - GX390

Genuine Honda

High Power Output

50 State Emissions  
Compliant  
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3-Year  
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Honda Reliability



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Warranty

Honda Reliability

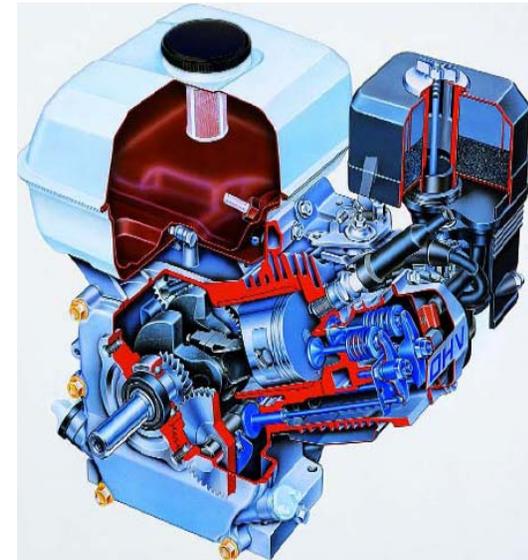


Oil Alert

Easy Starting

Low  
Vibration

Low Noise



## More Power/Same Package

Honda's superior engine design results in increased efficiency and transfer of power to your application.

An average of 6% increase in HP over earlier GX series engines with an average of 10% improvement in fuel economy. This was done by increasing the compression ratio and the addition of a digital CDI ignition system.

### Net Power – SAE J1349:

SAE J1349 measures net power with the manufacturer's standard air filter and muffler but without the governor system. It gives a reasonable indication of the power output in the application. The power rating of the engines indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3600 rpm. Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

# Refreshed GX240 - GX390

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Oil Alert

Easy Starting

Low  
Vibration

Low Noise



## Cleaner running with No Catalyst

Honda certifies to all current EPA emission requirements by offering 50-state compliant engines only. The development of one engine for use in all 50 states continues to reflect Honda's forward thinking with regard to emission regulations, air quality and the needs of our customers.

Our advanced engine technology allows Honda to remain compliant for the foreseeable future without the use of a catalytic converter.

Environmental responsibility has been an integral part of our product development philosophy years before emission levels were established. In fact, with minor modifications, the same GX Series engine design introduced in 1983 meets today's EPA emission level standards. Honda's advanced engine technology offers a number of distinct advantages including fuel savings and standardized replacement parts readily available through your local Honda Engines dealer.

# Refreshed GX240 - GX390

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Oil Alert

Easy Starting

Low  
Vibration

Low Noise



## **Smoother running**

The GX series engines are manufactured to precise dimension and weight tolerances to assure the smoothest operation possible.

Less vibration means greater longevity out of the engines and less operator fatigue.

Refreshed GX series engines have less vibration than current GX engines, with an improved piston design that helps to reduce engine vibration.

# Refreshed GX240 - GX390

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Oil Alert

Easy Starting

Low  
Vibration

Low Noise



## Exceptionally Quiet

The Honda GX series engines, when equipped with Honda mufflers, come with a large capacity, multi chamber exhaust system to keep engine noise to a minimum.

Reduced mechanical noise through application of light weight, noise-reducing materials.

Forged steel crankshaft and rigid crankcase further reduce engine noise.

In addition to an improved piston design, the refreshed GX engines have an improved camshaft and muffler to reduce overall engine noise by up to 5 dB (A).

# Refreshed GX240 - GX390

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability

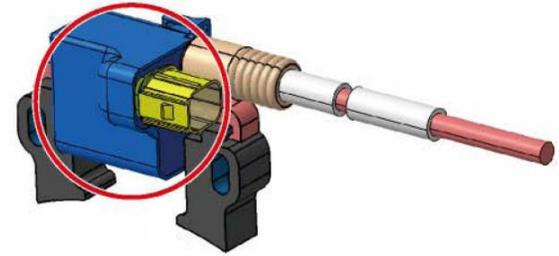


Oil Alert

Easy Starting

Low  
Vibration

Low Noise

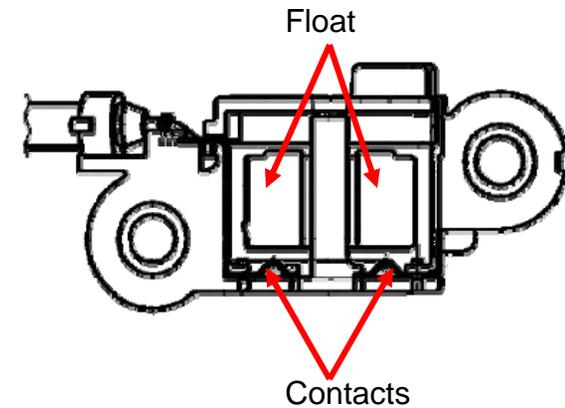
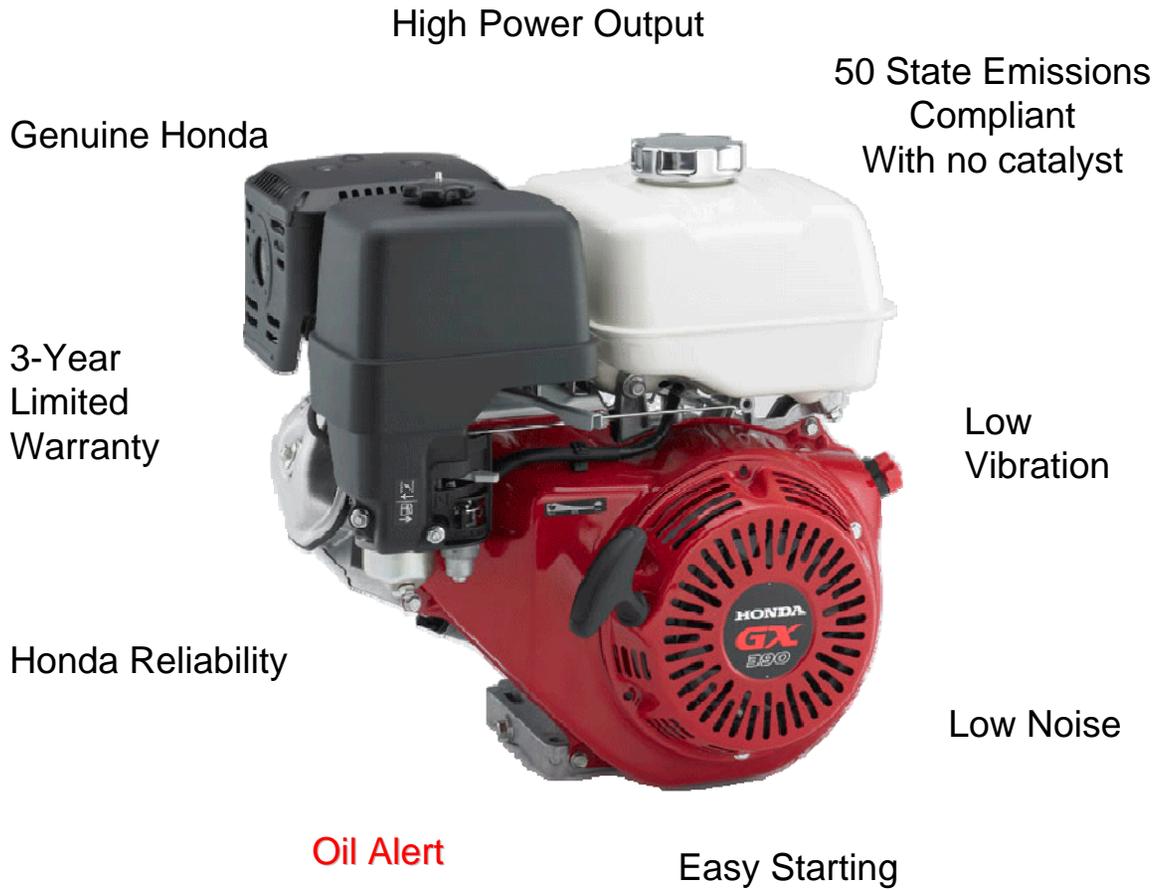


## Fast, easy, reliable starting

Honda GX Series engines feature an overhead valve design that smoothes the flow of fuel into the combustion chamber for quick, reliable starts that require no special skills.

Automatic mechanical de-compression and electronic ignition further ensures easy starting. Starting is also enhanced by the addition of the digital CDI with higher spark plug voltage at start up and variable ignition timing. The engine stop circuit has been changed to "Open circuit stop" for improved safety and reliability.

# Refreshed GX240 - GX390



## No More Engine Failures Due to Insufficient Oil

Honda GX Series engines can be equipped with an Oil Alert © unit, Honda's system that shuts the engine off when the oil level reaches an unsafe level.

When the oil level in the engine is sufficient, the float remains above the contacts inside the float chamber.

As the oil level drops below the safe limit, the float drops down, grounds the ignition system and stops the engine.

# Refreshed GX240 - GX390

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability

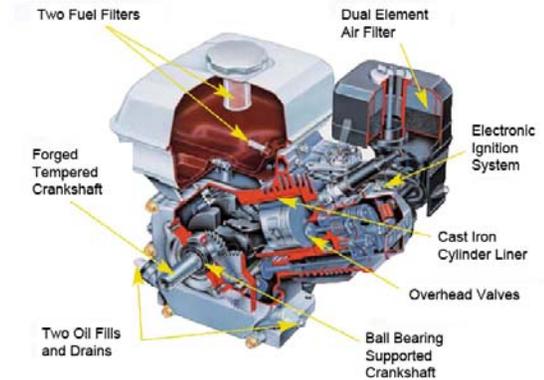


Oil Alert

Easy Starting

Low  
Vibration

Low Noise



**The GX Series Engines have reliability written all over them.**

Honda GX Series Engines have long been recognized as the industry leader in providing reliable, easy-starting and fuel efficient small engines. You'll find Honda GX Series overhead valve engines on a wide variety of construction, maintenance and premium power equipment.

The rental industry, where power equipment is subjected to the ultimate test of durability, relies heavily on Honda OHV engines to ensure customer satisfaction and a minimal level of maintenance and repair. When it comes to reliability, trust the engines with the Honda name.

Next time you visit a rental center, see a landscape truck or pass by a construction site, you'll probably see a Honda GX engine-powered piece of equipment. Stop and ask them what they think of the Honda engine. Chances are they'll tell you they wouldn't use anything else.

Sure, you can find a less expensive engine, but you won't find a more reliable one.

# Refreshed GX240 - GX390

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Low  
Vibration

Low Noise

Oil Alert

Easy Starting



## 3-Year Limited Warranty

You already know that Honda engines are reliable. Now we've put it in writing. All Honda GX series engines come with a 3-year limited warranty.

# *iGX 440 Engine*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year Limited  
Warranty

Programmable  
Engine Control  
System



Improved  
Air Cleaner

Easy  
Starting

Impressive  
Fuel  
Economy

Low  
Vibration

Low Noise

There are many reasons to insist on genuine Honda engines. As the world's largest engine manufacturer, Honda offers more engine experience than anyone.

Experience born on racetracks and roadways around the globe. Experience that keeps us on the cutting edge of engine performance technology and can be found on our entire product line. From automobiles, race cars, motorcycles and all-terrain vehicles to marine engines, power equipment products and general-purpose engines, Honda is committed to designing products that meet or exceed the demands of our customers.

Based on the wide variety of products we offer with our Honda engines, we're experts at matching the right engine for the right job and producing engines that will "get the job done" no matter what the application.

Throughout our history, Honda has been dedicated to technological and environmental innovation, and today is no different. After all, we have a legendary reputation to live up to. A reputation for unsurpassed quality, performance and reliability.

A reputation worth considering the next time you're in the market for an engine.

# *iGX 440 Engine*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year Limited  
Warranty

Programmable  
Engine Control  
System



Improved  
Air Cleaner

Easy  
Starting

Impressive  
Fuel  
Economy

Low  
Vibration

Low Noise

## **More Power**

Honda's superior engine design results in increased efficiency and transfer of power to your application.

The overhead valve design creates more power and allows for a more complete and thorough combustion process. The overhead valve design further benefits from the use of an overhead cam.

### **Net Power – SAE J1349:**

SAE J1349 measures net power with the manufacturer's standard air filter and muffler but without the governor system. It gives a reasonable indication of the power output in the application. The power rating of the engines indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3600 rpm. Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

# *iGX 440 Engine*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year Limited  
Warranty

Programmable  
Engine Control  
System



Improved  
Air Cleaner

Easy  
Starting

Impressive  
Fuel  
Economy

Low  
Vibration

Low Noise



## **Cleaner Running with No Catalyst**

Cutting-edge iGX technology results in lower fuel consumption, lower emissions and lower noise through reduced total engine running time and engine speed that can be lowered based on power demands. Benefiting both the consumer and the environment, iGX technology works in conjunction with the engine's V-type valve layout and sparkplug-center combustion chamber to yield a fuel economy increase of approximately 15% compared to a similar conventional engine.

Their unrivaled low noise minimizes the restrictions on place and time of work, as well as alleviating fatigue.

# *iGX 440 Engine*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year Limited  
Warranty

Programmable  
Engine Control  
System



Impressive  
Fuel  
Economy

Low Noise

Improved  
Air Cleaner

Easy  
Starting

Low  
Vibration



## **Higher Volume Air Filter**

New larger capacity air filter element. Air filters will last longer and still provide excellent protection from dirt ingestion.

# *iGX 440 Engine*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year Limited  
Warranty

Programmable  
Engine Control  
System



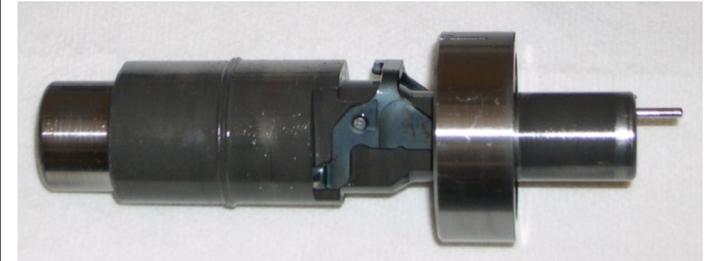
Impressive  
Fuel  
Economy

Low Noise

Improved  
Air Cleaner

Easy  
Starting

Low  
Vibration



## **Fast, easy, reliable starting**

Honda iGX Series engines feature an overhead cam design that smoothes the flow of fuel into the combustion chamber for quick, reliable starts that require no special skills.

The Electronic Control Unit (ECU), controls both the choke and throttle. This combined with an automatic mechanical de-compression and electronic ignition further ensures easy starting.

# *iGX 440 Engine*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year Limited  
Warranty

Programmable  
Engine Control  
System



Impressive  
Fuel  
Economy

Low Noise

Improved  
Air Cleaner

Easy  
Starting

Low  
Vibration



## **Smoother running**

The iGX series engines are manufactured to precise dimension and weight tolerances to assure the smoothest operation possible.

Less vibration means greater longevity out of the engines and less operator fatigue.

# *iGX 440 Engine*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year Limited  
Warranty

Programmable  
Engine Control  
System



Impressive  
Fuel  
Economy

**Low Noise**

Improved  
Air Cleaner

Easy  
Starting

Low  
Vibration



## **Dramatically improved sound quality**

Power equipment users and their neighbors will prefer the quiet operation offered by the iGX Series' built-in timing belt. Valve train and gear noise have also been minimized for a better quality engine sound that is distinctly easier on the ears – a feature sure to be appreciated by users and bystanders alike.

The iGX engines also come with a large multi chamber muffler to keep exhaust noise to a minimum.

# *iGX 440 Engine*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year Limited  
Warranty

Programmable  
Engine Control  
System



Impressive  
Fuel  
Economy

Low Noise

Improved  
Air Cleaner

Easy  
Starting

Low  
Vibration



## **Cutting-edge iGX technology**

This results in lower fuel consumption and lower noise through reduced total engine running time and engine speed that can be lowered based on power demands. Benefiting both the consumer and the environment, iGX technology works in conjunction with the engine's V-type valve layout and sparkplug-center combustion chamber to yield a fuel economy increase of approximately 15% compared to a similar conventional engine

# *iGX 440 Engine*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year Limited  
Warranty

**Programmable  
Engine Control  
System**



Improved  
Air Cleaner

Easy  
Starting

Impressive  
Fuel  
Economy

Low  
Vibration

Low Noise



## **Technologically Advanced**

Central to the iGX concept is an integrated ECU (electronic control unit) with a self-tuning regulator (STR) governor system that allows the engine to communicate with the machine it is powering. As the engine becomes intelligent, operation is automated and control becomes surer, faster and easier.

The ECU enables drive-by-wire remote control operation of the engine, regulating functions such as starting, throttle, ignition timing and diagnostics. Therefore, engine speed can be programmed and varied based on the equipment application's load and speed requirement.

# *iGX 440 Engine*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year Limited  
Warranty



Programmable  
Engine Control  
System

Improved  
Air Cleaner

Easy  
Starting

Impressive  
Fuel  
Economy

Low  
Vibration

Low Noise



## **3-Year Limited Warranty**

You already know that Honda engines are reliable. Now we've put it in writing. All Honda iGX engines come with a 3-year limited warranty.

# *iGX240 - iGX390*

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



High Power Output

50 State Emissions  
Compliant  
With no catalyst

Low  
Vibration

Low Noise

Oil Alert

Easy Starting

There are many reasons to insist on genuine Honda engines. As the world's largest engine manufacturer, Honda offers more engine experience than anyone.

Experience born on racetracks and roadways around the globe. Experience that keeps us on the cutting edge of engine performance technology and can be found on our entire product line. From automobiles, race cars, motorcycles and all-terrain vehicles to marine engines, power equipment products and general-purpose engines, Honda is committed to designing products that meet or exceed the demands of our customers.

Based on the wide variety of products we offer with our Honda engines, we're experts at matching the right engine for the right job and producing engines that will "get the job done" no matter what the application.

Throughout our history, Honda has been dedicated to technological and environmental innovation, and today is no different. After all, we have a legendary reputation to live up to. A reputation for unsurpassed quality, performance and reliability.

A reputation worth considering the next time you're in the market for an engine.

# *iGX240 - iGX390*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability

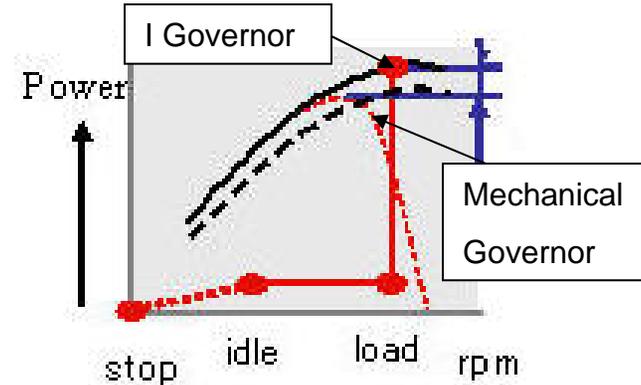


Low  
Vibration

Low Noise

Oil Alert

Easy Starting



## More Power/Same Package

Honda's superior engine design results in increased efficiency and transfer of power to your application.

The electronic governor minimizes governor droop, which increases available power. Applications may see an additional 5% increase in HP over comparable mechanical governor engines. Some applications will see fuel economy benefits due to the Auto Throttle feature.

## Net Power – SAE J1349:

SAE J1349 measures net power with the manufacturer's standard air filter and muffler but without the governor system. It gives a reasonable indication of the power output in the application. The power rating of the engines indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3600 rpm. Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

# *iGX240 - iGX390*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Low  
Vibration

Low Noise

Oil Alert

Easy Starting



## **Cleaner running with No Catalyst**

Honda certifies to all current EPA emission requirements by offering 50-state compliant engines only. The development of one engine for use in all 50 states continues to reflect Honda's forward thinking with regard to emission regulations, air quality and the needs of our customers.

Our advanced engine technology allows Honda to remain compliant for the foreseeable future without the use of a catalytic converter.

Environmental responsibility has been an integral part of our product development philosophy years before emission levels were established. In fact, with minor modifications, the same GX Series engine design introduced in 1983 meets today's EPA emission level standards. Honda's advanced engine technology offers a number of distinct advantages including fuel savings and standardized replacement parts readily available through your local Honda Engines dealer.

# *iGX240 - iGX390*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Low  
Vibration

Low Noise

Oil Alert

Easy Starting



## **Smoother running**

The iGX series engines are manufactured to precise dimension and weight tolerances to assure the smoothest operation possible.

Less vibration means greater longevity out of the engines and less operator fatigue.

# *iGX240 - iGX390*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Low  
Vibration

Low Noise

Oil Alert

Easy Starting



## **Exceptionally Quiet**

The Honda iGX series engines, when equipped with Honda mufflers, come with a large capacity, multi chamber exhaust system to keep engine noise to a minimum.

Reduced mechanical noise through application of light weight, noise-reducing materials.

Forged steel crankshaft and ridged crankcase further reduce engine noise.

In addition to an improved piston design, the iGX engines have an improved camshaft and muffler to reduce overall engine noise by up to 5 dB (A).

# *iGX240 - iGX390*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability

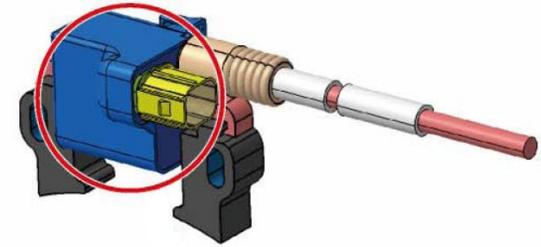


Low  
Vibration

Low Noise

Oil Alert

**Easy Starting**



## **Fast, easy, reliable starting**

Honda iGX Series engines feature an overhead valve design that smoothes the flow of fuel into the combustion chamber for quick, reliable starts that require no special skills.

To improve on Honda's legendary startability, automatic mechanical de-compression, digital CDI ignition system, an auto choke mechanism, a large diameter recoil and electronic governor make these some of the easiest starting Honda's ever. Electric start models are equipped with a Honda automotive shift type solenoid starter motor.

# *iGX240 - iGX390*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability

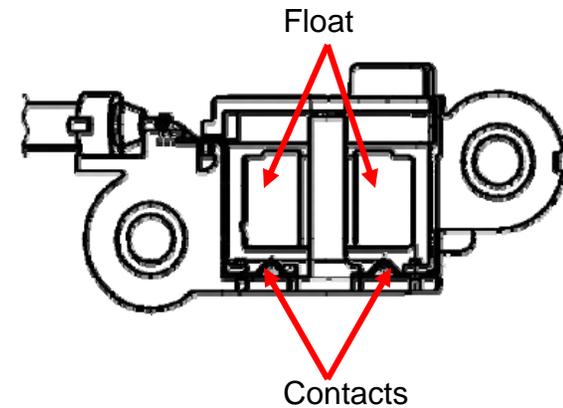


Oil Alert

Easy Starting

Low  
Vibration

Low Noise



## **No More Engine Failures Due to Insufficient Oil**

Honda iGX Series engines can be equipped with an Oil Alert © unit, Honda's system that shuts the engine off when the oil level reaches an unsafe level.

When the oil level in the engine is sufficient, the float remains above the contacts inside the float chamber.

As the oil level drops below the safe limit, the float drops down, grounds the ignition system and stops the engine.

Externally accessible oil alert switch for added convenience.

# *iGX240 - iGX390*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability

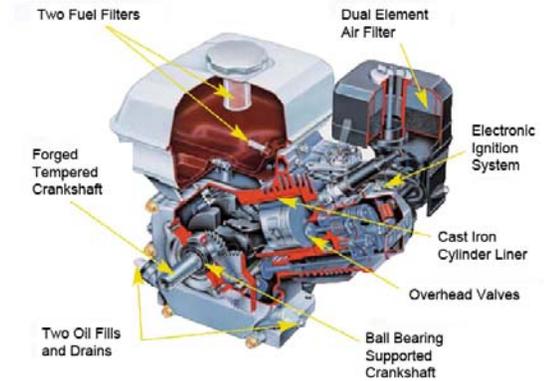


Low  
Vibration

Low Noise

Oil Alert

Easy Starting



**All Honda Engines have reliability  
written all over them.**

Honda Engines have long been recognized as the industry leader in providing reliable, easy-starting and fuel efficient small engines.

The rental industry, where power equipment is subjected to the ultimate test of durability, relies heavily on Honda OHV engines to ensure customer satisfaction and a minimal level of maintenance and repair. When it comes to reliability, trust the engines with the Honda name.

The iGX series engines offer the same proven reliability and are an example of Honda's desire to bring unmatched innovation to the marketplace.

# *iGX240 - iGX390*

High Power Output

50 State Emissions  
Compliant  
With no catalyst

Genuine Honda

3-Year  
Limited  
Warranty

Honda Reliability



Low  
Vibration

Low Noise

Oil Alert

Easy Starting



## **3-Year Limited Warranty**

You already know that Honda engines are reliable. Now we've put it in writing. All Honda iGX engines come with a 3-year limited warranty.

# ***GXV V-Twin Series Engines***

High power output      50 State Emissions  
Compliant With no catalyst      Improved  
air cleaner

## **Genuine Honda**

3-Year limited  
warranty

Integrated  
cylinder and  
head

Lightweight,  
compact design

Cutting-edge  
multi-faceted  
styling



Low  
vibration

Low noise

Impressive  
fuel  
economy

Convenient  
controls

Improved  
lubrication

Improved  
cooling

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A reputation worth considering the next time you're in the market for an engine.

# GXV V-Twin Series Engines

High power output

50 State Emissions  
Compliant With no catalyst

Improved  
air cleaner

Genuine Honda

3-Year limited  
warranty

Integrated  
cylinder and  
head

Lightweight,  
compact design

Cutting-edge  
multi-faceted  
styling

Improved  
lubrication

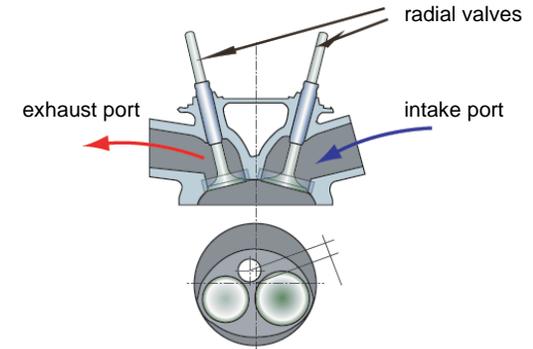
Improved  
cooling

Convenient  
controls

Low  
vibration

Low noise

Impressive  
fuel  
economy



## More Power

Honda's superior engine design results in increased efficiency and transfer of power to your application.

- Hemispherical Combustion Chamber:
  - 9.3:1 compression ratio.
  - Radial valve configuration.
  - Centralized spark plug location.
- Forged steel crankshaft.
  - Contributes to bottom end strength.
  - Supported by an extremely rigid crankcase configuration.
- Pressure fed crankshaft bearings.

## Net Power – SAE J1349:

SAE J1349 measures net power with the manufacturer's standard air filter and muffler but without the governor system. It gives a reasonable indication of the power output in the application. The power rating of the engines indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3600 rpm. Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

# *GXV V-Twin Series Engines*

High power output **50 State Emissions Compliant With no catalyst** Improved air cleaner

Genuine Honda

3-Year limited warranty

Integrated cylinder and head

Lightweight, compact design

Cutting-edge multi-faceted styling

Improved lubrication

Improved cooling

Convenient controls



## **Cleaner Running with No Catalyst**

Honda's V-Twin engines are certified to comply with both CARB (California Air Resources Board) and the EPA (Environmental Protection Agency) emissions regulations.

In fact our new V-Twin engine already meets the 2011 EPA exhaust requirement- with no need for a catalytic converter.

# *GXV V-Twin Series Engines*

High power output  
50 State Emissions  
Compliant With no catalyst

Improved  
air cleaner

Genuine Honda

3-Year limited  
warranty

Integrated  
cylinder and  
head

Lightweight,  
compact design

Cutting-edge  
multi-faceted  
styling

Improved  
lubrication

Improved  
cooling

Low  
vibration

Low noise

Impressive  
fuel  
economy

Convenient  
controls



*Dual cylinder filter*



*Dual panel filter*



*High Density Media*

## **Improved Air Cleaning**

Improved air filter media and carburetor design provide for a greatly increased change interval.

- Up to 5 times longer between filter changes
- Dual cylindrical filter on horizontal engines
- Dual panel type filter on vertical engines
- Matched for Optional Canister Filter

# *GXV V-Twin Series Engines*

High power output      50 State Emissions  
Compliant With no catalyst      Improved  
air cleaner

Genuine Honda

3-Year limited  
warranty

Integrated  
cylinder and  
head

Lightweight,  
compact design

Cutting-edge  
multi-faceted  
styling

Improved  
lubrication

Improved  
cooling

Convenient  
controls

Low  
vibration

Low noise

Impressive  
fuel  
economy



## **Ultra Low Vibration Performance**

Honda's superior V-Twin design uses advanced technology to limit engine vibration for smooth engine performance for operator comfort.

- Forged steel crankshaft and connecting rods
- 90 degree configuration contributes to low vibration and compactness
- Highly ridged crankcase design
- Precision balancing of internal components

# ***GXV V-Twin Series Engines***

High power output      50 State Emissions  
Compliant With no catalyst      Improved  
air cleaner

Genuine Honda

3-Year limited  
warranty

Integrated  
cylinder and  
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Lightweight,  
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lubrication

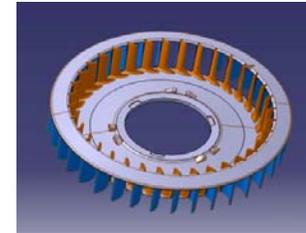
Improved  
cooling

Convenient  
controls

Low  
vibration

**Low noise**

Impressive  
fuel  
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**High efficiency  
cooling fan**



**Insert style rod  
bearings**

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High power output      50 State Emissions  
Compliant With no catalyst      Improved  
air cleaner

Genuine Honda

3-Year limited  
warranty

Integrated  
cylinder and  
head

Lightweight,  
compact design

Cutting-edge  
multi-faceted  
styling

Improved  
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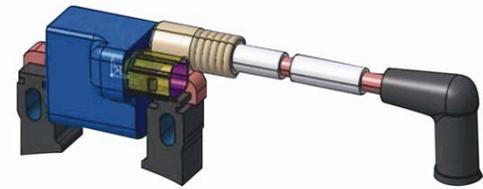
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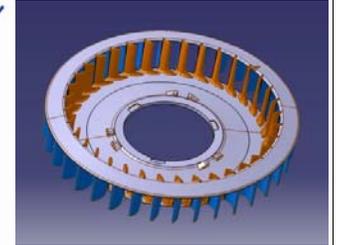
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Smoother air flow



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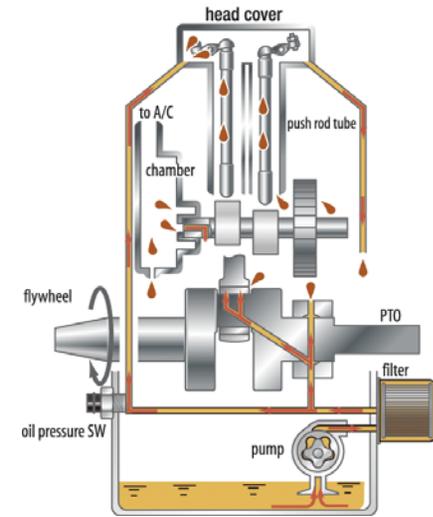
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## **Lightweight, Compact Design**

Our extraordinary technology and design offer an added benefit: Honda V-twins are surprisingly lightweight and compact.

The V-twins' design held closely to the dimensions of the preceding models for manufacturer convenience.

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- Same footprint
- Same PTO height

Surprisingly compact

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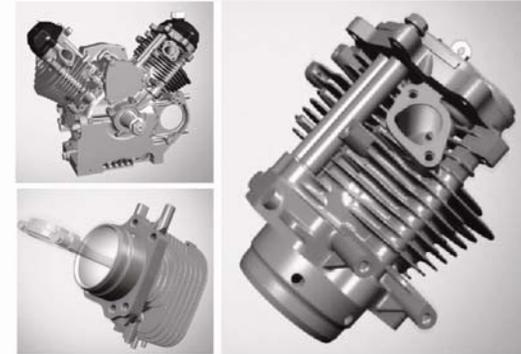
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## **Integrated Cylinder and Head**

An integrated cylinder and head mean better performance.

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- Eliminates the need for cylinder head gaskets and head bolts
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There are many reasons to insist on genuine Honda engines. As the world's largest engine manufacturer, Honda offers more engine experience than anyone.

Experience born on racetracks and roadways around the globe. Experience that keeps us on the cutting edge of engine performance technology and can be found on our entire product line. From automobiles, race cars, motorcycles and all-terrain vehicles to marine engines, power equipment products and general-purpose engines, Honda is committed to designing products that meet or exceed the demands of our customers.

Based on the wide variety of products we offer with our Honda engines, we're experts at matching the right engine for the right job and producing engines that will "get the job done" no matter what the application.

Throughout our history, Honda has been dedicated to technological and environmental innovation, and today is no different. After all, we have a legendary reputation to live up to. A reputation for unsurpassed quality, performance and reliability.

A reputation worth considering the next time you're in the market for an engine.

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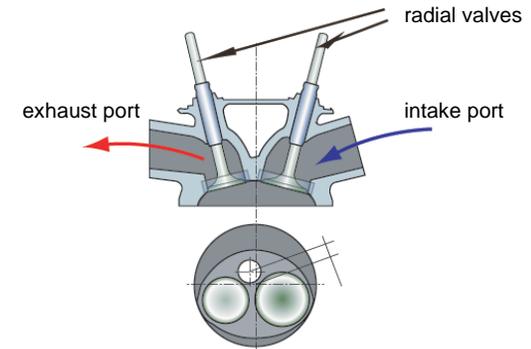
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## More Power

Honda's superior engine design results in increased efficiency and transfer of power to your application.

- Hemispherical Combustion Chamber:
  - 9.3:1 compression ratio.
  - Radial valve configuration.
  - Centralized spark plug location.
- Forged steel crankshaft.
  - Contributes to bottom end strength.
  - Supported by an extremely rigid crankcase configuration.
- Pressure fed crankshaft bearings.

## Net Power – SAE J1349:

SAE J1349 measures net power with the manufacturer's standard air filter and muffler but without the governor system. It gives a reasonable indication of the power output in the application. The power rating of the engines indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3600 rpm. Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

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## **Cleaner Running with No Catalyst**

Honda's V-Twin engines are certified to comply with both CARB (California Air Resources Board) and the EPA (Environmental Protection Agency) emissions regulations.

In fact our new V-Twin engine already meets the 2011 EPA exhaust requirement- with no need for a catalytic converter.

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*Dual cylinder filter*



*Dual panel filter*



*High Density Media*

## **Improved Air Cleaning**

Improved air filter media and carburetor design provide for a greatly increased change interval.

- Up to 5 times longer between filter changes
- Dual cylindrical filter on horizontal engines
- Dual panel type filter on vertical engines
- Matched for Optional Canister Filter

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## **Ultra Low Vibration Performance**

Honda's superior V-Twin design uses advanced technology to limit engine vibration for smooth engine performance for operator comfort.

- Forged steel crankshaft and connecting rods
- 90 degree configuration contributes to low vibration and compactness
- Highly ridged crankcase design
- Precision balancing of internal components

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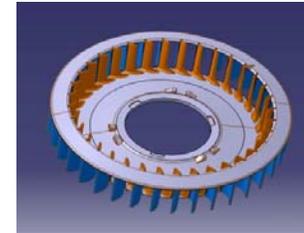
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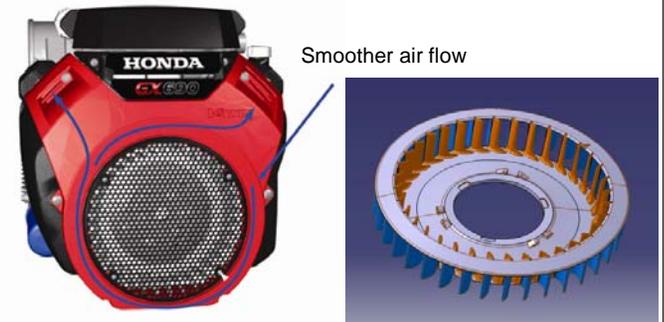


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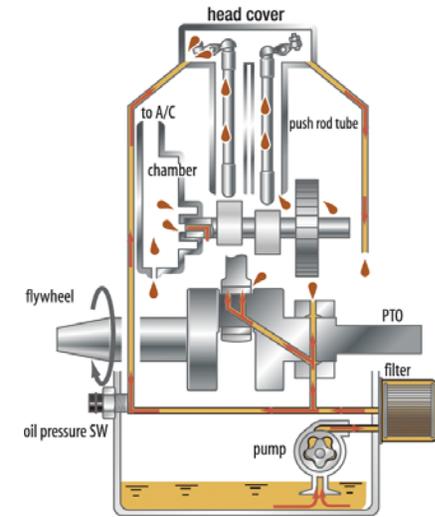
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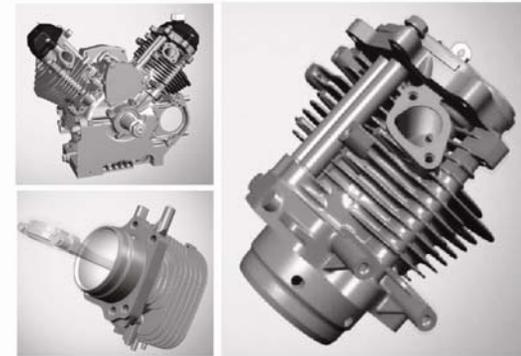
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**HONDA**

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