

**HONDA**

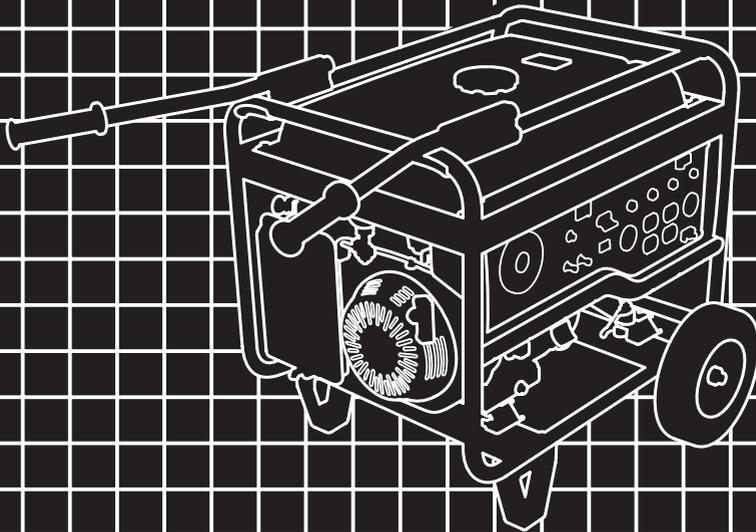
**Power**

**Equipment**

Owner's Manual

**GENERATOR**

**EM3800SX•EM5000SX•EM6500SX**





## **WARNING:**



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

### **▲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 generator in a closed, or even partly closed area where people may be present.**

### **▲WARNING**

**The generator is a potential source of electrical shock if misused. Do not expose the generator to moisture, rain or snow. Do not let the generator get wet, and do not operate it with wet hands.**

Keep this owner's manual handy so that you can refer to it at any time. This owner's manual is considered a permanent part of the generator and should remain with the generator if resold.

The information and specifications included in this publication were in effect at the time of approval for printing. Honda Motor Co., Ltd. reserves the right, however, to discontinue or change specifications or design at any time without notice and without incurring any obligation whatever. No part of this publication may be reproduced without written permission.

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Congratulations on your selection of a Honda generator. We are certain you will be pleased with your purchase of one of the finest generators on the market.

We want to help you get the best results from your new generator and to operate it safely. This manual contains the information on how to do that; please read it carefully.

As you read this manual, you will find information preceded by a **NOTICE** symbol. That information is intended to help you avoid damage to your generator, other property, or the environment.

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.

When your generator needs scheduled maintenance, keep in mind that your Honda servicing dealer is specially trained in servicing Honda generators. Your authorized Honda servicing dealer is dedicated to your satisfaction and will be pleased to answer your questions and concerns.

Best Wishes,  
Honda Motor Co., Ltd.

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## A FEW WORDS ABOUT SAFETY

Your safety and the safety of others are very important. And using this generator safely is an important responsibility.

To help you make informed decisions about safety, we have provided operating procedures and other information on labels and in this manual. This information alerts you to potential hazards that could hurt you or others.

Of course, it is not practical or possible to warn you about all the hazards associated with operating or maintaining a generator. You must use your own good judgement.

You will find important safety information in a variety of forms, including:

- **Safety Labels** – on the generator.
- **Safety Messages** – preceded by a safety alert symbol  and one of three signal words, DANGER, WARNING, or CAUTION.

These signal words mean:

 **DANGER**

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

 **WARNING**

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

 **CAUTION**

You **CAN** be **HURT** if you don't follow instructions.

- **Safety Headings** – such as *IMPORTANT SAFETY INFORMATION*.
- **Safety Section** – such as *GENERATOR SAFETY*.
- **Instructions** – how to use this generator correctly and safely.

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

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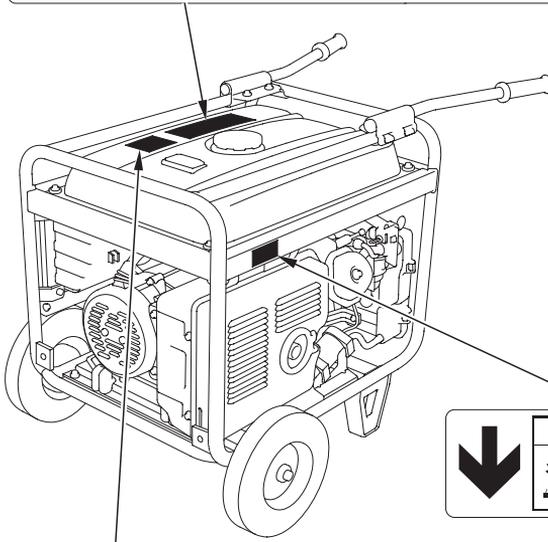
# GENERATOR SAFETY

## SAFETY LABEL LOCATIONS

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 Honda generator dealer for a replacement.

<b>⚠ WARNING</b>	<b>⚠ WARNING</b>
 <p>Gasoline is highly flammable and explosive. You could be burned or seriously injured if the gasoline is ignited.</p> <ul style="list-style-type: none"> <li>■ Before refueling, stop the engine and keep heat, sparks, and flame away.</li> <li>■ Handle fuel only outdoors.</li> <li>■ Do not fill the fuel tank above the upper limit line.</li> <li>■ Wipe up spills immediately.</li> </ul>	 <p>Improper connections to a building can allow electrical current to backfeed into utility lines, creating an electrocution hazard.</p> <ul style="list-style-type: none"> <li>■ Connections to a building must isolate generator power from utility power and comply with all applicable laws and electrical codes.</li> </ul>
 <p>Exhaust contains poisonous carbon monoxide gas that can build up to dangerous levels in closed areas. Breathing carbon monoxide can cause unconsciousness or death.</p> <ul style="list-style-type: none"> <li>■ Never run the generator in a closed, or even partly closed area where people may be present.</li> </ul>	 <p>The generator is a potential source of electrical shock if not kept dry.</p> <ul style="list-style-type: none"> <li>■ Do not expose the generator to moisture, rain or snow.</li> <li>■ Do not operate the generator with wet hands.</li> </ul>
	 <p>Read owner's manual carefully before operation.</p>



<b>⚠ CAUTION</b>
  <p>A hot exhaust system can cause serious burns.</p> <ul style="list-style-type: none"> <li>■ Avoid contact if the engine has been running.</li> </ul>

<b>⚠ DANGER</b>	
<p>Using a generator indoors CAN KILL YOU IN MINUTES.</p> <p>Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.</p>	
  <p>NEVER use inside a home or garage, EVEN IF doors and windows are open.</p>	  <p>Only use OUTSIDE and far away from windows, doors, and vents.</p>

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## **IMPORTANT SAFETY INFORMATION**

Honda generators are designed to give safe and dependable service if operated according to instructions. Read and understand this owner's manual before operating your generator. You can help prevent accidents by being familiar with your generator's controls, and by observing safe operating procedures.

### **Operator Responsibility**

- Know how to stop the generator quickly in case of emergency.
- Understand the use of all generator controls, output receptacles, and connections.
- Be sure that anyone who operates the generator receives proper instruction. Do not let children operate the generator without parental supervision.

### **Carbon Monoxide Hazards**

- Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing carbon monoxide can cause loss of consciousness and may lead to death.
- If you run the generator in a confined or even partly enclosed area, the air you breathe could contain dangerous amount of exhaust gas.
- Never run your generator inside a garage, house, or near open windows or doors.

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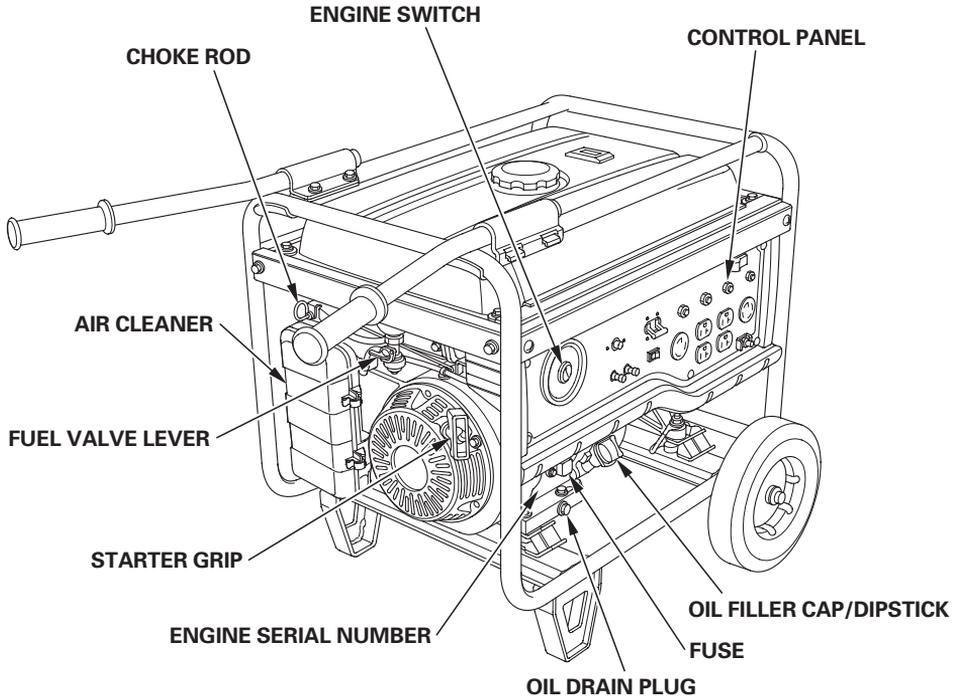
## Electric Shock Hazards

- The generator produces enough electric power to cause a serious shock or electrocution if misused.
- Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution. Keep the generator dry.
- If the generator is stored outdoors, unprotected from the weather, check all of the electrical components on the control panel before each use. Moisture or ice can cause a malfunction or short circuit in electrical components that could result in electrocution.
- Do not connect to a building's electrical system unless an isolation switch has been installed by a qualified electrician.

## Fire and Burn Hazards

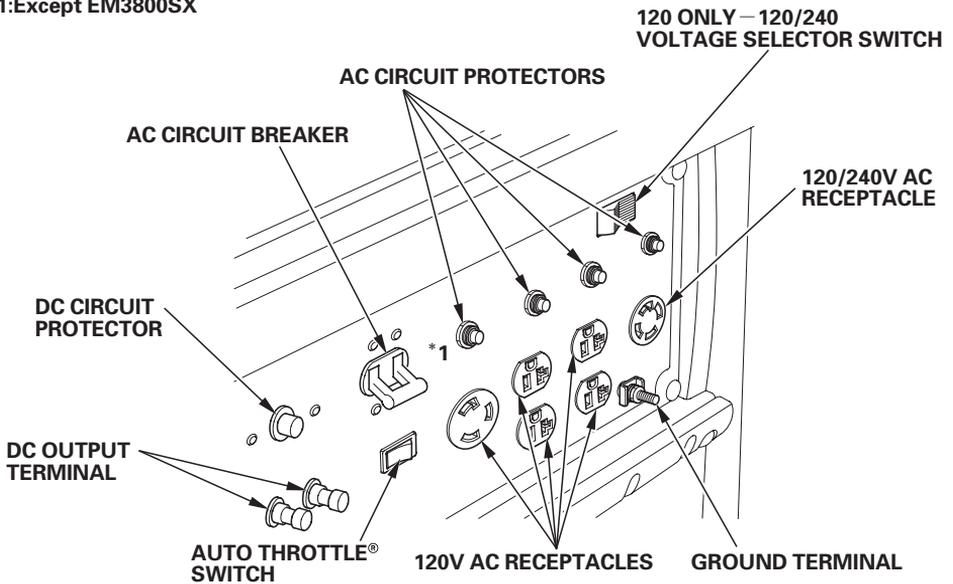
- The exhaust system gets hot enough to ignite some materials.
  - Keep the generator at least 3 feet (1 meter) away from buildings and other equipment during operation.
  - Do not enclose the generator in any structure.
  - Keep flammable materials away from the generator.
- The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot. Let the engine cool before storing the generator indoors.
- Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks where the generator is refueled or where gasoline is stored. Refuel in a well-ventilated area with the engine stopped.
- Fuel vapors are extremely flammable and may ignite after the engine has started. Make sure that any spilled fuel has been wiped up before starting the generator.

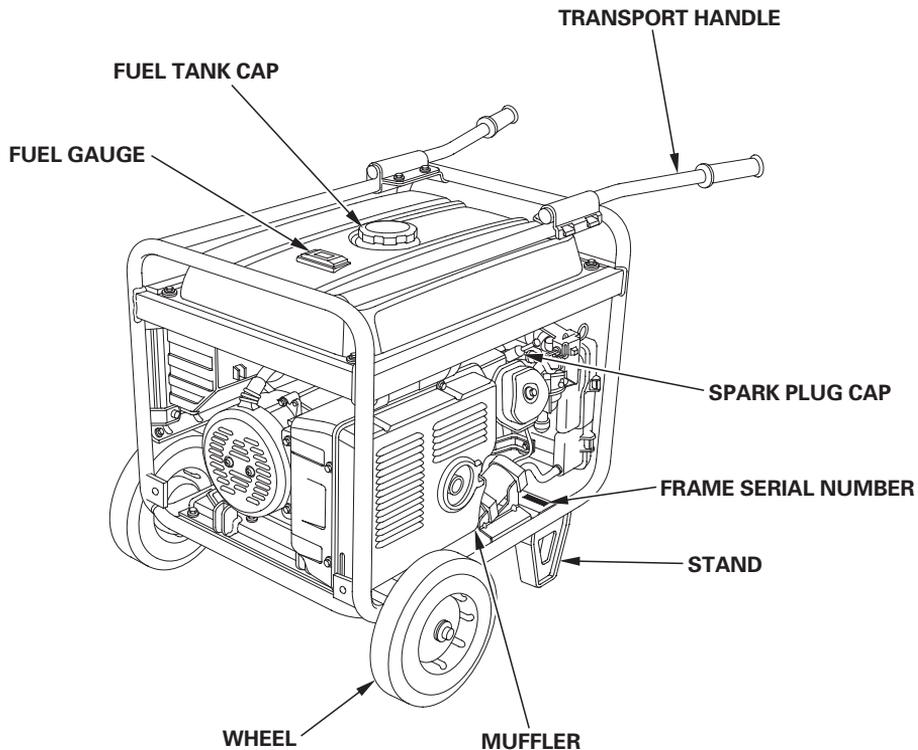
# COMPONENT IDENTIFICATION



## CONTROL PANEL

\*1: Except EM3800SX





\*Record the engine and frame serial numbers and date of purchase for your future reference. Refer to these serial numbers when ordering parts and when making technical or warranty inquiries (see page 69).

Engine serial number: \_\_\_\_\_

Frame serial number: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

# CONTROLS

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## Engine Switch

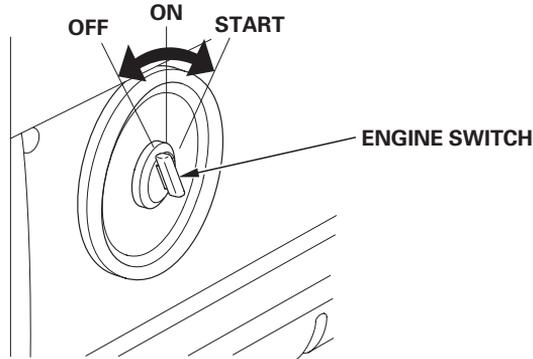
To start and stop the engine.

### Key position:

**OFF:** To stop the engine. Key can be removed/inserted.

**ON:** To run the engine after starting.

**START:** To start the engine by operating the starter motor.



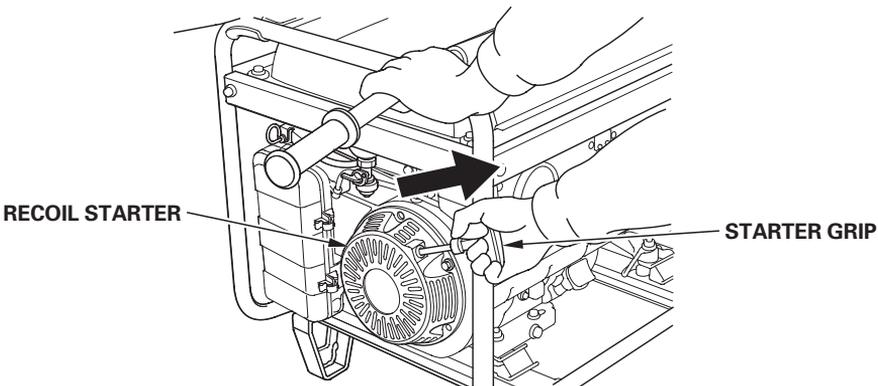
## Starter Grip

To start the engine, pull the starter grip lightly until resistance is felt, and then pull briskly.

### NOTICE

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

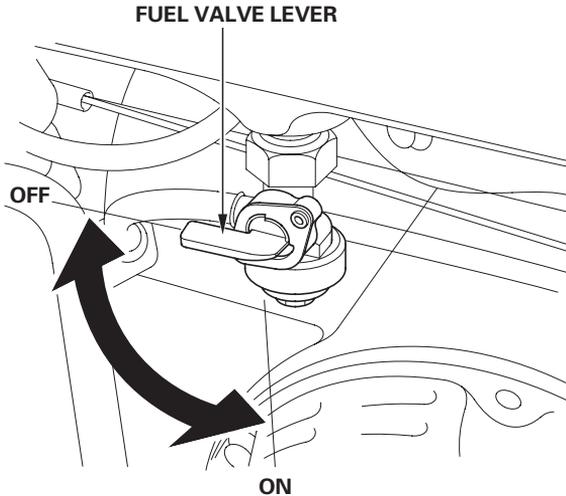
The recoil starter is used to start the engine if the generator is not equipped with a 12-volt battery to operate the starter motor, or if the battery does not contain adequate charge to operate the starter motor.



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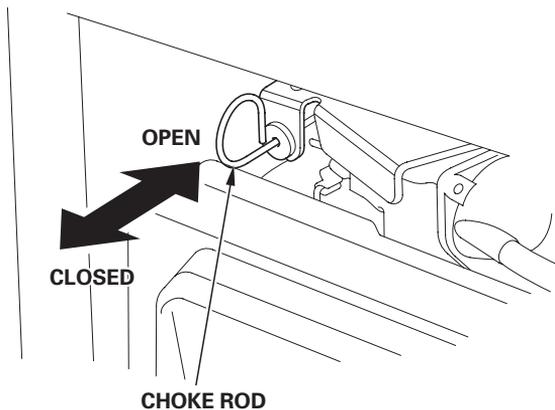
## Fuel Valve Lever

The fuel valve is located between the fuel tank and carburetor. When the valve lever is in the ON position, fuel is allowed to flow from the fuel tank to the carburetor. Be sure to return the fuel valve lever to the OFF position after stopping the engine.



## Choke Rod

The choke is used to provide an enriched fuel mixture when starting a cold engine. It can be opened and closed by operating the choke rod manually. Pull the rod out toward CLOSED to enrich the mixture for cold starting.



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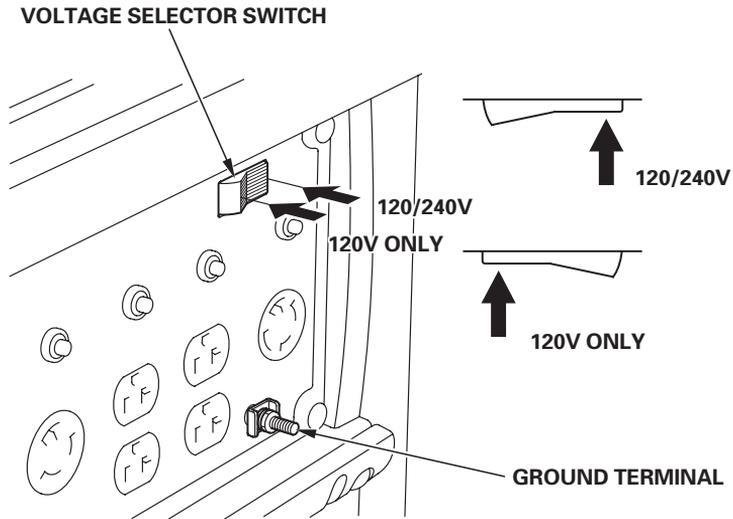
## Voltage Selector Switch (Dual Voltage System)

The voltage selector switch switches the main power carrying windings of the generator to produce "120V ONLY" or "120/240V". If a 240V appliance is connected to the 4-prong receptacle, the switch must be in the "120/240V" position. If only a 120V appliance is being connected to any of the 120V 3-prong receptacles, select the "120V ONLY" position.

### Switch Position

**120/240V:** The 120V and 120/240V receptacles can be used simultaneously.

**120V ONLY:** ONLY the 120V receptacles can be used. Do not use the 120/240V receptacle in this position. The most power will be available at the 30A 120V locking plug receptacle.



### Ground Terminal

The generator ground terminal is connected to the frame of the generator, the metal non-current-carrying parts of the generator, and the ground terminals of each receptacle.

Before using the ground terminal, consult a qualified electrician, electrical inspector, or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the generator.

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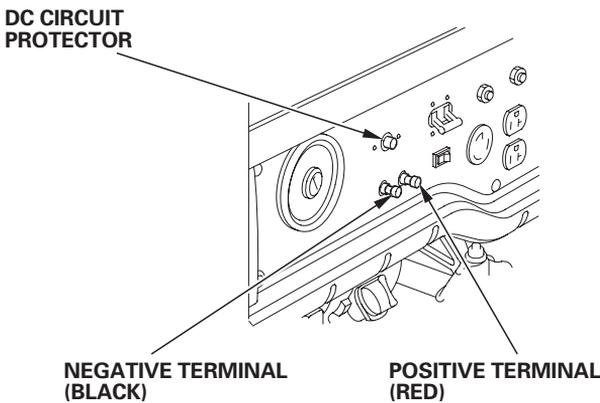
## DC Terminals

The DC terminals may ONLY be used for charging 12-volt automotive type batteries.

The terminals are colored red to identify the positive (+) terminal and black to identify the negative (-) terminal. The battery must be connected to the generator DC terminals with the proper polarity (battery positive to generator red terminal and battery negative to the generator black terminal).

## DC Circuit Protector

The DC circuit protector automatically shuts off the DC battery charging circuit when the DC charging circuit is overloaded, when there is a problem with the battery, or when the connections between the battery and the generator are improper.



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## Oil Alert® System

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 automatically stop the engine (the engine switch will remain in the ON position). The Oil Alert system should not take the place of checking the oil level before each use.

If the engine stops and will not restart, check the engine oil level (see page 30 ) before troubleshooting in other areas.

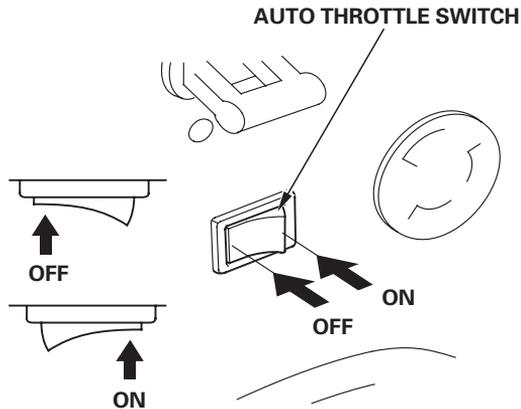
## Auto Throttle® System

The Auto Throttle® system automatically reduces engine speed when all loads are turned off or disconnected. When appliances are turned on or reconnected, the engine returns to the rated speed.

### Switch Position

**AUTO:** Recommended to minimize fuel consumption and further reduce noise levels when no load is applied to the generator.

**OFF:** The Auto Throttle system does not operate. Recommended to minimize warm-up time when the generator is started and when starting a load with large start-up power equipments.

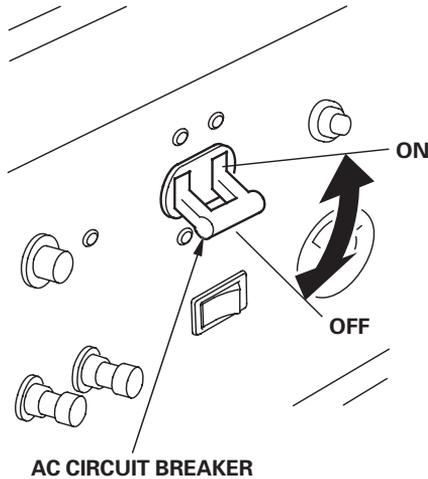


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## AC Circuit Breaker

The AC circuit breaker will automatically switch OFF if there is a short circuit or a significant overload of the generator at the receptacle. If the AC circuit breaker is switched OFF automatically, check that the appliance is working properly and does not exceed the rated load capacity of the circuit before switching the AC circuit breaker ON again.

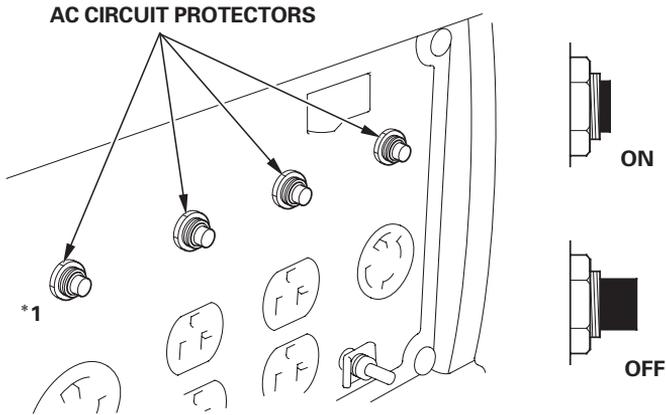
The AC circuit breaker may be used to switch the generator power ON or OFF.



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## AC Circuit Protector

The AC circuit protectors will automatically switch OFF if there is a short circuit or a significant overload of the generator at the 20A 120V, 30A 120V locking plug, or 120/240V locking plug receptacle. If an AC circuit protector switches OFF automatically, check that the appliance is working properly and does not exceed the rated load capacity of the circuit before resetting the AC circuit protector ON.



\*1: Except EM3800SX

## Connections to a Building's Electrical System

Connections for standby power to a building's electrical system must be made by a qualified electrician. The connection must isolate the generator power from utility power, and must comply with all applicable laws and electrical codes. A transfer switch, which isolates generator power from utility power, is available through authorized Honda generator dealers.

### **▲WARNING**

**Improper connections to a building's electrical system can allow electrical current from the generator to backfeed into the utility lines. Such backfeed may electrocute utility company workers or others who contact the lines during a power outage, and the generator may explode, burn, or cause fires when utility power is restored. Consult the utility company or a qualified electrician.**

## Ground System

Honda portable generators have a system ground that connects generator frame components to the ground terminals in the AC output receptacles. The system ground is not connected to the AC neutral wire. If the generator is tested by a receptacle tester, it will show the same ground circuit condition as for a home receptacle.

## Special Requirements

There may be Federal or State Occupational Safety and Health Administration (OSHA) regulations, local codes, or ordinances that apply to the intended use of the generator. Please consult a qualified electrician, electrical inspector, or the local agency having jurisdiction.

- In some areas, generators are required to be registered with local utility companies.

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## AC Applications

Before connecting an appliance or power cord to the generator:

- Make sure that it is in good working order. Faulty appliances or power cords can create a potential for electrical shock.
- If an appliance begins to operate abnormally, becomes sluggish, or stops suddenly, turn it off immediately. Disconnect the appliance, and determine whether the problem is the appliance or the rated load capacity of the generator has been exceeded.
- Make sure that the electrical rating of the tool or appliance does not exceed that of the generator. Never exceed the maximum power rating of the generator. Power levels between rated and maximum may be used for no more than 30 minutes.

### NOTICE

*Substantial overloading will open the circuit breaker. Exceeding the time limit for maximum power operation or slightly overloading the generator may not switch the circuit breaker or circuit protector OFF, but will shorten the service life of the generator.*

Limit operation requiring maximum power to 30 minutes.

Maximum power is:

EM3800SX: 3.8 kVA

EM5000SX: 5.0 kVA

EM6500SX: 6.5 kVA

For continuous operation (longer than 30 minutes), do not exceed the rated power.

Rated power is:

EM3800SX: 3.3 kVA

EM5000SX: 4.5 kVA

EM6500SX: 5.5 kVA

The total power requirements (VA) of all appliances connected must be considered. Appliance and power tool manufacturers usually list rating information near the model number or serial number.

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## AC Operation

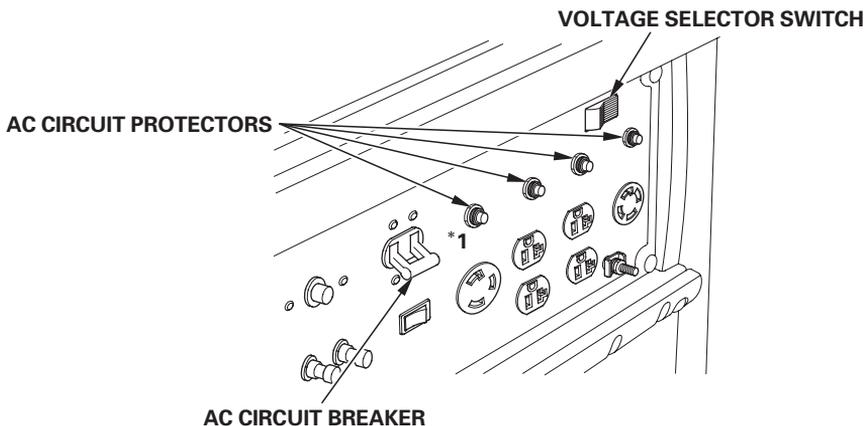
1. Start the engine (see page 33 ).
2. Turn the voltage selector switch to either position.  
With the voltage selector switch in the "120/240V" position, you can use the 120V and 120/240V receptacles simultaneously. If you are NOT using the 120/240V receptacle but require more power from the 120V locking plug receptacle, then select the "120V ONLY" position.
3. Switch the AC circuit breaker ON.
4. Plug in the appliance.

### NOTICE

*Be sure that all appliances are in good working order before connecting them to the generator. If an appliance begins to operate abnormally, becomes sluggish, or stops suddenly, turn off the ignition switch lever immediately. Then disconnect the appliance and examine it for signs of malfunction.*

Most motorized appliances require more than their rated power for startup.

Do not exceed the current limit specified for any one receptacle. If an overloaded circuit causes the AC circuit breaker or AC circuit protector to switch OFF, reduce the electrical load on the circuit, wait a few minutes and then reset the AC circuit breaker or AC circuit protector.

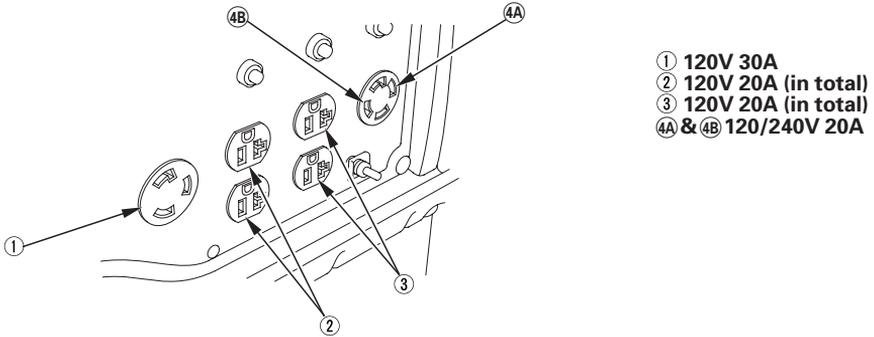


\*1:Except EM3800SX

## AC Receptacle Selection

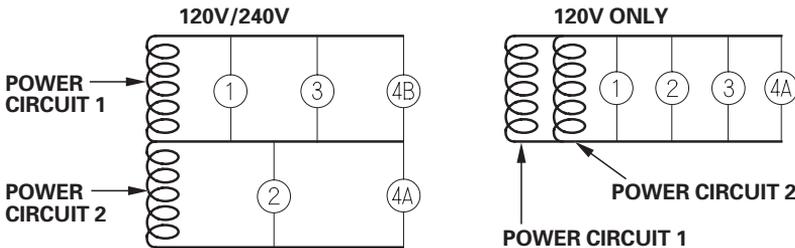
The control panel, shown below, has a voltage selector switch and four receptacles. Receptacle #4, the 240-volt receptacle, has two powered terminals, 4A and 4B.

### EM3800SX:



## Power Producing Circuits

This generator is equipped with two power generating circuits. When the voltage selector switch is in the 120V/240V position, each of the two power producing circuits supplies power to specific receptacles. When the voltage selector switch is in the 120V ONLY position, the power producing circuits operate in parallel, sharing the total load connected to terminal 4A and receptacles 1, 2, and 3.



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## Voltage Selector Switch

The power available to each receptacle depends on the position of the voltage selector switch.

Switch Position	Receptacle	Available Power
120V ONLY	1	27.5A at 120V
	2	20A at 120V
	3	20A at 120V
	4A	20A at 120V
	4B	None
120V/240V	1	13.8A at 120V
	2	13.8A at 120V
	3	13.8A at 120V
	4A-4B	13.8A at 240V

### ***120V ONLY Position***

When the voltage selector switch is in the 120V ONLY position, you do not need to spread the load over the receptacles. You must, however, make sure the load on any receptacle does not exceed its available power shown in the preceding table and the total load does not exceed 27.5 amps.

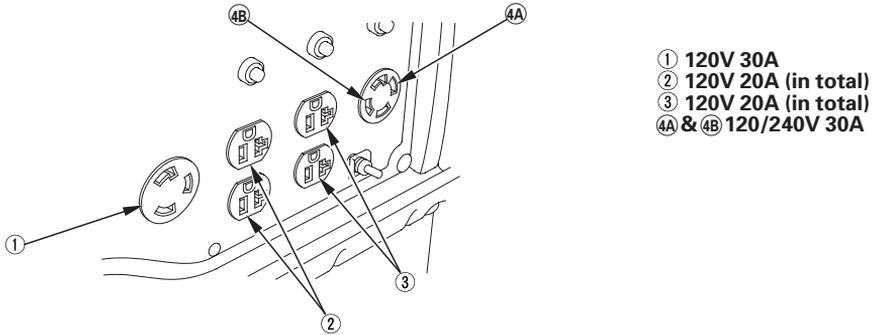
### ***120V/240V Position***

When the voltage selector switch is in the 120V/240V position, you must balance the load. Divide the load between the two sets of receptacles shown below. Balancing is necessary because each set of receptacles is powered by only one power producing circuit that can produce a maximum of 13.8 amps.

Set of Receptacles	Total Current Available	Power Producing Circuit
1 + 3 + 4B	13.8A	1
2 + 4A	13.8A	2

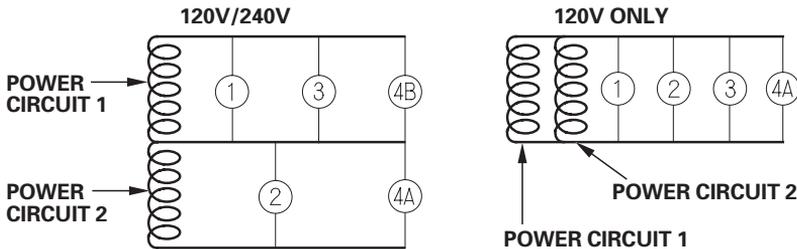
The control panel, shown below, has a voltage selector switch and four receptacles. Receptacle #4, the 240-volt receptacle, has two powered terminals, 4A and 4B.

**EM5000SX:**



**Power Producing Circuits**

This generator is equipped with two power generating circuits. When the voltage selector switch is in the 120V/240V position, each of the two power producing circuits supplies power to specific receptacles. When the voltage selector switch is in the 120V ONLY position, the power producing circuits operate in parallel, sharing the total load connected to terminal 4A and receptacles 1, 2, and 3.



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## Voltage Selector Switch

The power available to each receptacle depends on the position of the voltage selector switch.

Switch Position	Receptacle	Available Power
120V ONLY	1	30A at 120V
	2	20A at 120V
	3	20A at 120V
	4A	30A at 120V
	4B	None
120V/240V	1	18.8A at 120V
	2	18.8A at 120V
	3	18.8A at 120V
	4A-4B	18.8A at 240V

### ***120V ONLY Position***

When the voltage selector switch is in the 120V ONLY position, you do not need to spread the load over the receptacles. You must, however, make sure the load on any receptacle does not exceed its available power shown in the preceding table and the total load does not exceed 37.5 amps.

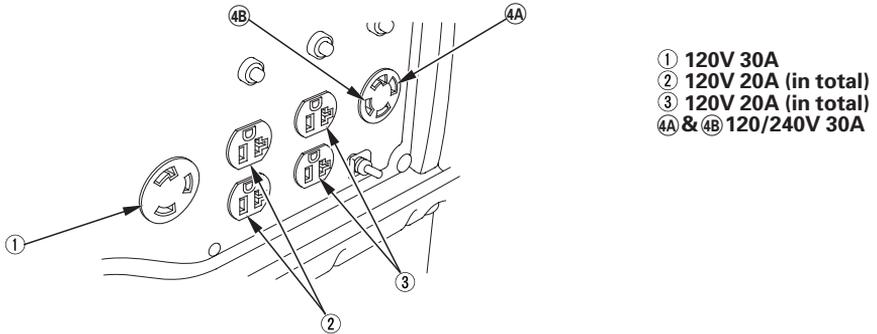
### ***120V/240V Position***

When the voltage selector switch is in the 120V/240V position, you must balance the load. Divide the load between the two sets of receptacles shown below. Balancing is necessary because each set of receptacles is powered by only one power producing circuit that can produce a maximum of 18.8 amps.

Set of Receptacles	Total Current Available	Power Producing Circuit
1 + 3 + 4B	18.8A	1
2 + 4A	18.8A	2

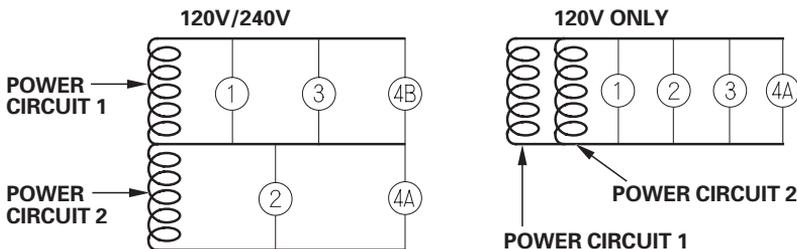
The control panel, shown below, has a voltage selector switch and four receptacles. Receptacle #4, the 240-volt receptacle, has two powered terminals, 4A and 4B.

**EM6500SX:**



**Power Producing Circuits**

This generator is equipped with two power generating circuits. When the voltage selector switch is in the 120V/240V position, each of the two power producing circuits supplies power to specific receptacles. When the voltage selector switch is in the 120V ONLY position, the power producing circuits operate in parallel, sharing the total load connected to terminal 4A and receptacles 1, 2, and 3.



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## Voltage Selector Switch

The power available to each receptacle depends on the position of the voltage selector switch.

Switch Position	Receptacle	Available Power
120V ONLY	1	30A at 120V
	2	20A at 120V
	3	20A at 120V
	4A	30A at 120V
	4B	None
120V/240V	1	22.9A at 120V
	2	20A at 120V
	3	20A at 120V
	4A-4B	22.9A at 240V

### ***120V ONLY Position***

When the voltage selector switch is in the 120V ONLY position, you do not need to spread the load over the receptacles. You must, however, make sure the load on any receptacle does not exceed its available power shown in the preceding table and the total load does not exceed 45.8 amps.

### ***120V/240V Position***

When the voltage selector switch is in the 120V/240V position, you must balance the load. Divide the load between the two sets of receptacles shown below. Balancing is necessary because each set of receptacles is powered by only one power producing circuit that can produce a maximum of 22.9 amps.

Set of Receptacles	Total Current Available	Power Producing Circuit
1 + 3 + 4B	22.9A	1
2 + 4A	22.9A	2

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## DC Operation

The DC terminals may ONLY be used for charging 12-volt automotive type batteries.

### Connecting the battery charging cables:

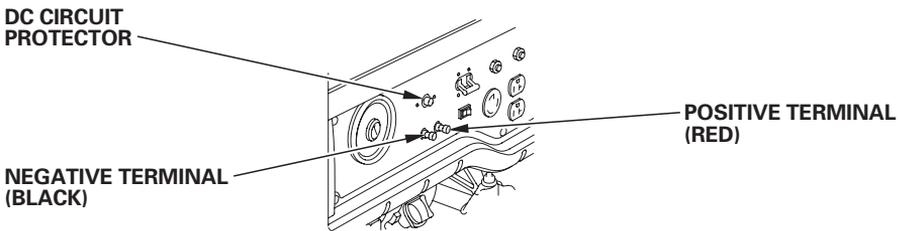
1. Before connecting the battery charging cables to a battery that is installed in a vehicle, disconnect the vehicle ground battery cable from the battery negative (–) terminal.

#### ▲WARNING

- **The battery gives off explosive gases; keep sparks, flames, and cigarettes away. Provide adequate ventilation when charging or using batteries.**

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

2. Connect the positive (+) battery cable to the battery positive (+) terminal.
3. Connect the other end of the positive (+) battery cable to the generator positive (+) terminal.



4. Connect the negative (–) battery cable to the battery negative (–) terminal.
5. Connect the other end of the negative (–) battery cable to the generator negative (–) terminal.
6. Start the generator.

#### NOTICE

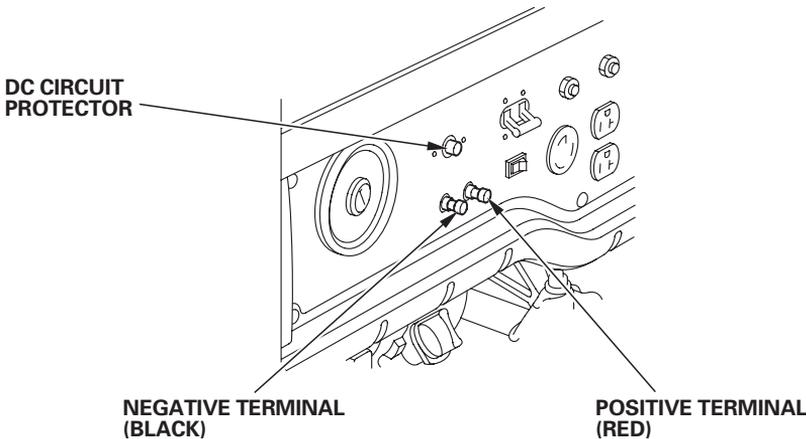
*Do not start the vehicle while the battery charging cable is connected and the generator is running. The vehicle or the generator may be damaged.*

---

An overloaded DC circuit, excessive current draw by the battery, or a wiring problem will trip the DC circuit protector (PUSH button extends out). If this happens, wait a few minutes before pushing in the circuit protector to resume operation. If the DC circuit protector continues to go OFF, discontinue charging and see your authorized Honda generator dealer.

**Disconnecting the battery cables:**

1. Stop the engine.
2. Disconnect the negative (–) battery cable from the generator negative (–) terminal.
3. Disconnect the other end of the negative (–) battery cable from the battery negative (–) terminal.
4. Disconnect the positive (+) battery cable from the generator positive (+) terminal.
5. Disconnect the other end of the positive (+) battery cable from the battery positive (+) terminal.
6. Reconnect the vehicle ground battery cable to the battery negative (–) terminal.



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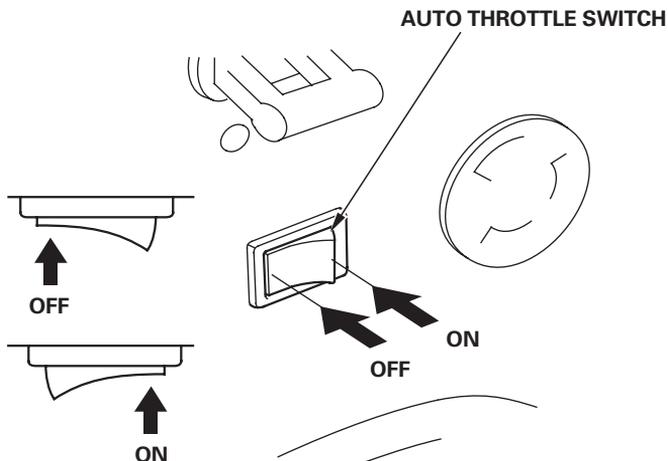
## Auto Throttle® System

With the switch in the AUTO position, engine speed is automatically reduced when ALL loads are turned OFF or disconnected. When appliances are turned ON or reconnected, the engine returns to rated speed. In the OFF position, the Auto Throttle system does not operate. The Auto Throttle system will not respond to electrical loads of less than 1 ampere or intermittent loads such as a staple gun. Turn the Auto Throttle switch to the OFF position to operate loads of less than 1 amp.

Appliances with large start-up power demands may not allow the engine to reach normal operating rpm when they are connected to the generator. Push the Auto Throttle switch to the OFF position and connect the appliance to the generator. If the engine still will not reach normal operating speed, check that the appliance does not exceed the rated load capacity of the generator.

To avoid extended warm-up periods, keep the switch OFF until the engine reaches operating temperature.

The Auto Throttle system is not effective for use with appliances that require only momentary power. If the tool or appliance will be turned ON and OFF quickly, the Auto Throttle switch should be in the OFF position.



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## 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 generator at altitudes above 5,000 feet (1,500 meters), have your 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 1,000-foot (300-meter) increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

### NOTICE

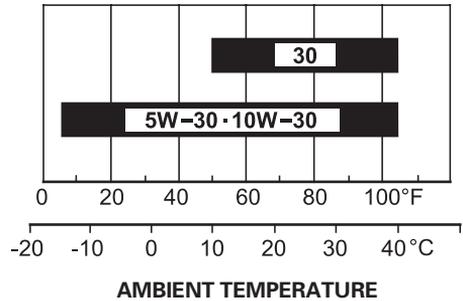
*When the carburetor has been modified for high altitude operation, the air/fuel mixture will be too lean for low altitude use. Operation at altitudes below 5,000 feet (1,500 meters) with a modified carburetor may cause the engine to overheat and result in serious engine damage. For use at low altitudes, have your servicing dealer return the carburetor to original factory specifications.*

# PRE-OPERATION CHECK

## Engine Oil

Check the oil level BEFORE EACH USE with the generator on a level surface and the engine stopped.

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).

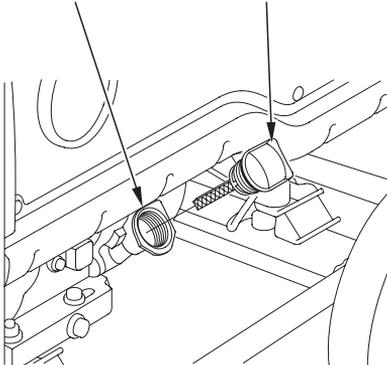


SAE 10W-30 is recommended for general, all-temperature use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.

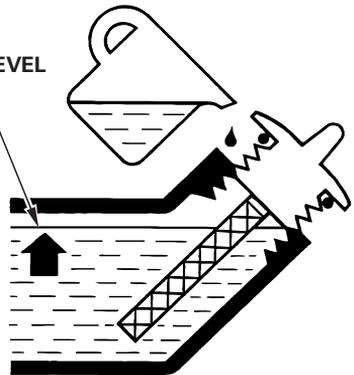
1. Remove the oil filler cap/dipstick and wipe the dipstick clean.
2. Check the oil level by inserting the dipstick into the filler neck without screwing it in.
3. If the level is low, fill to the upper limit of the oil filler neck with the recommended oil.

OIL FILLER HOLE

OIL FILLER CAP/DIPSTICK



UPPER LEVEL



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## Refueling

With the engine stopped, check the fuel level gauge. Refill the fuel tank if the fuel level is low.

### ▲WARNING

**Gasoline is highly flammable and explosive.**

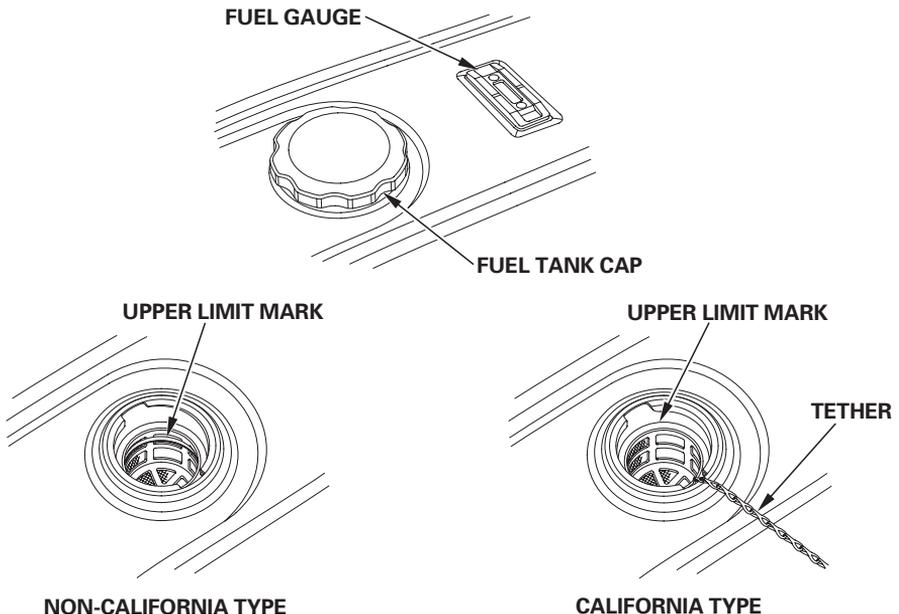
**You can be burned or seriously injured when handling fuel.**

- **Stop engine and keep heat, sparks, and flame away.**
- **Refuel only outdoors.**
- **Wipe up spills immediately.**

Refuel in a well-ventilated area with the engine stopped. If the engine has been running, allow it to cool first. Refuel carefully to avoid spilling fuel. Do not fill above the upper limit mark.

Never refuel the engine inside a building where gasoline fumes may reach flames or sparks. 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.



---

**NOTICE**

*Fuel can damage paint and plastic. Be careful not to spill fuel when filling your fuel tank. Damage caused by spilled fuel is not covered under warranty.*

After refueling, reinstall the fuel tank cap securely.

**Fuel Recommendations**

This engine is certified to operate on regular unleaded gasoline with a pump octane rating of 86 or higher.

Never use stale or contaminated gasoline or an oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.

You may use regular 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 warranty.

# STARTING THE ENGINE/STOPPING THE ENGINE

---

## Starting the Engine

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

### **▲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 generator in a closed, or even partly closed area where people may be present.**

To prevent a possible fire, keep the generator at least 3 feet (1 meter) away from building walls and other equipment during operation. Do not place flammable objects close to the engine.

### **NOTICE**

*Operating this generator less than 3 feet (1 meter) from a building or other obstruction can cause overheating and damage the generator. For proper cooling, allow at least 3 feet (1 meter) of empty space above and around the generator.*

Refer to the *AC OPERATION* (see page 19) or *DC OPERATION* (see page 26) for connecting loads to the generator.

1. Perform the *PRE-OPERATION CHECK* (see page 30).
2. Make sure that the AC circuit breaker is in the OFF position. The generator may be hard to start if a load is connected.
3. Turn the fuel valve lever to the ON position.
4. The automatic choke will be closed if the engine is cold. If you want to operate the choke manually, pull the choke rod out to the CLOSED position.
5. Make sure the Auto Throttle switch is in the OFF position, or more time will be required for warm up.
6. Turn the engine switch to the ON position.
7. Pull the starter grip lightly until resistance is felt, then pull briskly.

### **NOTICE**

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

- 
- With electric starter:

1. Connect the battery cables to the generator. (page 65)
2. Turn the engine switch to the START position and hold it there for 5 seconds or until the engine starts.

**NOTICE**

- *Operating the starter motor for more than 5 seconds can damage the motor. If the engine fails to start, release the switch and wait 10 seconds before operating the starter again.*
- *If the speed of the starter motor drops after a period of time, it is an indication that the battery should be recharged.*

When the engine starts, allow the engine switch to return to the ON position.

8. If you have manually closed the choke, push it to the OPEN position as the engine warms up.
9. If you wish to use the Auto Throttle system, turn the Auto Throttle switch to the AUTO position after the engine has warmed up for 2 or 3 minutes.

## **Stopping the Engine**

### **In an emergency:**

To stop the engine in an emergency, move the engine switch to the OFF position.

### **In normal use:**

1. Turn the AC circuit breaker to the OFF position.  
Disconnect DC battery charging cables.
2. Turn the engine switch to the OFF position.
3. Turn the fuel valve lever to the OFF position.

## The Importance of Maintenance

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

### **▲WARNING**

**Improper maintenance, or failure to correct a problem before operation, can cause a malfunction in which you can be seriously hurt or killed.**

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

To help you properly care for your generator, 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 generator under severe conditions, such as sustained high-load or high-temperature operation, or use it in unusually wet or dusty conditions, consult your 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.**

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## 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.

### **▲WARNING**

**Failure to properly follow maintenance instructions and precautions can cause you to be seriously hurt or killed.**

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

### Safety Precautions

- Make sure the engine is off before you begin any maintenance or repairs. This will eliminate several potential hazards:
  - **Carbon monoxide poisoning from engine exhaust.**  
Operate outside away from open windows or doors.
  - **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 your servicing dealer knows your generator 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 or replacement.

## Maintenance Schedule

REGULAR SERVICE PERIOD (3)		Each use	First month or 20 Hrs.	Every 3 months or 50 Hrs.	Every 6 months or 100 Hrs.	Every year or 300 Hrs.
ITEM	Performed at every indicated month or operating hour interval, whichever comes first.					
Engine oil	Check level	○				
	Change		○		○	
Air cleaner	Check	○				
	Clean			○(1)		
Canister (California type)	Check	Every 2 years (2)				
Purge tube (California type)	Check	Every 2 years (2)				
Charge tube (California type)	Check	Every 2 years (2)				
Sediment cup	Clean				○	
Spark plug	Check-adjst				○	
	Replace					○
Spark arrester	Clean				○	
Idle speed	Check-adjst					○(2)
Valve clearance	Check-adjst					○(2)
Combustion chamber	Clean	After every 500 Hrs.(2)				
Fuel tank and filter	Clean				○(2)	
Fuel tube	Check	Every 2 years (Replace if necessary)(2)				

(1)Service more frequently when used in dusty areas.

(2)These items should be serviced by an authorized Honda generator dealer, unless the owner has the proper tools and is mechanically proficient. See the Honda Shop Manual.

(3)For commercial use, log hours of operation to determine proper maintenance intervals.

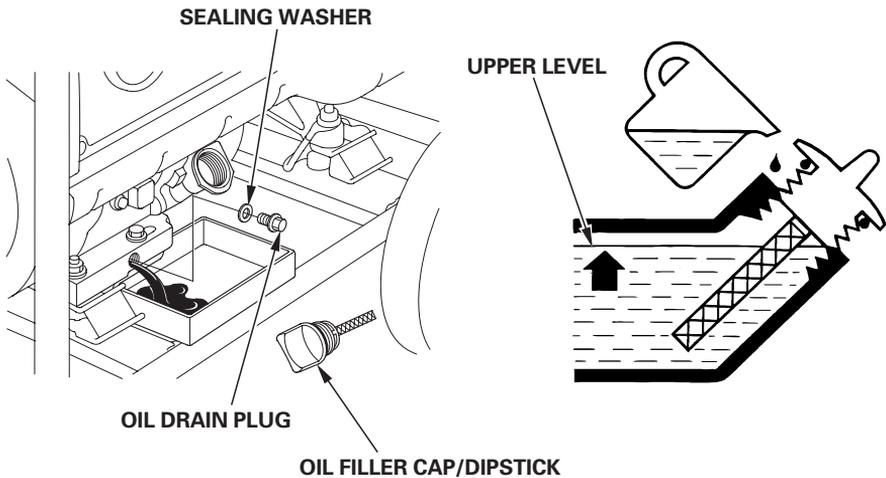
Failure to follow this maintenance schedule could result in non-warrantable failures.

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## Engine Oil Change

Drain the oil while the engine is warm to assure rapid and complete draining.

1. Place a suitable container below the engine to catch the oil, then remove the oil drain plug and sealing washer, remove the oil filler cap/dipstick, and drain the oil.
2. Reinstall the oil drain plug and sealing washer. Tighten the plug securely.
3. Refill with the recommended oil (see page 30) and check the oil level.



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

### NOTICE

*Improper disposal of engine oil can be harmful to the environment. If you change your own oil, please dispose of it properly. Put it in a sealed container, and take it to a recycling center. Do not discard it in a trash bin, dump it on the ground, or pour it down a drain.*

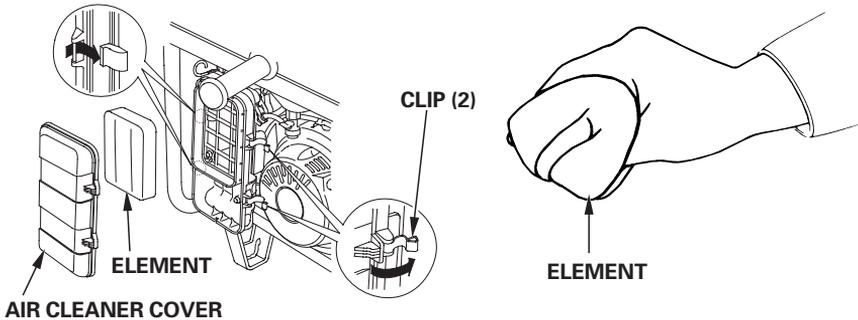
## Air Cleaner Service

A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dusty areas.

### NOTICE

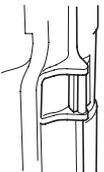
*Operating the engine without an air filter or with a damaged air filter will allow dirt to enter the engine, causing rapid engine wear. This type of damage is not covered by the Distributor's Limited Warranty.*

1. Unsnap the two air cleaner cover clips, remove the air cleaner cover, and remove the element.

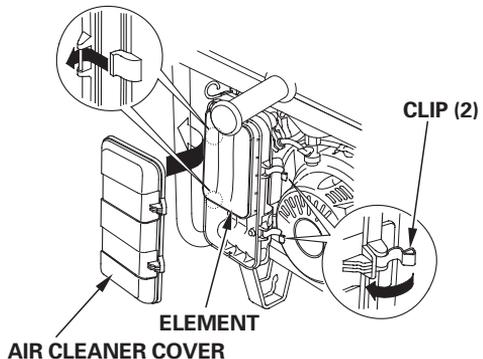
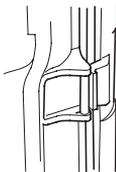


2. Wash the air cleaner element in a solution of household detergent and warm water, then rinse thoroughly, or wash in nonflammable or high flashpoint solvent. Allow the air cleaner element to dry thoroughly.
3. Soak the air cleaner element in clean engine oil and squeeze out the excess oil. The engine will smoke during initial startup if too much oil is left in the air cleaner element.
4. Reinstall the air cleaner element and the cover.

• properly hooked



• improperly hooked

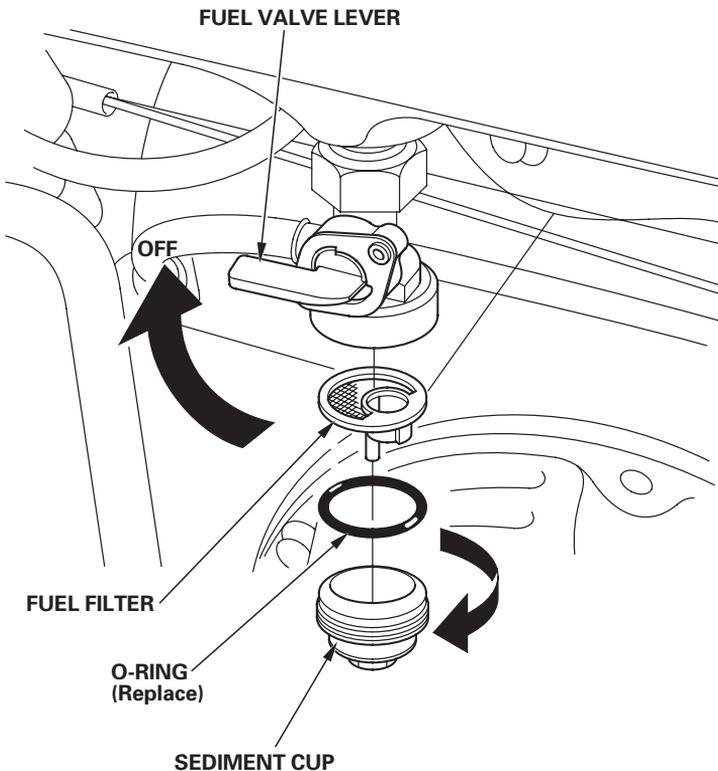


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## Fuel Sediment Cup Cleaning

The sediment cup prevents dirt or water that may be in the fuel tank from entering the carburetor. If the engine has not been run for a long time, the sediment cup should be cleaned.

1. Turn the fuel valve lever to the OFF position. Remove the sediment cup, O-ring, and filter.
2. Clean the sediment cup and filter in nonflammable or high flash point solvent.
3. Reinstall the filter, new O-ring, and sediment cup.
4. Turn the fuel valve lever ON and check for leaks.



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## Spark Plug Service

In order to service the spark plug, you will need a spark plug wrench (commercially available).

**Recommended spark plugs:** BPR5ES (NGK), W16EPR-U (DENSO)

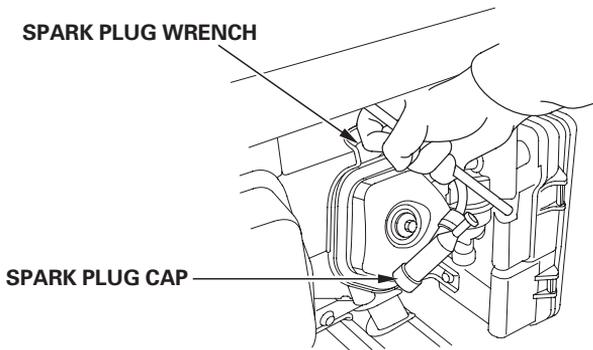
To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

**NOTICE**

*An incorrect spark plug can cause engine damage.*

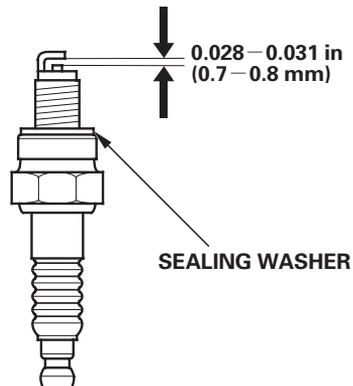
If the engine has been running, let it to cool before servicing the spark plug.

1. Remove the spark plug cap.
2. Clean any dirt from around the spark plug base.
3. Use a spark plug wrench to remove the spark plug.



4. Visually inspect the spark plug. Discard it if the insulator is cracked, chipped, or fouled.
5. 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:  
0.028–0.031 in (0.7–0.8 mm)



- 
6. Check that the spark plug sealing washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.
  7. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.

– If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8–1/4 turn after the spark plug seats to compress the washer.

**NOTICE**

*A loose spark plug can overheat and damage the engine. Overtightening the spark plug can damage the threads in the cylinder head.*

### **Spark Arrester Maintenance**

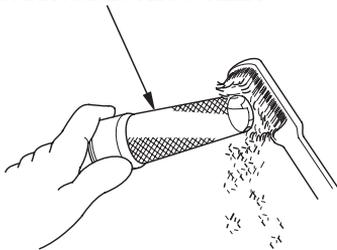
If the generator has been running, the muffler will be very hot. Allow it to cool before proceeding.

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

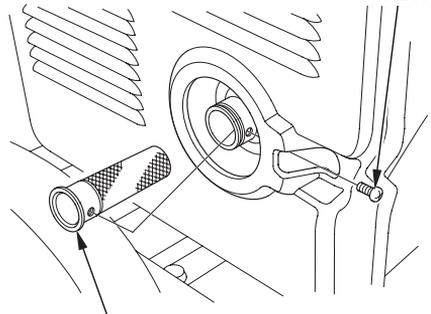
Clean the spark arrester as follows:

1. Loosen the screw by the exhaust port of the muffler and remove the spark arrester.
2. Use a brush to remove carbon deposits from the spark arrester screen.  
Inspect the screen for breaks or tears and replace it if necessary.
3. Install the spark arrester in the reverse order of removal.

**SPARK ARRESTER SCREEN**



**SCREW**



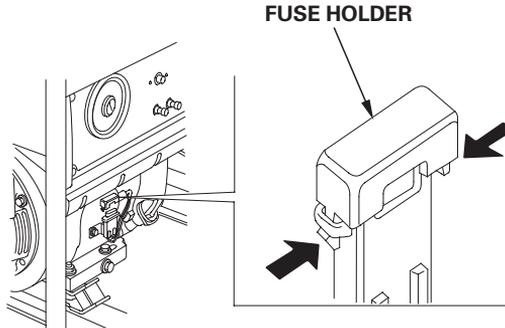
**SPARK ARRESTER**

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## Fuse Replacement

If the fuse is blown, the starter motor won't operate.

1. Turn the engine switch to the OFF position.
2. Remove the fuse holder cover and replace the fuse.  
The specified fuse is 10A.



If frequent fuse failure occurs, determine the cause and correct the problem before attempting to operate the generator further.

### NOTICE

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

# TRANSPORTING/STORAGE

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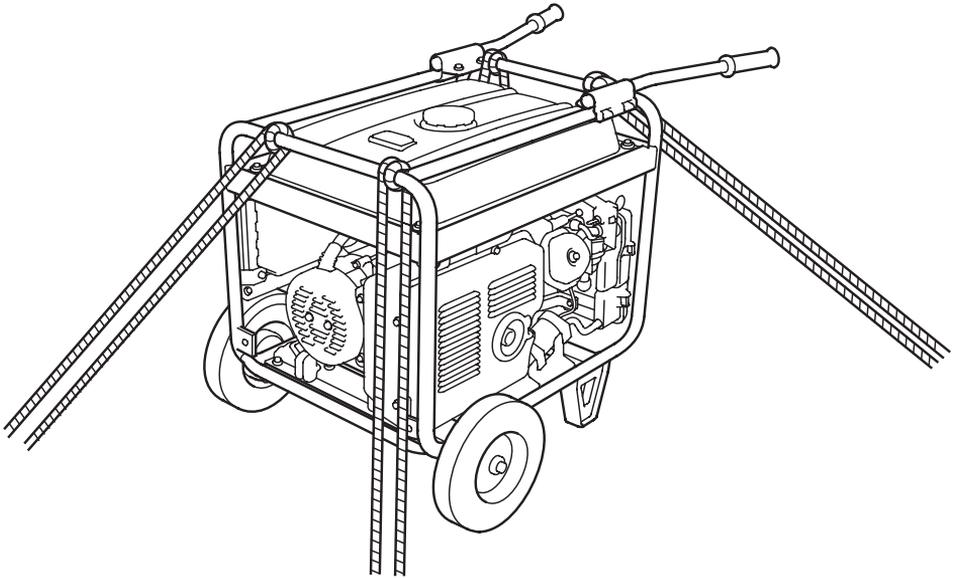
When transporting the generator, turn the engine switch and the fuel valve OFF. Keep the generator level to prevent fuel spillage. Fuel vapor or spilled fuel may ignite.

## ▲WARNING

**Contact with a hot engine or exhaust system can cause serious burns or fires. Let the engine cool before transporting or storing the generator.**

Take care not to drop or strike the generator when transporting. Do not place heavy objects on the generator.

When transporting the generator by loading it on to a vehicle, secure to the generator frame as shown.



---

Before storing the unit for an extended period:

1. Be sure the storage area is free of excessive humidity and dust.
2. Service according to the table below:

<b>STORAGE TIME</b>	<b>RECOMMENDED SERVICE PROCEDURE TO PREVENT HARD STARTING</b>
Less than 1 month	No preparation required
1 to 2 months	Fill with fresh gasoline and add gasoline stabilizer *.
2 months to 1 year	Fill with fresh gasoline and add gasoline stabilizer *. Drain the carburetor float bowl (page 46 ). Drain the fuel sediment cup (page 40 ).
1 year or more	Fill with fresh gasoline and add gasoline stabilizer *. Drain the carburetor float bowl (page 46 ). Drain the fuel sediment cup (page 40 ). Remove the spark plug. Put a tablespoon of engine oil into the cylinder. Turn the engine slowly with the recoil starter to distribute the oil. Reinstall the spark plug. Change the engine oil (page 38 ). After removal from storage, drain the stored gasoline into a suitable container, and fill with fresh gasoline before starting.
*Use gasoline stabilizers that are formulated to extend storage life. Contact your authorized Honda generator dealer for stabilizer recommendations.	

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## Storage

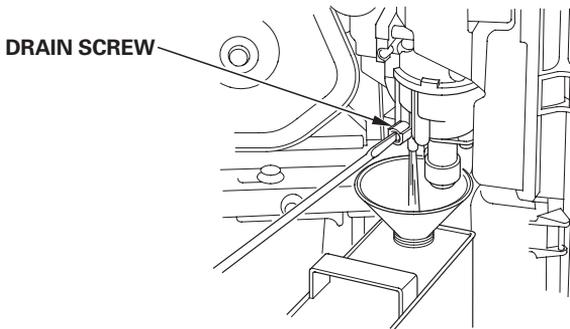
1. Drain the carburetor by loosening the drain screw. Drain the gasoline into a suitable container.

### ▲WARNING

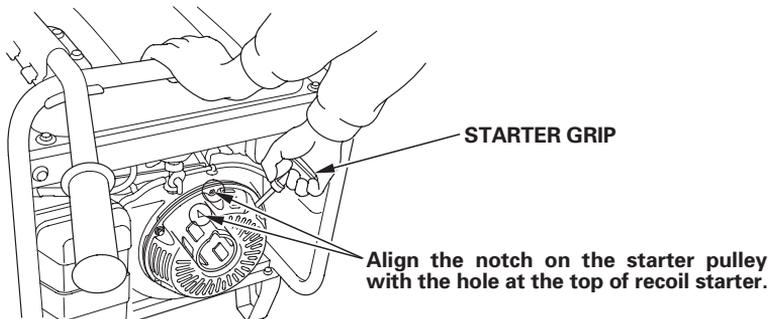
**Gasoline is highly flammable and explosive.**

**You can be burned or seriously injured when handling fuel.**

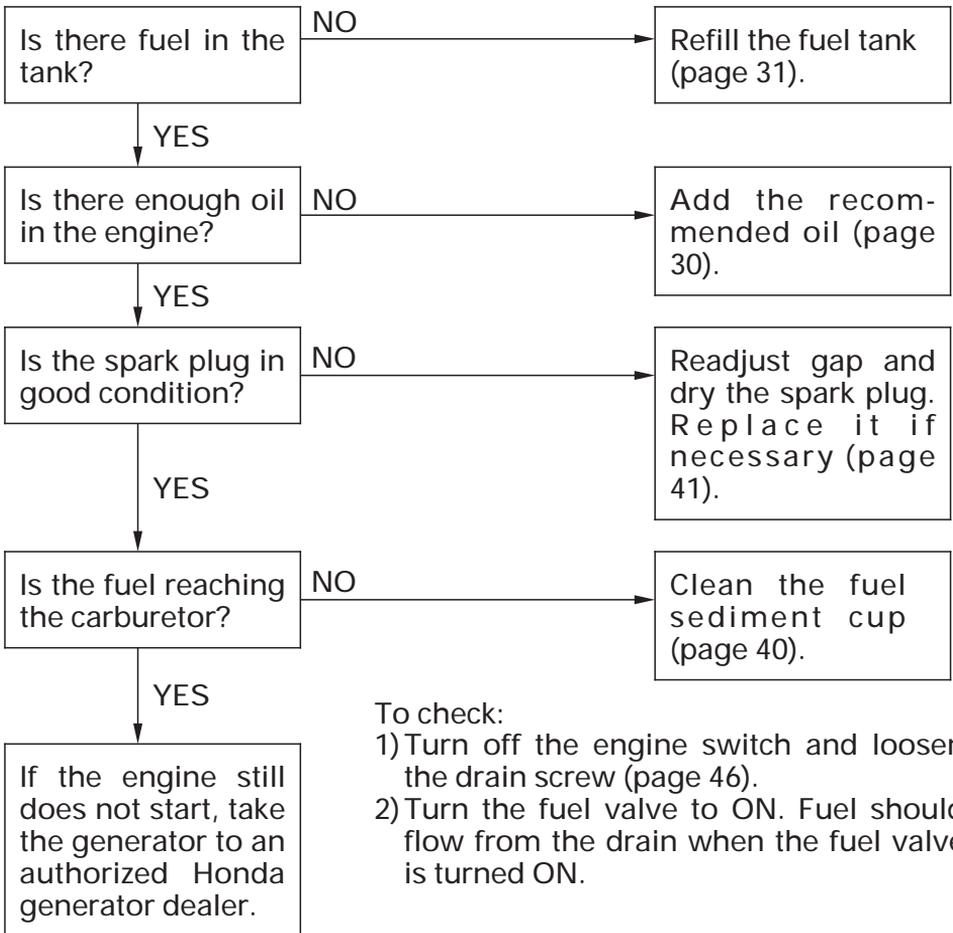
- **Keep heat, sparks, and flame away.**
- **Handle fuel only outdoors.**
- **Wipe up spills immediately.**



2. Change the engine oil (page 38 ).
3. Remove the spark plug, and pour about a tablespoon of clean engine oil into the cylinder. Turn the engine several revolutions slowly with the recoil starter to distribute the oil, then reinstall the spark plug.
4. Slowly pull the starter grip until resistance is felt. At this point, the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. Storing the engine in this position will help to protect it from internal corrosion.



When the engine will not start:

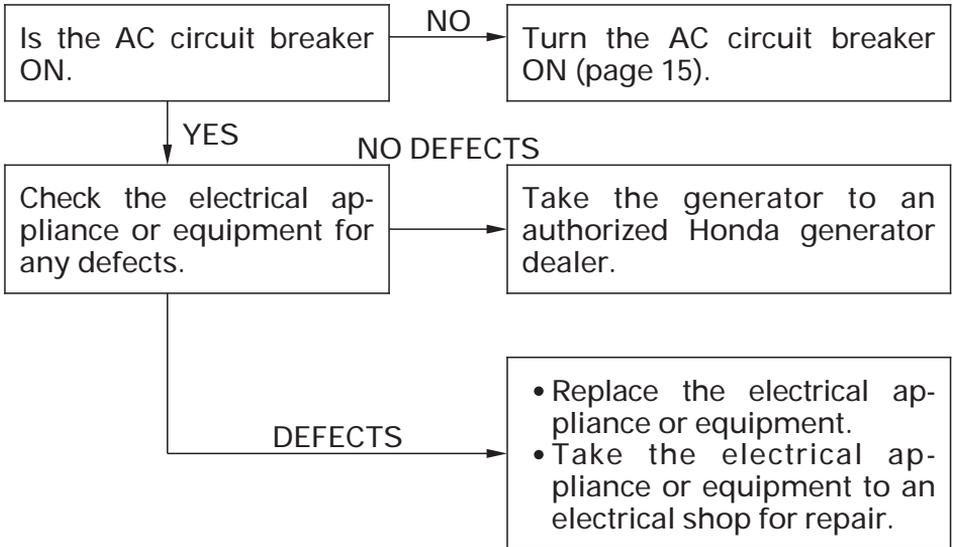


To check:

- 1) Turn off the engine switch and loosen the drain screw (page 46).
- 2) Turn the fuel valve to ON. Fuel should flow from the drain when the fuel valve is turned ON.

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No electricity at the AC receptacles:



## Emission Control System Information

### 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

EPA and California 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

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.
- Altering 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 emission control systems on your Honda engine were designed, built, and certified to conform with applicable emission 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. The use of replacement parts that are not of the original design and quality may impair the effectiveness of your emission control system.

A manufacturer of an aftermarket part assumes the responsibility that the part will not adversely affect emission 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 emission regulations.

## Maintenance

Follow the *MAINTENANCE SCHEDULE* on page 37. Remember that this schedule is based on the assumption that your machine will be used for its designed purpose. Sustained high-load or high-temperature operation, or use in unusually wet or dusty conditions, will require more frequent service.

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## Air Index

(Models certified for sale in California)

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.

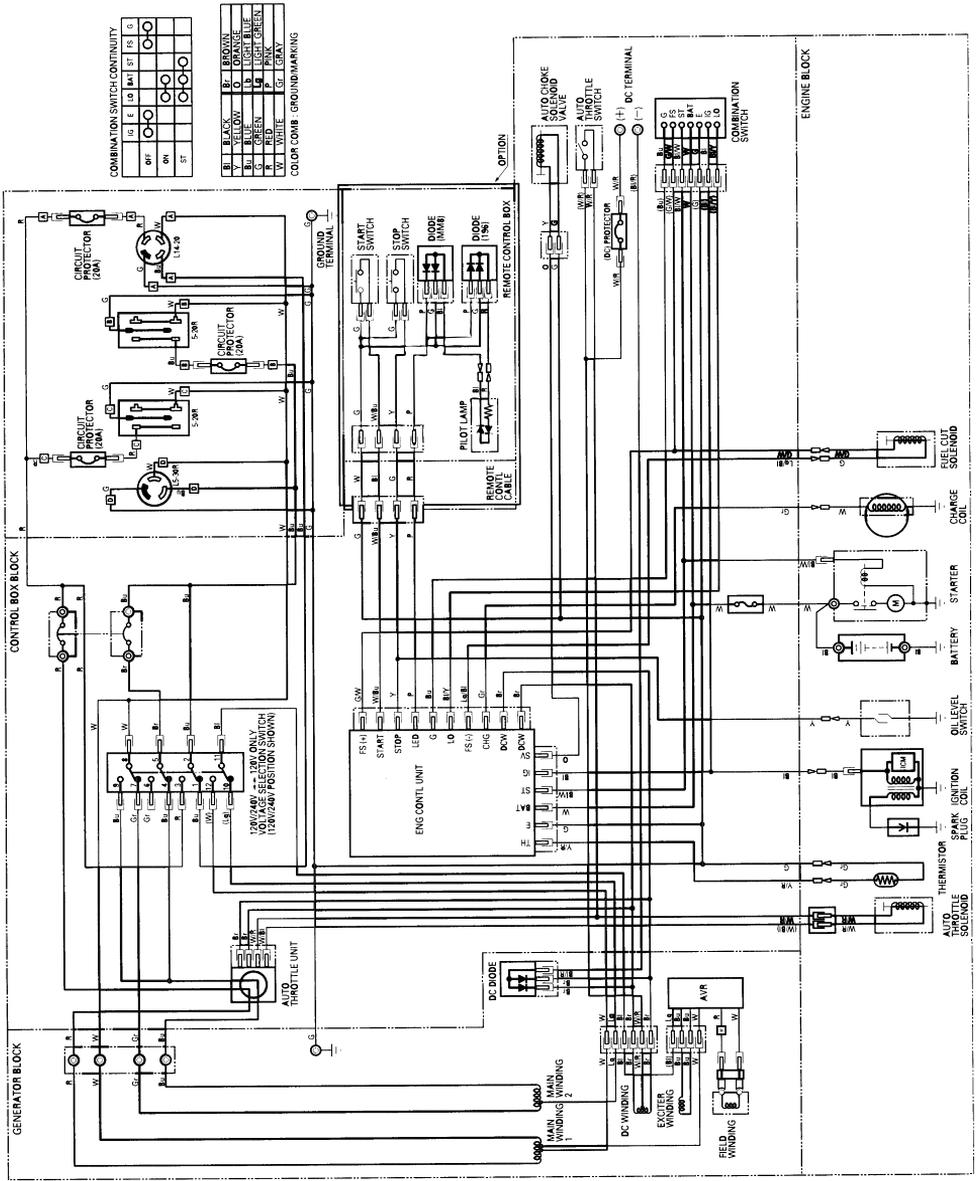
The bar graph is intended to provide you, our customer, the ability to compare the emissions performance of available engines. The lower the Air Index, the less pollution.

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 Emission 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)

# WIRING DIAGRAM

## EM3800SX





# SPECIFICATIONS

## Dimensions

Model	EM3800SX	
Type	California type (AC type)	Non-California type (AN type)
Description code	EAMC	
Length	40.9 in (1,040 mm)	
Width	27.2 in (691 mm)	
Height	28.4 in (721 mm)	
Dry mass [weight]	193.1 lbs (87.6 kg)	192.0 lbs (87.1 kg)

## Engine

Model	GX240	
Type	California type (AC type)	Non-California type (AN type)
Engine type	4-stroke, overhead valve, single cylinder	
Displacement [Bore × Stroke]	14.8 cu-in (242 cm <sup>3</sup> ) [2.9 × 2.3 in (73.0 × 58.0 mm)]	
Compression ratio	8.2 : 1	
Engine speed	3,600 rpm	
Cooling system	Forced air cooling	
Ignition system	Transistorized magneto	
Oil capacity	1.2 US qt (1.1 ℓ)	
Fuel tank capacity	6.21 US gal (23.5 ℓ)	
Spark plug	BPR5ES (NGK) , W16EPR-U (DENSO)	

## Generator

Model	EM3800SX	
AC output	Rated voltage	120/240 V
	Rated frequency	60 Hz
	Rated current	27.5/13.8 A
	Rated output	3.3 kVA
	Maximum output	3.8 kVA
DC output	Only for charging 12V automotive batteries. Maximum charging output = 8.3A	

## Tuneup Specifications

ITEM	SPECIFICATION	MAINTENANCE
Spark plug gap	0.028 – 0.031 in (0.7 – 0.8 mm)	Refer to page 41
Valve clearance	IN: 0.15 ± 0.02 mm (cold) EX: 0.20 ± 0.02 mm (cold)	See your authorized Honda dealer.
Other specifications	No other adjustments needed.	

Specifications may vary according to the types, and are subject to change without notice.

## Dimensions

Model	EM5000SX	
Type	California type (AC, ACH type)	Non-California type (AN, ANH type)
Description code	EANC	
Length	41.3 in (1,049 mm)	
Width	27.2 in (691 mm)	
Height	28.4 in (721 mm)	
Dry mass [weight]	222.9 lbs (101.1 kg)	221.8 lbs (100.6 kg)

## Engine

Model	GX340	
Type	California type (AC, ACH type)	Non-California type (AN, ANH type)
Engine type	4-stroke, overhead valve, single cylinder	
Displacement [Bore × Stroke]	20.6 cu-in (337 cm <sup>3</sup> ) [3.2 × 2.5 in (82.0 × 64.0 mm)]	
Compression ratio	8.0 : 1	
Engine speed	3,600 rpm	
Cooling system	Forced air cooling	
Ignition system	Transistorized magneto	
Oil capacity	1.2 US qt (1.1 ℓ)	
Fuel tank capacity	6.21 US gal (23.5 ℓ)	
Spark plug	BPR5ES (NGK) , W16EPR-U (DENSO)	

## Generator

Model	EM5000SX	
AC output	Rated voltage	120/240 V
	Rated frequency	60 Hz
	Rated current	37.5/18.8 A
	Rated output	4.5 kVA
	Maximum output	5.0 kVA
DC output	Only for charging 12V automotive batteries. Maximum charging output = 8.3A	

## Tuneup Specifications

ITEM	SPECIFICATION	MAINTENANCE
Spark plug gap	0.028 – 0.031 in (0.7 – 0.8 mm)	Refer to page 41
Valve clearance	IN: 0.15 ± 0.02 mm (cold) EX: 0.20 ± 0.02 mm (cold)	See your authorized Honda dealer.
Other specifications	No other adjustments needed.	

Specifications may vary according to the types, and are subject to change without notice.

## Dimensions

Model	EM6500SX	
Type	California type (AC, ACH type)	Non-California type (AN, ANH type)
Description code	EAPC	
Length	41.9 in (1,064 mm)	
Width	27.2 in (691 mm)	
Height	28.4 in (721 mm)	
Dry mass [weight]	228.4 lbs (103.6 kg)	227.3 lbs (103.1 kg)

## Engine

Model	GX390	
Type	California type (AC, ACH type)	Non-California type (AN, ANH type)
Engine type	4-stroke, overhead valve, single cylinder	
Displacement [Bore × Stroke]	23.7 cu-in (389 cm <sup>3</sup> ) [3.5 × 2.5 in (88.0 × 64.0 mm)]	
Compression ratio	8.0 : 1	
Engine speed	3,600 rpm	
Cooling system	Forced air cooling	
Ignition system	Transistorized magneto	
Oil capacity	1.2 US qt (1.1 ℓ)	
Fuel tank capacity	6.21 US gal (23.5 ℓ)	
Spark plug	BPR5ES (NGK) , W16EPR-U (DENSO)	

## Generator

Model	EM6500SX	
AC output	Rated voltage	120/240 V
	Rated frequency	60 Hz
	Rated current	45.8/22.9 A
	Rated output	5.5 kVA
	Maximum output	6.5 kVA
DC output	Only for charging 12V automotive batteries. Maximum charging output = 8.3A	

## Tuneup Specifications

ITEM	SPECIFICATION	MAINTENANCE
Spark plug gap	0.028 – 0.031 in (0.7 – 0.8 mm)	Refer to page 41
Valve clearance	IN: 0.15 ± 0.02 mm (cold) EX: 0.20 ± 0.02 mm (cold)	See your authorized Honda dealer.
Other specifications	No other adjustments needed.	

Specifications may vary according to the types, and are subject to change without notice.

## The Importance of Proper Assembly

Proper assembly is essential to operator safety and the reliability of the machine. Any error or oversight made by the person assembling and servicing a unit can easily result in faulty operation, damage to the machine, or injury to the operator.

### **▲WARNING**

**Improper assembly can cause an unsafe condition that can lead to serious injury or death.**

**Follow the procedures and precautions in the assembly instructions carefully.**

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

### **▲WARNING**

**Failure to properly follow instructions and precautions can cause you to be seriously hurt or killed.**

**Follow the procedures and precautions in this manual carefully.**

---

## Important Safety Precautions

- Make sure you have a clear understanding of all basic shop safety practices and that you are wearing appropriate clothing and safety equipment. When performing this assembly, be especially careful of the following:
  - Read the instructions before you begin, and be sure you have the tools and skills required to perform the tasks safely.
- Make sure the engine is off before you begin any maintenance or repairs. This will help eliminate several potential hazards:
  - Carbon monoxide poisoning from engine exhaust.**  
Operate outside away from open windows or doors.
  - Burns from hot parts.**  
Let the engine and exhaust system cool before touching.
  - Injury from moving parts.**  
Do not run the engine unless the instruction tells you to do so. Even then, keep your hands, fingers, and clothing away. Do not run the engine when any protective guard or shield is removed.
- To reduce the possibility of a fire or explosion, be careful when working around gasoline or batteries. Use only a non-flammable solvent, not gasoline, to clean parts. Keep all cigarettes, sparks, and flames away from all fuel-related parts.

## Unpacking

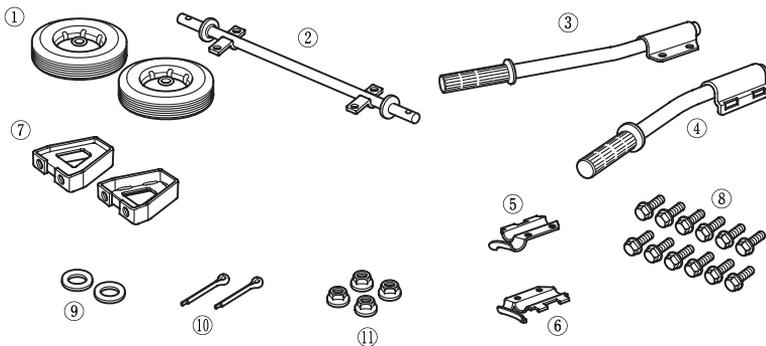
1. Remove the generator and loose parts box from the carton.
2. Compare the loose parts with the inventory list below.

*Tools Required:* 14 mm wrench (2), pliers

### Loose Parts (Wheel kit and handle)

Check all loose parts against the following list. Contact your dealer if any of the loose parts shown below are not included with your generator.

Ref. No.	Description	Qty.
1	Wheel	2
2	Axle	1
3	Left upper handle assy	1
4	Right upper handle assy	1
5	Left handle bracket	1
6	Right handle bracket	1
7	Stand	2
8	8×16 mm Flange bolt	12
9	20 mm Washer	2
10	4.0×30 mm Cotter pin	2
11	8 mm Flange nut	4

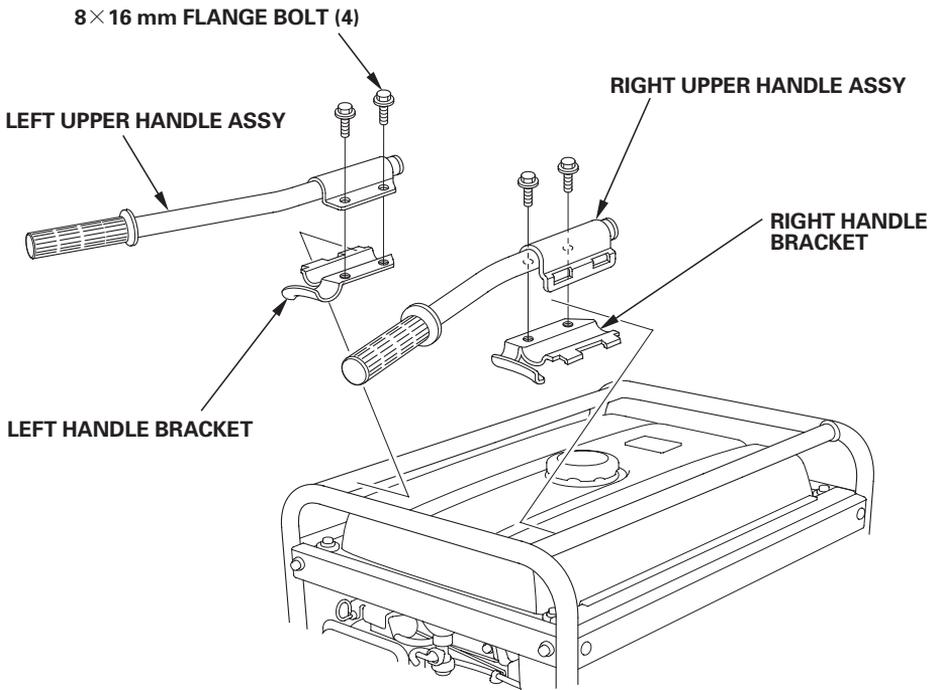


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## Handle Installation

Install the right and left handles on the generator upper frame using the brackets and 4 flange bolts.

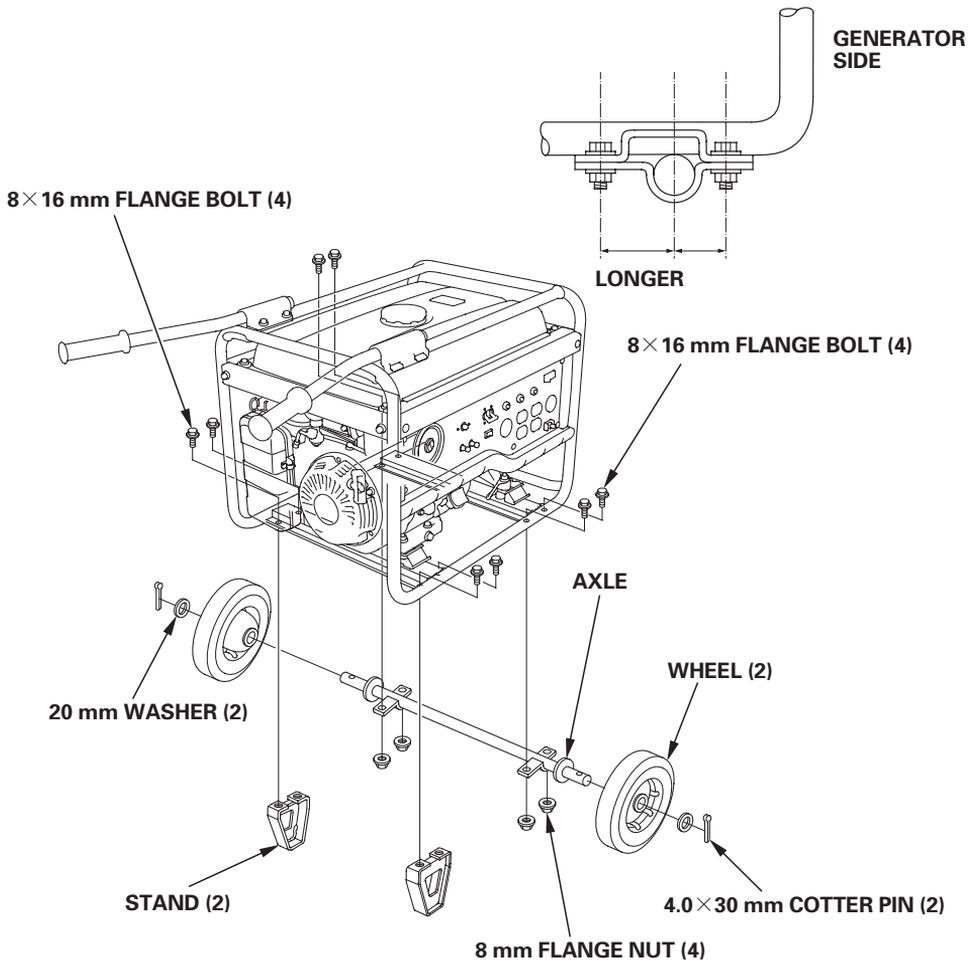
**TORQUE:** 17–22 lbf·ft (24–29 N·m , 2.4–3.0 kgf·m)



## Wheel Kit Installation

1. Install the two wheels on the axle shaft using the washers and cotter pins.
2. Install the axle assembly on the generator using four 8 × 16 mm flange bolts and 8 mm flange nuts.
3. Install the two stands on the under frame using four 8 × 16 mm flange bolts.

**TORQUE:** 17 – 22 lbf·ft (24 – 29 N·m , 2.4 – 3.0 kgf·m)

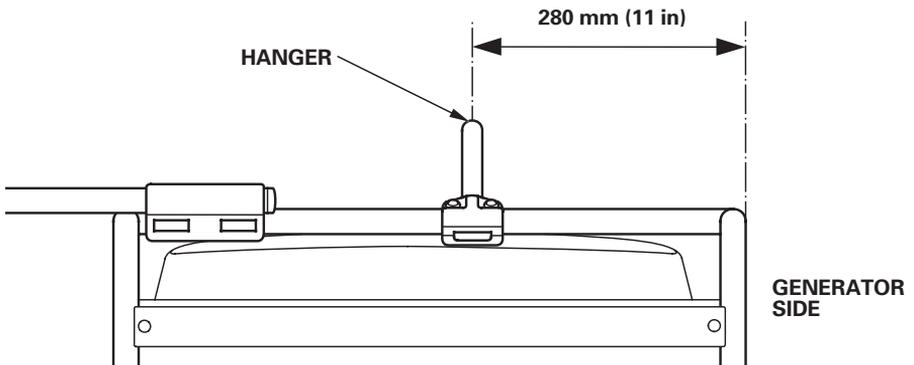
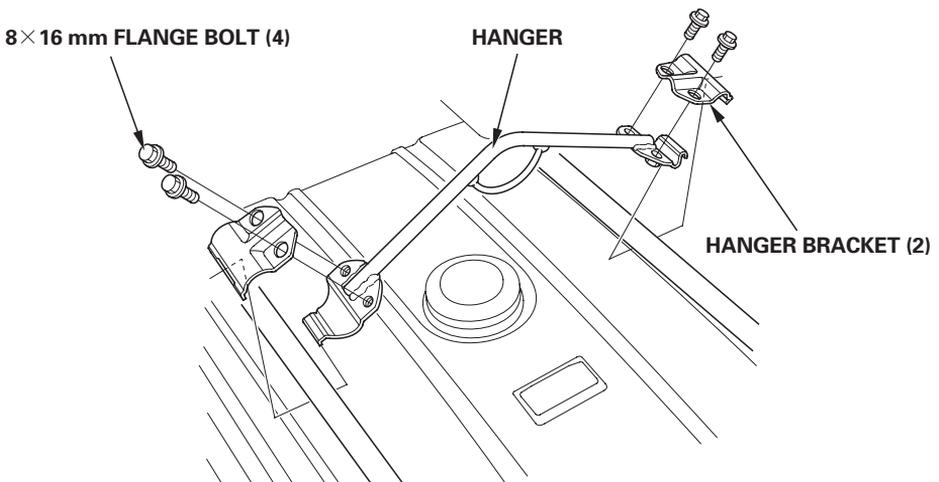


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## Hanger Kit Installation (optional)

1. Position the hanger at the generator's balance point as shown below.
2. Fit the end tabs of the hanger through the bracket slots, and bolt the brackets to the hanger and tighten securely.

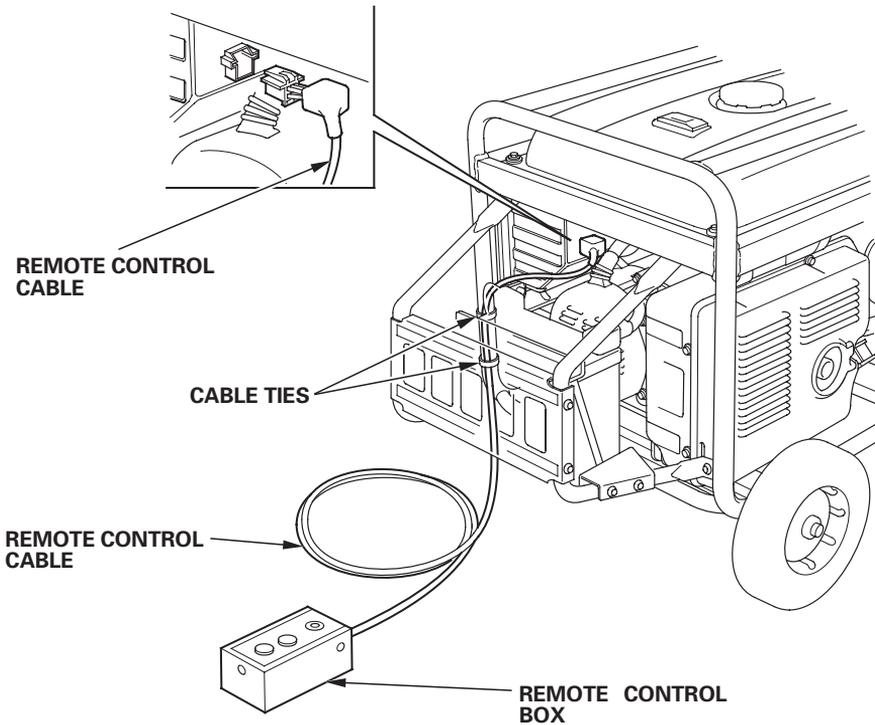
**TORQUE:** 17–22 lbf·ft (24–29 N·m , 2.4–3.0 kgf·m)



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## Remote Control Kit (optional)

1. Remove the blind 6-P connector from the back of the control panel.
2. Connect the remote control cable to the back of the control panel and remote control box.
3. Install the two cable ties as shown.

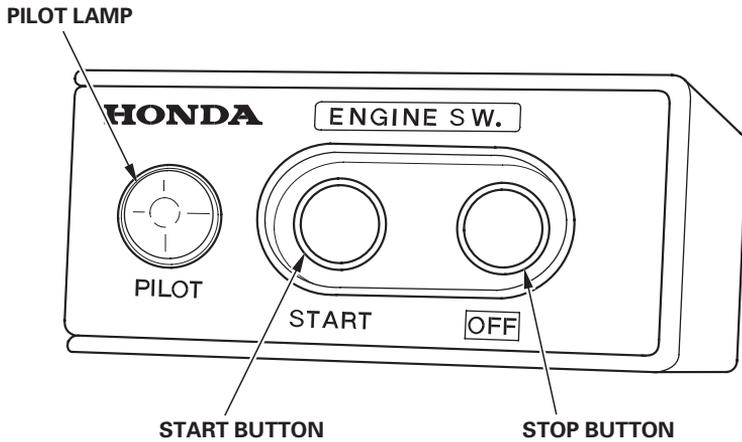


### NOTE:

- Connect the blind connector when not using the remote control.
- Engine will not start unless the blind connector is connected.

---

## Remote Control Box



### Starting the engine with remote control

1. Turn the fuel valve on the generator to the ON position.
2. Turn the Auto Throttle switch on the generator to the OFF position.
3. Turn the engine switch on the generator to the ON position.
4. Press the start button until engine starts and the pilot lamp comes on.

### Stopping the engine with remote control

1. Press the stop button.
2. Turn the engine switch on the generator to the OFF position.
3. Turn the fuel valve lever on the generator to the OFF position.

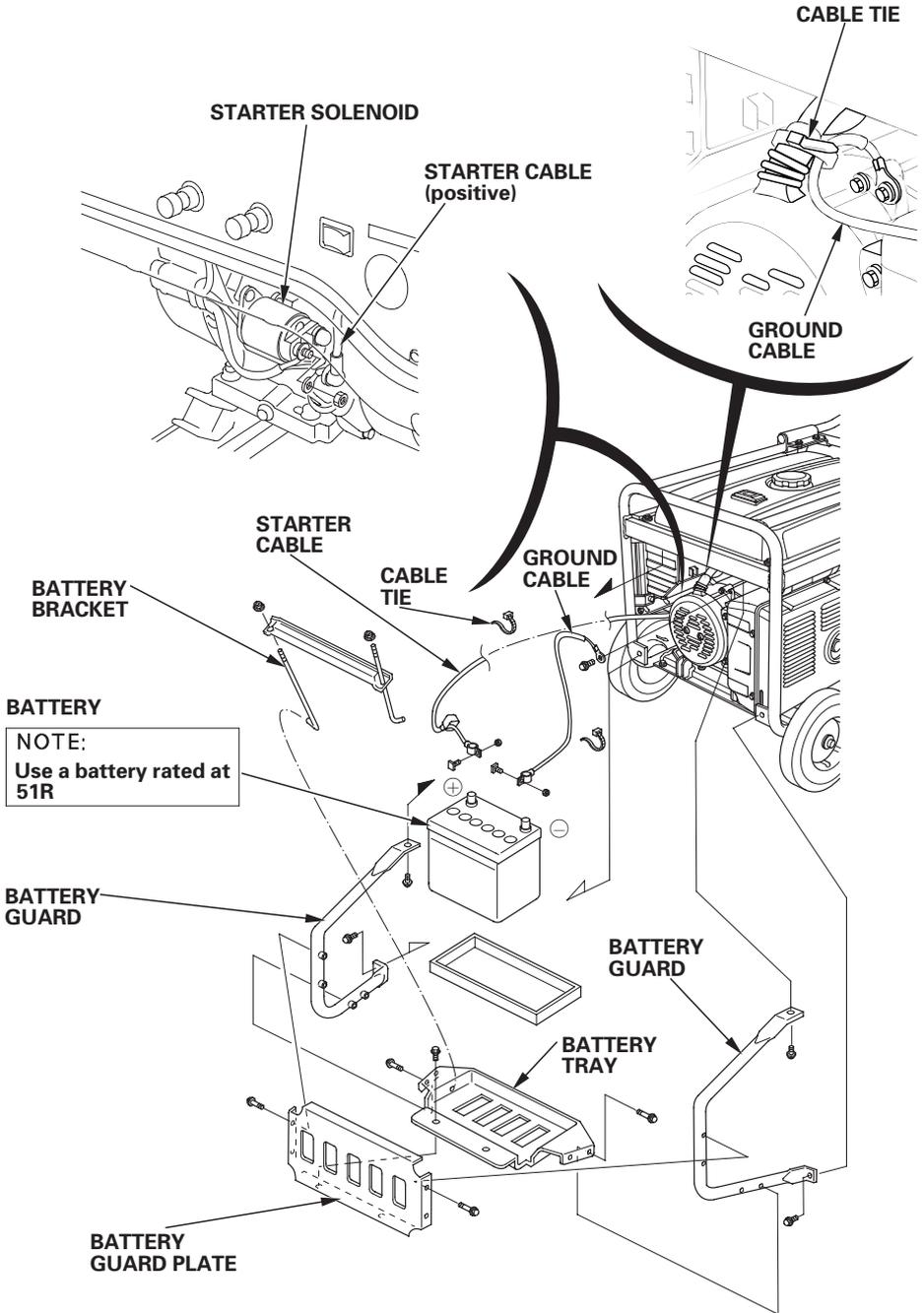
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## Battery Tray Kit (optional)

1. Follow the instructions that come with the battery tray kit and install the kit on the generator frame.
2. Route the starter cable under the tank and connect it to the starter solenoid.
3. Connect the ground cable to the generator rear housing.
4. Set the battery on the battery tray and secure with the battery bracket.  
Connect the starter cable to the battery positive (+) terminal first, then to the negative (−) terminal. When disconnecting, disconnect at the battery negative (−) terminal first.
5. Install the battery guard plate on the battery guards.

### **▲WARNING**

**Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.**



## Engine Oil

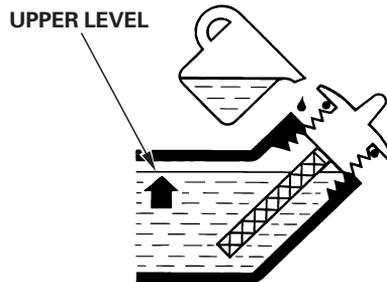
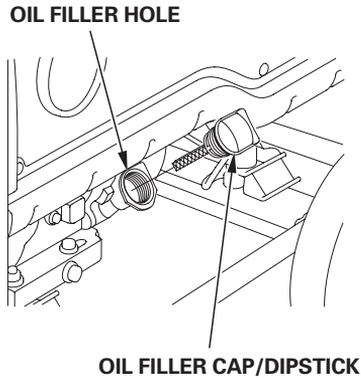
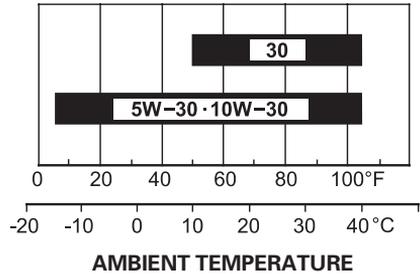
The generator is shipped **WITHOUT OIL** in the engine.

Place the generator on a level surface. Add enough of the recommended oil to bring the oil level to the top of the oil filler neck.

Use a 4-stroke motor oil that meets the requirements for API service category SJ or later (or equivalent).

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

Do not overfill the engine with oil. If the engine is overfilled, the excess oil may get transferred to the air cleaner housing and air filter.



## Fuel

Refer to page 31 .

---

## **BEFORE OPERATION**

Before using your generator, you should become familiar with information contained in the following chapters and sections:

- **GENERATOR SAFETY** (page 5 )
- **CONTROLS** (page 10)
- **GENERATOR USE** (page 17)
- **STARTING THE ENGINE** (page 33)
- **STOPPING THE ENGINE** (page 33)

# WARRANTY SERVICE INFORMATION

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## DEALER LOCATOR INFORMATION

To find an authorized Honda Servicing Dealer anywhere in the United States:

Visit our website:

[www.hondapowerequipment.com](http://www.hondapowerequipment.com)

## CUSTOMER SERVICE INFORMATION

Servicing dealership personnel are trained professionals. They should be able to answer most questions 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 or General Manager can help. Almost all problems are solved in this way.

If you are dissatisfied with the decision made by the dealership's management, contact the Honda Power Equipment Customer Relations Office. You can write to:

American Honda Motor Co., Inc.  
Power Equipment Division  
Customer Relations Office  
4900 Marconi Drive  
Alpharetta, Georgia 30005-8847

Or telephone: (770) 497-6400 8:30 am to 7:00 pm ET

When you write or call, please give us this information:

- Model and serial number (see pages 8 and 9 )
- Name of dealer who sold the generator to you
- Name and address of dealer who services your generator
- Date of purchase
- Your name, address, and telephone number
- A detailed description of the problem

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## **Honda PUBLICATIONS**

### ***Shop Manual***

This manual covers complete maintenance and overhaul procedures. It is intended to be used by a skilled technician.

Available through your Honda dealer or through Helm Inc. at 1 888-292-5395 or visit [www.hondapowerequipment.com](http://www.hondapowerequipment.com)

### ***Parts Catalog***

This manual provides complete, illustrated parts lists. Available through your Honda dealer.

### ***Accessories Catalog***

Your authorized Honda power equipment dealer offers a wide selection of accessories (optional equipment) to make your generator even more useful.

Visit [www.hondapowerequipment.com](http://www.hondapowerequipment.com)

and click on Generators and Welders to see the entire catalog of accessories.

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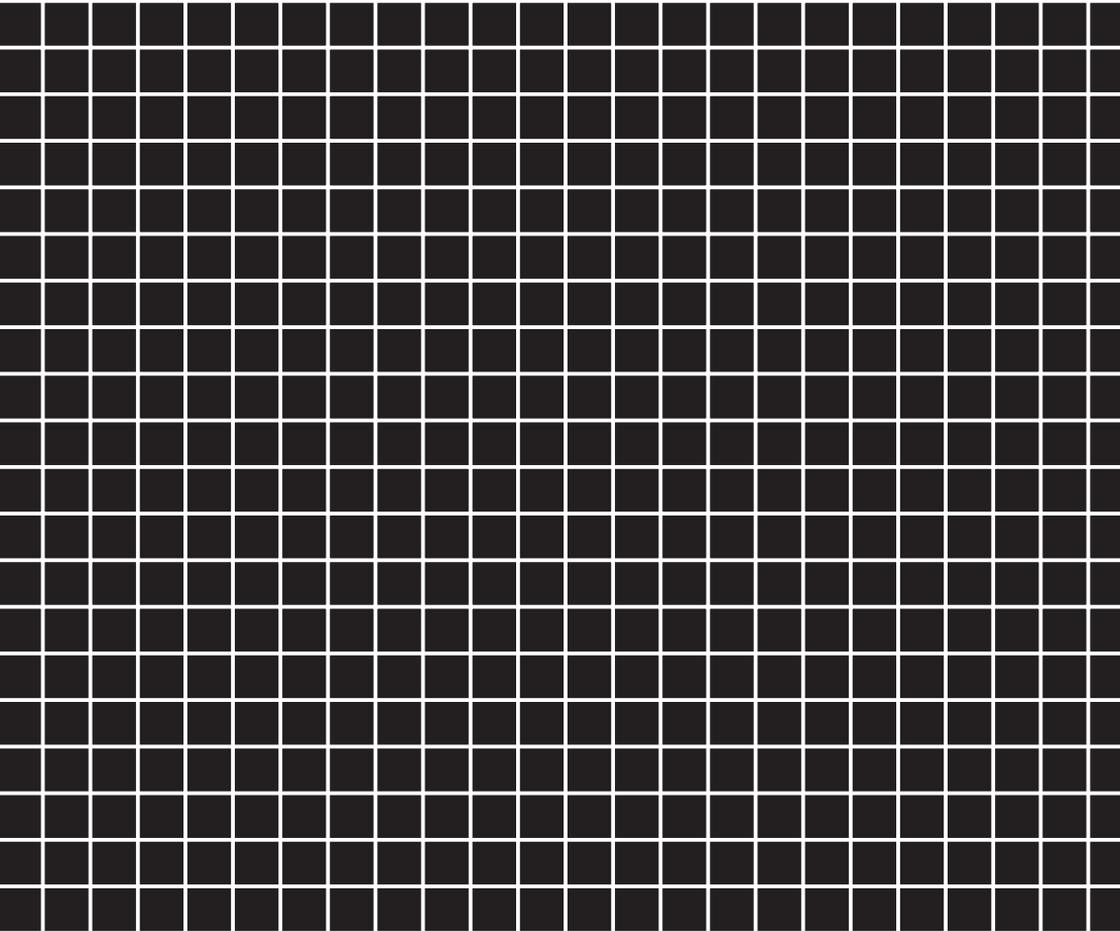
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# HONDA

The Power of Dreams



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