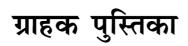
Honda EU70is

OWNER'S MANUAL



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 Siel Power products Ltd. reserves the right, however, to discontinue or change specifications or design at any time without notice and without incurring any obligation whatsoever.

| Honda Selling Dealer | |
|----------------------|--|
| Name : | |
| Address : | |
| Tel. No. : | |

INTRODUCTION

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 all 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.

When your generator needs scheduled maintenance, keep in mind that your authorized 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.

We welcome your valuable suggestions & feedback. Kindly send your feedback to Marketing Manager, Honda Siel Power Products Limited, Phone No. 0120-2341050-59, Fax 0120-2341078-79, e-mail: ho.mktg@hspp.com

Best Wishes, Honda Siel Power Products Ltd.

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:



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 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.

CONTENTS

| GENERATOR SAFETY | 6 |
|--------------------------------|----|
| IMPORTANT SAFETY INFORMATION | 6 |
| Operator Responsibility | 6 |
| Carbon Monoxide Hazards | 6 |
| Electric Shock Hazards | 7 |
| Fire and Burn Hazards | 7 |
| Refuel With Care | |
| SAFETY LABEL LOCATIONS | 8 |
| CONTROLS & FEATURES | 11 |
| COMPONENT & CONTROL LOCATIONS | 11 |
| CONTROLS | 13 |
| MAIN Switch | 13 |
| ENGINE START Button | 13 |
| Starter Grip | |
| Eco-Throttle Switch | 14 |
| Folding Handle | |
| Maintenance Covers | |
| FEATURES | |
| Ground Terminal | |
| OUTPUT Indicator | |
| OVERLOAD ALARM Indicator | |
| OIL ALERT/CHECK Indicator | |
| i-Monitor | |
| Fuel Gauge | |
| BEFORE OPERATION | |
| ARE YOU READY TO GET STARTED? | |
| Knowledge | |
| IS YOUR GENERATOR READY TO GO? | |
| Check the Engine | |
| Battery Maintenance Cover | 25 |
| OPERATION | |
| SAFE OPERATING PRECAUTIONS | |
| STARTING THE ENGINE | 27 |
| STOPPING THE ENGINE | |
| | |

| AC OPERATION AC Applications ECO-THROTTLE SYSTEM STANDBY POWER Connections to a Building's Electrical System System Ground Special Requirements | 33 34 35 35 35 |
|---|----------------------------|
| SERVICING YOUR GENERATOR | . 37 |
| THE IMPORTANCE OF MAINTENANCE | . 37 |
| MAINTENANCE SAFETY | . 38 |
| Safety Precautions | . 38 |
| MAINTENANCE SCHEDULE | . 39 |
| REFUELING | |
| FUEL RECOMMENDATIONS | |
| ENGINE OIL LEVEL CHECK | |
| ENGINE OIL CHANGE | |
| ENGINE OIL RECOMMENDATIONS | |
| AIR CLEANER SERVICE | .45 |
| FOAM AIR FILTER CLEANING | |
| SPARK PLUG SERVICE | |
| SPARK ARRESTER SERVICE | - |
| BATTERY SERVICE | |
| FUSE | . 54 |
| STORAGE | . 55 |
| STORAGE PREPARATION | . 55 |
| Cleaning | . 55 |
| Fuel | . 55 |
| Engine Oil | |
| Battery | |
| STORAGE PRECAUTIONS | |
| REMOVAL FROM STORAGE | . 58 |
| TRANSPORTING | БQ |
| | . 53 |

CONTENTS

| TAKING CARE OF UNEXPECTED PROBLEMS | 61 |
|------------------------------------|----|
| ENGINE WILL NOT START | 61 |
| ENGINE LACKS POWER | |
| NO POWER AT THE AC RECEPTACLES | |
| | 60 |
| TECHNICAL INFORMATION | |
| Serial Number Location | |
| Specifications | 64 |
| ASSEMBLY | 65 |
| SAFETY | |
| The Importance of Proper Assembly | |
| Important Safety Precautions | |
| | |
| ASSEMBLY | |
| Unpacking | |
| Loose Parts | |
| Wheel Kit Installation | |
| Battery | 69 |
| Engine Oil | |
| Fuel | |
| Battery Voltage | |
| BEFORE OPERATION | |
| | |

GENERATOR SAFETY

IMPORTANT SAFETY INFORMATION

Honda generators are designed for use with electrical equipment that has suitable power requirements. Other uses can result in injury to the operator or damage to the generator and other property. Most injuries or property damage can be prevented if you follow all instructions in this manual and on the generator. The most common hazards are discussed below, along with the best way to protect yourself and others.

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

A generator's exhaust contains toxic carbon monoxide, which you cannot see or smell. Breathing carbon monoxide can KILL YOU IN MINUTES. To avoid carbon monoxide poisoning, follow these instructions when operating a generator:

- Only run a generator OUTSIDE, far away from windows, doors, and vents.
- Never operate a generator inside a house, garage, basement, crawl space, or any enclosed or partially enclosed space.
- Never operate a generator near open doors or windows.
- Get fresh air and seek medical attention immediately if you suspect you have inhaled carbon monoxide.

Early symptoms of carbon monoxide exposure include headache, fatigue, shortness of breath, nausea, and dizziness. Continued exposure to carbon monoxide can cause loss of muscular coordination, loss of consciousness, and then death.

Electric Shock Hazards

- The generator produces enough electric power to cause a serious shock or electrocution if misused.
- Do not use in wet conditions. Keep the generator dry.
 - Do not use in the rain or snow.
 - Do not use near a pool or a sprinkler system.
 - Do not use when your hands are wet.
- 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/change over 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 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.

Refuel With Care

Petrol is extremely flammable, and petrol vapor can explode. Allow the engine to cool if the generator has been in operation.

Refuel only outdoors in a well-ventilated area with the engine off. Do not refuel during operation.

Do not overfill the fuel tank.

Never smoke near petrol, and keep other flames and sparks away. Always store petrol in an approved container.

Make sure that any spilled fuel has been wiped up before starting the engine.

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 authorized Honda servicing dealer for a replacement.





 Honda generator is designed to give safe and dependable service if operated according to instructions.

Read and understand the Owner's Manual before operating the generator. Failure to do so could result in personal injury or equipment damage.

• Exhaust contains poisonous carbon monoxide, a colorless, odorless gas. Breathing carbon monoxide can cause loss of consciousness and may lead to death.

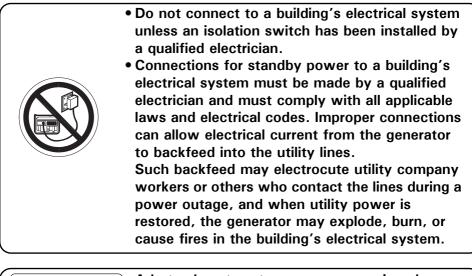


- If you run the generator in an area that is confined, or even partially enclosed area, the air you breathe could contain a dangerous amount of exhaust gas.
- Never run your generator inside a garage, house or near open windows or doors.



• Petrol is highly flammable and explosive. Turn the engine off and let it cool before refueling.

GENERATOR SAFETY



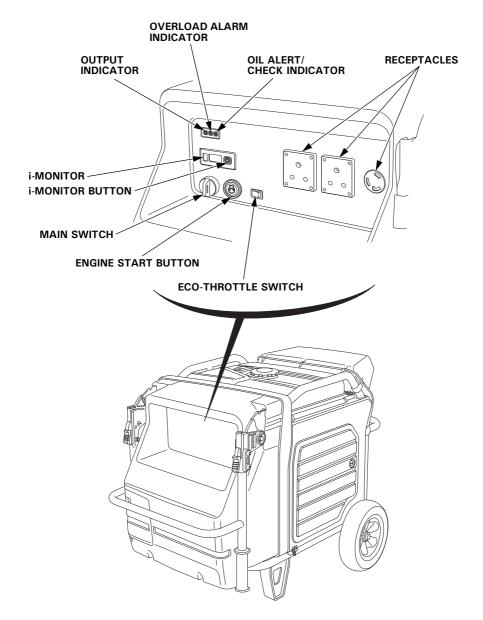


• A hot exhaust system can cause serious burns. Avoid contact if the engine has been running.

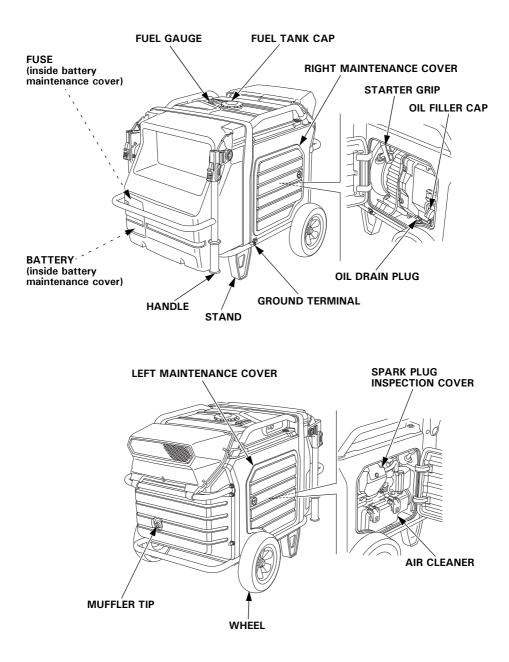
CONTROLS & FEATURES

COMPONENT & CONTROL LOCATIONS

Use the illustrations on these pages to locate and identify the most frequently used controls.



CONTROL & FEATURES



CONTROLS

MAIN Switch

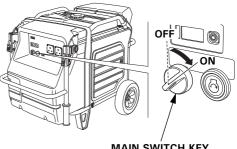
The MAIN switch controls the ignition system.

OFF - Stops the engine. The main switch key can be removed/ inserted.

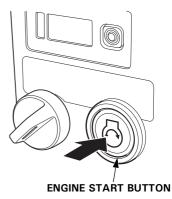
ON - Running position, and for starting with the ENGINE START button or recoil starter.

ENGINE START Button

With the MAIN switch in the ON position, press and release the ENGINE START button to start the engine.







Starter Grip

Used when the battery voltage is too low to turn the starter motor. Pulling the starter grip operates the recoil starter to start the engine.

NOTICE

- Do not exceed 20 degrees from horizontal when pulling the starter grip.
- Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.
- Do not let the starter rope rub against the generator body, or the rope will wear out prematurely.

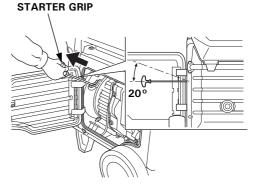
Eco-Throttle Switch

The Eco-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 proper speed to power the electrical load.

If high electrical loads are connected simultaneously, turn the Eco-Throttle switch to the OFF position to reduce voltage changes.

ON – Recommended to minimize fuel consumption and further reduce noise levels when a reduced load or no load is applied to the generator.

OFF – The Eco-Throttle system does not operate. Generator operates at full speed.



ECO-THROTTLE SWITCH





Folding Handle

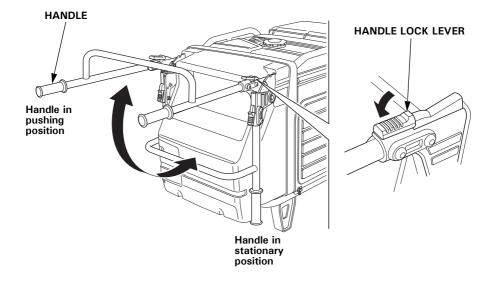
The foldable handle makes the generator easy to push and should be folded when the generator is stationary. Do not rest objects on the extended handle.

To Extend The Handle

Lift handle upward. Lock levers will lock and secure the handle into place.

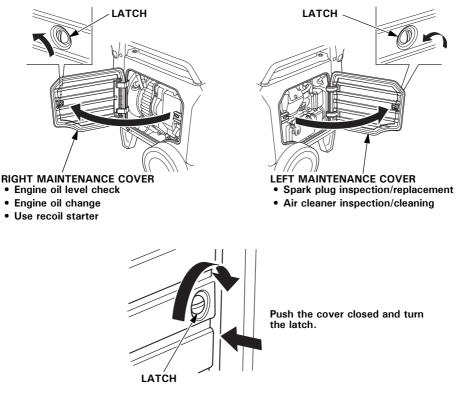
To Fold The Handle

- 1. Press both handle lock levers downward.
- 2. Lower the handle.



Maintenance Covers

Maintenance cover location.



Be sure the maintenance covers are closed while the generator is running.

NOTICE

Running the generator with maintenance cover(s) open will adversely affect the engine performance, and will cause the generator to overheat.

To open:

Turn the latch 90° counterclockwise.

To close:

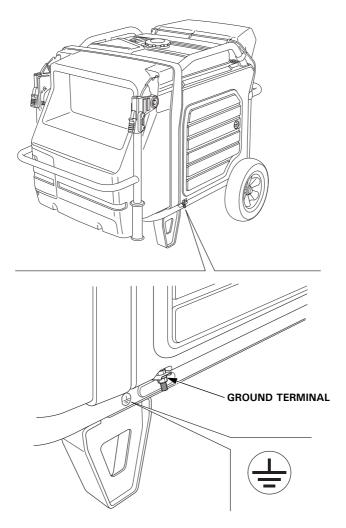
Turn the latch 90° clockwise to lock while pushing the cover.

FEATURES

Ground Terminal

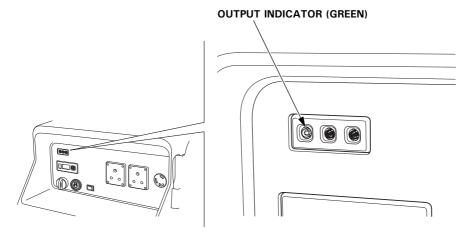
The ground terminal is connected to the frame of the generator, the metal non-current-carrying parts of the generator, and the ground terminals of each receptacle.

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.



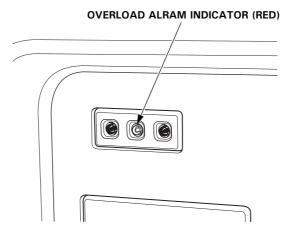
OUTPUT Indicator

The green OUTPUT indicator is illuminated when the generator is operating normally. It indicates that the generator is producing electrical power at the receptacles.



OVERLOAD ALARM Indicator

If the generator is overloaded, or if there is a short circuit in a connected appliance, or if the inverter is overheated, the red OVERLOAD ALARM indicator will go ON. When the generator is operating overloaded, the red OVERLOAD ALARM indicator will stay ON and, after about five seconds, current to the connected appliance(s) will shut off, and the green OUTPUT indicator will go OFF.



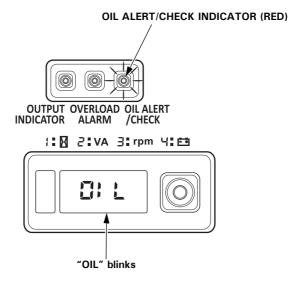
OIL ALERT/CHECK Indicator

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/CHECK indicator comes ON, and the Oil Alert system will automatically stop the engine (the MAIN switch will remain in the ON position).

The i-Monitor display will blink ''OIL'' on the screen and the OIL ALERT/CHECK indicator will illuminate.

If the engine stops or the OIL ALERT/CHECK indicator comes ON when you press the ENGINE START button or pull the starter grip, check the engine oil level (see page 42) before troubleshooting in other areas. Even when oil is added to the engine, the generator will not restart until the OIL ALERT/CHECK indicator is reset. To reset the OIL ALERT/ CHECK indicator, turn the MAIN switch to the OFF position, add the proper amount of oil (see page 42), and then turn the MAIN switch back to the ON position.

If the OIL ALERT/CHECK indicator blinks, consult an authorized Honda generator dealer.



i-Monitor

The i-Monitor is a user interface that allows the operator to view (when the generator is running) total operating time in hours, generator output, engine RPM, battery voltage, and error messages. The different display modes are selected by pressing the i-Monitor button.

i-Monitor at Startup

During start up, the i-Monitor display and all three indicators will simultaneously blink once. The condition of the i-Monitor display and all three indicators can be checked. Once the generator is running, the green OUTPUT indicator and the i-Monitor display will remain lit.

Display Backlight Flashes

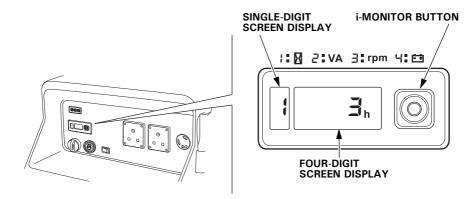
If the key is left in the ON position for over 30 seconds without starting the engine, the display will start to flash.

i-Monitor Display

The i-Monitor display is divided into two screens. The single-digit screen displays the i-Monitor mode, which is represented by a number 1 through 4. The four-digit screen displays the four mode values or any activated error messages.

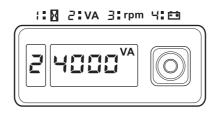
i-Monitor Display Mode 1 – Total Operating Hours

This mode displays the total operating hours of the generator. When the generator is running, the total operating time accumulates. If the total operating time is less than one hour, the numeric display will be "0." When the operating time is one hour or greater, the display will be "1" or "2" and so on. Base the generator's maintenance schedule on the accumulated time displayed.



i-Monitor Display Mode 2 - Power Output

This mode displays an approximate generator output on the display screen. The output is expressed in VA (volt-amperes). The output value is not an exact measurement and should be regarded as a reference only. Power output will not display until a load is connected to the generator.



i-Monitor Display Mode 3 – Engine RPM

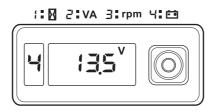
When the i-Monitor is in this mode, the engine's speed, expressed in revolutions-per-minute (RPM), is displayed.

/:⊠ 2:VA 3:rpm 4:€3



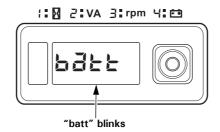
i-Monitor Display Mode 4 - Battery Voltage

This mode displays the battery condition, expressed in Volts DC.



i-Monitor Low Battery Message

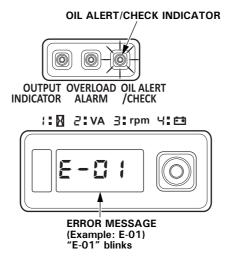
If the ENGINE START button is pressed and "batt" is blinked on the i-Monitor display, the battery voltage is too low to operate the engine's electric starter. Use the recoil starter to start the generator. Have the battery recharged and checked (see page 53).



i-Monitor System Error Messages

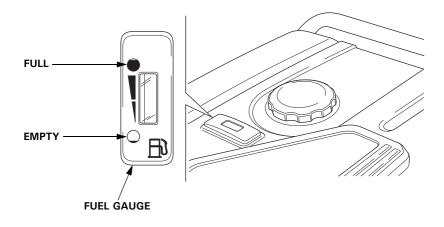
If the generator has a system malfunction, it will blink an error message on the i-Monitor display. During operation, an E-01 error message may display if the ENGINE START button is pressed for more than 10 seconds. With an E-01 error message, the engine will stay running and the electrical output may stay constant.

Normal operation will be restored after the E-01 error message clears automatically. If the E-01 error message does not clear automatically or if any other error message displays, contact an authorized Honda generator dealer.



Fuel Gauge

The fuel gauge is a mechanical device that measures the fuel level in the tank. The red indicator in the window will reference the level in relation to full or empty. To provide increased operating time, start with a full tank before operation. Check the fuel level with the generator on a level surface. Always refuel with the engine OFF and cool.



BEFORE OPERATION

ARE YOU READY TO GET STARTED?

Your safety is your responsibility. A little time spent in preparation will significantly reduce your risk of injury.

Knowledge

Read and understand this manual. Know what the controls do and how to operate them.

Familiarize yourself with the generator and its operation before you begin using it. Know how to quickly shut off the generator in case of an emergency.

If the generator is being used to power appliances, be sure that they do not exceed the generator's load rating (see page 33).

IS YOUR GENERATOR 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 generator to check its condition. Be sure to take care of any problem you find, or have your authorized Honda servicing dealer correct it, before you operate the generator.

AWARNING

Improperly maintaining this generator, or failing to correct a problem before operation, could cause a malfunction in which you could be seriously injured.

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

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

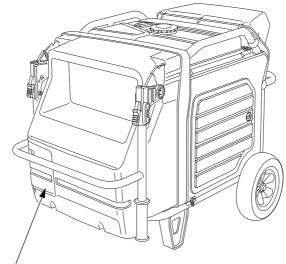
Before beginning your pre-operation checks, be sure the generator is on a level and firm surface and the MAIN switch is in the OFF position.

Check the Engine

- Before each use, look around and underneath the engine for signs of oil or petrol leaks.
- Check the engine oil level (see page 42). A low engine oil level will cause the Oil Alert system to shut down the engine.
- Check the air filters (see page 45). Dirty air filters will restrict air flow to the fuel system, reducing engine and generator performance.
- Check the fuel level (see page 40). Starting with a full tank will help to eliminate or reduce operating interruptions for refueling.

Battery Maintenance Cover

Never operate the generator with the battery maintenance cover open, as poor engine and generator performance will result.



BATTERY MAINTENANCE COVER

OPERATION

SAFE OPERATING PRECAUTIONS

Before operating the generator for the first time, review chapters *GENERATOR SAFETY* (see page 6) and *BEFORE OPERATION* (see page 24).

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.

AWARNING

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.

Before connecting an AC appliance or power cord to the generator:

- Use grounded 3-prong extension cords, tools, and appliances, or double-insulated tools and appliances.
- Inspect cords and plugs, and replace if damaged.
- Make sure that the appliance is in good working order. Faulty appliances or power cords can create a potential for electric shock.
- Make sure the electrical rating of the tool or appliance does not exceed the rated power of the generator or the receptacle being used.
- Operate the generator at least 1 meter away from buildings and other equipment.
- Do not operate the generator in an enclosed structure.
- Do not place flammable objects close to the engine.

Frequency of Use

If your generator will be used on an infrequent or intermittent basis, (more than 4 weeks before next use), please refer to the Battery Service section of the *SERVICING YOUR GENERATOR* (see page 50) and the Fuel section of the *STORAGE* chapter (see page 55) for additional information regarding battery and fuel deterioration.

STARTING THE ENGINE

To prevent a possible fire, keep the generator at least 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 1 meter from a building or other obstruction can cause overheating and damage the generator.
- For proper cooling, allow at least 1 meter of empty space above and around the generator.

Keep all cooling holes open and clear of debris, mud, water, etc. Cooling holes are located on the control panel and the bottom of the generator. If the cooling holes are blocked, the generator may overheat and damage the engine, inverter, or windings.

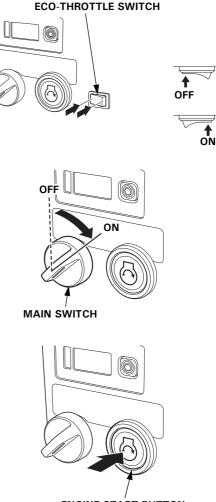
Refer to *SAFE OPERATING PRECAUTIONS* on page 26 and perform the *IS YOUR GENERATOR READY TO GO?* checks (see page 24).

Refer to *AC OPERATION* (see page 31) for connecting loads to the generator.

1. Make sure that all appliances are disconnected from the AC receptacles.

- Make sure the Eco-Throttle switch is in the OFF position, or more time will be required for warm-up.
 If you wish to use the Eco-Throttle system, turn the Eco-Throttle switch to the ON position after the engine has warmed up for 2 or 3 minutes.
- 3. Turn the MAIN switch to the ON position.
- 4. Press and release the ENGINE START button.
 The ENGINE START button functions for 5 seconds. As soon as the engine starts, the starter will stop automatically.

If the engine fails to start, wait at least 10 seconds before operating the starter again.



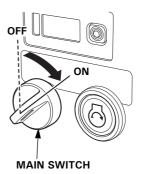
ENGINE START BUTTON

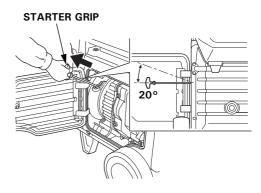
Do not leave the MAIN switch in the ON position when the generator is not operating or the battery will be drained. Turn the MAIN switch to the OFF position when not in use.

- Use the recoil starter when the battery voltage is too low to turn the starter motor.
 - a. Turn the MAIN switch to the ON position.
 - b. Open the right maintenance cover by turning its latch counterclockwise.
 - c. Pull the starter grip lightly until you feel resistance; then pull briskly in the direction of the arrow as shown.

NOTICE

- Do not exceed 20 degrees from horizontal when pulling the starter grip.
- Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.
- Do not let the starter rope rub against the generator body, or the rope will wear out prematurely.
- d. Close the right maintenance cover by turning its latch clockwise.
- 5. If you wish to use the Eco-Throttle system, turn the Eco-Throttle switch to the ON position after the engine has warmed up for 2 or 3 minutes.







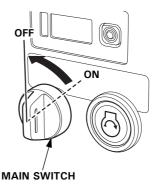


STOPPING THE ENGINE

To stop the engine in an emergency, simply turn the MAIN switch to the OFF position.

Under normal conditions, use the following procedure.

1. Turn the MAIN switch to the OFF position.



2. Unplug all appliances from the generator AC receptacles.

AC OPERATION

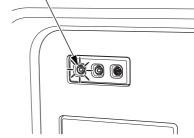
If an appliance begins to operate abnormally, becomes sluggish, or stops suddenly, turn it off immediately. Disconnect the appliance, and determine whether the problem is in the appliance or the rated load capacity of the generator has been exceeded.

NOTICE

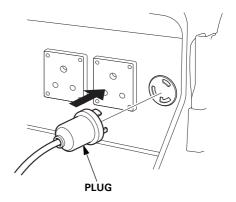
Substantial overloading that continuously lights the red OVERLOAD ALARM indicator may damage the generator. Marginal overloading that temporarily lights the red OVERLOAD ALARM indicator may shorten the service life of the generator.

1. Start the engine and make sure the green OUTPUT indicator comes on.





2. Plug in the appliance. Most motorized appliances require more than their rated wattage for startup.



If the generator is overloaded, or if there is a short circuit in a connected appliance, or if the inverter is overheated, the red OVERLOAD ALARM indicator will come ON. The red OVERLOAD ALARM indicator will stay ON and, after about five seconds, current to the connected appliance(s) will shut off, and the green OUTPUT indicator will go OFF. Stop the engine and investigate the problem.

Determine if the cause is a short circuit in a connected appliance, an overload, or an overheated inverter. Correct the problem and restart the generator.

Before connecting an appliance to the generator, make sure that it is in good order and that its electrical rating does not exceed that of the generator. Then start the generator and connect the appliance power cord.

When an electric motor is started, the red OVERLOAD ALARM indicator may come on. This is normal if the red OVERLOAD ALARM indicator goes OFF after about five seconds. If the red OVERLOAD ALARM indicator stays ON, consult an authorized Honda generator dealer.

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.

Most appliance motors require more than their rated wattage for startup.

Make sure the electrical rating of the tool or appliance does not exceed the maximum power rating of the generator.

Maximum power is:

7.0 kVA

For continuous operation, do not exceed the rated power. Rated power is:

5.5 kVA

In either case, 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.

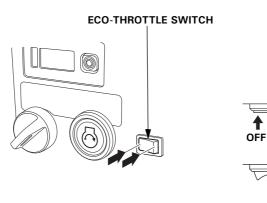
ECO-THROTTLE SYSTEM

With the switch in the ON position, engine speed is automatically lowered when loads are reduced, turned off, or disconnected. When appliances are turned on or reconnected, the engine returns to the proper speed to power the electrical load. In the OFF position, the Eco-Throttle system does not operate.

Appliances with large start-up power demands may not allow the engine to reach normal operating rpm when they are connected to the generator. Turn the Eco-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.

If high electrical loads are connected simultaneously, turn the Eco-Throttle switch to the OFF position to reduce voltage changes.

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



ON

STANDBY POWER

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.

AWARNING

Improper connections to a building's electrical system can allow 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 prior to making any power connections.

In some areas, generators are required by law to be registered with local utility companies. Check local regulations for proper registration and use procedures.

System Ground

This generator has a system ground that connects generator frame components to ground terminals in the AC output receptacles. The system ground is not connected to the AC neutral wire.

Special Requirements

NOTICE

Keep all cooling holes open and clear of debris, mud, water, etc. Cooling holes are located on the control panel side of the generator. If the cooling holes are blocked, the generator may overheat and damage the engine, inverter, or windings.

NOTICE

Do not lay the generator on its side when moving, storing, or operating it. Oil may leak and damage the engine or your property.

There may be applicable laws, 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.
- If the generator is used at a construction site, there may be additional regulations that must be observed.

SERVICING YOUR GENERATOR

THE IMPORTANCE OF MAINTENANCE

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

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 unusual conditions, such as sustained high-load or high-temperature operation, or use it in dusty conditions, consult your authorized Honda servicing dealer for recommendations applicable to your individual needs and use.

AWARNING

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.

Remember that an authorized Honda 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 and replacement.

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.

AWARNING

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 petrol. Use only a non-flammable solvent, not petrol, to clean parts. Keep cigarettes, sparks, and flames away from all fuel-related parts.

MAINTENANCE SCHEDULE

| REGULAR SERVICE PERIOD (3) ITEM Perform at every indicated month or operating hour interval, whichever comes first. | | Each use | First month or 20 hrs. | Every 3 months or 50 hrs. | Every 6 months or 100 hrs. | Every year or 300 hrs. | Page |
|---|--------------|--|---------------------------------|------------------------------------|-------------------------------------|---------------------------------|------|
| Engine oil | Check level | 0 | | | | | 42 |
| | Change | | 0 | | 0 | | 43 |
| Air cleaner | Check | 0 | | | | | 45 |
| | Clean | | | o (1) | | | 46 |
| | Replace | | | | | o (*) | 45 |
| Spark plug | Check-adjust | | | | 0 | | 47 |
| | Replace | | | | | 0 | 47 |
| Spark arrester | Clean | | | | 0 | | 49 |
| Valve clearance | Check-adjust | | | | | o (2) | — |
| Combustion | Clean | After every 1,000 hrs. (2) | | | _ | | |
| chamber | | | | | | | |
| Fuel tank | Clean | Every 2 years or 1,000 hrs. (2) | | — | | | |
| Fuel filter | Change | Every 2 years or 1,000 hrs. (2) (4) | | | — | | |
| Fuel tube | Check | Every 2 years (Replace if necessary) (2) (4) | | — | | | |

NOTE:

(*) Replace the paper air filter only.

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

(2) These items should be serviced by your authorized Honda servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures.

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

(4) In the event of cracks or fracture in the fuel filter grommet and regulator grommet, replace the part with a new one.

This generator is equipped with a catalytic converter. If the engine is not properly maintained, the catalyst in the muffler may lose effectiveness.

REFUELING

With the engine stopped, remove the fuel tank cap and check the fuel level.

Refill the fuel tank if the fuel level is low.

AWARNING

Petrol is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

- Stop the engine and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- 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.

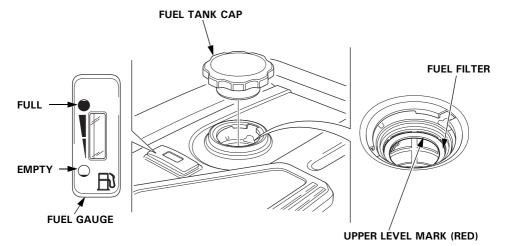
Refuel in a well-ventilated area before starting the engine. If the engine has been running, allow it to cool. Refuel carefully to avoid spilling fuel. Do not fill the fuel tank above the upper level mark (red) on the fuel filter.

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

SERVICING YOUR GENERATOR



After refueling, reinstall the fuel tank cap securely.

FUEL RECOMMENDATIONS

This engine is certified to operate on regular unleaded petrol with a Research Octane Number of 89 or higher.

Use unleaded petrol only, or the catalyzer will loose its effectiveness and negatively affect exhaust emissions.

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

You may use regular unleaded petrol 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.

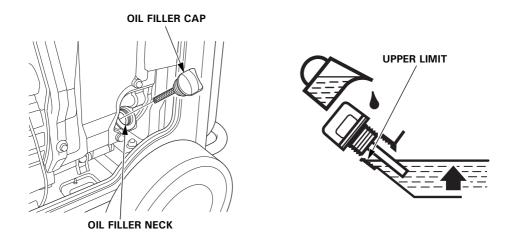
Engine damage or performance problems that result from using a fuel with percentages of ethanol or methanol greater than shown above and leaded petrol are not covered under warranty.

If your equipment will be used on an infrequent basis, please refer to the fuel section of the *STORAGE* chapter (see page 55) for additional information regarding fuel deterioration.

ENGINE OIL LEVEL CHECK

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

- 1. Open the right maintenance cover by turning its latch counterclockwise.
- 2. Remove the oil filler cap.
- 3. Check the oil level. If it is below the upper limit, fill with the recommended oil to the upper limit of the oil filler neck (see page 44).
- 4. Reinstall the oil filler cap securely.
- 5. Close the right maintenance cover by turning its latch clockwise.



The Oil Alert system will automatically stop the engine before the oil level falls below safe limits. However, to avoid the inconvenience of an unexpected shutdown, check the oil level regularly.

ENGINE OIL CHANGE

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

- 1. Open the right maintenance cover by turning its latch counterclockwise.
- 2. Reach under the generator and remove the black rubber seal located below the oil drain plug.
- 3. Place a suitable container underneath the generator to catch the used oil.
- 4. Remove the oil filler cap.
- 5. Remove the oil drain plug and sealing washer and allow the oil to drain completely.
- 6. Reinstall the oil drain plug and a new sealing washer. Tighten the plug securely.
- 7. Reach under the generator and reinstall the black rubber seal.

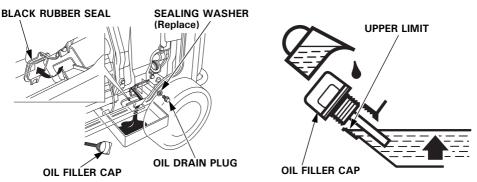
NOTICE

Improper disposal of engine oil can be harmful to the environment. If you change your own oil, please dispose of the used oil 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 the drain.

- 8. With the generator in a level position, fill with the recommended oil to the upper limit of the oil filler neck (see page 44).
 Maximum oil capacity: 1.1 L
- 9. Reinstall the oil filler cap securely.

10. Close the right maintenance cover by turning its latch clockwise.

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

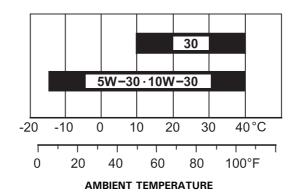


ENGINE OIL RECOMMENDATIONS

Oil is a major factor affecting engine performance and service life.

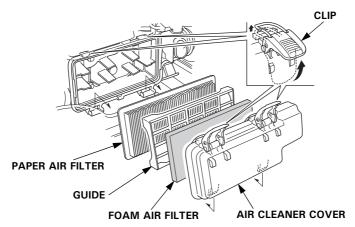
Use 4-stroke motor oil that meets or exceeds the requirements for API service category SE or later (or equivalent). Always check the API SERVICE label on the oil container to be sure it includes the letters SE or later (or equivalent).

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 recommended range.



AIR CLEANER SERVICE

- 1. Open the left maintenance cover by turning its latch counterclockwise.
- 2. Unsnap the air cleaner cover clips; remove the air cleaner cover.



- 3. Foam air filter:
 - a. Remove the foam air filter from the air cleaner cover.
 - b. Check the foam air filter to be sure it is clean and in good condition.

If the foam air filter is dirty, clean it as described on page 46. Replace the foam air filter if it is damaged.

- c. Reinstall the foam air filter in the air cleaner cover.
- 4. Paper air filter:
 - a. Remove the guide.
 - b. If the paper air filter is dirty, replace it with a new one. Do not clean the paper air filter.
- 5. Reinstall the guide and the air cleaner cover.
- 6. Close the left maintenance cover.

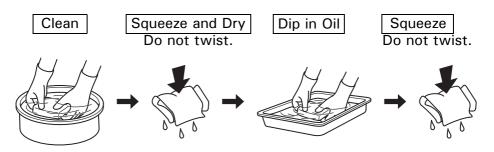
NOTICE

Operating the engine without the air filters, or with a damaged air filters, will allow dirt to enter the engine, causing rapid engine wear.

FOAM AIR FILTER CLEANING

A dirty foam air filter will restrict air flow to the fuel system, reducing engine performance. If you operate the generator in very dusty areas, clean the foam air filter more frequently than specified in the Maintenance Schedule.

- 1. Clean the foam air filter in warm soapy water, rinse, and allow to dry thoroughly, or clean in non-flammable solvent and allow to dry.
- 2. Dip the foam air filter 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 air filter.



3. Wipe dirt from the inside of the air cleaner cover using a moist rag. Be careful to prevent dirt from entering the air duct that leads to the fuel system.

SPARK PLUG SERVICE

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

Recommended spark plugs: BPR6ES (NGK)

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

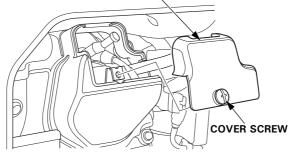
NOTICE

An incorrect spark plug can cause engine damage.

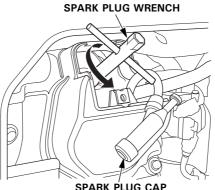
If the engine is hot, allow it to cool before servicing the spark plug.

- 1. Open the left maintenance cover by turning its latch counterclockwise.
- 2. Loosen the cover screw and remove the spark plug inspection cover.

SPARK PLUG INSPECTION COVER



- 3. Disconnect the spark plug cap, and remove any dirt from around the spark plug area.
- 4. Remove the spark plug with a spark plug wrench.





SERVICING YOUR GENERATOR

- 5. Inspect the spark plug. Replace it if the electrodes are worn or fouled, or if the insulator is cracked or chipped.
- 6. Measure the spark plug electrode gap with a wire-type feeler gauge. Correct the gap, if necessary, by carefully bending the side electrode.

0.7-0.8 mm SEALING WASHER

SIDE ELECTRODE

The gap should be: 0.7–0.8 mm

7. Make sure that the spark plug sealing washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.

8. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.

If reinstalling a used spark plug, tighten 1/8-1/4 turn after the spark plug seats.

If installing a new spark plug, tighten 1/2 turn after the spark plug seats.

NOTICE

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

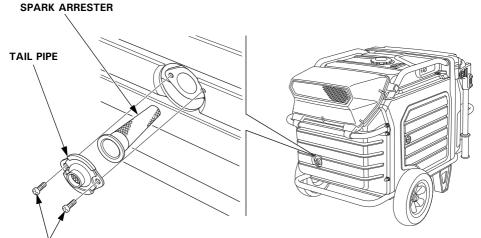
- 9. Attach the spark plug cap.
- 10. Reinstall the spark plug inspection cover and tighten the cover screw.
- 11. Close the left maintenance cover.

SPARK ARRESTER SERVICE

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

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

1. Remove the two 5×16 mm pan head screws, and remove the tail pipe and spark arrester.

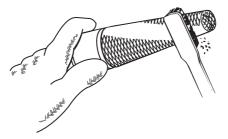


 $^{5 \}times 16 \text{ mm}$ PAN HEAD SCREW (2)

2. Use a brush to remove carbon deposits from the spark arrester screen.

Be careful to avoid damaging the screen.

The spark arrester must be free of breaks and tears. Replace the spark arrester if it is damaged.



3. Install the spark arrester in the reverse order of removal.

BATTERY SERVICE

Your generator's engine charging system charges the battery while the engine is running. However, if the generator is only used periodically, the battery must be charged monthly to maintain the battery service life.

AWARNING

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.

Emergency Procedures

Eyes – Flush with water from a cup or other container for at least fifteen minutes. (Water under pressure can damage the eye.) Call a physician immediately.

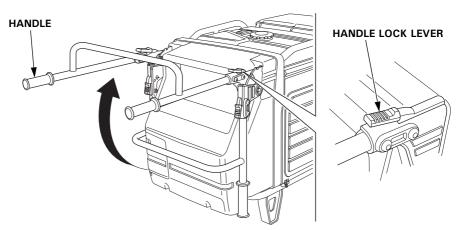
Skin – Remove contaminated clothing. Flush the skin with large quantities of water. Call a physician immediately.

Swallowing – Drink water or milk. Call a physician immediately.

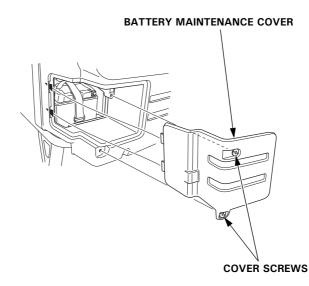
Battery Removal

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

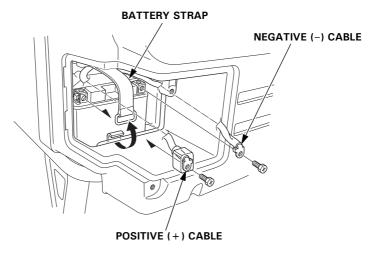
1.Lift the handle upward. The lock levers will lock and secure the handle in place.



2. Loosen the cover screws and remove the battery maintenance cover.



- 3. Remove the negative (-) cable from the battery negative (-) terminal, and then remove the positive (+) cable from the battery positive (+) terminal.
- 4. Unhook the battery strap from the bottom hook of the generator.



5. Remove the battery.

Battery Charging

AWARNING

The battery gives off explosive hydrogen gas during normal operation.

A spark or flame can cause the battery to explode with enough force to kill or seriously hurt you.

Wear protective clothing and a face shield, or have a skilled mechanic perform the battery maintenance.

The battery is rated at 11.2 Ah (ampere-hours). Charging current should equal 10% of the battery's ampere-hour rating. A battery charger should be used that can be adjusted to deliver 1.1 amps.

- 1. Connect the battery charger following the manufacturer's instructions.
- 2. Charge the battery 5–10 hours.
- 3. Clean the outside of the battery and the battery compartment with a solution of baking soda and water.

Battery Installation

- 1. Install the battery into the generator.
- 2. Connect the positive (+) cable to the battery positive (+) terminal first, and tighten the bolt securely.
- 3. Slide the battery boot over the positive (+) cable and terminal.
- 4. Connect the negative (-) cable to the battery negative (-) terminal, and tighten the bolt securely.
- 5. Install the battery strap.
- 6. Install the battery maintenance cover in the reverse order of removal (see page 51).

Never operate the generator with the battery maintenance cover open, as poor engine and generator performance will result.

SERVICING YOUR GENERATOR

FUSE

If the fuse is blown, the starter motor will not operate.

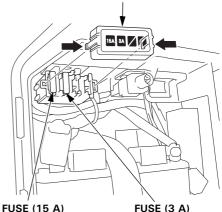
In the event of fuse failure, locate the cause of failure and repair it before you continue operation. If the fuse continues to fail, discontinue generator use and consult an authorized Honda generator dealer.

- 1. Turn the MAIN switch to the OFF position and remove the key before checking or replacing the fuse.
- 2. Loosen the cover screws and BATTERY MAINTENANCE COVER remove the battery maintenance cover. 3. Remove the fuse holder cover FUSE HOLDER COVER and pull the fuse out. 4. Replace the fuse with a fuse of the same type and rating. Specified fuse: 3 A, 15 A

NOTICE

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

COVER SCREWS



5. Install the fuse holder cover and the battery maintenance cover in the reverse order of removal (see page 51). Never operate the generator with the battery maintenance cover open, as poor engine and generator performance will result.

STORAGE

STORAGE PREPARATION

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

Cleaning

Wipe the generator with a moist cloth. After the generator has dried, touch up any damaged paint, and coat other areas that may rust with a light film of oil.

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 fuel system. Please check with your authorized Honda servicing dealer for local storage recommendations.

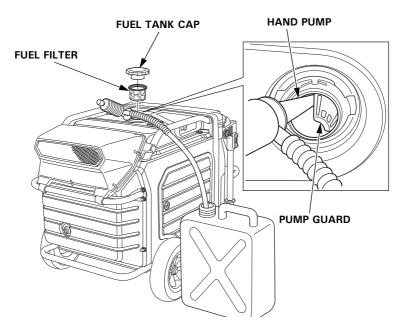
Petrol will oxidize and deteriorate in storage. Old petrol will cause hard starting, and it leaves gum deposits that clog the fuel system. If the petrol in your generator deteriorates during storage, you may need to have the fuel system components serviced or replaced.

The length of time that petrol can be left in your fuel tank without causing functional problems will vary with such factors as petrol 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 after 30 days, or even less if the petrol was not fresh when you filled the fuel tank.

Draining the Fuel Tank

| Petrol is highly flammable and explosive. |
|--|
| You can be burned or seriously injured when handling fuel. |
| Stop the engine and keep heat, sparks, and flame away. Handle fuel only outdoors. |
| Wine up spills immediately |

Unscrew the fuel tank cap, remove the fuel filter, and empty the fuel tank into an approved petrol container. We recommend using a commercially available petrol hand pump to empty the tank. Do not use an electric pump. Siphon the petrol by inserting the tip of the hand pump into the side of the pump guard. Reinstall the fuel filter and the fuel tank cap.



Engine Oil

- 1. Change the engine oil (see page 43).
- 2. Remove the spark plug (see page 47).
- 3. Pour a teaspoon (5 cm³) of clean engine oil into the cylinder.
- 4. Pull the starter rope several times to distribute the oil in the cylinder.
- 5. Reinstall the spark plug (see page 48).
- 6. 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. Return the starter grip gently.

Battery

Charge the battery before storing the generator (see page 53).

STORAGE PRECAUTIONS

If your generator will be stored with petrol in the fuel tank, it is important to reduce the hazard of petrol 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.

Place the generator on a level surface. Tilting can cause fuel or oil leakage.

With the engine and exhaust system cool, cover the generator to keep out dust. A hot engine and exhaust system can ignite or melt some materials.

Do not use sheet plastic as a dust cover. A nonporous cover will trap moisture around the generator, promoting rust and corrosion.

Fully charge the battery. Recharge the battery once a month (see page 53).

REMOVAL FROM STORAGE

Check your generator as described in the *BEFORE OPERATION* chapter of this manual (see page 24).

If the generator was stored for 1 year or longer, drain the fuel tank (see page 56) and refuel with fresh petrol. If you keep a container of petrol for refueling, be sure that it contains only fresh petrol. Petrol oxidizes and deteriorates over time, causing hard starting.

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

TRANSPORTING

BEFORE TRANSPORTING

- 1. Make sure the MAIN switch is OFF (see page 30).
- 2. Drain all petrol from the fuel tank, tighten the fuel tank cap securely (see page 56).

AWARNING

Petrol is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

- Stop the engine and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

WHEN TRANSPORTING THE GENERATOR

If the generator has been running, allow the engine to cool down before loading the generator on the vehicle.

A hot engine and exhaust system can burn you and can ignite some materials.

Do not load the generator on a vehicle to transport with the fuel filled. The fuel may leak due to vibration during transport.

When transporting the generator, turn the MAIN switch OFF and keep the generator level to reduce the possibility of fuel leakage.

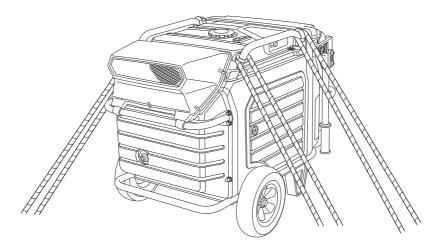
Avoid a place exposed to direct sunlight when putting the generator on a vehicle. If the generator is left in an enclosed vehicle for many hours, high temperature inside the vehicle could cause fuel to vaporize resulting in a possible explosion.

Do not drive on a rough road for an extended period with the generator on board.

TRANSPORTING

Load the generator on a place where it will not drop off, tumble over or be damaged and tie it up with ropes or tie down straps.

When using ropes or tie-down straps to secure the generator for transportation, be sure to only use the frame bars as attachment points. Do not fasten ropes or straps to any portions of the generator body or the folding handle.



TAKING CARE OF UNEXPECTED PROBLEMS

ENGINE WILL NOT START

| Possible Cause | Correction |
|-------------------------------------|-------------------------------------|
| MAIN switch is in the OFF | Turn MAIN switch to the ON |
| position. | position (see page 28). |
| Out of fuel. | Refuel (see page 40). |
| Bad fuel, generator stored | Drain fuel tank (see page 56). |
| without treating or draining | Refuel with fresh petrol (see page |
| petrol, or refueled with bad | 40). |
| petrol. | |
| Low engine oil level caused Oil | Turn the MAIN switch to the OFF |
| Alert to stop engine. | position. Add engine oil. Then |
| | turn the MAIN switch to the ON |
| | position and restart the engine. |
| Spark plug faulty, fouled, or | Gap or replace spark plug (see |
| improperly gapped. | page 47). |
| Spark plug wet with fuel | Turn the MAIN switch to the OFF |
| (flooded engine). | position and pull the starter grip |
| | swiftly five times or more. |
| | If it still will not start, dry and |
| | reinstall the spark plug. |
| Fuel filter restricted, fuel system | Take the generator to an |
| malfunction, fuel pump failure, | authorized Honda servicing |
| ignition malfunction, valves | dealer, or refer to the shop |
| stuck, etc. | manual. |

ENGINE LACKS POWER

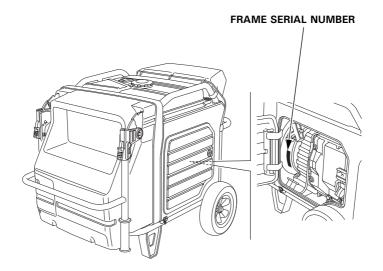
| Possible Cause | Correction |
|-------------------------------------|------------------------------------|
| Air filter restricted. | Clean or replace air filter (see |
| | page 45). |
| Bad fuel, generator stored | Drain fuel tank (see page 56). |
| without treating or draining | Refuel with fresh petrol (see page |
| petrol, or refueled with bad | 40). |
| petrol. | |
| Fuel filter restricted, fuel system | Take the generator to an |
| malfunction, fuel pump failure, | authorized Honda servicing |
| ignition malfunction, valves | dealer, or refer to the shop |
| stuck, etc. | manual. |

NO POWER AT THE AC RECEPTACLES

| Possible Cause | Correction | |
|---------------------------------|-----------------------------------|--|
| OUTPUT indicator is OFF, and | Check AC load. Stop and restart | |
| OVERLOAD ALARM indicator is | the engine. | |
| ON. | Check the cooling air inlet. Stop | |
| | and restart the engine. | |
| Faulty power tool or appliance. | Replace or repair power tool or | |
| | appliance. | |
| | Stop and restart the engine. | |
| Faulty generator. | Take the generator to an | |
| | authorized Honda servicing | |
| | dealer, or refer to the shop | |
| | manual. | |

TECHNICAL INFORMATION

Serial Number Location



Specifications

| D ' | |
|------------|-------|
| Dimen | sions |
| | |

| Model | EU70is |
|--------------------------------|------------|
| Description code | EEJD |
| Length | 1,016 mm |
| [Handle in up position] | [1,261 mm] |
| Width | 680 mm |
| Height | 722 mm |
| Dry mass [weight] [*] | 123.2 kg |

* With battery

Engine

| Model | GX390 |
|---------------------|---|
| Engine type | 4-stroke, overhead valve, single cylinder |
| Displacement | 389 cm ³ |
| [Bore × Stroke] | [88×64 mm] |
| Compression ratio | 8.2:1 |
| Engine speed | 2,400-3,600 rpm |
| | < with Eco-Throttle switch ON> |
| Cooling system | Forced air |
| Ignition system | Full transistorized ignition |
| Engine oil capacity | 1.1 L |
| Fuel tank capacity | 19.2 L |
| Spark plug | BPR6ES (NGK) |

Generator

| | Rated voltage | 230 V |
|-----------|---------------------------------|---------|
| | Rated frequency | 50 Hz |
| AC output | Rated current (Rated ampere) | 23.9 A |
| | Rated output | 5.5 kVA |
| | Maximum output | 7.0 kVA |

Specifications are subject to change without notice.

ASSEMBLY

SAFETY

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.

AWARNING

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.

AWARNING

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 assembly, 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 petrol or batteries. Use only a non-flammable solvent, not petrol, to clean parts. Keep all cigarettes, sparks, and flames away from all fuel-related parts.

[🗆] Read

ASSEMBLY

Unpacking

1. Remove the generator and loose parts box from the carton.

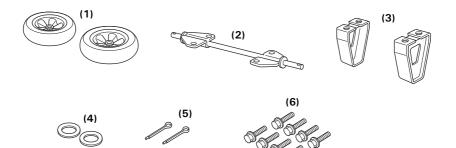
2. Compare the loose parts with the inventory list below.

Tools Required: 12 mm wrench, 10 mm wrench or Phillips head screwdriver for battery connections, pliers (not included)

Loose Parts

Check all loose parts against the following list.

| Ref. No. | Description | Qty. |
|----------|--------------|------|
| 1 | Wheel | 2 |
| 2 | Axle | 1 |
| 3 | Stand | 2 |
| 4 | 20 mm Washer | 2 |
| 5 | 4.0×28 mm | 2 |
| | Cotter pin | |
| 6 | 8×20 mm | 8 |
| | Flange bolt | |



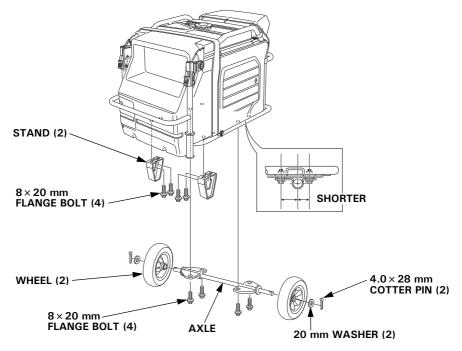
Wheel Kit Installation

Do not operate the generator without the wheel kit installed. The wheel kit provides air space between the ground and the generator air intake.

NOTICE

If the wheel kit is not installed, it may be possible for dirt and debris to be drawn into the generator air intake, possibly causing generator damage. Always operate the generator with the wheel kit installed.

- 1.Install the two wheels on the axle using the 20 mm washers and 4.0×28 mm cotter pins.
- 2. Install the axle assembly on the generator using four 8×20 mm flange bolts.
- 3.Install the two stands on the under frame using four 8×20 mm flange bolts.
- TORQUE: 15-22 N·m (1.5-2.2 kgf·m)



Battery

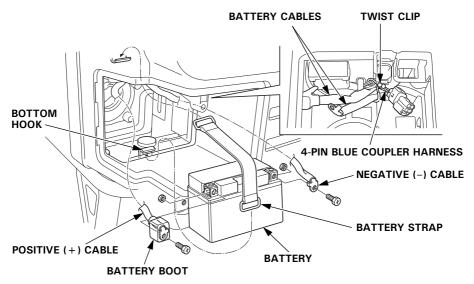
Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.

The battery is disconnected and strapped into the battery tray for shipment.

- 1. Remove the battery maintenance cover (see page 51).
- 2. Remove the battery strap from the bottom hook, and then remove the battery.
- 3. Only remove the battery cables from the twist clip. Make sure that the 4-pin blue coupler harness is secured with the twist clip.

Charge the battery properly. See page 53. Reinstall the battery.

- 4. Remove the protective cover from the battery positive (+) terminal, and connect the positive (+) cable to the battery positive (+) terminal. Make sure to cover the terminal with the battery boot.
- 5. Connect the negative (-) cable to the battery negative (-) terminal.
- 6. Secure the battery by hooking the strap onto the bottom hook of the generator.



7. Install the battery maintenance cover in the reverse order of removal (see page 51).

Never operate the generator with the battery maintenance cover open, as poor engine and generator performance will result.

Engine Oil

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

Place the generator on a level surface. Open the right maintenance cover by turning its latch counterclockwise. Remove the oil filter cap. Add enough of the recommended oil to bring the oil level to the upper limit of the oil filler neck.

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

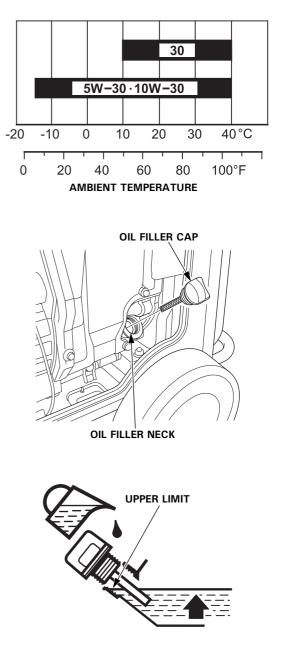
SAE 10W-30 is recommended for general, all-temperature use. Other viscosities in the chart may be used when the temperature in your area is within the indicated range.

Reinstall the oil filler cap securely.

Close the right maintenance cover by turning its latch clockwise.

Fuel

Refer to page 40.



Battery Voltage

Check the battery voltage with the i-Monitor (see page 21).

The battery voltage should be 12.3 V or more.

If the battery voltage is low, charge the battery until the battery voltage is 12.3 V or more.

BEFORE OPERATION

Before using the generator, all generator operators must read the following chapters and sections:

- GENERATOR SAFETY (see page 6)
- CONTROLS & FEATURES (see page 11)
- BEFORE OPERATION (see page 24)
- OPERATION (see page 26)
- STARTING THE ENGINE (see page 27)
- STOPPING THE ENGINE (see page 30)
- MAINTENANCE SCHEDULE (see page 39)

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