Operator's Manual
Portable Generator

GP2500A / 4000A / 5500A / 7000A

Machine Type	**Portable Generator**
Material Number	**5100070606 / 3300033472**
Version	**01**
Date	**04/2023**
Language	**[en-US]**

California Proposition 65 Warning

⚠ 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

Cancer and Reproductive Harm

www.P65Warnings.ca.gov

⚠ WARNING

Batteries, battery posts, terminals and related accessories contain lead and lead compounds, and other chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.

Table of Contents

1 Foreword

1.1 Operator's Manual and Machine Information

Keep this manual for future reference. This manual should be considered a permanent part of the product and stay with it. This manual should be available to anyone operating the product(s) it covers. This manual should remain with the product(s) it covers if sold to a new owner. If the manual becomes damaged, lost, or otherwise unusable, please contact customer support by calling 1-800-770-0957 or www.wackerneuson.com to request a new copy.

Write down the model number, serial number, and purchase date of this product in the spaces provided below then keep this manual with the purchase receipt(s) for future reference.

Model number: _____

Serial number: _____

Purchase date: _____

The model data decal locations **(1)** are shown below.

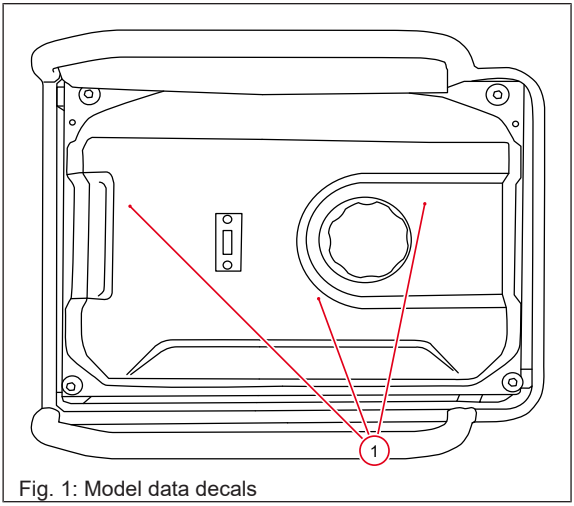


Fig. 1: Model data decals

1.2 Machine Identification

The following machines and variants/options are described:

Machine	Item Number
GP2500A	5100070503
GP4000A	5100070504
GP5500A	5100070505
GP7000A	5100070506

⚠ DANGER

Carbon monoxide hazard

Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide (CO). This is a poison you cannot see or smell. If you can smell the generator exhaust, you are breathing CO. But even if you cannot smell the exhaust, you could be breathing CO.

- ► NEVER use a generator inside homes, buildings, garages, crawlspaces, or other partly enclosed areas. Deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors does NOT supply enough fresh air.
- ► ONLY use a generator outside, and far away from homes, buildings, windows, doors, and vents. Windows, doors, and vents can pull in generator exhaust.
- ► Point the engine exhaust away from homes, buildings, windows, doors, and vents. Also, point the engine exhaust away from combustible materials.
- ► Even when you use a generator correctly, CO may leak into the home or building. ALWAYS use a battery-powered or battery-backup CO alarm in the home or building.
- ► If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air RIGHT AWAY. See a doctor. You could have carbon monoxide poisoning.

1.3 Machine Documentation

Keep a copy of the operator's manual with the machine at all times.

From this point forward in this documentation, Wacker Neuson America Corporation will be referred to as Wacker Neuson or the manufacturer.

For spare parts information, please see your Wacker Neuson dealer, or visit the Wacker Neuson website at http://www.wackerneuson.com/.

When ordering parts or requesting service information, be prepared to provide the machine model number, item number, and serial number.

1.4 Expectations for Information in This Manual

This manual provides information and procedures to safely operate and maintain this machine. For your own safety and to reduce the risk of injury, carefully read, understand, and observe all instructions described in this manual.

The manufacturer expressly reserves the right to make technical modifications, even without notice, which improve the performance or safety standards of its machines.

The information contained in this manual is based on machines manufactured up until the time of publication. The manufacturer reserves the right to change any portion of this information without notice.

The illustrations, parts, and procedures in this manual refer to the manufacturer's factory-installed components. Your machine may vary depending on the requirements of your specific region.

1.5 Laws Pertaining to Spark Arresters

State Health Safety Codes and Public Resources Codes specify that in certain locations spark arresters be used on internal combustion engines that use hydrocarbon fuels. A spark arrester is a device designed to prevent accidental discharge of sparks or flames from the engine exhaust. Spark arresters are qualified and rated by the United States Forest Service for this purpose. In order to comply with local

laws regarding spark arresters, consult the engine distributor or the local Health and Safety Administrator.

1.6 Manufacturer's Approval

This manual contains references to approved parts, attachments, and modifications. The following definitions apply:

- Approved parts or attachments are those either manufactured or provided by the manufacturer.
- Approved modifications are those performed by an authorized service center according to written instructions published by the manufacturer.
- Unapproved parts, attachments, and modifications are those that do not meet the approved criteria.

Unapproved parts, attachments, or modifications may have the following consequences:

- Serious injury hazards to the operator and persons in the work area
- Permanent damage to the machine which will not be covered under warranty

Contact your dealer immediately if you have questions about approved or unapproved parts, attachments, or modifications.

1.7 Disclaimers

- All information in this publication was based on the latest product information available at the time of printing. Wacker-Neuson reserves the right to change, alter, and/or improve the product and this document at any time, without notice, and without incurring any obligation.
- The pictures and figures in this manual should be used for reference only. There may be differences between the pictures and figures and the physical product.
- This generator may be equipped with a spark arrester muffler. If equipped, the spark arrester must be maintained in effective working order by the owner/operator. In the State of California, a spark arrester is required by law (Section 4442

of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

1.8 Limited Warranty

Wacker Neuson, warrants to the original retail purchaser that this Wacker Neuson brand outdoor product is free from defect in material and workmanship and agrees to repair or replace, at Wacker Neuson, discretion, any defective product free of charge within these time periods from the date of purchase.

Three years if the product is used for personal, family or household use;

One year if used for any other purpose, such as commercial or rental.

This warranty extends to the original retail purchaser only and commences on the date of the original retail purchase.

Any part of this product found in the reasonable judgment of Wacker Neuson to be defective in material or workmanship will be repaired or replaced without charge for parts and labor by an authorized service center for Wacker Neuson brand outdoor products. (Authorized Wacker Neuson Service Center).

The product, including any defective part, must be returned to an authorized Wacker Neuson service center within the warranty period. The expense of delivering the product to the service center for warranty work and the expense of returning it back to the owner after repair or replacement will be paid by the owner. Wacker Neuson's responsibility in respect to claims is limited to making the required repairs or replacements and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any Wacker Neuson brand outdoor product. Proof of purchase will be required by the dealer to substantiate any warranty claim. All warranty work must be performed by an authorized service center.

This warranty is limited to one (1) year from the date of original retail purchase for any Wacker Neuson brand outdoor product that is used for rental or commercial purposes, or any other income-producing purpose.

This warranty does not cover any product that has been subject to abuse, misuse, neglect, negligence, accident, the effects of corrosion or erosion, or that has been operated in any way contrary to the operat-

ing instructions as specified in this operator's manual. This warranty does not apply to any damage to the product that is the result of improper maintenance or to any product that has been altered or modified. The warranty does not extend to repairs made necessary by normal wear or by the use of parts or accessories which are either incompatible with the Wacker Neuson brand outdoor product or adversely affect its operation, performance, or durability.

In addition, this warranty does not cover:

Tune-ups – Spark Plugs, Carburetor, Carburetor Adjustments, Ignition, Filters, Oil Change

Wear items–Recoil Starter Rope, Motor Brushes, Alternator Brushes, Cotter Pins, Wheels.

IMPORTANT: The Engine and Emissions Control System of this product are not covered under this Wacker Neuson Limited Warranty, but are instead covered under a separate warranty provided by the manufacturer of those components. Please refer to your Engine and Emissions Control System manuals and warranty statements for details on the terms of those warranties and instructions regarding how to obtain service on those components.

ALL IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE STATED WARRANTY PERIOD. ACCORDINGLY, ANY SUCH IMPLIED WARRANTIES INCLUDING MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, ARE DISCLAIMED IN THEIR ENTIRETY AFTER THE EXPIRATION OF THE APPROPRIATE THREE-YEAR OR NINETY-DAY WARRANTY PERIOD.

WACKER NEUSON OBLIGATION UNDER THIS WARRANTY IS STRICTLY AND EXCLUSIVELY LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS AND Wacker Neuson DOES NOT ASSUME OR AUTHORIZE ANYONE TO ASSUME FOR THEM ANY OTHER OBLIGATION. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Wacker Neuson ASSUMES NO RESPONSIBILITY FOR INCIDENTAL, CONSEQUENTIAL, OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, EXPENSE OF RETURNING THE PRODUCT TO AN AUTHORIZED Wacker Neuson SERVICE CENTER AND EXPENSE OF DELIVERING IT BACK TO THE OWNER, MECHANIC'S TRAVEL TIME, TELEPHONE OR TELEGRAM CHARGES, RENTAL OF A LIKE PRODUCT DURING THE TIME WARRANTY SERVICE IS BEING PERFORMED, TRAVEL, LOSS OR DAMAGE TO PERSONAL PROPERTY, LOSS OF REVENUE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, OR INCONVENIENCE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This warranty applies to this Wacker Neuson brand outdoor product manufactured by or for Wacker Neuson and sold in the United States and Canada.

To locate your nearest Authorized Wacker Neuson Service Center, dial 1-800-770-0957.

2 Usage

2.1 Intended Use

This machine is intended for the purpose of supplying electrical power to connected loads. Refer to the product specifications for the output voltage and frequency of this generator, and for the maximum output power limit of this generator.

2.2 Unintended Use

This machine has been designed and built strictly for the intended use described above. Using the machine for any other purpose could permanently damage the machine or seriously injure the operator or other persons in the area. Machine damage caused by misuse is not covered under warranty.

The following are some examples of misuse:

- Connecting a load that has voltage and frequency requirements that are incompatible with the generator output
- Overloading the generator with a load that draws excessive power during either continuous running or start-up
- Operating the generator in a manner that is inconsistent with all federal, state and local codes and regulations
- Using the machine as a ladder, support, or work surface
- Operating the machine outside of factory specifications
- Operating the machine in a manner inconsistent with all warnings found on the machine and in the operator's manual

2.3 Residual Risks

This machine has been designed and built in accordance with the latest global safety standards. It has been carefully engineered to eliminate hazards as far as practicable and to increase operator safety through protective guards and labeling.

However, some risks may remain even after protective measures have been taken. They are called residual risks. On this machine, they may include exposure to:

- Heat, noise, exhaust, and carbon monoxide from the engine
- Fire hazards from improper refueling techniques
- Fuel and its fumes
- Electric shock and arc flash
- Personal injury from improper lifting techniques
- Typical hazards related to towing a trailer on roads and highways

To protect yourself and others, make sure you thoroughly read and understand the safety information presented in this manual before operating the machine.

2.4 Special Requirements

- 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 which must be observed.
- There may be additional federal and/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 your area.

3 Safety

3.1 Signal Words Used in This Manual

This manual contains DANGER, WARNING, CAUTION, *NOTICE,* and NOTE signal words which must be followed to reduce the possibility of personal injury, damage to the equipment, or improper service.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

► To avoid death or serious injury from this type of hazard, obey all safety messages that follow this signal word.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

► To avoid possible death or serious injury from this type of hazard, obey all safety messages that follow this signal word.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

► To avoid possible minor or moderate injury from this type of hazard, obey all safety messages that follow this signal word.

NOTICE

NOTICE identifies a situation that causes damage if it is not observed.

► To avoid possible damage from this type of hazard, obey all safety messages that follow this signal word.

Note: A Note contains additional information important to a procedure.

3.2 Read This Manual Before Operating

⚠ WARNING

Health and property damage hazard

This manual contains important safety information and instructions. Failure to follow the information contained in this manual will result in property damage, injury, and/or death.

► Do not operate this product until you have read, and completely understood, all safety, operation, and maintenance instructions listed in this manual.

The warnings and precautions discussed in this manual cannot cover all conditions and situations that may occur. The operator must understand awareness and caution are factors which cannot be built into this product and so must be exercised by the operator.

3.3 Safety Guidelines for Operating the Machine

Operator and service training and knowledge

Before operating, maintaining, or servicing the machine:

- Familiarize yourself with the location and proper use of all controls and safety devices.
- Know the rules for the jobsite.
- Contact Wacker Neuson for additional training on topics covered in this operator's manual.

Operator and service qualifications

Only trained personnel are permitted to start, operate, and shut down the machine. They also must meet the following qualifications:

- Have received instruction on how to properly use the machine
- Are familiar with required safety devices

The machine must not be accessed or operated by:

- Children
- People impaired by alcohol or drugs

Application area

Be aware of the application area.

- Remain aware of changing positions and the movement of other equipment and personnel in the application area/jobsite.
- Do not operate the machine in areas that contain flammable objects, fuels, or products that produce flammable vapors.

Personal protective equipment (PPE)

Wear the following personal protective equipment (PPE) while operating this machine:

- Close-fitting work clothes that do not hinder movement
- Safety glasses with side shields
- Hearing protection
- Safety-toed footwear

Tie back long hair and remove all jewelry (including rings).

Installing as backup power

Special hazards exist when installing this machine as a backup power supply. Improper connection of generator to a building's electrical system can allow electrical current from the generator to backfeed into utility lines. This may result in electrocution of utility workers, fire, or explosion.

Backfeed from the generator into the public power distribution system can cause serious injury or death to utility workers. Connections to a building's electrical system must be made by a qualified electrician and comply with all applicable laws and electrical codes.

If connected to a building's electrical system, the generator must meet the power, voltage, and frequency requirements of the equipment in the building. Differences in power, voltage, and frequency re-

quirements may exist and improper connection may lead to equipment damage, fire, and personal injury or death.

Transporting and installing the machine

- Do not stand under the machine while it is being hoisted or moved.
- Do not attach equipment to the machine when it is suspended.
- Transport the generator in an upright position.
- Position and operate the generator on a firm, noncombustible, level surface.
- Make certain the machine is well-grounded and securely fastened to a good earthen ground per national and local regulations.
- Remove all tools, cords, and other loose items from the generator before starting it.

General safety

- Do not operate the generator when open containers of fuel, paint, or other flammable liquids are near.
- Do not operate the generator, or tools attached to the generator, with wet hands.
- Do not operate near open windows, tents, or structural air intakes.
- Do not run the electrical cords under the generator, or over vibrating or hot parts.
- Do not enclose or cover the generator when it is in use or when it is hot.
- Do not overload the generator. The total amperage of the tools and equipment attached to the generator must not exceed the load rating of the generator.
- Do not operate the machine in snow, rain, or standing water.
- Do not stand on the machine.

Generator vibration

Generators vibrate in normal use. During and after the use of the generator, inspect the generator as well as extension cords and power supply cords connected to it for damage from vibration.

- Have damaged items repaired or replaced as necessary.
- Do not use plugs or cords that show signs of damage such as broken or cracked insulation or damaged blades.

After use

- Stop the engine when the machine is not being operated.
- Close the fuel valve, if equipped, when machine is not being operated.
- Ensure that the machine will not tip over, roll, slide, or fall when not being operated.
- Store the machine in a clean, dry location out of the reach of children.

3.4 Operator Safety while Using Internal Combustion Engines

⚠ DANGER

Carbon monoxide hazard

Exhaust gas from the engine contains carbon monoxide, a deadly poison. Exposure to carbon monoxide can kill you in minutes.

► Never operate the machine inside an enclosed area, such as a tunnel, unless adequate ventilation is provided through items such as exhaust fans or hoses.

⚠ WARNING

Personal injury hazard

Failure to follow the warnings and safety standards during operation and fueling could result in severe injury or death.

► Read and follow the warning instructions in the engine owner's manual and the safety guidelines below.

Operating Safety

- Keep the area around the exhaust pipe free of flammable materials.
- Check the fuel lines and the fuel tank for leaks and cracks before starting the engine.
- Do not run the machine if fuel leaks are present or the fuel lines are loose.
- Do not smoke while operating the machine.
- Do not run the engine near sparks or open flames.
- Do not touch the engine or muffler while the engine is running or immediately after it has been turned off.
- Do not operate a machine when its fuel cap is loose or missing.
- Do not start the engine if fuel has spilled or a fuel odor is present. Move the machine away from the spill and wipe the machine dry before starting.
- Do not use the machine in areas with risk of explosion or fire.

Refueling safety

- Clean up any spilled fuel immediately.
- Refill the fuel tank in a well-ventilated area.
- Install the fuel tank cap after refueling.
- Use tools specifically meant for refueling (for example, a fuel hose or funnel).
- Do not smoke when refueling the machine.
- Do not refuel a hot or running engine.

- Do not refuel the engine near sparks or open flames.

3.5 Additional Instructions

Along with this manual, be sure to read any additional instructions provided both on and with the product, attached equipment, accessories, and the engine powering the product. Pay careful attention to all additional safety rules and instructions on proper startup, operation, and shutdown procedures. Always use any recommended protective apparel that may be needed to operate the equipment safely.

4 Description of the Machine

4.1 Component Locations—GP2500

Note: Line drawings used in this manual may not represent your specific model.

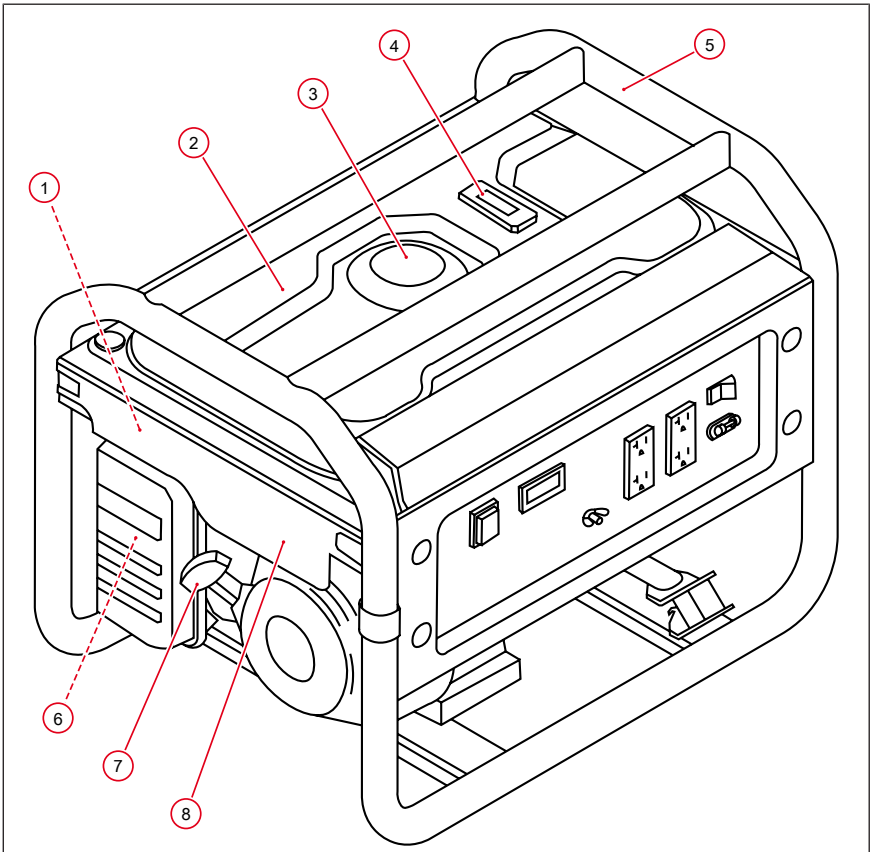


Fig. 2: GP2500 component locations

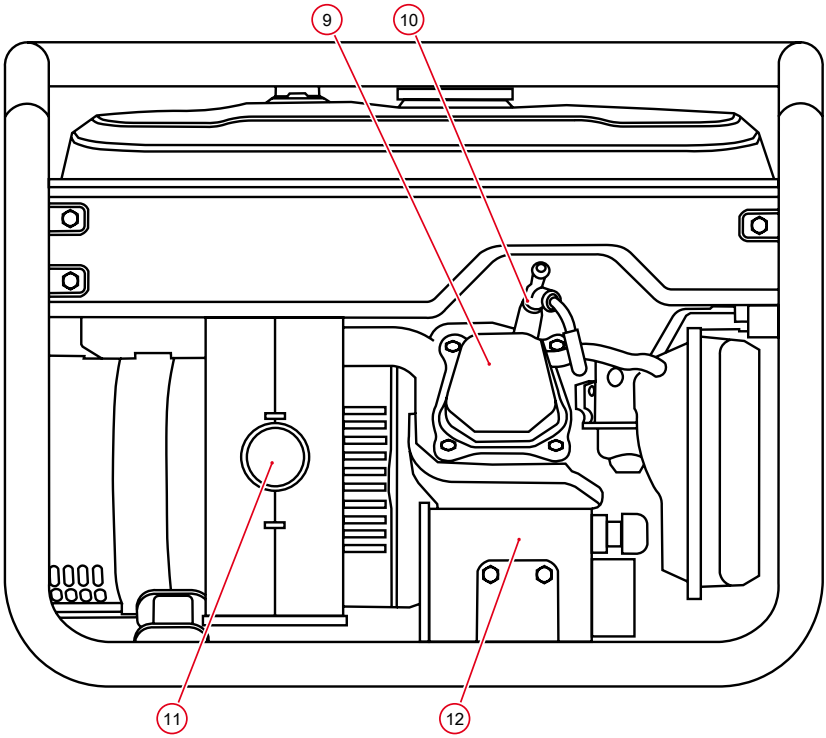


Fig. 3: GP2500 component locations, continued

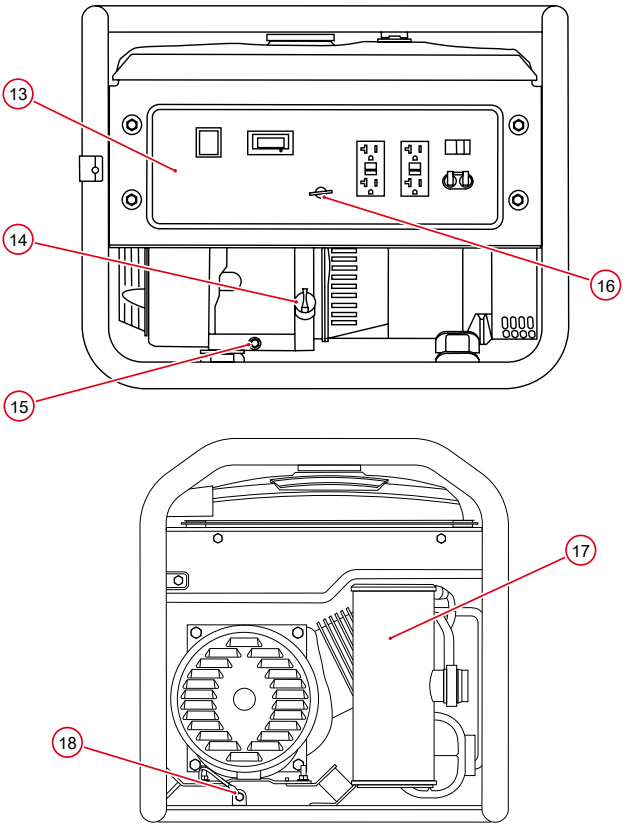


Fig. 4: GP2500 component locations, continued

Ref	Component	Ref	Component
1	Engine choke control (not shown)	2	Fuel tank
3	Fuel tank cap	4	Fuel level indicator
5	Frame	6	Air filter housing
7	Starter recoil	8	Engine fuel valve (not shown)
9	Engine valve cover	10	Spark plug
11	Spark arrester (if equipped)	12	Carbon canister
13	Control panel	14	Engine oil dipstick
15	Engine oil drain plug	16	Ground terminal
17	Muffler heat shield	18	Ground terminal

4.2 Component Locations—GP4000 / 5500 / 7000

Note: Line drawings used in this manual may not represent your specific model.

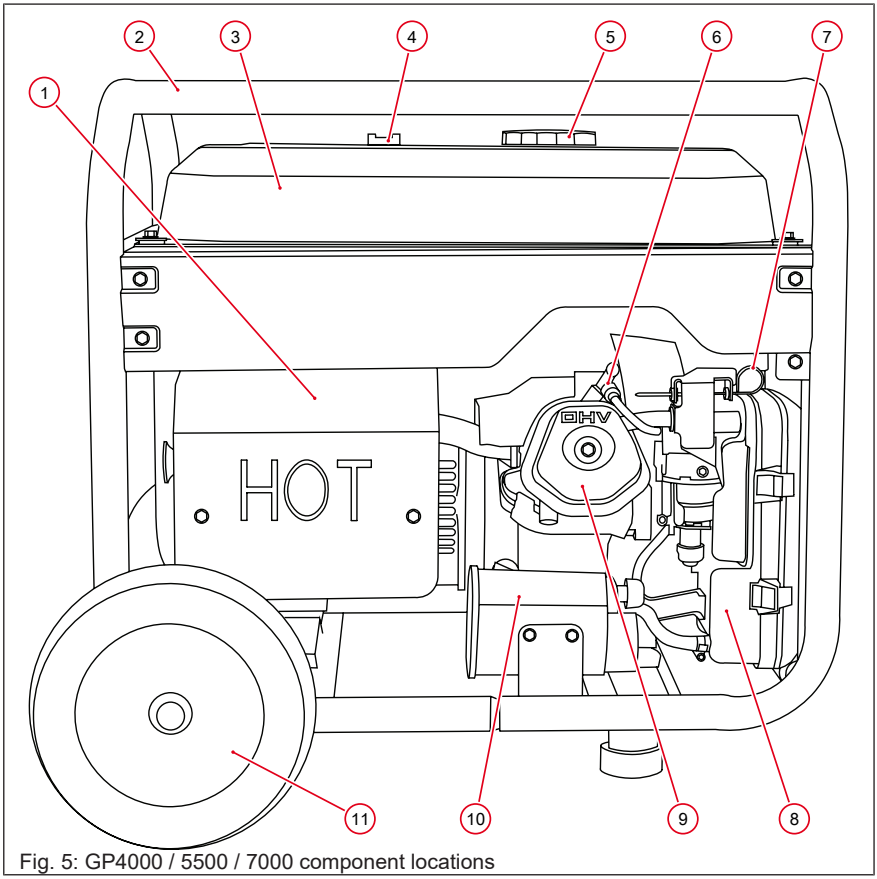


Fig. 5: GP4000 / 5500 / 7000 component locations

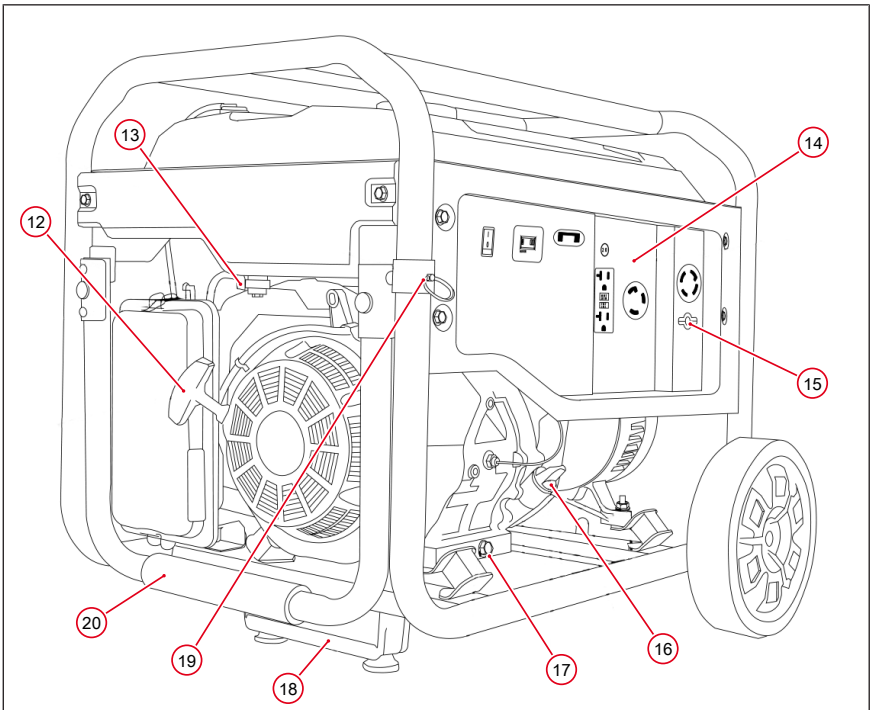


Fig. 6: GP4000 / 5500 / 7000 component locations, continued

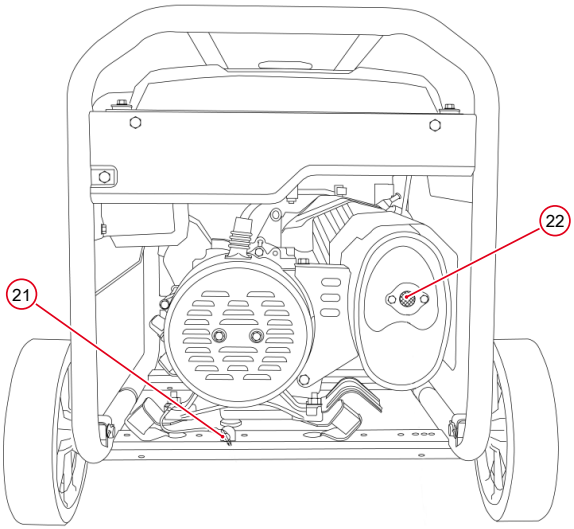


Fig. 7: GP4000 / 5500 / 7000 component locations, continued

Ref	Component	Ref	Component
1	Muffler heat shield	2	Frame
3	Fuel tank.	4	Fuel level indicator
5	Fuel tank cap	6	Spark plug
7	Engine choke control	8	Air filter housing
9	Engine valve cover	10	Carbon canister
11	Wheel	12	Starter recoil
13	Fuel valve	14	Control panel
15	Ground terminal	16	Engine oil dipstick
17	Engine oil drain plug	18	Support bracket
19	Handle stop pin	20	Handle
21	Ground terminal	22	Spark arrester (if equipped)

4.3 Control Panels

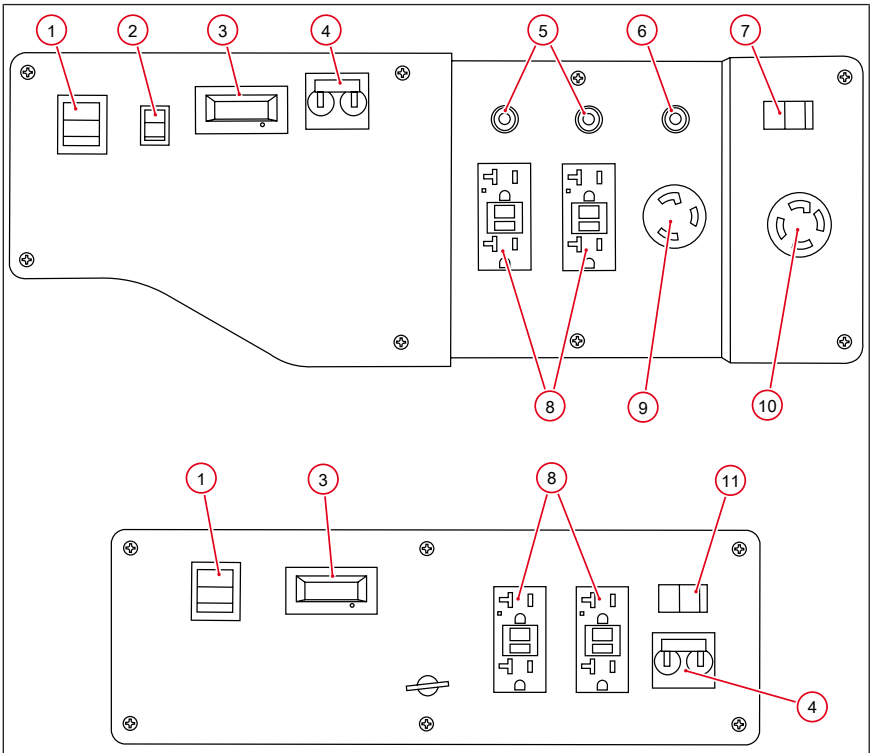


Fig. 8: Control panels—GP4000 / 5500 / 7000 (top) and 2500 (bottom)

Ref	Component	Ref	Component
1	Engine control switch	2	Idle control switch
3	Hour meter	4	Main breakers: GP2500—10A GP4000—16A GP5500—21A GP7000—30A
5	Circuit breakers—20A	6	Circuit breaker—30A
7	Voltage selector switch	8	120V, 20A, duplex GFCI receptacles (5-20R)
9	120V, 30A, twist-lock receptacle (L5-30R)	10	120/240V, 30A, twist-lock receptacle (L14-30R)
11	Power selection switch	—	—

4.4 Overview of the Labels

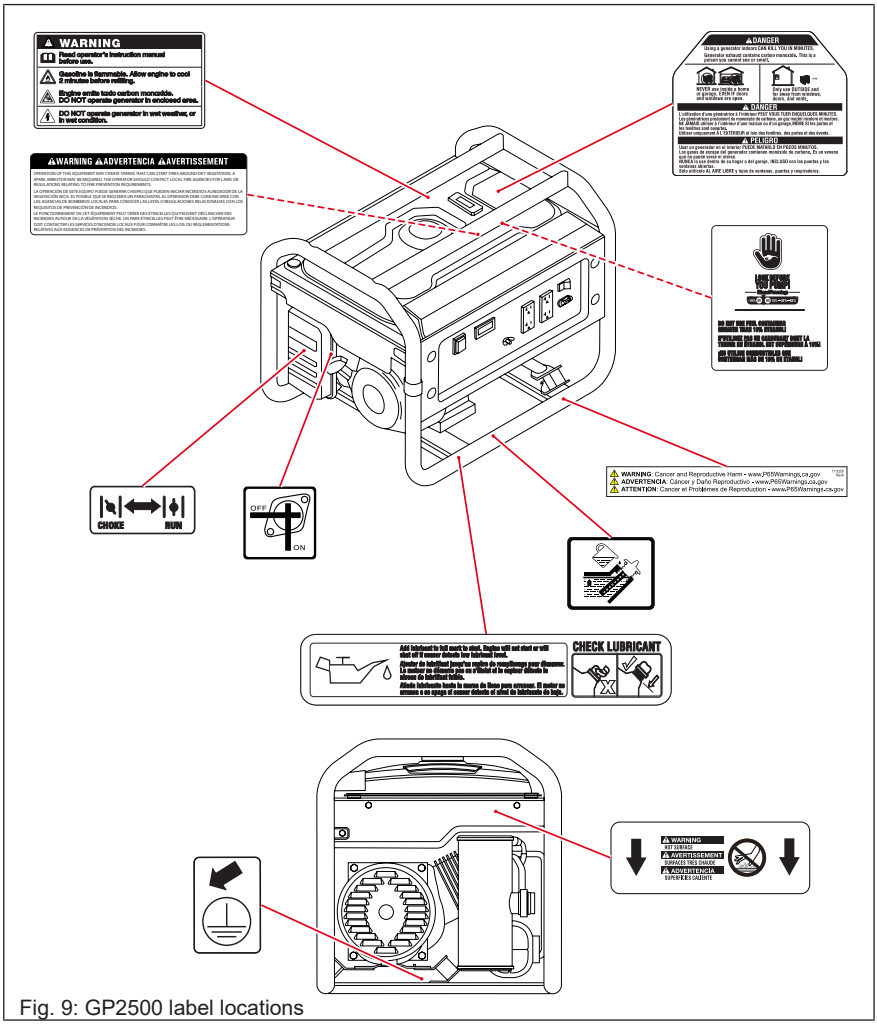


Fig. 9: GP2500 label locations

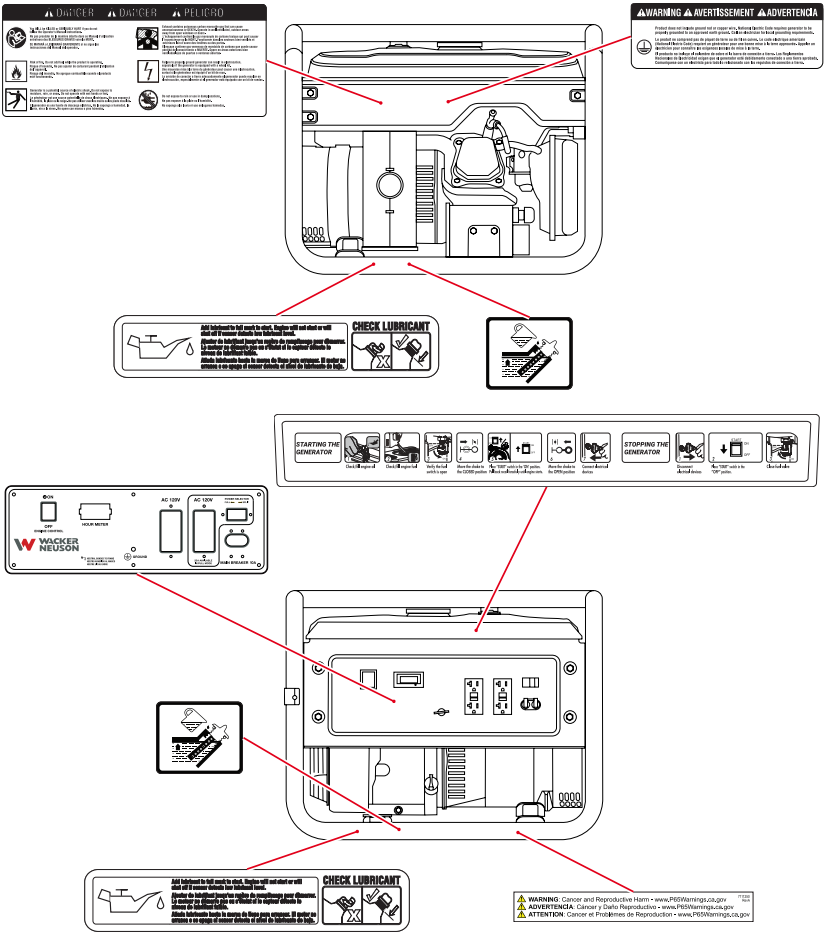


Fig. 10: GP2500 label locations, continued

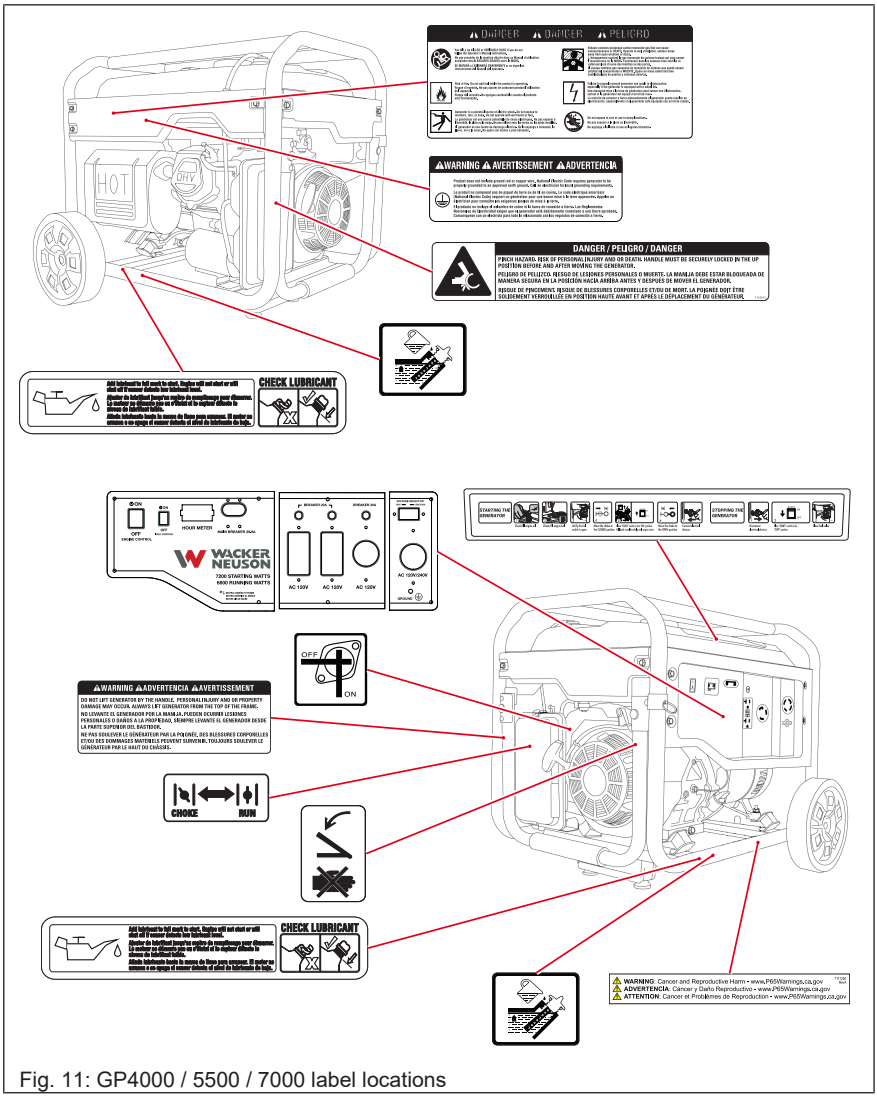


Fig. 11: GP4000 / 5500 / 7000 label locations

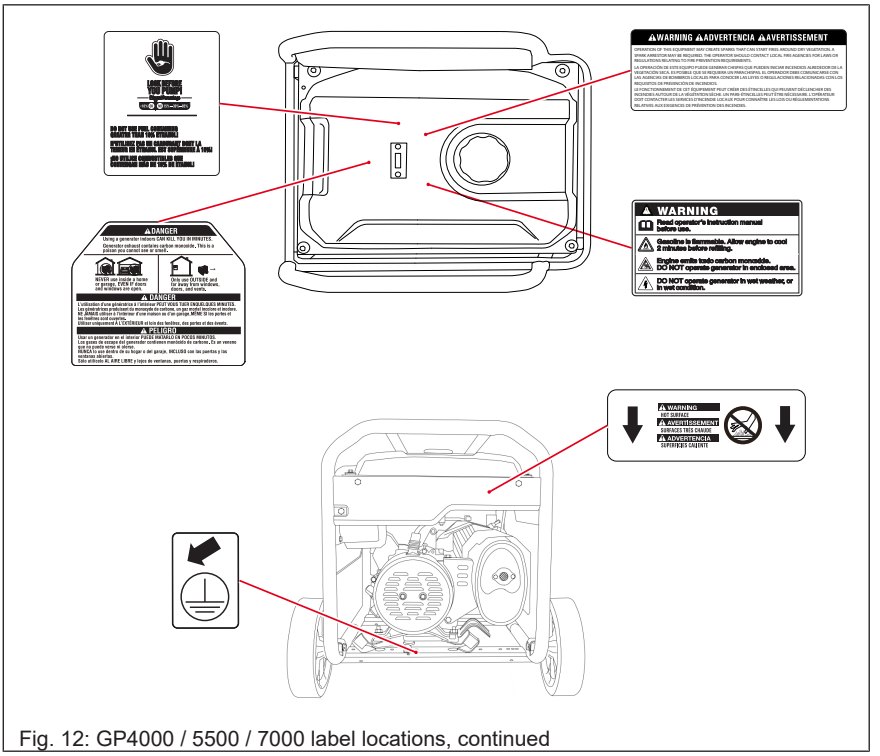
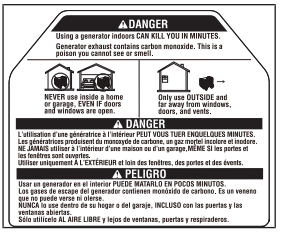


Fig. 12: GP4000 / 5500 / 7000 label locations, continued

4.5 Safety Label Meanings



DANGER

Using a generator indoors can kill you in minutes.

Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.

Never use inside a home or garage, even if doors and windows are open.

Only use outside and far away from windows, doors, and vents.

DANGER

Pinch hazard. Risk of personal injury and or death. Handle must be securely locked in the up position before and after moving the generator.

DANGER

You will be killed or seriously hurt if you do not follow the Operator's Manual instructions.

Risk of fire. Do not add fuel while the product is operating.

Generator is a potential source of electric shock. Do not expose to moisture, rain, or snow. Do not operate with wet hands or feet.

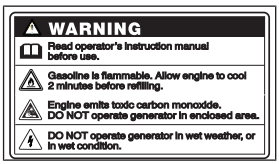
Exhaust contains poisonous carbon monoxide gas that can cause unconsciousness or death. Operate in well ventilated, outdoor areas away from open windows or doors.

Failure to properly ground generator can result in electrocution, especially if the generator is equipped with a wheel kit.

Do not expose to rain or use in damp locations.

WARNING

Hot surface hazard



WARNING

Read operator's instruction manual before use.

Gasoline is flammable. Allow engine to cool 2 minutes before refilling.

Engine emits toxic carbon monoxide. Do not operate generator in enclosed area.

Do not operate generator in wet weather, or in wet condition.

WARNING

Product does not include ground rod or copper wire. National Electric Code requires generator to be properly grounded to an approved earth ground. Call an electrician for local grounding requirements.

WARNING

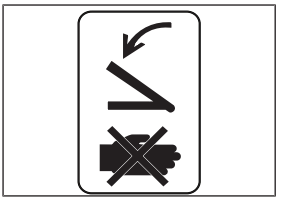
Cancer and reproductive harm – www.P65Warnings.ca.gov

WARNING

Do not lift generator by the handle. Personal injury and or property damage may occur. Always lift generator from the top of the frame.

WARNING

Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

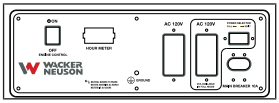


Pinch hazard

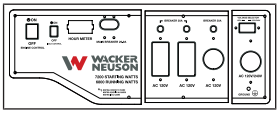
Look before you pump!

Do not use fuel containing greater than 10% ethanol!

4.6 Information Label Meanings



Control panel (GP2500)



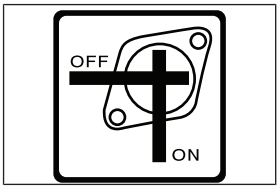
Control panel (GP4000 / GP5500 / GP7000)

Starting the generator

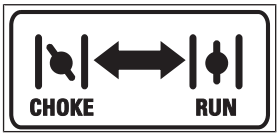
1. Check/fill engine oil.
2. Check/fill engine fuel.
3. Verify the fuel switch is open.
4. Move the choke to the closed position.
5. Place start switch in the on position. Pull back recoil forcefully until engine starts.
6. Move the choke to the open position.
7. Connect electrical devices.

Stopping the generator

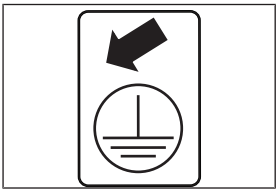
1. Disconnect electrical devices.
2. Place start switch in the off position.
3. Close fuel valve.



Fuel valve positions



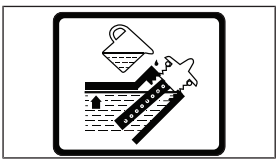
Engine choke and run positions



Ground location

Check lubricant

Add lubricant to full mark to start. Engine will not start or will shut off if sensor detects low lubricant level.



Engine oil fill

5 Transportation

5.1 Transporting the Machine

⚠ WARNING

Explosion hazard

Leaving the generator in an enclosed space on the transport vehicle where temperatures can rise may cause fuel to vaporize and possibly explode. Fire and explosions can cause severe burns and/or death.

- ► Secure the generator in a well-ventilated area on the transport vehicle that is out of direct sunlight and other heat sources.
- ► Do not transport the generator on rough roads unless the fuel has been drained beforehand.

1. Place the fuel valve to the OFF position.
2. Turn the engine control switch to the OFF position.
3. To prevent fuel spillage when transporting, keep the generator upright on a level surface.
4. Secure generator with straps or tie downs to prevent tip over and damage from sliding.

NOTE: Do not operate the generator while it is on the transport vehicle.

6 Commissioning

6.1 Assembly

Follow the steps outlined in this section to unpack and assemble your generator. If you have any questions regarding the unpacking or assembly of your generator, please have your model number and serial number ready, then contact customer support at 1-800-770-0957 or www.wackerneuson.com.

6.1.1 Unpacking

1. Place the shipping carton on a solid, flat surface.
2. Carefully cut the top of the carton open.
3. Carefully cut each corner of the carton from top to bottom.
4. Lay each side of the carton flat on the ground.
5. Remove everything from the carton.

6.1.2 Installing the Wheels (GP4000 / 5500 / 7000 only)

⚠ CAUTION

Machine damage hazard

These wheels are not meant for over-the-road use.

► Towing or otherwise propelling this machine at speeds greater than achievable by moving by hand will damage the machine.

To install the wheels, perform the following procedure:

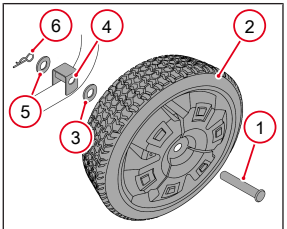


Fig. 13: Axle, wheel, washers, mounting hole, and clip

1. Slide the axle **(1)** through one of the wheels **(2)**, the first washer **(3)**, the frame mounting hole **(4)**, and the second washer **(5)**.
2. Insert the clip **(6)** through the hole in the axle to secure the assembly.
3. Repeat this process for the other wheel.

6.1.3 Assembling and Installing the Support Bracket (GP4000 / 5500 / 7000 only)

To assemble and install the support bracket, perform the following procedures:

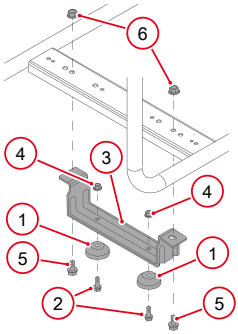


Fig. 14: Feet, bolts, bracket, and nuts

Assembling the support bracket

1. If the rubber feet **(1)** are not already installed on the support bracket, slide the M6 x 18 bolts **(2)** through the rubber feet and then through the support bracket **(3)**.
2. Tighten the M6 **(4)** nuts onto the bolts to secure the assemblies.

Installing the assembled support bracket

1. Slide the M8 x 16 bolts **(5)** through the support bracket and frame.
2. Tighten the M8 nuts **(6)** onto the bolts to secure the assembly.

7 Operation

7.1 Hour Meter

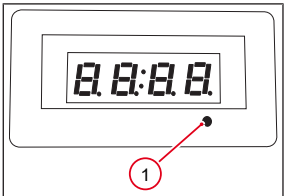


Fig. 15: Hour meter with mode button

The hour meter keeps track of the time the generator is running during each usage. Press the mode button **(1)** to show the total accumulated run time of the generator. Use this time to mark service intervals such as oil changes, air filter replacement, etc. For the hour meter location, see Control Panels on page 28.

7.2 Operating Checklist

7.2.1 Location

⚠ DANGER

Carbon monoxide hazard

Engine exhaust contains carbon monoxide, an odorless, colorless, poisonous gas. Running an engine indoors will kill you in minutes.

- ► Never use this product inside a house, garage, or any other kind of enclosure even if doors and windows are open.
- ► Run the engine outside at least twenty (20) feet or six (6) meters away from windows, doors, and vents.
- ► Carefully consider wind direction and air currents when using this product outside to avoid breathing in engine exhaust.
- ► Always use a carbon monoxide detector in any occupied buildings near the running engine.

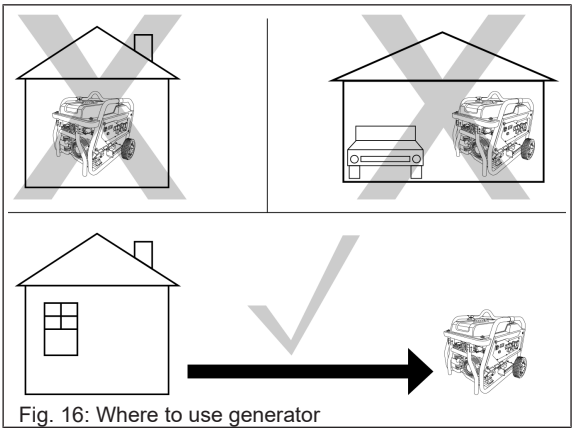


Fig. 16: Where to use generator

Only use the generator outside in a well-ventilated area and always carefully consider wind and air currents when running. Place the generator on a level surface before any operation and provide two (2) feet clearance on all sides of the engine while operating.

- Never use the generator inside a house, garage, or any other kind of enclosure, even if doors and windows are open.
- Install a carbon monoxide detector in any occupied buildings near the running engine.
- If you experience headache, nausea, dizziness, sleepiness, or weakness while the generator is running, move to fresh air and seek medical attention immediately.

7.2.2 Operating Conditions

⚠ WARNING

Injury hazard

Untrained persons, young children, and pets can be seriously injured or killed if allowed to incorrectly operate or play with a running generator.

- ► Be sure anyone operating the generator receives proper instructions, understands safe operation, and has read the owner's manual before operating this product.
- ► Do not let children operate the generator without parental supervision.
- ► Keep young children and pets away from the generator while it is running.
- ► Always turn the generator off before leaving the area.

⚠ WARNING

Injury hazard

Failure to inspect this product before use could result in a hazardous situation resulting in product damage, serious injury and/or death.

- ► Inspect the generator before each use.
- ► Check for loose or damaged parts, signs of oil or fuel leaks, missing guards, plugged cooling vents, or any other condition that may affect proper operation.
- ► Repair or replace all damaged or defective parts and keep all safety guards in place and in proper working order before using the generator.

⚠ WARNING

Crushing hazard

This product has many parts that move at high speeds. Moving parts can cause crushing injuries, broken bones, severe lacerations, and/or traumatic amputations.

- ► Never place fingers, hands, feet, or other body parts near running engine.
- ► Never operate product with covers, shrouds, or other guards removed.
- ► Do not wear loose-fitting clothing, dangling drawstrings, or any other hanging items that could become entangled in moving parts while operating.
- ► Tie up long hair and remove jewelry before operating.

⚠ CAUTION

Burn hazard

A running engine produces heat. The surfaces of the engine, related components, and engine exhaust gas get hot enough to cause mild to moderate burns or ignite materials on contact.

- ► To avoid burns, do not touch engine surfaces or exhaust gases while operating and allow engine to cool completely before moving, touching, or performing any maintenance.
- ► To avoid a fire, keep all flammable materials at least five feet away from all sides of the product.

Before starting the engine, remove any excessive dirt and debris from cooling vents, exhaust, and starter recoil areas. Then, check for loose or damaged parts, oil or fuel leaks, and/or any other condition that may affect proper operation. Repair or replace all damaged or defective parts immediately. Always keep all safety guards in place and in proper working order. For safety reasons, the manufacturer recommends all maintenance and repairs be performed by an authorized service center. Never move or tip the generator while operating. Use generator only for its

intended purpose. If you have questions about the proper use of your generator, contact customer support at 1-800-770-0957 or www.wackerneuson.com.

7.2.3 Checking the Fuel

⚠ WARNING

Explosion hazard

Gasoline is highly flammable and gasoline vapors are extremely explosive. Fire and explosions can cause severe burns and/or death.

- ► Keep gasoline away from flames, sparks, and other ignition sources.
- ► Refuel outdoors in a well-ventilated area with the engine stopped and cool.
- ► Wipe up any spilled gasoline and allow engine to dry before starting.
- ► Keep a fire extinguisher handy while refueling.
- ► Do not operate engine with leaks in the fuel system.
- ► Do not store gasoline near other flammable materials.

⚠ CAUTION

Burn hazard

Gasoline vapor can build up inside the fuel tank creating pressure. This pressure may increase when the engine is hot from running. Opening the fuel tank under pressure can cause rapid escape of flammable vapors and possible fuel spills that may ignite from contact with hot engine surfaces resulting in burn hazard.

- ► To avoid rapidly escaping fuel vapor, always allow the engine to cool for at least two (2) minutes before removing fuel cap and loosen the fuel cap slowly to relieve any pressure in the tank.

NOTICE

Machine damage hazard

Old gasoline can create deposits that clog fuel systems causing hard starting and poor performance. Damage caused by old fuel is not covered by warranty.

► To minimize deposits, avoid old fuel related performance issues, and prevent costly repair work, do not use gasoline that is older than 30 days.

NOTICE

Engine damage hazard

Using gasoline with an alcohol blend greater than 10% (E10) will damage the engine. Damage caused by using an alcohol blend of 15% (E15), 85% (E85), or any other alcohol blend higher than 10% (E10) is not covered under warranty.

► To avoid engine damage caused by an alcohol blend that is too high, use gasoline with 10% (E10) alcohol or less.

NOTICE

Engine and fuel system damage hazard

The use of fuel system cleaning additives can damage the engine and fuel systems. Damage caused by the use of fuel system cleaning additives is not covered by warranty.

► To avoid engine and fuel system damage, do not use any fuel system cleaning additives.

NOTICE

Fuel system damage hazard

It is important to prevent gum deposits from forming in essential fuel system parts, such as the carburetor, fuel filter, fuel hose or tank during storage. Alcohol-blended fuels (also called gasohol, ethanol, or methanol) attract moisture, which leads to separation and formation of acids during storage. Acidic fuel and gum deposits can damage the engine's fuel system while in storage. Effects of old, stale, or contaminated fuel are not covered under warranty.

- ► Using a fuel stabilizer when storing gasoline will help prevent problems related to ethanol alcohol in outdoor power equipment engines.
- ► Always follow the instructions provided by the fuel stabilizer manufacturer to mix and use correctly.

NOTICE

Machine damage hazard

Overfilling the fuel tank can result in carbon canister damage (if equipped), poor engine performance, and void the warranty.

- ► To avoid damaging the carbon canister, poor engine performance, and voiding the warranty, do not fill the fuel tank above the maximum level.

Do not to fill the fuel tank above the maximum fuel level **(1)** to allow room for fuel expansion. For fuel capacity, see Technical Data on page 66.

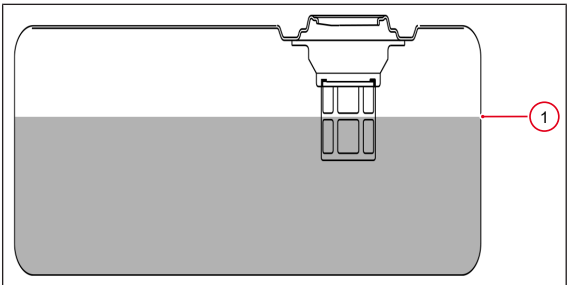


Fig. 17: Maximum fuel level

Do not use gasoline that is older than 30 days. Use only clean and fresh regular unleaded gasoline with a minimum octane rating of 87. Do not mix oil with gasoline. Do not use gasoline that contains more than 10% ethyl alcohol. E15, E20, and E85 are not approved fuels and should not be used.

Check fuel with generator on a level surface with the engine off, as follows:

- Read fuel gauge and fill fuel tank if needed. For fuel gage location, see Component Locations—GP2500 on page 22 or see Component Locations—GP4000 / 5500 / 7000 on page 25, depending on your model.

7.2.4 Grounding

⚠ DANGER

Electric shock hazard

Failure to properly ground your generator will create an electrical shock hazard that could result in severe injury or death.

► To prevent an electric shock hazard, be sure to provide the correct ground for the desired use of the generator per the National Electric Code (NEC) 250.3 (sections A, B, and C) or consult with a local electrician to learn the appropriate grounding requirements.

⚠ DANGER

Electrocution hazard

Electrical shorts caused by damaged wiring can damage the generator and touching live damaged electrical cords or bare wires will cause serious injury or death.

► Do not connect devices with worn, frayed, bare, or otherwise damaged electrical cords to the generator.

► Inspect all electrical cords before using them and do not use any cords that are damaged or showing bare wires.

Grounding the generator helps prevent electrical shock if a ground fault condition develops in the generator or in connected electrical devices. Proper grounding also helps dissipate static electricity, which often builds up in ungrounded devices. Grounding a generator with a wheel kit installed is especially important. The generators covered in this manual have two ground terminals, one on the frame and one on the control panel. For the control panel ground terminal locations, see Control Panels on page 28. For the frame ground terminal locations, see Component Locations—GP2500 on page 22 or see Component Locations—GP4000 / 5500 / 7000 on page 25, depending on your model. It is strongly recommend that you refer to NEC 250.34 (sections A, B, and C) and/or consult with a local electrician for grounding requirements in your area before operating the generator.

7.2.5 Connecting the Generator to the Electrical System of a Building

⚠ WARNING

Personal injury and property damage hazard

Backfeeding can damage electrical devices in your home, start an electrical fire, and may cause severe injury or death to utility workers and others on your electrical grid.

► Do not plug the generator into your home's outlets and have a qualified electrician install the generator if used as a backup power source.

Do not attempt to backfeed power into your house from the generator. Backfeeding is trying to power your home by plugging the generator into a wall outlet. Backfeeding can damage electrical devices in your home, start an electrical fire, and cause severe injury or death to utility workers and others on your electrical grid.

Using a transfer switch is recommended when connecting a generator directly to a building's electrical system. Connections for a portable generator to a

building's electrical system must be made by a qualified electrician and in strict compliance with all national and local electrical codes and laws.

7.3 Starting the Machine

⚠ WARNING

Personal injury and machine damage hazard

Attempting to start the engine incorrectly or using the generator incorrectly can result in engine and/or generator damage, and may cause serious injury or death.

- ► To avoid engine and/or generator damage and serious injury or death be sure to read, understand, and follow the steps outlined in the operating checklist before starting the engine. For further information, see Operating Checklist on page 40.
- ► Follow all the guidelines for proper use of the generator.

⚠ WARNING

Personal injury hazard

Rapid retraction (also known as kickback) of the engine recoil starter cord will pull your hand and arm towards the engine faster than you can let go of the handle resulting in sprains, broken bones, lacerations, and/or traumatic amputations. Kickback is caused by damage to the engine crankshaft key, compression release failure, and/or improper starting techniques.

- ► To avoid kickback, follow the appropriate maintenance schedule, starting instructions, and have repair work done by an authorized service center.

1. Prepare to start the machine. For further information, see Operating Checklist on page 40.

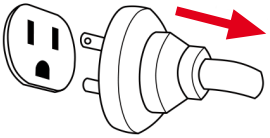


Fig. 18: Unplugging electrical devices

2. Make sure there are no devices plugged into the generator outlets.

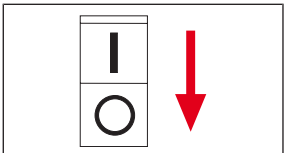


Fig. 19: Idle control switch in OFF position

3. Set the idle control switch to the OFF position.

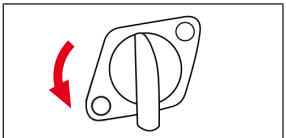


Fig. 20: Fuel valve in ON position

4. Turn fuel valve to the ON position. For fuel valve location, see Component Locations—GP2500 on page 22 or see Component Locations—GP4000 / 5500 / 7000 on page 25, depending on your model.

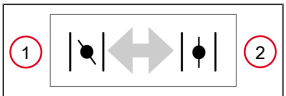


Fig. 21: Choke positions

5. Adjust choke as needed. For choke location, see Component Locations—GP2500 on page 22 or see Component Locations—GP4000 / 5500 / 7000 on page 25, depending on your model.
NOTE: The starting position of the choke will vary depending on the engine temperature. If starting a cold engine, move the choke lever towards the closed **(1)** position. If starting a warm engine, move the choke lever towards the open **(2)** position.

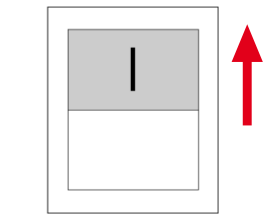


Fig. 22: Engine switch in ON position

6. Turn the engine control switch to the ON position.

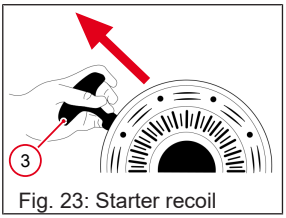


Fig. 23: Starter recoil

7. Pull the starter recoil **(3)**.
8. After the engine is running, move the choke lever toward the open position.
9. Allow the engine to warm up and the idle to stabilize before connecting any devices.

7.4 Idle Control

The function of the idle control switch is to allow the generator speed to idle down (slow) when a load is not being drawn on the generator. This saves fuel when the generator is being used with intermittent loads; for example, an air compressor or refrigerator.

To use the idle control function, place the idle control switch into the ON position as the engine is running. If there is no load connected, the engine should idle down. Once a load is drawn, the engine idle will increase to the proper speed.

If the idle control function is not desired, keep the idle control switch in the OFF position.

For the idle control switch location, see Control Panels on page 28.

7.5 Selecting the Voltage (GP4000 / 5500 / 7000 only)

NOTICE

Changing the voltage selector switch position while the engine is running may cause arcing, which may damage the switch and the generator windings.

► Do not change the voltage selector switch position while the engine is running.

The voltage selector switch allows the user to place the generator into a standard 120/240 volt configuration or a purely 120 volt configuration. By placing the switch in the 120 volt position, the generator windings are placed into parallel allowing the current to be doubled.

When using the 120/240 volt twist-lock receptacle, make sure the switch is set to the 120/240 position. If you will be using the 120 volt twist-lock receptacle, place the voltage selector switch in the 120 volt position to allow a full 30 amperes output.

For the voltage selector switch location, see Control Panels on page 28.

7.6 Selecting the Power (GP2500 only)

The power selector switch **(1)** allows the operator to choose from 10 amperes per receptacle to a full 20 amperes on one receptacle.

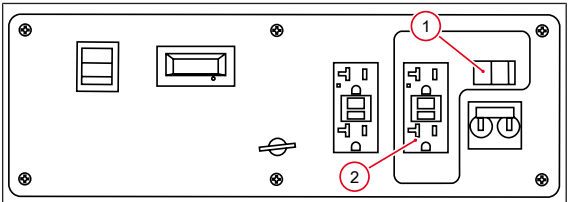


Fig. 24: Power selector switch and receptacle

The receptacle shown **(2)** has a full 20 amperes available when the power selector switch is in the FULL position.

7.7 Connecting Devices

⚠ DANGER

Electrocution hazard

Electrical shorts caused by damaged wiring can damage the generator and touching live damaged electrical cords or bare wires will cause serious injury or death.

- ► Do not connect devices with worn, frayed, bare, or otherwise damaged electrical cords to the generator.
- ► Inspect all electrical cords before using them and do not use any cords that are damaged or showing bare wires.

7.7.1 Ground Fault Circuit Interrupt (GFCI)

Your generator may be equipped with ground fault circuit interrupting (GFCI) receptacles. The purpose of these devices are to protect you from electrical shock in the instance where an electrical fault is located within your connected device(s).

The GFCI monitors the amount of current flowing to and returning from your connected device. Should the amount of current returning be lower than the amount flowing to the device, the GFCI will “trip”, instantly stopping the flow of electricity. Should the GFCI continuously trip when a device is connected, this is an indication that an electrical fault is located within the device and it should be serviced by an qualified electrical technician before further usage. It is imperative that you test the GFCI unit(s) each time the generator is to be used.

7.7.2 Testing the GFCI Receptacle(s)

1. Start the generator. For further information, see Starting the Machine on page 49.
2. Turn the circuit breaker(s) ON if they are in the OFF position.
3. Press the TEST button **(1)** on the GFCI receptacle(s). You should hear a “click” or “snap” sound and the LED indicator **(2)** will illuminate, (if equipped).

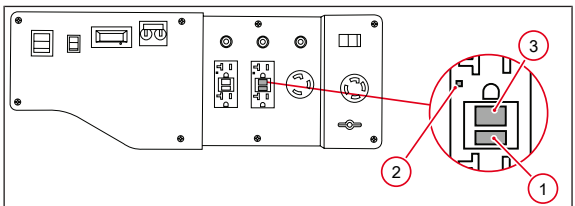


Fig. 25: Test button, LED indicator, and reset button

4. Press the RESET button **(3)** to energize the receptacle; the LED will go dark.

Should the above test fail, discontinue use of the generator until it can be serviced by a qualified service technician.

7.7.3 Connecting Electrical Devices

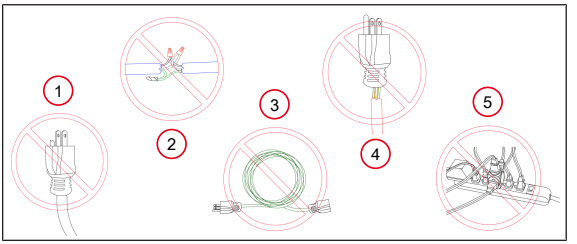
⚠ WARNING

Fire hazard

Improperly using extension cords or using damage extension cords can cause a fire.

► Do not use extension cords in the following conditions:

- ⇨ Missing ground pin **(1)**
- ⇨ Spliced **(2)**
- ⇨ Coiled **(3)**
- ⇨ Frayed **(4)**
- ⇨ Overloaded **(5)**



1. Allow the engine to warm up and the idle to stabilize before connecting any devices.
2. Inspect power cord for damage before using. Do not connect any electrical devices with cords or plugs showing signs of damage from crushing, cutting, or heat, or other. Never use cords that are coiled; always uncoil cords before using.
3. Make sure electrical devices are off before connecting them to the generator.

7.7.4 Generator Load Capacity

Before connecting any devices, you must make sure your generator can supply enough rated (running watts) and starting (surge watts) for the electrical devices you wish to power. Exceeding the capacity of generator can damage the generator and/or electri-

cal devices connected to it. Follow the instructions in this section to be sure you do not exceed the maximum output of the generator.

Calculating device wattage requirement

Every electrical device has a stated amount of power it needs to operate correctly. Expressed in watts, the power requirement can vary widely depending on the device. To find the wattage, first look in the owners manual of the device. If you do not have the manual, look for a nameplate on the device itself. Many will give you the wattage, but some may only indicate the current requirement (amperage). To find the wattage, simple multiply the current by the operating voltage. For example, a saw has a current requirement of 5.5 amperes at 120 volts. Multiplying 5.5 by 120 gives a wattage of 660.

Understanding device surge

Devices with inductive loads (motors, transformers, ballasted lights) require more power to start than they require to run. Called surge watts, this extra amount of starting power may only last a second or two as the device powers up, but it must be considered to avoid exceeding the generator's maximum starting output. Surge watts are typically three (3) times higher than the required running watts. For example, a 800-watt motor will require about 2400 watts to start.

To power multiple devices at the same time, you will first need to be sure the surge from all the devices you wish to power does not exceed the maximum starting watts the generator can provide. Second, you must add up all the device running watts and make sure the total does not exceed the maximum running wattage the generator can provide.

For estimated running watts of common electric devices, see Generator Load Chart on page 55.

7.7.5 Generator Load Chart

Do not overload the generator. Overloading the generator may damage the generator and/or the devices plugged into the generator. Refer to the chart below to understand the loads electrical devices create when running.

Device	Running Watts	Device	Running Watts
Air conditioner (12,000 BTU)	1,700	Hand drill	250 – 1,100
Air conditioner (24,000 BTU)	3,800	Hedge trimmer	450
Air conditioner (40,000 BTU)	6,000	Impact wrench	500
Battery charger (20A)	500	Iron	1,200
Belt sander (3 in.)	1,000	Jet pump	800
Chain saw	1,200	Lawn mower	1,200
Circular saw (6-1/2 in.)	800 – 1,000	Light bulb	100
Clothes dryer (electric)	5,750	Microwave oven	700 – 11,000
Clothes dryer (gas)	700	Milk cooler	1,100
Clothes washer	1,150	Oil burner on furnace	300
Coffee maker	1,750	Oil fired space heater (140,000 BTU)	400
Compressor (1 hp)	2,000	Oil fired space heater (85,000 BTU)	225
Compressor (3/4 hp)	1,800	Oil fired space heater (30,000 BTU)	150
Compressor (1/ 2 hp)	1,400	Paint sprayer, airless (1/3 hp)	600
Curling iron	700	Paint sprayer, airless (handheld)	150
Dehumidifier	650	Radio	50 – 200
Disc sander (9 in.)	1,200	Refrigerator	700
Edge trimmer	500	Slow cooker	200
Electric blanket	400	Submersible pump (1-1/2 hp)	2,800
Electric nail gun	1,200	Submersible pump (1 hp)	2,000
Electric range (per element)	1,500	Submersible pump (1/2 hp)	1,500
Electric skillet	1,250	Sump pump	800 – 1,050
Freezer	700	Table saw (10 in.)	1,750 – 2,000
Furnace fan (3/5 hp)	875	Television	200 – 500
Garage door opener	500 – 750	Toaster	1,000 – 1,650
Hair dryer	1,200	Weed trimmer	500

All the listed running watt ratings in this table are approximate. Please refer to the device's manual or contact the device's manufacturer for exact running and starting watts.

NOTE: Starting a device can require as much as three (3) times the running watts.

7.8 Stopping the Machine

1. Turn off and unplug all devices from the generator outlets.
2. Turn the engine control switch to the OFF position.

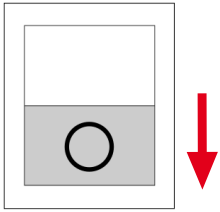


Fig. 26: Engine switch in OFF position

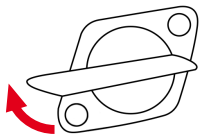


Fig. 27: Fuel valve in OFF position

3. Turn fuel valve to the OFF position. For fuel valve location, see Component Locations—GP2500 on page 22 or see Component Locations—GP4000 / 5500 / 7000 on page 25, depending on your model.
4. Allow the engine to cool completely before storing.

8 Maintenance

8.1 Generator Maintenance

⚠ CAUTION

Property damage and personal injury hazard

Improper engine and generator maintenance and failing to correct problems before operation could void the warranty and may result in property damage and injury.

► To prevent these hazards, follow the maintenance procedures and timelines listed in this manual and any other manual that came with this product.

For safety reasons, the manufacturer recommends all generator service and repairs be performed by a qualified service center. Normal maintenance, replacement, and/or repair of emission control devices or systems may be performed by any establishment or individual. However, all warranty replacements or repairs must be performed by an authorized service center. To find an authorized service center near you, to make a warranty claim, or for authorized warranty repair, call 1-800-770-0957 or www.wackerneuson.com.

It is the responsibility of the owner and/or operator to have all scheduled maintenance completed before operating the generator. Before servicing or inspecting the generator, stop the generator, disconnect all electrical devices, and allow the generator and engine to cool down.

NOTE: This Maintenance chapter refers to all parts of the generator except engine. Please refer to the engine manual for engine maintenance information.

8.2 Engine Maintenance

⚠ WARNING

Health hazard

The air filter element and air box assembly may contain polycyclic aromatic hydrocarbons (PAHs). Some PAHs may cause cancer.

► Wear gloves when performing air filter maintenance.

Refer to the engine manual for all engine maintenance information.

8.3 Changing the Engine Oil

⚠ WARNING

Health hazard

Most used oil contains small amounts of materials that can cause cancer and other health problems if inhaled, ingested, or left in contact with skin for prolonged periods of time.

► Take steps to avoid inhaling or ingesting used engine oil.

► Wash skin thoroughly after exposure to used engine oil.

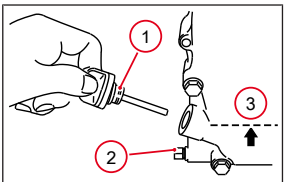


Fig. 28: Engine oil filter plug, drain plug, and crankcase

1. Drain the oil while the engine is still warm.
2. Remove the oil filler plug **(1)** and the drain plug **(2)** to drain the oil.
   Note: In the interests of environmental protection, place a plastic sheet and a container under the machine to collect any liquid that drains off. Dispose of this liquid in accordance with environmental protection legislation.
3. Install the drain plug.
4. Fill the engine crankcase with the recommended oil up to the level of the plug opening **(3)**. See *Technical Data* for oil quantity and type.
5. Install the oil filler plug.

8.4 Engine Idle Adjustment

NOTICE

Machine damage hazard

Improper adjustment of the engine idle speed can damage your engine and/or generator set and will void the warranty. Tampering with or modifying the engine speed governor can damage your engine and/or generator set and will void the warranty.

► Any inspection and or adjustment of the engine idle should be done by an authorized service center.

NOTICE

Machine damage hazard

The generator and engine are factory set to supply the correct frequency and voltage when running. Tampering with the factory governors and adjustments could damage the generator and will void your warranty.

► To avoid damaging the engine or generator set, do not modify the generator settings or adjust the engine speed.

The engine idle speed is set at the factory and should not require user adjustment. Tampering with the governor can damage your engine and/or generator and will void the warranty.

8.5 Cleaning the Spark Arrester

⚠ CAUTION

Fire hazard

Operation of this product may create sparks that can start fires around dry vegetation.

- ► If the generator will be used around flammable materials, grasslands, woodlands, or other dry vegetation, an approved spark arrester must be installed.
- ► In some areas, a spark arrester is required by law. Contact your local fire agencies for fire prevention laws and regulations and have a spark arrester installed by an authorized service center if needed.

For models equipped with a spark arrester. The spark arrester must be maintained per the maintenance schedule in the engine manual. In the State of California, a spark arrester is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. For spark arrester location, Component Locations—GP2500 or Component Locations—GP4000/5500/7000 depending on your model.

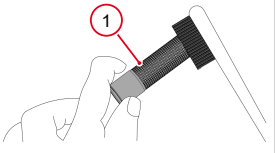


Fig. 29: Cleaning the spark arrester

1. Allow the engine to cool completely before servicing the spark arrester **(1)**.
2. Remove any screw(s) retaining the spark arrester.
3. Remove the spark arrester screen assembly from the muffler/exhaust pipe.
4. Carefully clean the spark arrester by burning the deposits from the screen with a small torch or by gently scrubbing the screen with a soft wire brush.
5. Replace the spark arrester if the screen has holes or other damage.
6. Insert the spark the now cleaned or replaced spark arrester into the muffler/exhaust pipe and replace retaining screw(s).

8.6 Cleaning

NOTICE

Machine damage hazard

Water can damage the generator windings and other components if allowed to enter through cooling slots or other holes. Damage caused by water intrusion is not covered under warranty.

- ► Do not use a pressure washer, garden hose, or any other sources of running water to clean the generator.
- ► Never submerge the generator in any liquids.

Always clean the machine with the engine off and cool. To clean the machine, first use an air compressor set at no more than 25 psi to clear dirt and debris from the machine surfaces, vents, and cooling slots. Then, wipe the exterior clean with a damp cloth.

9 Storage

9.1 General

NOTICE

Fuel system damage hazard

It is important to prevent gum deposits from forming in essential fuel system parts, such as the carburetor, fuel filter, fuel hose or tank during storage. Alcohol-blended fuels (also called gasohol, ethanol, or methanol) attract moisture, which leads to separation and formation of acids during storage. Acidic fuel and gum deposits can damage the engine's fuel system while in storage. Effects of old, stale, or contaminated fuel are not covered under warranty.

- ► Using a fuel stabilizer when storing gasoline will help prevent problems related to ethanol alcohol in outdoor power equipment engines.
- ► Always follow the instructions provided by the fuel stabilizer manufacturer to mix and use correctly.

9.1.1 Storing for Two Months or Less

1. Fill fuel tank and add a fuel stabilizer created for alcohol blended fuels. For further information, see Operating Checklist on page 40.
2. Start the engine and run it for ten (10) minutes to allow the stabilized fuel circulate through the entire fuel system. For further information, see Starting the Machine on page 49.
3. With the engine still running, turn the fuel valve to the OFF position and allow the engine to run until it stalls from lack of fuel.
4. Allow the engine to cool completely.
5. Clean the generator. For further information, see Maintenance on page 58.
6. Store the generator in a clean, dry area that is out of direct sunlight.

9.1.2 Storing for More Than Two Months

1. Make sure the engine is completely cool.

2. Turn the fuel valve to the ON position.
3. Remove all the fuel from fuel tank, fuel lines, and carburetor by loosening the drain screw at the bottom of the carburetor, then drain fuel into an appropriate container.
4. Turn the fuel valve to the OFF position.
5. Change the engine oil.
6. Remove any dirt and debris from the area around the spark plug, then use a spark plug socket or wrench to remove the spark plug.
7. Pour 15 ml (0.5 oz.) of new oil into the engine combustion chamber, then slowly crank the engine by pulling the recoil two (2) times to distribute oil and lubricate the cylinder.
8. Install the spark plug.
9. Clean the generator. For further information, see Maintenance on page 58.
10. Store the generator in a clean, dry area that is out of direct sunlight.

10 Troubleshooting

10.1 Generator

Problem	Possible Causes	Solutions
Generator has no output	Circuit breakers are off	Unplug all devices and reset all the circuit breakers to the ON position.
	Device or cord failure	Unplug device and check the cord and the device for damage or lose connections.
	GFCI tripped (if equipped)	Unplug the device then press the RESET button.
	Generator needs service	Take to an authorized service center.

10.2 Engine

Problem	Possible Causes	Solutions
Engine will not start For more information refer to the engine manual.	Engine control switch in OFF position	Turn the engine control switch to the ON position.
	Choke not set correctly	Set the choke. For further information, [▷ 49].
	Empty fuel tank	Add fuel to tank. For further information, [▷ 40].
	Fuel not reaching carburetor	Turn the fuel valve to the ON position.
	Low engine oil	Check the oil level and fill as needed per the engine manual.
	Spark plug in bad condition	Inspect, clean, set gap, or replace the spark plug per the engine manual.
	Fuel old or stale	Remove stale fuel and replace it with fresh fuel.
	Engine needs service	Take to an authorized service center.

11 Technical Data

11.1 Generator and Engine

	Units	2500A	4000A	5500A	7000A
Generator Set					
Frequency	Hz	60			
Voltage	V	120	120 / 240		
Phase	—	Single			
Running watts [1)]	W	2,250	3,800	5,000	6,500
Starting watts	W	2,500	4,000	5,500	7,200
Power factor	—	1.0			
Insulation rate	—	Class “H” (125°C / 40°C)			
Fuel capacity	L (gal)	15 (3.9)	30 (7.9)		
Engine					
Model	—	Honda GX160	Honda GX270	Honda GX390	
Displacement	cc	163	270	389	
Start style	—	Recoil			
Oil capacity	L (qt)	0.58 (0.61)	1.1 (1.16)		

1) Generator per Portable Generator Manufacturers’ Association (PGMA) standard ANSI / PGMAG6300-2015, Safety and Performance of Portable Generators

12 Emission Information

The Environmental Protection Agency (and California Air Resource Board of generators certified to CA standards) requires that this generator comply with exhaust and evaporative emission standards. Locate the emissions compliance decal on the engine to determine what standards the generator meets and which warranty applies. This generator is certified to operate on gasoline.

The emission control system includes the following components (if equipped):

Air Induction System

- Intake pipe or manifold
- Air cleaner

Fuel System

- Carburetor
- Fuel tank and cap
- Fuel lines
- Evaporative vent lines
- Carbon canister

Ignition System

- Spark plug
- Ignition module

Exhaust System

- Exhaust manifold
- Muffler
- Pulsed air valve
- Catalyst

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Material Number:
5100070606
Language: [en-US]