

INTRODUCTION

Thank you for purchasing a Honda engine! We want to help you to get the best results from your new engine and to operate it safely. This manual contains information on how to do that; please read it carefully before operating the engine. If a problem should arise, or if you have any questions about your engine, consult an authorized Honda servicing dealer.

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This manual should be considered a permanent part of the engine and should remain with the engine if resold.

Review the instructions provided with the equipment powered by this engine for any additional information regarding engine startup, shutdown, operation, adjustments or any special maintenance instructions.

United States, Puerto Rico, and U.S. Virgin Islands:

We suggest you read the warranty policy to fully understand its coverage and your responsibilities of ownership. The warranty policy is a separate document that should have been given to you by your dealer.

SAFETY MESSAGES

Your safety and the safety of others are very important. We have provided important safety messages in this manual and on the engine. Please read these messages carefully.

A safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol 1 and one of three words, DANGER, WARNING, or CAUTION.

These signal words mean:



You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.



You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.



You CAN be HURT if you don't follow

Each message tells you what the hazard is, what can happen, and what you can do to avoid or reduce injury.

DAMAGE PREVENTION MESSAGES

You will also see other important messages that are preceded by the word NOTICE.

NOTICE Your engine, other property, or the environment can be damaged if you do not follow instructions.

This entire book is filled with important safety information – please read

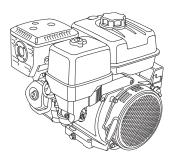
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HONDA

OWNER'S MANUAL MANUEL DE L'UTILISATEUR MANUAL DEL PROPIETARIO

iGX270·iGX390

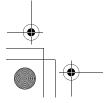


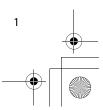
The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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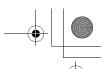
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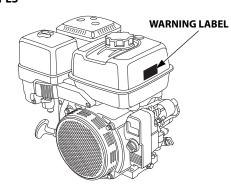
- Understand the operation of all controls and learn how to stop the engine quickly in case of emergency. Make sure the operator receives adequate instruction before operating the equipment.
- Do not allow children to operate the engine. Keep children and pets away from the area of operation.
- Your engine's exhaust contains poisonous carbon monoxide.
 Do not run the engine without adequate ventilation, and never run the engine indoors.
- The engine and exhaust become very hot during operation.
 Keep the engine at least 1 meter (3 feet) away from buildings and other equipment during operation. Keep flammable materials away, and do not place anything on the engine while it is running.

SAFETY LABEL LOCATION

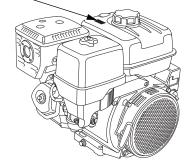
These labels warn you of potential hazards that can cause serious injury. Read them carefully.

If a label comes off or becomes hard to read, contact your servicing dealer for replacement.

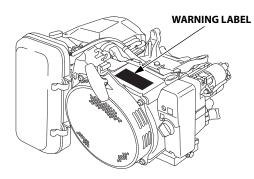
STANDARD TYPES



MUFFLER CAUTION LABEL



LOW PROFILE TYPES



WARNING LABEL (STANDARD TYPES/ LOW PROFILE TYPES*)	For EU	Except EU
	attached to product	supplied with product
Gasoline is highly flammable and explosive. Turn engine off and let cool before refueling. The engine emits toxic carbon monoxide. Do not run in an enclosed area. Read Owner's Manual before operation.	supplied with product	attached to product
L'essence est très inflammable et explosive. Arrêter le moteur et le laisserrefroidir avant de faire le plein d'essence. Le moteur produit les vapeurs nocives de monoxyde de carbone. Ne pas utiliser dans un local enclos. Lire le manuel de propriétaire avant l'utilisation.	supplied with product	supplied with product

MUFFLER CAUTION LABEL (STANDARD TYPES)	For EU	Except EU
	not included	supplied with product
A CAUTION HOT MUFFLER CAN BURN YOU. Stay away if engine has been running.	supplied with product	attached to product
A ATTENTION L'ECHAPPEMENT CHAUD PEUT VOUS BRULER. S'ELOIGNER QUAND LE MOTEUR FONCTIONNE.	supplied with product	supplied with product



Gasoline is highly flammable and explosive. Stop the engine and let cool before refueling.



The engine emits toxic poisonous carbon monoxide gas. Do not run in an enclosed area.

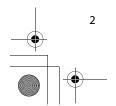


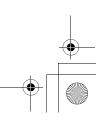
Read Owner's Manual before operation.



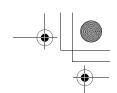
Hot muffler can burn you. Stay away if engine has been running.

*These labels are packed in the box.



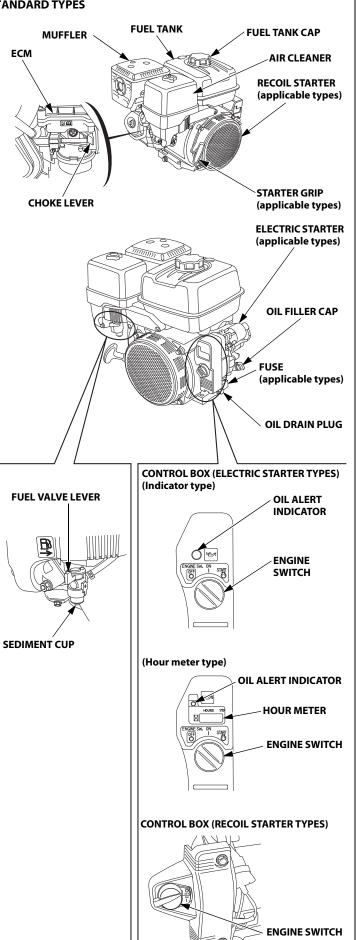




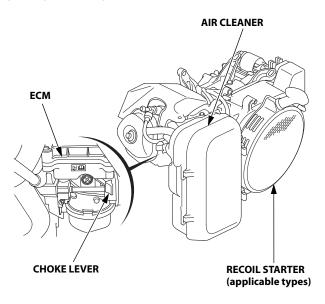


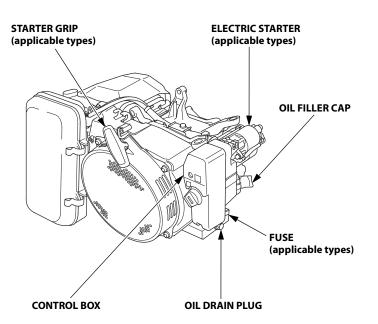
COMPONENT & CONTROL LOCATIONS

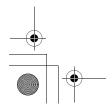
STANDARD TYPES

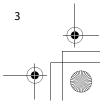


LOW PROFILE TYPES

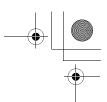












FEATURES

OIL ALERT® SYSTEM

"Oil Alert is a registered trademark in the United States" $\,$

The Oil Alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the Oil Alert system will either shut off the engine or issue a warning.

Refer to the instructions provided by the equipment manufacturer.

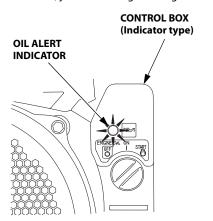
The Oil Alert indicator behavior when a drop in the oil level is detected while the engine is running.

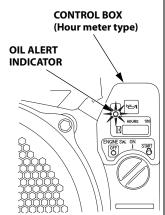
		Oil Alert Indicator			
Control box type	When a drop in the oil level is detected	When the engine automatically shuts down (with the engine switch in the ON position)	When the engine switch is turned to the OFF position		
Indicator type	Blinks	Goes off	Goes off		
Hour meter type	Comes on	Comes on	Goes off		

If the engine stops and/or will not restart, check the oil level (see page 9) before troubleshooting in other areas.

NOTICE

If you continue to operate the engine after the Oil Alert system has been activated, you can damage the engine.



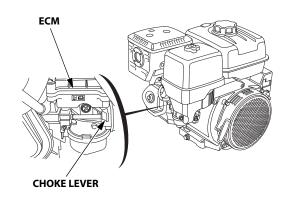


AUTO CHOKE AND THROTTLE CONTROL SYSTEM

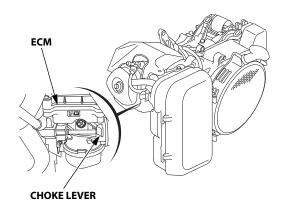
The ECM of this engine controls the choke valve and throttle valve automatically.

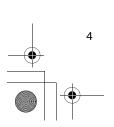
When starting and warming up the engine, you do not need to operate the choke lever unless the engine is hard to start using the normal starting procedure.

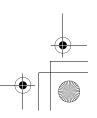
STANDARD TYPES



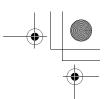
LOW PROFILE TYPES











BEFORE OPERATION CHECKS

IS YOUR ENGINE READY TO GO?

For your safety, to ensure compliance with environmental regulations, and to maximize the service life of your equipment, it is very important to take a few moments before you operate the engine to check its condition. Be sure to take care of any problem you find, or have your servicing dealer correct it, before you operate the engine.

A WARNING

Failure to properly maintain this engine, or failing to correct a problem before operation, could result in a significant malfunction.

Some malfunctions can cause seriously injuries or death.

Always perform a pre-operation inspection before each operation, and correct any problem.

Before beginning your pre-operation checks, be sure the engine is level and the engine switch is in the OFF position.

Always check the following items before you start the engine:

Check the General Condition of the Engine

- Look around and underneath the engine for signs of oil or gasoline leaks.
- Remove any excessive dirt or debris, especially around the muffler and recoil starter.
- 3. Look for signs of damage.
- 4. Check that all shields and covers are in place, and all nuts, bolts, and screws are tightened.

Check the Engine

- 1. Check the fuel level (see page 8). Starting with a full tank will help to eliminate or reduce operating interruptions for refueling.
- 2. Check the engine oil level (see page 9). Running the engine with a low oil level can cause engine damage.

If the oil level in the crankcase falls below a safe limit, the Oil Alert system will either shut off the engine or issue a warning. However, to avoid the inconvenience of an unexpected shutdown, always check the engine oil level before startup.

- 3. Check the air filter element (see page 10). A dirty air filter element will restrict air flow to the carburetor, reducing engine performance.
- 4. Check the equipment powered by this engine.

Review the instructions provided with the equipment powered by this engine for any precautions and procedures that should be followed before engine startup.

OPERATION

SAFE OPERATING PRECAUTIONS

Before operating the engine for the first time, please review the SAFETY INFORMATION section on page 2 and the BEFORE OPERATION CHECKS on this page.

Carbon Monoxide Hazards

For your safety, do not operate the engine in an enclosed area such as a garage. Your engine's exhaust contains poisonous carbon monoxide gas that can collect rapidly in an enclosed area and cause illness or death.

A WARNING

Exhaust contains poisonous carbon monoxide gas that can build up to dangerous levels in closed areas.

Breathing carbon monoxide can cause unconsciousness or death.

Never run the engine in a closed, or even partly closed area.

Review the instructions provided with the equipment powered by this engine for any safety precautions that should be observed with engine startup, shutdown, or operation.

STARTING THE ENGINE

WITH ELECTRIC STARTER:

- Move the fuel valve lever to the ON position.
- 2. Turn the engine switch to the START position, and hold it there until the engine starts.

Some engine applications do not include the engine-mounted control box with engine switch shown here. Refer to the instructions provided by the equipment manufacturer.

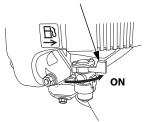
If the engine fails to start within 5 seconds, release the engine switch, and wait at least 10 seconds before operating the starter again.

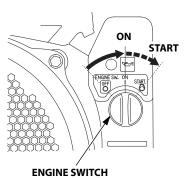
NOTICE

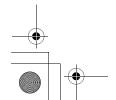
Using the electric starter for more than 5 seconds at a time will overheat the starter motor and can damage it.

When the engine starts, release the engine switch, allowing it to return to the ON position.

FUEL VALVE LEVER







5

ENGLISH



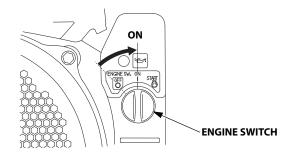
WITH RECOIL STARTER:

1. Move the fuel valve lever to the ON position.

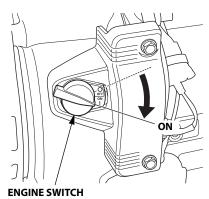
FUEL VALVE LEVER ON

2. Turn the engine switch to the ON position.

ELECTRIC STARTER TYPES

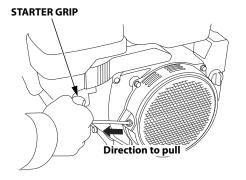


RECOIL STARTER TYPES

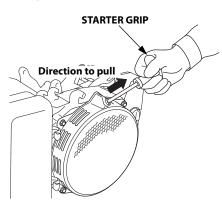


3. Pull the starter grip lightly until you feel resistance, then pull briskly in the direction of the arrow as shown below. Return the starter grip gently.

STANDARD TYPES



LOW PROFILE TYPES



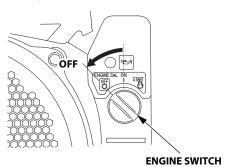
NOTICE

Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

STOPPING THE ENGINE

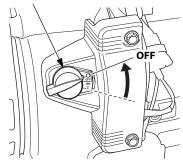
1. Turn the engine switch to the OFF position.

ELECTRIC STARTER TYPES



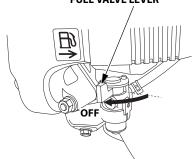
RECOIL STARTER TYPES

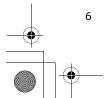
ENGINE SWITCH



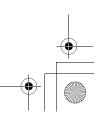
2. Move the fuel valve lever to the OFF position.



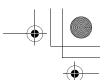




ENGLISH









THE IMPORTANCE OF MAINTENANCE

Good maintenance is essential for safe, economical, and trouble-free operation. It will also help reduce pollution.

A WARNING

Failure to properly maintain this engine, or failing to correct a problem before operation, could result in a significant malfunction.

Some malfunctions can cause seriously injuries or death.

Always follow the inspection and maintenance recommendations and schedules in this owner's manual.

To help you properly care for your engine, the following pages include a maintenance schedule, routine inspection procedures, and simple maintenance procedures using basic hand tools. Other service tasks that are more difficult, or require special tools, are best handled by professionals and are normally performed by a Honda technician or other qualified mechanic.

The maintenance schedule applies to normal operating conditions. If you operate your engine under severe conditions, such as sustained highload or high-temperature operation, or use in unusually wet or dusty conditions, consult your Honda servicing dealer for recommendations applicable to your individual needs and use.

Maintenance, replacement, or repair of the emission control devices and systems may be performed by any engine repair establishment or individual, using parts that are "certified" to EPA standards.

MAINTENANCE SAFETY

Some of the most important safety precautions follow. However, we cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.

A WARNING

Improper maintenance can cause an unsafe condition.

Failure to properly follow maintenance instructions and precautions can cause serious injuries or death.

Always follow the procedures and precautions in this owner's manual.

SAFETY PRECAUTIONS

- Make sure the engine is off before you begin any maintenance or repairs. To prevent unintentional startup, disconnect the spark plug cap. This will eliminate several potential hazards:
 - Carbon monoxide poisoning from engine exhaust.
 Be sure there is adequate ventilation whenever you operate the engine.
 - Burns from hot parts.
 - Let the engine and exhaust system cool before touching.
 - Injury from moving parts.
 - Do not run the engine unless instructed to do so.
- Read the instructions before you begin, and make sure you have the tools and skills required.
- To reduce the possibility of fire or explosion, be careful when working around gasoline. Use only a non-flammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks and flames away from all fuel related parts.

Remember that an authorized Honda servicing dealer knows your engine best and is fully equipped to maintain and repair it.

To ensure the best quality and reliability, use only new Honda Genuine parts or their equivalents for repair and replacement.

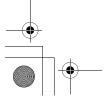
MAINTENANCE SCHEDULE

REGULAR SERVICE PER	RIOD (1)	Each	First	Every 3	Every 6	Every	Refer
Perform at every in month or operating interval, whichever	ng hour	Use	Month or 20 Hrs.	Months or 50 Hrs.	Months or 100 Hrs.	Year or 300 Hrs.	to Page
first.			2011131	30131		50015.	
Engine oil	Check level	0					9
	Change		0		0		9
Air cleaner	Check	0					10
	Clean			o (2)	o (2)		10
	Replace					o **	10
Spark plug	Check-adjust				0		12
	Replace					0	
Spark arrester (applicable types)	Clean				o (4)		12
Idle speed	Check-adjust					o (3)	Shop manua
Valve clearance	Check-adjust					o (3)	Shop manua
Sediment cup	Clean				0		11
Combustion chamber	stion chamber Clean After every 1,000 Hrs. (3)		Shop manua				
Fuel tank & filter	Clean				o (3)		Shop manua
Fuel tube Check Every 2 years (Replace if necessary) (3)			Shop manua				

- ** Replace paper element type only.
- For commercial use, log hours of operation to determine proper maintenance intervals.
- (2) Service more frequently when used in dusty areas.
- (3) These items should be serviced by your servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures.
- (4) In Europe and other countries where the machinery directive 2006/ 42/EC is enforced, this service should be done by your servicing dealer

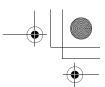
Failure to follow this maintenance schedule could result in non-warrantable failures.













Follow the equipment manufacturers recommendation for refueling.

REFUELING (STANDARD TYPES)

Recommended Fuel

Unleaded gasoline		
	U.S.	Pump octane rating 86 or higher
	Except U.S.	Research octane rating 91 or higher
		Pump octane rating 86 or higher

This engine is certified to operate on unleaded gasoline with a pump octane rating of 86 or higher (a research octane rating of 91 or higher). Refuel in a well ventilated area with the engine stopped. If the engine has been running, allow it to cool first. Never refuel the engine inside a building where gasoline fumes may reach flames or sparks. You may use unleaded gasoline containing no more than 10% ethanol (E10) or 5% methanol by volume. In addition, methanol must contain cosolvents and corrosion inhibitors. Use of fuels with content of ethanol or methanol greater than shown above may cause starting and/or performance problems. It may also damage metal, rubber, and plastic parts of the fuel system. Engine damage or performance problems that result from using a fuel with percentages of ethanol or methanol greater than shown above are not covered under the Warranty.

If your equipment will be used on an infrequent or intermittent basis, please refer to the fuel section of the *STORING YOUR ENGINE* chapter (see page 13) for additional information regarding fuel deterioration.

A WARNING

Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

- Stop the engine and let it cool before handling fuel.
- Keep heat, sparks, and flame away.
- · Handle fuel only outdoors.
- Keep away from your vehicle.
- Wipe up spills immediately.

NOTICE

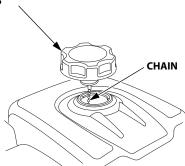
Fuel can damage paint and some types of plastic. Be careful not to spill fuel when filling your fuel tank. Damage caused by spilled fuel is not covered under the Distributor's Limited Warranty.

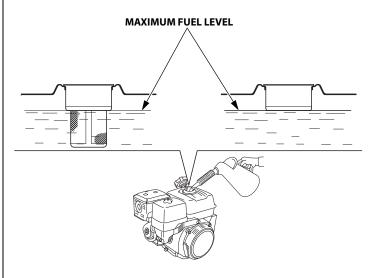
Never use gasoline that is stale, contaminated, or mixed with oil. Avoid getting dirt or water in the fuel tank.

1. With the engine stopped and on a level surface, remove the fuel tank cap and check the fuel level. Refill the tank if the fuel level is low.

Add fuel to the maximum fuel level of the fuel tank. Do not overfill.Wipe up spilled fuel before starting the engine.

FUEL TANK CAP

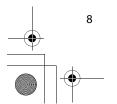


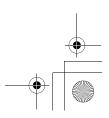


Refuel carefully to avoid spilling fuel. Do not fill the fuel tank completely. It may be necessary to lower the fuel level depending on operating conditions. After refueling, tighten the fuel tank cap back on until it clicks

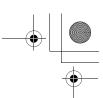
Keep gasoline away from appliance pilot lights, barbecues, electric appliances, power tools, etc.

Spilled fuel is not only a fire hazard, it causes environmental damage. Wipe up spills immediately.







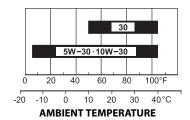


ENGINE OIL

Oil is a major factor affecting performance and service life. Use 4-stroke automotive detergent oil.

Recommended Oil

Use 4-stroke motor oil that meets or exceeds the requirements for API service category SJ or later (or equivalent). Always check the API service label on the oil container to be sure it includes the letters SJ or later (or equivalent).

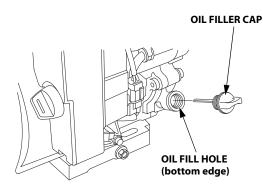


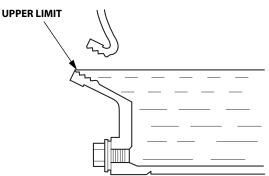
SAE 10W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.

Oil Level Check

Check the engine oil level with the engine stopped and in a level

- 1. Remove the oil filler cap.
- 2. Check the oil level. If it is below the upper limit, fill with the recommended oil to the upper limit.
- 3. Reinstall the oil filler cap securely.





NOTICE

Running the engine with a low oil level can cause engine damage. This type of damage is not covered by the Distributor's Limited Warranty.

The Oil Alert system will stop the engine or issue a warning before the oil level falls below a safe limit. Refer to the instructions provided by the equipment manufacturer.

Oil Change

Drain the used oil when the engine is warm. Warm oil drains quickly and completely.

- 1. Place a suitable container below the engine to catch the used oil, then remove the oil filler cap, oil drain plug and sealing washer.
- Allow the used oil to drain completely, then reinstall the oil drain plug and a new sealing washer, and tighten the oil drain plug

TORQUE: 23 N·m (16 lbf·ft, 2.3 kgf·m)

NOTICE

Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take used oil in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the trash, pour it on the ground, or pour it down a drain.

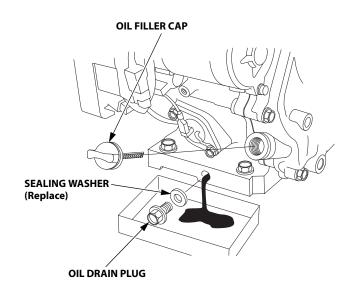
With the engine in a level position, fill with the recommended oil to the upper limit (bottom edge of the oil fill hole).

Engine oil capacity: 1.1 L (1.2 US qt, 1.0 lmp qt)

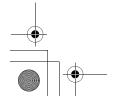
NOTICE

Running the engine with a low oil level can cause engine damage. This type of damage is not covered by the Distributor's Limited Warranty.

4. Reinstall and tighten the oil filler cap.

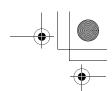


Wash your hands with soap and water after handling used oil.









AIR CLEANER

A dirty air cleaner will restrict air flow to the carburetor, reducing engine performance. If you operate the engine in very dusty areas, clean or replace the air filter more often than specified in the MAINTENANCE SCHEDULE.

NOTICE

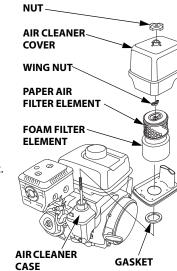
Operating the engine without an air filter, or with a damaged air filter, will allow dirt to enter the engine, causing rapid engine wear. This type of damage is not covered by the Distributor's Limited Warranty.

Inspection (standard types)

Remove the air cleaner cover and inspect the filter elements. Clean or replace dirty filter elements. Always replace damaged filter elements.

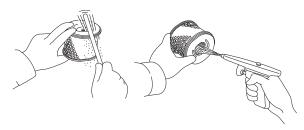
Cleaning (standard types)

- Remove the nut from the air cleaner cover, and remove the cover.
- 2. Remove the wing nut from the air filter, and remove the filter.
- 3. Remove the foam filter element from the paper air filter element.
- Inspect both air filter elements, and replace them if they are damaged. Always replace the paper air filter element at the scheduled interval (see page 7).

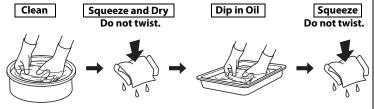


5. Clean the filter elements if they are to be reused.

Paper filter element: Tap the filter element several times on a hard surface to remove dirt, or blow compressed air [not exceeding 207 kPa (2.1 kgf/cm², 30 psi)] through the filter element from the inside. Never try to brush off dirt; brushing will force dirt into the fibers.



Foam filter element: Clean in warm soapy water, rinse, and allow to dry thoroughly. Or clean in non-flammable solvent and allow to dry. Dip the filter element in clean engine oil, and then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the foam.



- 6. Wipe dirt from the inside of the air cleaner case and cover using a moist rag. Be careful to prevent dirt from entering the air duct that leads to the carburetor.
- 7. Place the foam filter element over the paper air filter element, and reinstall the assembled air filter. Be sure the gasket is in place beneath the air filter. Tighten the air filter wing nut securely.
- 8. Install the air cleaner cover, and tighten the nut securely.

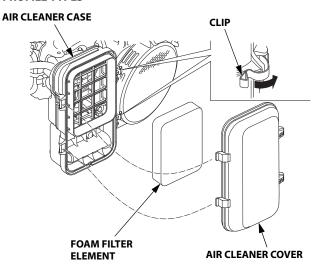
Inspection (low profile types)

Remove the air cleaner cover and inspect the filter element. Visually inspect the filter element. Clean the foam filter element. Always replace damaged filter element.

Cleaning (low profile types)

- 1. Unsnap the air cleaner cover clips and remove the air cleaner cover.
- 2. Remove the foam filter element from the air cleaner case.
- 3. Inspect the foam filter element, and replace it if it is damaged.

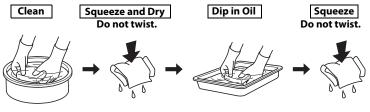
LOW PROFILE TYPES



4. Clean the foam filter element if it is to be reused.

Clean in warm soapy water, rinse, and allow to dry thoroughly. Or clean in non-flammable solvent and allow to dry.

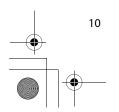
Dip the filter element in clean engine oil, then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the foam.



- Wipe dirt from the inside of the air cleaner case and cover, using a moist rag. Be careful to prevent dirt from entering the air duct that leads to the carburetor.
- 6. Install the foam filter element to the air cleaner case.

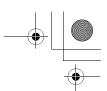
ENGLISH

7. Install the air cleaner cover and snap the air cleaner cover clips.









SEDIMENT CUP

Cleaning

A WARNING

Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

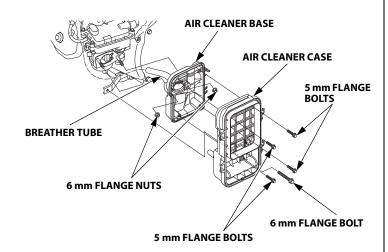
- Stop the engine and let it cool before handling fuel.
- Keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Keep away from your vehicle.
- Wipe up spills immediately.

(LOW PROFILE TYPES)

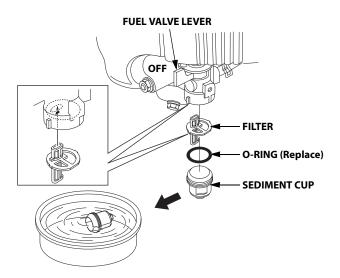
- 1. Unsnap the air cleaner cover clips, remove the air cleaner cover, and remove the foam filter element (see page 10).
- 2. Remove the four 5 mm flange bolts, one 6 mm flange bolt, and air cleaner case.

Remove the two 6 mm flange nuts and pull out the breather tube, then remove the air cleaner base.

LOW PROFILE TYPES



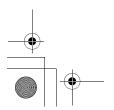
- 3. Move the fuel valve lever to the OFF position.
- 4. Remove the sediment cup, O-ring and filter.
- 5. Wash the sediment cup and filter in non-flammable solvent, and dry it thoroughly.



6. Reinstall the filter, new O-ring, and sediment cup as shown. Tighten the sediment cup securely.

(LOW PROFILE TYPES)

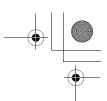
7. Install the air cleaner base, breather tube, air cleaner case, foam filter element, and air cleaner cover in the reverse order of removal.





ENGLISH





SPARK PLUG

Recommended Spark Plugs: BPR6ES (NGK) W20EPR-U (DENSO)

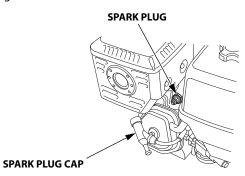
The recommended spark plug has the correct heat range for normal engine operating temperatures.

NOTICE

An incorrect spark plug can cause engine damage.

For good performance, the spark plug must be properly gapped and free of deposits.

1. Disconnect the spark plug cap, and remove any dirt from around the spark plug area.



0.7-0.8 mm

(0.028-0.031 in)

SEALING

WASHER

SPARK PLUG WRENCH

SIDE ELECTRODE

- Remove the spark plug with a 21 mm (13/16-inch) spark plug wrench.
- 3. Inspect the spark plug. Replace it if damaged or badly fouled, if the sealing washer is in poor condition, or if the electrode is worn.
- Measure the spark plug electrode gap with a wire-type feeler gauge. Correct the gap, if necessary, by carefully bending the side electrode. The gap should be: 0.7–0.8 mm (0.028–0.031 in)
- Install the spark plug carefully, by hand, to avoid crossthreading.
- 6. After the spark plug is seated, tighten with a 21 mm (13/16-inch) spark plug wrench to compress the sealing washer.

When installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the sealing washer.

When reinstalling a used spark plug, tighten 1/8–1/4 turn after the spark plug seats to compress the sealing washer.

TORQUE: 18 N·m (13 lbf·ft, 1.8 kgf·m)

NOTICE

A loose spark plug can overheat and damage the engine.

Overtightening the spark plug can damage the threads in the cylinder head.

7. Attach the spark plug cap to the spark plug.

SPARK ARRESTER (applicable types)

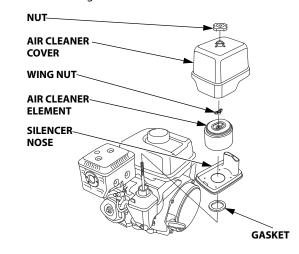
In Europe and other countries where the machinery directive 2006/42/EC is enforced, this cleaning should be done by your servicing dealer.

The spark arrester must be serviced every 6 months or 100 hours to keep it functioning as designed.

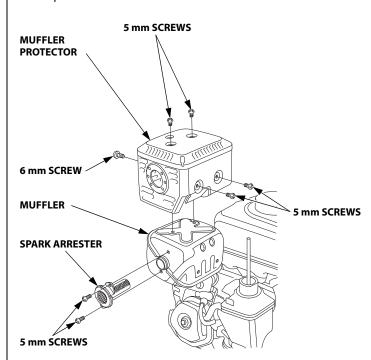
If the engine has been running, the muffler will be hot. Allow it to cool before servicing the spark arrester.

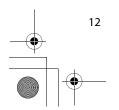
Spark Arrester Removal

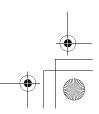
1. Remove the nut, air cleaner cover, wing nut, air cleaner element, silencer nose and gasket.



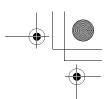
- 2. Remove the four 5 mm screws and one 6 mm screw from the muffler protector, and remove the muffler protector.
- 3. Remove the two 5 mm screws from the spark arrester, and remove the spark arrester from the muffler.











Spark Arrester Cleaning & Inspection

 Use a brush to remove carbon deposits from the spark arrester screen. Be careful not to damage the screen. Replace the spark arrester if it has breaks or holes.



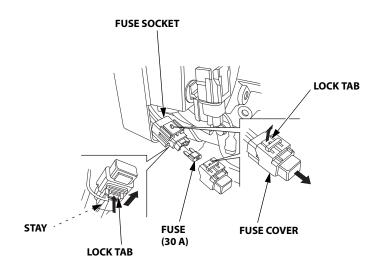
- 2. Install the spark arrester to the muffler.
- 3. Install the muffler protector and air cleaner in the reverse order of disassembly.

FUSE (applicable types)

If the fuse is blown, the battery cannot be charged.

Fuse change

- 1. Remove the fuse socket from the stay pushing down the lock tab.
- 2. Remove the fuse cover pulling up the lock tab, and pull the fuse out.
- 3. Replace the fuse with a fuse of the same type and rating.



NOTICE

Never use a fuse with different rating from that specified. Serious damage to the electrical system or fire may result.

- 4. Install the fuse cover to the fuse socket.
- 5. Install the fuse socket to the stay.

HELPFUL TIPS & SUGGESTIONS

STORING YOUR ENGINE

Storage Preparation

Proper storage preparation is essential for keeping your engine troublefree and looking good. The following steps will help to keep rust and corrosion from impairing your engine's function and appearance, and will make the engine easier to start when you use it again.

Cleaning

If the engine has been running, allow it to cool for at least half an hour before cleaning. Clean all exterior surfaces, touch up any damaged paint, and coat other areas that may rust with a light film of oil.

NOTICE

Using a garden hose or pressure washing equipment can force water into the air cleaner or muffler opening. Water in the air cleaner will soak the air filter, and water that passes through the air filter or muffler can enter the cylinder, causing damage.

Fuel

NOTICE

Depending on the region where you operate your equipment, fuel formulations may deteriorate and oxidize rapidly. Fuel deterioration and oxidation can occur in as little as 30 days and may cause damage to the carburetor and/or fuel system. Please check with your servicing dealer for local storage recommendations.

Gasoline will oxidize and deteriorate in storage. Deteriorated gasoline will cause hard starting, and it leaves gum deposits that clog the fuel system. If the gasoline in your engine deteriorates during storage, you may need to have the carburetor and other fuel system components serviced or replaced.

The length of time that gasoline can be left in your fuel tank and carburetor without causing functional problems will vary with such factors as gasoline blend, your storage temperatures, and whether the fuel tank is partially or completely filled. The air in a partially filled fuel tank promotes fuel deterioration. Very warm storage temperatures accelerate fuel deterioration. Fuel deterioration problems may occur within a few months, or even less if the gasoline was not fresh when you filled the fuel tank.

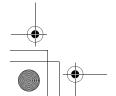
Fuel system damage or engine performance problems resulting from neglected storage preparation are not covered under the *Distributor's Limited Warranty*.

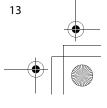
You can extend fuel storage life by adding a gasoline stabilizer that is formulated for that purpose, or you can avoid fuel deterioration problems by draining the fuel tank and carburetor.

Adding a Gasoline Stabilizer to Extend Fuel Storage Life

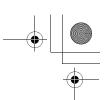
When adding a gasoline stabilizer, fill the fuel tank with fresh gasoline. If only partially filled, air in the tank will promote fuel deterioration during storage. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline.

- 1. Add gasoline stabilizer following the manufacturer's instructions.
- 2. After adding a gasoline stabilizer, run the engine outdoors for 10 minutes to be sure that treated gasoline has replaced the untreated gasoline in the carburetor.
- 3. Stop the engine.









Engine Oil

- 1. Change the engine oil (see page 9).
- 2. Remove the spark plug (see page 12).
- 3. Pour a teaspoon 5–10 cm³ (5–10 cc) of clean engine oil into the cylinder.
- 4. Pull the starter grip several times to distribute the oil in the cylinder.
- 5. Reinstall the spark plug.
- Pull the starter rope slowly until resistance is felt. This will close the valves so moisture cannot enter the engine cylinder. Return the starter rope gently.

Draining the Carburetor

A WARNING

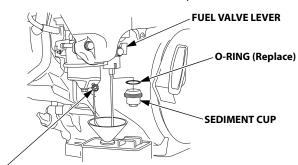
Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

- Stop the engine and let it cool before handling fuel.
- · Keep heat, sparks, and flame away.
- · Handle fuel only outdoors.
- · Keep away from your vehicle.
- Wipe up spills immediately.

(LOW PROFILE TYPES)

- 1. Unsnap the air cleaner cover clips, remove the air cleaner cover, and remove the foam filter element (see page 10).
- 2. Remove the air cleaner case and pull out the breather tube, then remove the air cleaner base (see page 11).
- 3. Move the fuel valve lever to the OFF position.
- 4. Place an approved gasoline container below the carburetor, and use a funnel to avoid spilling fuel.
- 5. Loosen the carburetor drain bolt. Remove the sediment cup and Oring, then move the fuel valve lever to the ON position.



CARBURETOR DRAIN BOLT

6. After all the fuel has drained into the container, reinstall the sediment cup and a new O-ring. Tighten the carburetor drain bolt and sediment cup securely.

(LOW PROFILE TYPES)

7. Install the air cleaner base, breather tube, air cleaner case, foam filter element, and air cleaner cover in the reverse order of removal.

Storage Precautions

If your engine will be stored with gasoline in the fuel tank and carburetor, it is important to reduce the hazard of gasoline vapor ignition. Select a well ventilated storage area away from any appliance that operates with a flame, such as a furnace, water heater, or clothes dryer. Also avoid any area with a spark-producing electric motor, or where power tools are operated.

If possible, avoid storage areas with high humidity, because that promotes rust and corrosion.

Keep the engine level in storage. Tilting can cause fuel or oil leakage.

With the engine and exhaust system cool, cover the engine to keep out dust. A hot engine and exhaust system can ignite or melt some materials. Do not use a plastic sheet as a dust cover.

A nonporous cover will trap moisture around the engine, promoting rust and corrosion.

If equipped with a battery for electric starter types, recharge the battery once a month while the engine is in storage.

This will help to extend the service life of the battery.

Removal from Storage

Check your engine as described in the BEFORE OPERATION CHECKS section of this manual (see page 5).

If the fuel was drained during storage preparation, fill the tank with fresh gasoline. If you keep a container of gasoline for refueling, be sure it contains only fresh gasoline. Gasoline oxidizes and deteriorates over time, causing hard starting.

If the cylinder was coated with oil during storage preparation, the engine will smoke briefly at startup. This is normal.

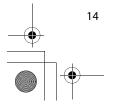
TRANSPORTING

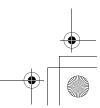
If the engine has been running, allow it to cool for at least 15 minutes before loading the engine-powered equipment on the transport vehicle. A hot engine and exhaust system can burn you and can ignite some

Turn the fuel valve lever to the OFF position.

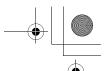
Keep the engine level when transporting to reduce the possibility of fuel leakage.













TAKING CARE OF UNEXPECTED PROBLEMS

CONTROL BOX (Indicator type) CONTROL BOX (Hour meter type) OIL ALERT INDICATOR OIL ALERT -INDICATOR $\boxtimes ($

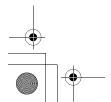
To perform the oil alert indicator check, the engine must be connected to a battery and the engine switch must be in the ON position.

ENGINE WILL NOT START

Possible Cause	Correction
Fuse burnt out.	Replace fuse (p. 13). After replacing fuse, turn the engine switch to the ON position once again.
Fuel, engine oil, spark plug, etc.	Check the BEFORE OPERATION CHECKS (p. 5).
Engine oil level low.	Fill with the recommended oil to the proper level (p. 9).
ECM, sensors, etc.	Take engine to your servicing dealer, or refer to shop manual.
Battery discharged.	Recharge battery.
Choke closed.	Move choke lever to OPEN position unless the engine is warm.
Engine switch OFF.	Turn engine switch to ON position.
Out of fuel.	Refuel (p. 8).
Bad fuel; engine stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank and carburetor (p. 14). Refuel with fresh gasoline (p. 8).
Spark plug faulty, fouled, or improperly gapped.	Gap or replace spark plug (p. 12).
Spark plug wet with fuel (flooded engine).	Dry and reinstall spark plug.
Fuel filter restricted, carburetor malfunction, ignition malfunction, valves stuck, etc.	Take engine to your servicing dealer, or refer to shop manual.

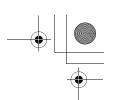
ENGINE LACKS POWER

Possible Cause	Correction
Filter element(s) restricted.	Clean or replace filter element(s) (p. 10).
Bad fuel; engine stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank and carburetor (p. 14). Refuel with fresh gasoline (p. 8).
Fuel filter restricted, carburetor malfunction, ignition malfunction, valves stuck, etc.	Take engine to your servicing dealer, or refer to shop manual.







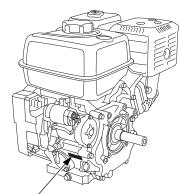


TECHNICAL INFORMATION

SERIAL NUMBER LOCATION

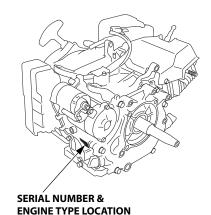
Record the engine serial number, engine type, and date of purchase in the spaces below. You will need this information when ordering parts and when making technical or warranty inquiries.

STANDARD TYPES



SERIAL NUMBER & ENGINE TYPE LOCATION

LOW PROFILE TYPES



Engine serial number:
Engine type:
Date Purchased://

BATTERY CONNECTIONS FOR ELECTRIC STARTER (applicable types)

Recommended Battery

iGX270/iGX390	12 V-24 Ah

Be careful not to connect the battery in reverse polarity, as this will short circuit the battery charging system. Always connect the positive (+) battery cable to the battery terminal before connecting the negative (–) battery cable, so your tools cannot cause a short circuit if they touch a grounded part while tightening the positive (+) battery cable end.

A WARNING

A battery can explode if you do not follow the correct procedure, seriously injuring anyone nearby.

Keep all sparks, open flames, and smoking materials away from the battery.

A WARNING

The battery contains sulfuric acid (electrolyte), which is highly corrosive and poisonous.

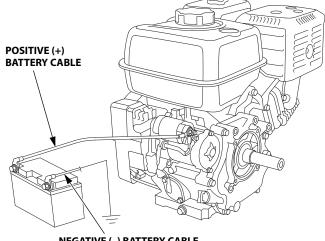
Getting electrolyte in your eyes or on your skin can cause serious burns.

Wear protective clothing and eye protection when working near the battery.

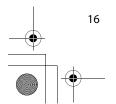
KEEP CHILDREN AWAY FROM THE BATTERY.

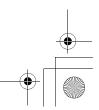
WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds. Wash your hands after handling.

- 1. Connect the positive (+) battery cable to the starter solenoid terminal
- 2. Connect the negative (-) battery cable to an engine mounting bolt, frame bolt, or other good engine ground connection.
- Connect the positive (+) battery cable to the battery positive (+) terminal as shown.
- Connect the negative (–) battery cable to the battery negative (–) terminal as shown.
- 5. Coat the terminals and cable ends with grease.

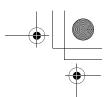


NEGATIVE (-) BATTERY CABLE









CARBURETOR MODIFICATIONS FOR HIGH ALTITUDE OPERATION

At high altitude, the standard carburetor air-fuel mixture will be too rich. Performance will decrease, and fuel consumption will increase. A very rich mixture will also foul the spark plug and cause hard starting. Operation at an altitude that differs from that at which this engine was certified, for extended periods of time, may increase emissions.

High altitude performance can be improved by specific modifications to the carburetor. If you always operate your engine at altitudes above 610 meters (2,000 feet), have your servicing dealer perform this carburetor modification. This engine, when operated at high altitude with the carburetor modifications for high altitude use, will meet each emission standard throughout its useful life.

Even with carburetor modification, engine horsepower will decrease about 3.5% for each 300 meter (1,000 foot) increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

NOTICE

When the carburetor has been modified for high altitude operation, the airfuel mixture will be too lean for low altitude use. Operation at altitudes below 610 meters (2,000 feet) with a modified carburetor may cause the engine to overheat and result in serious engine damage. For use at low altitudes, have your servicing dealer return the carburetor to original factory specifications.

Emission Control System Information

Emission Control System Warranty

Your new Honda complies with both the U.S. EPA and State of California emission regulations. American Honda provides the same emission warranty coverage for Honda Power Equipment engines sold in all 50 states. In all areas of the United States, your Honda Power Equipment engine is designed, built, and equipped to meet the U.S. EPA and California Air Resources Board emission standard for spark ignited engines.

Warranty Coverage

Honda Power Equipment engines certified to CARB and EPA regulations are covered by this warranty to be free from defects in materials and workmanship that may keep it from meeting the applicable EPA and CARB emissions requirements for a minimum of 2 years or the length of the Honda Power Equipment Distributor's Limited Warranty, whichever is longer, from the original date of delivery to the retail purchaser. This warranty is transferable to each subsequent purchaser for the duration of the warranty period. Warranty repairs will be made without charge for diagnosis, parts, and labor. Information about how to make a warranty claim, as well as a description of how a claim can be made and/or how service can be provided, can be obtained by contacting an authorized Honda Power Equipment dealer or by contacting American Honda at the following:

 $Email: \underline{power equipment emissions@ahm.honda.com}$

Telephone: (888) 888-3139

The covered components include all components whose failure would increase an engine's emissions of any regulated pollutant or evaporative emissions. A list of specific components can be found in the separately included emissions warranty statement.

Specific warranty terms, coverage, limitations and manner of seeking warranty service are also set forth in the separately included emissions warranty statement. In addition, the emissions warranty statement can also be found on the Honda Power equipment website or at the following link:

http://powerequipment.honda.com/support/warranty

Source of Emissions

The combustion process produces carbon monoxide, oxides of nitrogen, and hydrocarbons. Control of hydrocarbons and oxides of nitrogen are very important because, under certain conditions, they react to form photochemical smog when subjected to sunlight. Carbon monoxide does not react in the same way, but it is toxic.

Honda utilizes appropriate air/fuel ratios and other emissions control systems to reduce the emissions of carbon monoxide, oxides of nitrogen, and hydrocarbons.

Additionally, Honda fuel systems utilize components and control technologies to reduce evaporative emissions.

The U.S. and California Clean Air Acts, and Canadian Environmental Protection Act

U.S. EPA, California, and regulations require all manufacturers to furnish written instructions describing the operation and maintenance of emission control systems.

The following instructions and procedures must be followed in order to keep the emissions from your Honda engine within the emission standards.

Tampering and Altering

NOTICE

Tampering is a violation of federal and California law.

Tampering with or altering the emission control system may increase emissions beyond the legal limit. Among those acts that constitute tampering are:

- Removal or alteration of any part of the intake, fuel, or exhaust systems.
- Áltering or defeating the governor linkage or speed-adjusting mechanism to cause the engine to operate outside its design parameters.

Problems That May Affect Emissions

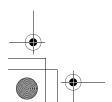
If you are aware of any of the following symptoms, have your engine inspected and repaired by your servicing dealer.

- Hard starting or stalling after starting.
- Rough idle.
- Misfiring or backfiring under load.
- Afterburning (backfiring).
- Black exhaust smoke or high fuel consumption.

Replacement Parts

The emissions control systems on your new Honda engine were designed, built, and certified to conform with U.S. EPA, California, and emissions regulations. We recommend the use of Honda Genuine parts whenever you have maintenance done. These original-design replacement parts are manufactured to the same standards as the original parts, so you can be confident of their performance. Honda cannot deny coverage under the emission warranty solely for the use of non-Honda replacement parts or service performed at a location other than an authorized Honda dealership; you may use comparable EPA certified parts, and have service performed at non-Honda locations. However, the use of replacement parts that are not of the original design and quality may impair the effectiveness of your emissions control system.

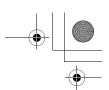
A manufacturer of an aftermarket part assumes the responsibility that the part will not adversely affect emissions performance. The manufacturer or rebuilder of the part must certify that use of the part will not result in a failure of the engine to comply with emissions regulations.













As the power equipment engine owner, you are responsible for completing all required maintenance listed in your owner's manual. Honda recommends that you retain all receipts covering maintenance on your power equipment engine, but Honda cannot deny warranty coverage solely for the lack of receipts or for your failure to ensure that all scheduled maintenance has been completed.

Follow the MAINTENANCE SCHEDULE on page 7.

Remember that this schedule is based on the assumption that your engine will be used for its designed purpose. Sustained high-load or high-temperature operation, or use in dusty conditions, will require more frequent service.

AIR INDEX

An Air Index Information label is applied to engines certified to an emission durability time period in accordance with the requirements of the California Air Resources Board.

The bar graph is intended to provide you, our customer, the ability to compare the emissions performance of available engines. The lower the Air Index, the less pollution.

The durability description is intended to provide you with information relating to the engine's emission durability period.

The descriptive term indicates the useful life period for the engine's emission control system. See your *Emission Control System Warranty* for additional information

Descriptive Term	Applicable to Emissions Durability Period
Moderate	50 hours (0–80 cc, inclusive)
	125 hours (greater than 80 cc)
Intermediate	125 hours (0–80 cc, inclusive)
	250 hours (greater than 80 cc)
Extended	300 hours (0–80 cc, inclusive)
	500 hours (greater than 80 cc)
	1.000 hours (225 cc and greater)

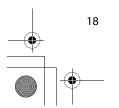
SPECIFICATIONS (STANDARD TYPES)

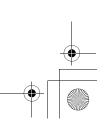
iGX270 (PTO shaft type S with fuel tank)

Length×Width×Height	358×462×422 mm (14.1×18.2×16.6 in)	
Dry mass [weight]	30.3 kg (66.8 lbs)	
Engine type	4-stroke, overhead valve, single cylinder	
Displacement	270 cm ³ (16.5 cu-in)	
[Bore×Stroke]	[77.0×58.0 mm (3.03×2.28 in)]	
Net power	6.3 kW (8.6 PS, 8.4 bhp)	
(in accordance with SAE J1349*)	at 3,600 min ⁻¹ (rpm)	
Max. Net torque	19.1 N·m (1.98 kgf·m, 14.1 lbf·ft)	
(in accordance with SAE J1349*)	at 2,500 min ⁻¹ (rpm)	
Engine oil capacity	1.1 L (1.2 US qt, 1.0 lmp qt)	
Fuel tank capacity	5.3 L (1.40 US gal, 1.17 lmp gal)	
Cooling system	Forced air	
Ignition system	CDI type magneto ignition	
PTO shaft rotation	Counterclockwise	

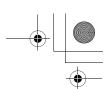
iGX390 (PTO shaft type S with fuel tank)

ida 590 (PTO shart type 5 with fuel tank)					
383×484×448 mm (15.1×19.1×17.6 in)					
36.4 kg (80.2 lbs)					
4-stroke, overhead valve, single cylinder					
389 cm ³ (23.7 cu-in)					
[88.0×64.0 mm (3.46×2.52 in)]					
8.7 kW (11.8 PS, 11.7 bhp)					
at 3,600 min ⁻¹ (rpm)					
26.5 N·m (2.7 kgf·m, 19.5 lbf·ft)					
at 2,500 min ⁻¹ (rpm)					
1.1 L (1.2 US qt, 1.0 lmp qt)					
6.1 L (1.61 US gal, 1.34 lmp gal)					
Forced air					
CDI type magneto ignition					
Counterclockwise					









SPECIFICATIONS (LOW PROFILE TYPES)

iGX270 (PTO shaft type S)

iGX270 (PTO shaft type S)				
Length×Width×Height	384×468×303 mm (15.1×18.4×11.9 in)			
Dry mass [weight]	26.2 kg (57.8 lbs)			
Engine type	4-stroke, overhead valve, single cylinder			
Displacement [Bore×Stroke]	270 cm ³ (16.5 cu-in) [77.0×58.0 mm (3.03×2.28 in)]			
Net power (in accordance with SAE J1349*)	6.3 kW (8.6 PS, 8.4 bhp) at 3,600 min ⁻¹ (rpm)			
Max. Net torque (in accordance with SAE J1349*)	19.1 N·m (1.98 kgf·m, 14.1 lbf·ft) at 2,500 min ⁻¹ (rpm)			
Engine oil capacity	1.1 L (1.2 US qt, 1.0 lmp qt)			
Cooling system	Forced air			
Ignition system	CDI type magneto ignition			
PTO shaft rotation	Counterclockwise			

iGX390 (PTO shaft type S)

idx330 (File silait type 3)				
Length×Width×Height	395×484×313 mm (15.6×19.1×12.3 in)			
Dry mass [weight]	31.4 kg (69.2 lbs)			
Engine type	4-stroke, overhead valve, single cylinder			
Displacement [Bore×Stroke]	389 cm ³ (23.7 cu-in) [88.0×64.0 mm (3.46×2.52 in)]			
Net power (in accordance with SAE J1349*)	8.7 kW (11.8 PS, 11.7 bhp) at 3,600 min ⁻¹ (rpm)			
Max. Net torque (in accordance with SAE J1349*)	26.5 N·m (2.7 kgf·m, 19.5 lbf·ft) at 2,500 min ⁻¹ (rpm)			
Engine oil capacity	1.1 L (1.2 US qt, 1.0 lmp qt)			
Cooling system	Forced air			
Ignition system	CDI type magneto ignition			
PTO shaft rotation	Counterclockwise			

* The power rating of the engine 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 3,600 min⁻¹ (rpm) (Net Power) and at 2,500 min⁻¹ (rpm) (Max. Net Torque). 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.

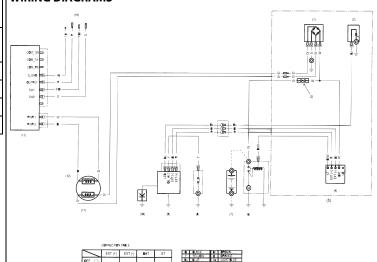
TUNEUP SPECIFICATIONS (iGX270/iGX390)

ITEM	SPECIFICATION	MAINTENANCE	
Spark plug gap	0.7–0.8 mm (0.028–0.031 in)	Refer to page: 12	
Valve clearance (cold)	IN: 0.15±0.02 mm EX: 0.20±0.02 mm	See your dealer.	
Other specifications	No other adjustme	ents needed.	

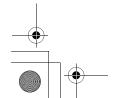
QUICK REFERENCE INFORMATION (iGX270/iGX390)

Ш	QUICK REFERENCE INFORMATION (IGX2/0/IGX390)					
	Fuel	Unleaded gasoline (Refer to page 8)				
۰			U.S.	Pump octane rating 86 or higher		
		Except	Research octane rating 91 or higher			
			U.S.	Pump octane rating 86 or higher		
	Engine oil	SAE 10W-30, API SJ or later, for general use. Refer to page 9.				
	Spark plug	BPR6ES (NGK) W20EPR-U (DENSO)				
	Maintenance	Before each use: • Check engine oil level. Refer to page 9. • Check air filter. Refer to page 10.				
		First 20 hours: Change engi		s: ngine oil. Refer to page 9.		
		Subsequent: Refer to the maintenance schedule on page 7.				

WIRING DIAGRAMS

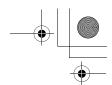


- (1) RECTIFIER
- (2) INDICATOR
- (3) FUSE
- (4) ENGINE SWITCH
- (5) CONTROL BOX
- (6) STARTER MOTOR
- (7) BATTERY
- (8) OIL LEVEL SWITCH
- (9) IGNITION COIL
- (10) SPARK PLUG
- (11) CHARGING COIL
- (12) POWER COIL
- (13) ECM
- (14) To INTERFACE



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CONSUMER INFORMATION

WARRANTY AND DISTRIBUTOR/DEALER LOCATOR INFORMATION

United States, Puerto Rico, and U.S. Virgin Islands:

Visit our website: www.honda-engines.com

Canada

Call (888) 9HONDA9 or visit our website: www.honda.ca

For European Area:

Visit our website: http://www.honda-engines-eu.com

Australia:

Call (03) 9270 1348

or visit our website: www.hondampe.com.au

CUSTOMER SERVICE INFORMATION

Servicing dealership personnel are trained professionals. They should be able to answer any question you may have. If you encounter a problem that your dealer does not solve to your satisfaction, please discuss it with the dealership's management. The Service Manager, General Manager, or Owner can help.

Almost all problems are solved in this way.

United States, Puerto Rico, and U.S. Virgin Islands:

If you are dissatisfied with the decision made by the dealership's management, contact the Honda Regional Engine Distributor for your area.

If you are still dissatisfied after speaking with the Regional Engine Distributor, you may contact the Honda Office as shown.

All Other Areas:

If you are dissatisfied with the decision made by the dealership's management, contact the Honda Office as shown.

《Honda's Office》

When you write or call, please provide this information:

- Equipment manufacturer's name and model number that the engine is mounted on
- Engine model, serial number, and type (see page 16)
- Name of dealer who sold the engine to you
- Name, address, and contact person of the dealer who services your engine
- Date of purchase
- Your name, address and telephone number
- A detailed description of the problem

United States, Puerto Rico, and U.S. Virgin Islands:

American Honda Motor Co., Inc.

Power Equipment Division Customer Relations Office 4900 Marconi Drive Alpharetta, GA 30005-8847

Or telephone: (770) 497-6400 (888) 888-3139 Toll free M-F 8:30am - 7:00pm ET

Canada:

Honda Canada, Inc.

Please visit www.honda.ca for address information

Telephone: (888) 9HONDA9 Toll free (888) 946-6329

Facsimile: (877) 939-0909 Toll free

Australia:

Honda Australia Motorcycle and Power Equipment Pty. Ltd.

1954–1956 Hume Highway Campbellfield Victoria 3061

Telephone: (03) 9270 1111 Facsimile: (03) 9270 1133

For European Area:

Honda Motor Europe Logistics NV.

European Engine Center

http://www.honda-engines-eu.com

All Other Areas:

Please contact the Honda distributor in your area for assistance.

HONDA

