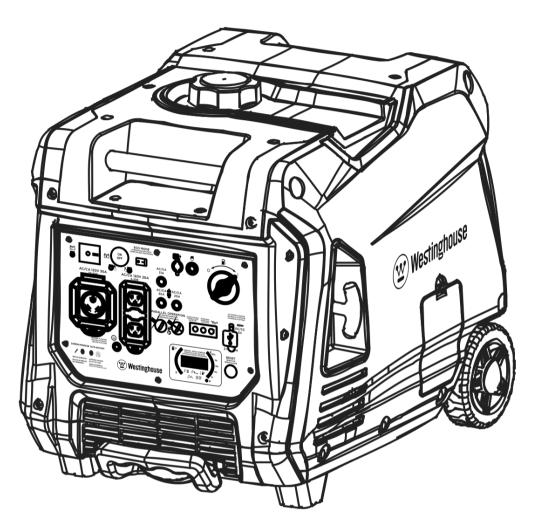


USER MANUAL



iGen**4500**c

Digital Inverter Generator

Gasoline: 3700 Running Watts | 4500 Peak Watts

DO NOT RETURN THIS PRODUCT TO THE STORE

If you have questions or need assistance, please call customer service at 855-944-3571.

INTRODUCTION

TABLE OF CONTENTS	
DISCLAIMERS	2
ALL RIGHTS RESERVED	2
SPECIFICATIONS	3
SAFETY	
SAFETY DEFINITIONS	4
SAFETY SYMBOLS	4
SAFETY INSTRUCTIONS	5
CO SENSOR	7
ACTION LABEL	7
CONTROL PANEL CO AUTO-SHUTOFF	7
SAFETY LABELS AND DECALS	8
COMPONENTS	
GENERATOR COMPONENTS	9
CONTROL PANEL COMPONENTS	10
ASSEMBLY	
INITIAL OIL FILL	11
FUEL	12
CONNECT THE BATTERY	12
GENERATOR LOCATION	13
OPERATION	
GROUNDING	14
REMOTE START	14
FUEL SWITCH	15
BREAK-IN PERIOD	15
BEFORE STARTING THE GENERATOR	15
STARTING THE ENGINE	15
STOPPING THE ENGINE	15
FREQUENCY OF USE	15
ECO MODE	15
AC CIRCUIT BREAKERS	16

OVERLOAD RESET	16
POWER MANAGEMENT	17
EXTENSION CORDS	17
PARALLEL OPERATION	18
TRANSPORTING	18
MAINTENANCE	
MAINTENANCE SCHEDULE	19
MAINTENANCE REPLACEMENT PARTS	19
AIR FILTER MAINTENANCE	19
ENGINE OIL LEVEL CHECK	20
ENGINE OIL CHANGE	21
SPARK PLUG MAINTENANCE	21
SPARK ARRESTOR SERVICE	22
BATTERY MAINTENANCE	22
BATTERY REPLACEMENT	22
STORAGE	23
VALVE CLEARANCE	24
MANUALLY SET THE CHOKE	24
TROUBLESHOOTING	
EXPLODED VIEW AND PARTS LIS	STS
ENGINE EXPLODED VIEW	26
ENGINE PARTS LIST	27
GENERATOR EXPLODED VIEW	29
GENERATOR PARTS LIST	30
SCHEMATICS	
SCHEMATICS	32

⚠ WARNING: Operating, servicing, and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, and wear gloves or wash your hands frequently when servicing this equipment. For more information go to www. P65warnings.ca.gov.

DISCLAIMERS

All information, illustrations, and specifications in this manual were in effect at the time of publishing. The illustrations used in this manual are intended as representative reference views only. We reserve the right to make any specification or design change without notice.

ALL RIGHTS RESERVED

All rights reserved. No reproduction allowed in any form without written permission from Westinghouse Outdoor Power Equipment, LLC.

A DANGER



Read this manual before using or performing maintenance on this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death.

SAVE THESE INSTRUCTIONS

INTRODUCTION

SPECIFICATIONS

Specifications		
Model:	iGen4500c	
Running Watts:	3700 Gas	
Peak Watts:	4500 Gas	
Rated Voltage:	120V	
Rated frequency:	60 Hz	
Phase:	Single phase	
Total Harmonic Distortion:	≤ 3%	
Engine Displacement:	224 cc	
Starting Type:	Recoil, Electric Start, Remote	
Fuel Capacity:	3.4 Gal (12.8 L)	
Fuel Type:	e: 87-93 octane*	
Oil Capacity:	7: 0.63 US qt (0.60 L)	
Oil Type:	: 10W30	
Spark Plug:	: F7RTC	
Spark Plug Gap:	• 1	
	(0.60 – 0.80 mm)	
Valve Intake	0.0031 – 0.0047 in	
Clearance:	(0.08 – 0.12 mm)	
Valve Exhaust	0.0051 – 0.0067 in	
Clearance:	(0.13 – 0.17 mm)	
AC Grounding System:	Floating neutral	
Voltage Regulator:	Digital	
Alternator Type:	Permanent magnet	
Maximum Ambient Temperature:	104°F (40°C)	
Certifications:	: PPA • CARB	

^{*}Ethanol content of 10% or less. DO NOT use E15 or E85.

NOTICE

This product is designed and rated for continuous operation at ambient temperatures up to 104°F (40°C). If needed, this product can be operated at temperatures ranging from 5°F (15°C)-122°F (50°C) for short periods. If the product is exposed to temperatures outside of this range during storage, it should be brought back within this range before operation. This product must always be operated outdoors in a well-ventilated area and away from doors, windows, and other vents.

Maximum wattage and current are subject to and limited by such factors as fuel BTU content, ambient temperature, altitude, engine conditions, etc. Maximum power decreases about 3.5% for each 1,000 feet above sea level, and will also decrease about 1% for each 10°F (6°C) above 60°F (16°C) ambient temperature.

PRODUCT REGISTRATION

For trouble-free warranty coverage, it is important to register your Westinghouse generator.

You can register by:

- · Completing and mailing the product registration card included in the carton.
- Registering your product online at: https://westinghouseoutdoorpower.com/pages/ warranty-registration
- Scanning the following QR code with your smartphone camera. You will be directed to the mobile registration



• Sending the following product information to:

Westinghouse Outdoor Power Warranty registration 777 Manor Park Drive Columbus, OH 43228

For Your Records

Date of Purchase:	
Model Number:	
Serial Number:	
Place of Purchase:	

IMPORTANT: Keep your purchase receipt for trouble-free warranty coverage.

SAFETY

SAFETY

SAFETY DEFINITIONS

The words DANGER, WARNING, CAUTION and NOTICE are used throughout this manual to highlight important information. Make sure that the meanings of this safety information is known to all who operate, perform maintenance on, or are near the generator.



This safety alert symbol appears with most safety statements. It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alerts symbol.

A DANGER

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

AWARNING

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

A CAUTION

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

NOTICE

Indicates a situation which can cause damage to the generator, personal property, and/or the environment, or cause the equipment to operate improperly.

Note: Indicates a procedure, practice or condition that should be followed for the generator to function in the manner intended.

SAFETY SYMBOLS

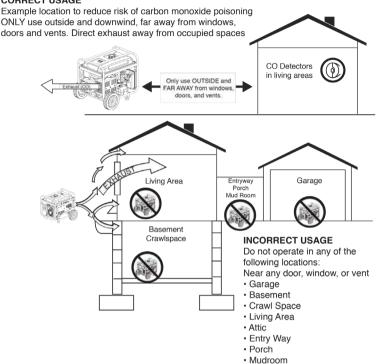
Follow all safety information contained in this manual and on the generator.

Symbol	Description		
\triangle	Safety Alert Symbol		
	Electrocution Hazard		
	Asphyxiation Hazard		
	Burn Hazard. Do not touch hot surfaces.		
A	Electrical Shock Hazard		
	Fire Hazard		
	Maintain Safe Distance		
₹	Lifting Hazard		
(Sp)	Read Manufacturer's Instructions		
	Do Not Operate in Wet Conditions		

SAFETY INSTRUCTIONS

CORRECT USAGE





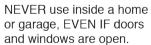
NOTICE

Install battery-powered carbon monoxide detectors or plug-in carbon monoxide detectors with battery back-up in living areas.

Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.











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

A DANGER

Fire and electrocution hazard. Do not connect to a building's electrical system unless the generator and transfer switch have been properly installed and the electrical output has been verified by a qualified electrician. The connection must isolate the generator power from utility power and must comply with all applicable laws and electrical codes.

A DANGER

Electrocution hazard. Never use the generator in a location that is wet or damp. Never expose the generator to rain, snow, water spray, or standing water while in use. Protect the generator from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical circuit.

SAFETY

GENERAL SAFETY PRECAUTIONS

- Never use the generator to power medical support equipment.
- Do not operate the generator when you are tired or under the influence of drugs, alcohol, or medication.
- Do not use generator with electrical cords which are worn, frayed, bare, or otherwise damaged.
- All electrical tools and appliances operated from this generator must be properly grounded by use of a third wire or be double-insulated.
- When this generator is used to supply a building wiring system the generator must be installed by a qualified electrician and connected to a transfer switch as a separately derived system in accordance with NFPA 70, National Electrical Code.
- If you begin to feel sick, dizzy, or weak while using the generator, move to fresh air IMMEDIATELY. See a doctor, as you can have carbon monoxide poisoning.
- Only use OUTSIDE and far away from windows, doors, and vents as recommended by the US Department of Health and Human Services Centers for Disease Control and Prevention. Your specific home and/or wind conditions may require additional distance.
- While operating and storing, keep at least 3 feet of clearance on all sides of the generator, including overhead. Allow the generator to cool a minimum of 30 minutes before storage. Heat created by the muffler and exhaust gases could be hot enough to cause serious burns and/or ignite combustible objects.
- Do not touch the muffler or engine. They are very HOT and will cause severe burns. Do not put body parts or any flammable or combustible materials in the direct path of the exhaust.
- Always remove any tools or other service equipment used during maintenance away from the generator before operating.
- Avoid skin contact with engine oil or gasoline. Wear protective clothing and equipment. Wash all exposed skin with soap and water.

FUEL SAFETY

- Store fuel in a container approved for gasoline.
- Do not smoke when filling the generator with gasoline.
- Do not allow the generator's gas tank to overflow when filling.
- Shut down the engine and allow it to cool for five minutes before adding gasoline or oil to the generator.
- Never remove the fuel cap when the generator is running. Shut off the engine and allow the unit to cool at least five minutes. Remove the fuel cap slowly to release pressure, keep fuel from escaping around the cap, and to avoid the heat from the muffler igniting fuel vapors. Tighten the fuel cap securely after refueling.
- Wipe spilled fuel from the unit.
- Never attempt to burn off spilled fuel.
- Never overfill the fuel tank. Leave room for fuel to expand. Overfilling the fuel tank can result in a sudden overflow of gasoline and result in spilled gasoline coming in contact with HOT surfaces.
- Spilled fuel can ignite. If fuel is spilled on the generator, wipe up any spills immediately. Dispose of rag properly. Allow area of spilled fuel to dry before operating the generator.
- · Wear eye protection while refueling.
- · Never use gasoline as a cleaning agent.
- Store any containers containing gasoline or LPG/ propane in a well-ventilated area, away from any combustibles or source of ignition.

GASOLINE AND GASOLINE VAPOR (GAS)

A DANGER

Fire and explosion hazard. Gasoline and LPG/propane are highly explosive and flammable and can cause severe burns or death.

- In case of a gas fire, do not attempt to extinguish the flame if the fuel valve is in the gas position. Introducing an extinguisher to a generator with an open fuel valve could create an explosion hazard.
- Gas has a distinctive odor, this will help detect potential leaks quickly.
- · Gas vapors can cause a fire if ignited.
- Gasoline is a skin irritant and needs to be cleaned up immediately if it comes in contact with the skin.

CO SENSOR

The CO Sensor monitors for the accumulation of poisonous carbon monoxide gas around the generator when the engine is running. If increasing levels of CO gas are detected, the CO Sensor automatically shuts down the engine.

The CO Sensor will also detect the accumulation of carbon monoxide from other fuel burning sources used in the area of operation. For example, if the exhaust of fuel burning tools is pointed at a CO Sensor-equipped generator, a shut-off may be initiated due to rising CO levels. This is not an error. Hazardous carbon monoxide has been detected. Move and redirect any additional fuel burning sources to dissipate carbon monoxide away from personnel and occupied buildings.

Note: Remote start-equipped generators must be restarted with the START/STOP button on the control panel after an automatic shut-down occurs.

Generators are intended to be used outdoors, far from occupied buildings and the exhaust pointed away from personnel and buildings. If misused and operated in a location that results in the accumulation of CO, like in a partially enclosed area, the CO Sensor shuts off the engine, notifies the user with a RED indicator light, and directs the user to read the Action Label for steps to take. The CO Sensor DOES NOT replace carbon monoxide alarms. Install battery-powered carbon monoxide alarm(s) in your home.

▲ WARNING

Automatic shutoff accompanied with a flashing RED light in the CO Sensor portion of the control panel is an indication that the generator was improperly located. If you start to feel sick, dizzy, weak, or carbon monoxide detectors in your home indicate an alarm, get to fresh air immediately. Call emergency services. You may have carbon monoxide poisoning.

CONTROL PANEL CO AUTO-SHUTOFF

CARBON MONOXIDE AUTO-SHUTOFF







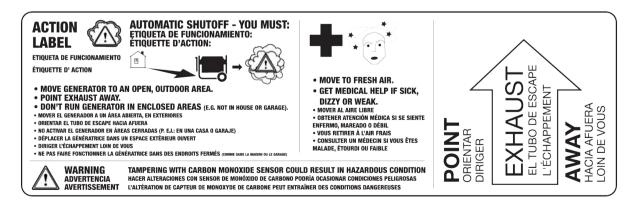
SERVICE GENERATOR REALICE UN SERVICIO DEL GENERADOR

AUTOMATIC SHUTOFF SEE MANUAL CORTE AUTOMÁTICO LEER EL MANUAL

CO SENSOR INDICATOR LIGHTS

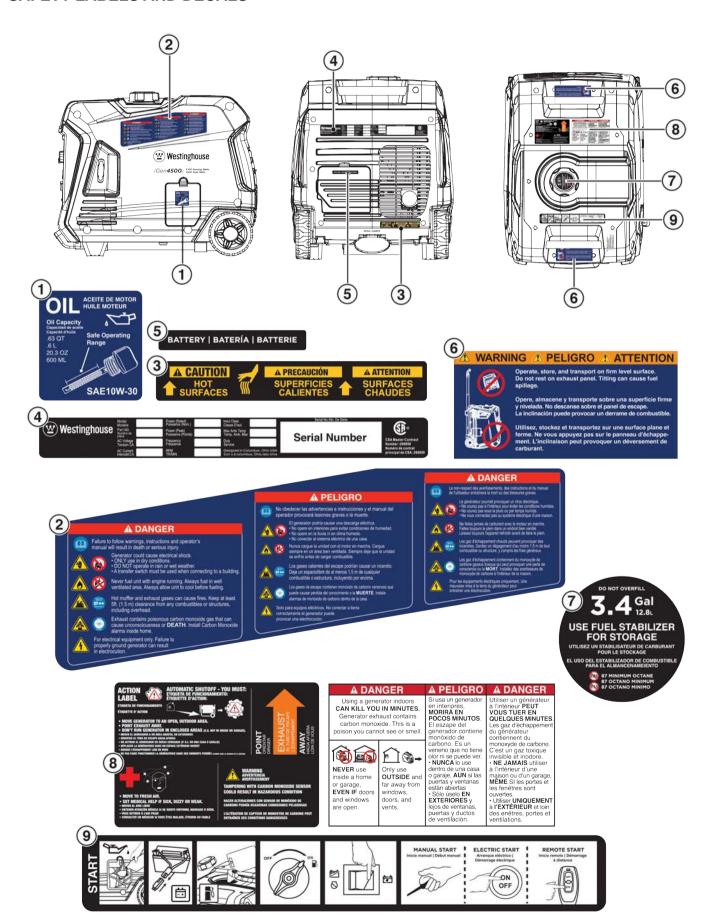
Color	Description
RED	Carbon monoxide accumulated around the generator. After shut-off, the RED indicator light in the CO Sensor area of the control panel will flash to provide notification that the generator was shut-off due to an accumulating CO hazard. The RED light will flash for at least five minutes after a CO shut-off.
	Move the generator to an open, outdoor area far away from occupied spaces with exhaust pointed away. Once relocated to a safe area, the generator can be restarted. Introduce fresh air and ventilate the area where the generator had shut down.
YELLOW	A CO sensor system fault occurred. When a system fault occurs, the generator is automatically shut down and the YELLOW indicator light in the CO auto-shutoff area of the control panel will flash to provide notification that the fault has occurred. The YELLOW light will flash for at least five minutes after a fault. The generator can be re-started, but may continue to shutoff. A CO sensor fault can only be diagnosed and repaired by an authorized Westinghouse service center.

ACTION LABEL



SAFETY

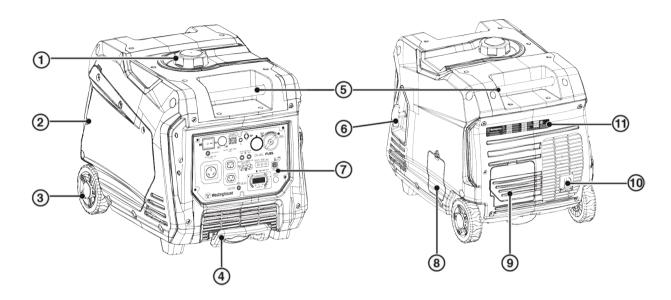
SAFETY LABELS AND DECALS



COMPONENTS

COMPONENTS

GENERATOR COMPONENTS



- 1. Fuel Cap: Add unleaded fuel here. Close the cap until it clicks.
- 2. Engine Service Cover: Cover provides access to the engine, air cleaner, carburetor, and spark plug.
- 3. Transport Wheels: Wheels allow one-handed maneuverability when used with the extendable handle.
- 4. Extendable Handle: Extend and retract the handle by pushing the locking button.
- 5. Carry Handles: Built-in handles allow easy, twoperson transport.

- 6. Recoil Handle: Pull the recoil handle to manually start the engine.
- 7. Control Panel: The control panel contains the outlets and operational controls.
- 8. Oil Access Cover: Cover provides access to the oil fill cap/dipstick and oil drain plug.
- 9. Battery Access Cover: Cover provides access to the battery and quick-connect plug.
- 10. Muffler and Spark Arrestor: The spark arrestor prevents sparks from exiting the muffler.
- 11. Model Information Label: Provides model serial number, voltage/amps, and power rating information.

DATA CENTER



Voltage:

Displays current voltage output.



Frequency (Hz):

Displays power output frequency in Hertz.



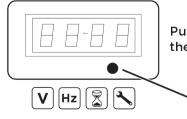
Lifetime Hours:

Displays the lifetime run hours.



Run Time/Maintenance:

Displays current run time. Resets to zero when shut down. Maintenance reminder displayed when required.

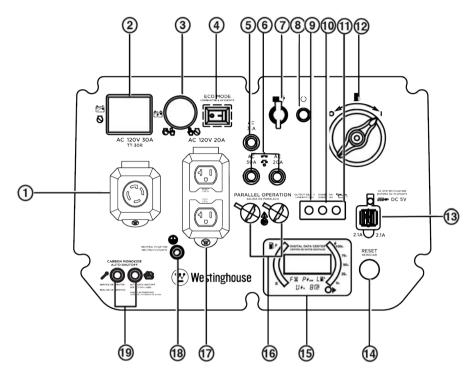


Push the Mode button to cycle through the data display modes.

Mode Button

COMPONENTS

CONTROL PANEL COMPONENTS



- 1. 120 Volt AC, 30 Amp NEMA TT-30R Receptacle: Receptacle can supply a maximum of 30 Amps.
- Battery Switch: Turns battery ON and OFF. Must be ON before electric start or remote start.
- **3. Push-ButtonStart/Stop:** Push once to automatically start the engine. Push again to stop the engine.
- **4. Eco Mode:** Eco mode minimizes fuel consumption and noise by adjusting the engine RPM to the minimum required for the current load.
- 5. 30 Amp AC Circuit Breaker: Receptacle can supply a maximum of 30 Amps.
- 20 Amp AC Circuit Breaker: Circuit breaker limits the current that can be delivered through the NEMA 5-20R receptacle to 20 Amps.
- **7. Battery Charging Port**: Used to charge the battery with the included battery charger.
- **8. Battery Indicator:** Indicates that battery power is ON. Light will remain illuminated while the unit is ON.
- **9. Output Ready LED:** Illuminates when the generator is operating normally. Indicates the generator is producing electrical power at the receptacles.
- **10. Overload LED:** Indicates that the generator is overloaded.
- 11. Low Oil LED: Indicates low oil level. When the oil level in the crankcase falls below the safe operating limit, the low oil level indicator will illuminate and the generator will automatically shut off the engine.
- 12. Fuel Switch: Used to turn gas valve open or closed.

- **13. USB Ports:** Two-port 5V/2.1A USB outlet. Accepts Type A USB plugs.
- **14. Overload Reset:** The generator inverter will automatically switch OFF all AC output to protect the generator if overloaded or if there is a short circuit in a connected appliance.
- **15. LED Data Center:** Displays remaining run time (F), power output in kW (P), fuel level in liters (L), voltage output (V), and lifetime hours.
- **16. Parallel Operation Outlets:** A compatible Westinghouse Inverter Generator can be connected for additional power output.
- 17. 120 Volt AC, 20 Amp Duplex NEMA 5-20R Receptacles: Receptacles can supply a maximum of 20 Amps.
- **18. Ground Terminal:** The ground terminal is used to externally ground the generator.
- 19. CO Sensor indicator lights: The CO Sensor monitors for the accumulation of poisonous carbon monoxide gas. If increasing levels of CO gas are detected, the CO Sensor automatically shuts down the engine.

ASSEMBLY CARTON CONTENTS

A CAUTION

Weight hazard. Always have assistance when lifting the generator.

- 1. Carefully open the carton.
- 2. Remove and save the instruction manual, oil bottle, oil funnel, spark plug socket wrench, and battery charger.
- 3. Remove and discard the packing tray.
- **4.** Unfold the top of the plastic bag enclosing the generator.
- 5. Carefully cut the vertical corners of the carton to access the generator.
- **6.** Recycle or dispose of the packaging materials properly.

CARTON CONTENTS

- User manual
- Quick Start Guide/Maintenance Schedule
- Remote start key fob (attached to recoil starter)
- 0.63 Quart (0.6 Liter) bottle of SAE 10W-30 Oil
- · Battery charger
- · Spark plug wrench
- Oil Funnel
- Screwdriver

If any parts are missing, contact our service team at service@wpowereg.com or call 1-855-944-3571.

INITIAL OIL FILL

NOTICE

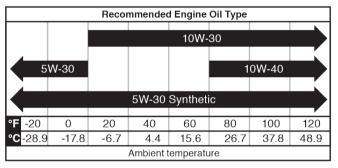
THIS GENERATOR HAS BEEN SHIPPED WITHOUT

OIL. Do not attempt to crank or start engine before it has been properly serviced with recommended oil. Failure to add engine oil before starting will result in serious engine damage.

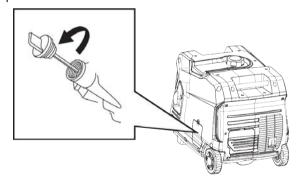
NOTICE

Use of 2-stroke/cycle oil or other unapproved oil types can cause severe engine damage that is not covered under warranty.

The included, recommended oil type for typical use is 10W-30 engine oil. If running the generator in extreme temperatures, refer to the following chart.



1. On a level surface, remove the oil access cover and oil dipstick.



2. Using the supplied funnel and oil, add oil into the engine.

Note: As residual oil from the factory may remain in the engine, add the oil incrementally near the end of the bottle to prevent overfilling the engine. See Engine Oil Level Check in the Maintenance section.

- 3. Replace the oil dipstick and hand-tighten.
- 4. Replace the oil access cover.

ASSEMBLY

FUEL

AWARNING

Fire and explosion hazard. Never use a gasoline container, gasoline tank, propane connector hose, propane tanks, or any other fuel item that is broken, cut, torn or damaged.

A DANGER

Fire and explosion hazard. Do not overfill fuel tank. Fill only to the red fill ring located in the in-tank fuel screen filter. Overfilling may cause fuel to spill onto engine causing a fire or explosion hazard.

A DANGER

Fire and explosion hazard. Never refuel the generator while the engine is running. Always turn the engine off and allow the generator to cool for two minutes before refueling.

NOTICE



Do not use E15 or E85 fuel in this product. Engine or equipment damage caused by stale fuel or the use of unapproved fuels (such as E15 or E85 ethanol blends) is not covered by warranty. Only use unleaded gasoline containing up to 10% ethanol.

FUEL REQUIREMENTS

- CLEAN, FRESH, unleaded gasoline, 87-93 octane.
- Up to 10% ethanol (gasohol) is acceptable (where available; non-ethanol fuel is recommended).
- DO NOT use E85 or E15.
- DO NOT use a gas oil mix.
- DO NOT modify the engine to run on alternate fuels.
- · DO NOT fuel indoors.
- · DO NOT create a spark or flame while fueling.

USING FUEL STABILIZER

Adding a fuel stabilizer (not included) extends the usable life of fuel and helps prevent deposits from forming that can clog the fuel system. Follow the manufacturer's instructions for use.

Always mix the correct amount of fuel stabilizer to gasoline in an approved gasoline container before fueling the generator. Run the generator for five minutes to allow the stabilizer to treat the entire fuel system.

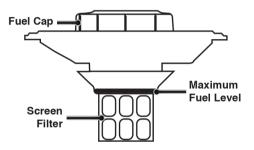
FILLING THE FUEL TANK

- **1.** Turn the generator OFF and allow to cool for a minimum of two minutes before fueling.
- 2. Place the generator on level ground in a well ventilated area.
- 3. Clean area around fuel cap and remove the cap slowly.

NOTICE

Only fill the tank from an approved gasoline container. Make sure the gasoline container is internally clean and in good condition to prevent fuel system contamination.

4. Slowly add the recommended fuel. Do not overfill. Fill only to the red maximum fill ring on the fuel screen filter visible in the filler neck.



5. Install the fuel cap and tighten until a click is heard.

NOTICE

Fuel can damage paint and plastic. Use caution when filling the fuel tank. Damage caused by spilled fuel is not covered under warranty.

NOTICE

Clean the fuel screen filter of debris before and after each fueling. Remove the fuel screen filter by slightly compressing it while removing it from the fuel tank.

CONNECT THE BATTERY

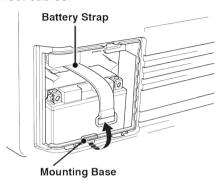
1. Push down the battery access cover tab and pull the cover forward to remove it.



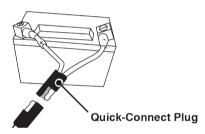
ASSEMBLY

2. Verify that the rubber battery strap is firmly securing the battery in place. If loose, pull on the strap and hook it onto the mounting base.

Note: If the strap is loose behind the battery, remove the battery, reconnect the strap, replace the battery, then thread the strap under the battery quick connect cables.



3. A quick-connect battery plug is pre-installed on the battery. Remove the cable tie securing the plugs then push firmly to connect them.



Align the tabs on the bottom of the battery access cover with the generator case then push to reinstall the cover.

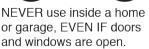
Note: The generator is equipped with a battery charging feature. Once the engine is running, a small charge will slowly recharge the battery.

GENERATOR LOCATION

Read and understand all safety information before starting the generator.

Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.









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

NEVER operate the generator inside any building, including garages, basements, crawlspaces, sheds, enclosure, or compartment, including the generator compartment of a recreational vehicle.

A DANGER

Electrocution hazard. Never use the generator in a location that is wet or damp. Never expose the generator to rain, snow, water spray, or standing water while in use. Protect the generator from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical circuit. Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution

A WARNING

Fire hazard. Only operate the generator on a solid, level surface. Operating the generator on a surface with loose material such as sand or grass clippings can cause debris to be ingested by the generator that could block cooling vents or the air intake system. Allow the generator to cool for 30 minutes before transport or storage.

The generator should be on a flat, level surface at all times (Even while not in operation). The generator must have at least 5 ft. (1.5 m) of clearance from all combustible material.

Do not operate the generator in the back of a SUV, camper, trailer, truck bed (regular, flat, or otherwise), under stairs, next to walls or buildings, or in any other location that will not allow for adequate cooling of the generator and/or the muffler. DO NOT contain generators during operation.

A DANGER

Asphyxiation hazard. Place the generator in a wellventilated area. DO NOT place the generator near vents or intakes where exhaust fumes could be drawn into occupied or confined spaces. Carefully consider wind and air currents when positioning generator.

OPERATION

GROUNDING

AWARNING

Shock hazard. Failure to properly ground the generator can result in electric shock.

The generator neutral is floating. The generator ground terminal is connected to the frame of the generator, the metal non-current-carrying parts of the generator, and the ground terminals of each receptacle. The generator (stator winding) is isolated from the frame and from the AC receptacle ground pin. Electrical devices that require a grounded receptacle pin connection may not function properly.

If this generator will be used only with cord and plug equipment connected to the receptacles mounted on the generator, National Electric Code does not require that the unit be grounded. However, other methods of using the generator may require grounding to reduce the risk of shock or electrocution.

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.

NOTICE

Only use grounded 3-prong extension cords, tools, and appliances, or double-insulated tools and appliances.

HIGH ALTITUDE OPERATION

Engine power is reduced the higher you operate above sea level. Output will be reduced approximately 3.5% for every 1000 feet of increased altitude from sea level.

High altitude adjustment is required for operation at altitudes over 5,000 ft. (1524 m). Operation without this adjustment will cause decreased performance, increased fuel consumption, and increased emissions. Operation of the engine at altitudes below 2,000 ft. (762 m) with the high altitude kit is not recommended.

High Altitude Carburetor Kit:	Part# 518916-01
High Altitude DF Regulator	
Manufactured before 7/19:	Part# 518918
Manufactured 7/19 and later:	Part# 518918-01

Note: You must purchase both the Dual Fuel Regulator and Carburetor Kit for proper high altitude operation.

REMOTE START

A WARNING

Verify that the area around the generator is clear before remote starting the generator.

The remote start key fob included with the generator should be attached to the recoil handle or control panel. If your unit was shipped without a key fob, contact Westinghouse customer service.

The generator can be started remotely from up to 99 feet (30 meter) using the remote start key fob.

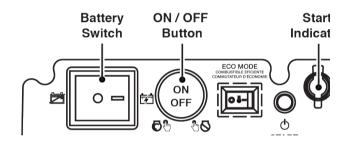
Note: As the batteries in the remote start key fob drain, operational distance will decrease.

Remote replacement batteries: (2) CR2016

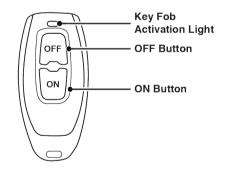
REPROGRAMMING THE REMOTE START

If the remote start key fob is replaced or needs re-paired to the generator, follow this procedure.

- 1. Turn the generator battery switch to the ON position.
- **2.** Push and hold the ON/OFF button for 10 seconds, then release. The start indicator light will flash green.

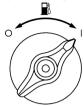


3. Push the ON button on the remote start key fob. It will pair with generator automatically and the start indicator light on the generator will stop flashing.

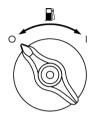


FUEL SWITCH

Turn the fuel switch fully to the right for gasoline operation.



Turn the fuel switch fully to the left to shut the fuel valve OFF.



BREAK-IN PERIOD

For proper break-in, do not exceed 50% of the rated running watts (1850 watts) during the first five hours of operation.

Vary the load occasionally to allow stator windings to heat and cool and help seat the piston rings.

BEFORE STARTING THE GENERATOR

Verify that:

- The generator is placed in an safe, appropriate location.
- The generator is on a dry, flat, and level surface.
- · The engine is filled with oil.
- · All loads are disconnected.
- The ECO switch is in the OFF position.

A DANGER

Fire and explosion hazard. DO NOT move or tip the generator during operation.

STARTING THE ENGINE

- 1. Verify that fuel is in the gas tank.
- 2. Turn the fuel switch to the right (ON).
- **3.** Push the battery switch to the ON position.
- **4.** Choose the starting method:
 - a. Recoil Start: Firmly grasp and pull the recoil handle slowly until you feel increased resistance, then pull rapidly.
 - **b. Remote Start:** Push and hold the ON button on the remote start key fob for one second.
 - **c. Push-Button Start:** Push and hold the engine start button for two seconds.

Note: The engine will automatically set the choke and begin the start sequence. If the engine fails to start, the generator will attempt to start the engine two more times.

STOPPING THE ENGINE

- Turn off and unplug all connected electrical loads. Never start or stop the generator with electrical devices plugged in or turned on.
- **2.** Let the generator run with no load for several minutes to stabilize internal temperatures of the engine and generator.
- **3.** Push and hold the ON/OFF button for one second or push OFF on the remote start key fob for one second.
- 4. Push the battery switch to the OFF position.
- 5. Turn the fuel switch left to the OFF position.

FREQUENCY OF USE

If the generator will be used on an infrequent or intermittent basis (more than one month before next use), refer to the Battery Maintenance and Storage sections of this manual for information regarding battery charging and fuel deterioration.

ECO MODE

NOTICE

Always start the generator with ECO MODE OFF. Allow the engine speed to stabilize and the OUTPUT READY LED to illuminate before switching ECO MODE ON.



Note: Do not use ECO MODE when in parallel operation with another Westinghouse generator.

ECO MODE minimizes fuel consumption and noise by adjusting the engine RPM to the minimum required for the current load.

Turn ECO MODE ON when powering small appliances with continuous loads such as a computer or electric light.

Turn ECO MODE OFF when powering large surge loads such as an air conditioner or electric pump.

To turn on ECO MODE, verify that the OUTPUT READY LED is illuminated green, then push the switch to the ON position. If no load is present, the generator RPM will drop to idle speed. The generator will detect loads as they are applied and increase engine RPM.

To run the generator at maximum power and RPM, push the ECO MODE switch to the OFF position.

AC CIRCUIT BREAKERS

The circuit breakers will automatically switch OFF if there is a short circuit or a significant overload of the generator at each receptacle. The main circuit breaker will automatically switch OFF if the combined load of the receptacles exceeds 31 Amps.

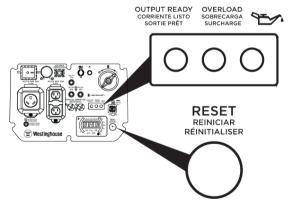
If an AC circuit breaker switches OFF automatically, check that the appliance is working correctly and it does not exceed the rated load capacity of the circuit before resetting the AC circuit breaker ON.



OVERLOAD RESET

The generator will automatically switch OFF all AC output to protect the generator if overloaded or if there is a short circuit in a connected appliance. However, the engine will continue to run. Marginal overloading that temporarily illuminates the OVERLOAD LED may shorten the service life of the generator.

OVERLOAD on the control panel will illuminate red and the green OUTPUT READY will be OFF.



To restore AC output:

- 1. Turn off and unplug all connected electrical loads.
- Push the RESET button on the control panel until the OVERLOAD LED goes OFF and the OUTPUT READY LED is illuminated.
- 3. Reset the circuit breakers if OFF.
- **4.** Verify that the intended running and surge loads do not exceed the generator's capacity.
- **5.** Reconnect electrical loads sequentially, allowing the generator to stabilize after each load is connected.

GENERATOR CAPACITY

NOTICE

Do not overload the generator's capacity. Exceeding the generator's wattage/amperage capacity can damage the generator and/or electrical devices connected to it.

Make sure the generator can supply enough continuous (running) and surge (starting) watts for the items you will power at the same time.

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

To determine power requirements:

- 1. Select the items you will power at the same time.
- 2. Total the continuous (running) watts of these items. This is the amount of power the generator must produce to keep the items running. See the wattage reference chart on the next page.
- 3. Estimate how many surge (starting) watts you will need. Surge wattage is the short burst of power needed to start electric motor-driven tools or appliances such as a circular saw or refrigerator. Because not all motors start at the same time, total surge watts can be estimated by adding only the item(s) with the highest additional surge watts to the total rated watts from step 2.

Example:

Tool or Appliance	Running Watts*	Starting Watts*
RV Air Conditioner (11,000 BTU)	1010	1600
TV (Tube Type)	300	0
RV Refrigerator	180	600
Radio	200	0
Light (75 Watts)	300	0
Coffee Maker	600	0
	2590 Total	1600
	Running	Highest
Watts*		Starting
		Watts*
Total F	2590	
Highest	+ 1600	
Total Starting \	4190	

^{*}Wattages listed are approximate. Verify actual wattage.

POWER MANAGEMENT

To prolong the life of the generator and attached devices. use care when adding electrical loads to the generator. There should be nothing connected to the generator outlets before starting the engine. The correct and safe way to manage generator power is to sequentially add loads as follows:

- 1. With nothing connected to the generator, start the engine as described in this manual.
- 2. Plug in and turn on the first load, preferably the largest load you have.
- 3. Permit the generator output to stabilize (engine runs smoothly and attached device operates properly).
- 4. Plug in and turn on the next load.
- **5.** Again, permit the generator to stabilize.
- 6. Repeat steps 4 and 5 for each additional load.

Wattage Reference

Tool or Appliance	Estimated Running Watts*	Estimated Starting Watts*	
Incandescent Lights	300	0	
(4 Quantity x 75 Watts)	000	3	
TV (Tube Type)	300	0	
Sump Pump (1/3 hp)	800	1300	
Refrigerator or Freezer	700	2200	
Well Pump (1/3 hp)	1000	2000	
Furnace (1/2 hp)	800	2350	
Radio	200	0	
Drill (3/8", 4 amps)	440	600	
Circular Saw	1400	2300	
(Heavy Duty, 7-1/4")	1400	2300	
Miter Saw (10")	1800	1800	
Table Saw (10")	2000	2000	

^{*}Wattages listed are approximate. Verify actual wattage.

EXTENSION CORDS

▲ WARNING

Asphyxiation hazard. Extension cords running directly into the home increase the risk of carbon monoxide poisoning through any openings. If an extension cord running directly into your home is used to power indoor items, there is a risk of carbon monoxide poisoning to people inside the home. Always use battery-powered carbon monoxide detector (s) that meet current UL 2034 safety standards when running the generator. Regularly check the detector (s) battery.

AWARNING

Asphyxiation hazard. When operating the generator with extension cords, make sure the generator is located in an open, outdoor area, far away from occupied spaces with exhaust pointed away.

A WARNING

Fire and electrocution hazard. Never use worn or damaged extension cords. Damaged or overloaded extension cords could overheat, arc, and burn resulting in death or serious injury.

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.
- Make sure the tool or 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.

EXTENSION CORD SIZING

Only use grounded 3-prong extension cords marked for outdoor use that are rated for the electrical load.

L			
Total	Minimum Gauge, Outdoor Rated		
Amperage	Up to 50 FT (15 M)	Up to 100 FT (30 M)	
Up to 10A	12	8	
Up to 15A	10	8	
Up to 20A	10	6	
Up to 30A	8	6	
Up to 35A	6	6	

PARALLEL OPERATION

AWARNING

Fire and electrocution hazard. Never connect or disconnect the parallel cord leads when a generator is running.

NOTICE

Connecting the iGen4500c to a generator that is not compatible can cause a low voltage output that can damage tools and appliances powered by the generator.

Parallel operation allows you to link the iGen4500c to a compatible Westinghouse Inverter Generator for combined running and peak power output. A Westinghouse parallel cord (purchased separately) is required for parallel operation. This cord can be purchased from an authorized Westinghouse Generator dealer.

Note: Do not use ECO MODE when in parallel operation with another Westinghouse generator.

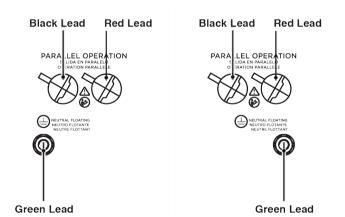
Parallel cord (50A/6000 Watts): Part# 507PC

Note: Compatible Westinghouse generators without parallel ports can be operated in parallel with the receptacle-mounted parallel cable, Part# 260041.

- **1.** On both generators, make sure the battery switch and the ECO MODE switch are in the OFF position.
- 2. Connect the black and red parallel cable leads to the black parallel ports on each corresponding generator control panel as shown below. Connect the black lead to the left port, the red lead to the right port.

Note: DO NOT connect two red leads or two black leads into the same generator.

Generator 1 Generator 2



3. Connect the green ground lead to the ground terminal on each generator and tighten the nut.

- **4.** Start one of the generators and wait until the OUTPUT READY LED illuminates.
- **5.** Start the second generator and wait until the OUTPUT READY LED illuminates before connecting a load.
- Connect additional loads as described in Power Management.
- 7. Unplug all loads before stopping the generators.

TRANSPORTING

A CAUTION

Weight hazard. Always have assistance when lifting the generator.

- Allow the generator to cool a minimum of 30 minutes before transporting.
- Replace all protective covers on the generator control panel.
- Only use the generator's fixed handle(s) to lift the unit or attach any load restraints such as ropes or tie-down straps. Do not attempt to lift or secure the generator by holding onto any of its other components.
- Keep the unit level during transport to minimize the possibility of fuel leakage or, if possible, drain the fuel or run the engine until the fuel tank is empty before transport.
- The generator wheels are only intended for hand transport. The wheels are not suitable for towing the generator either on or off-road.
- Use the extendable handle for one-person, hand transport. To deploy the handle, push on the locking button and pull on the handle until it's fully extended. To stow it, push on the locking button and push on the handle until it's fully retracted. Only extend or retract the handle while the generator is OFF, stationary, and resting on a horizontal surface. Do not use the extendable handle to lift the generator entirely off the ground, tow it, or up-end it.

A CAUTION



Fire hazard. Do not up-end the generator or place it on its side. Fuel or oil can leak and damage to the generator may occur.

MAINTENANCE

MAINTENANCE SCHEDULE

Regular maintenance will improve performance and extend the service life of the generator. Follow the hourly or calendar intervals, whichever occurs first. More frequent service is required when operating in adverse conditions as noted below.

Before Each Use

Check engine oil

After First 25 Hours or First Month

Change engine oil

After 50 Hours or Every 6 Months

Change engine oil1 Clean air filter²

After 100 Hours or Every 6 Months

Inspect/clean spark arrestor Inspect/clean spark plug Replace fuel filter³ Inspect/adjust valve clearance³

After 300 Hours or Every Year

Replace spark plug Replace air filter

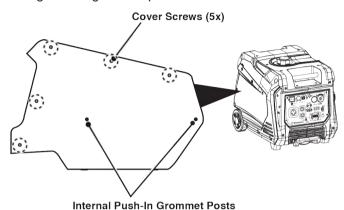
- Change oil every month when operating under heavy load or in high temperatures.
- Clean more often under dirty or dusty conditions. Replace air filter if it cannot be adequately cleaned.
- Recommend service to be performed by authorized Westinghouse service dealer.

MAINTENANCE REPLACEMENT PARTS

Description	Part Number
Foam air filter	5691
Oil drain plug crush washer	94007
Spark arrestor	6790
Battery	511019
Spark plug	F7RTC

ENGINE SERVICE COVER

Remove the engine service cover to access the air filter, carburetor, and spark plug. Remove the cover screws then pull the cover straight out with both hands to prevent damage to the grommet posts on the cover.



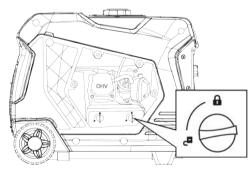
AIR FILTER MAINTENANCE

A WARNING

Fire hazard. Never use gasoline or other flammable solvents to clean the air filter. Use only household detergent soap to clean the air filter.

The air filter must be cleaned after every 50 hours of use or six months (frequency should be increased if the generator is operated in a dusty environment).

- 1. Place the generator on a level surface and allow the engine to cool for several minutes.
- 2. Remove the engine service cover.
- 3. Turn the knobs on the air cleaner cover to the unlocked position. Tip the cover down to remove.



Note: The air filter element is oil soaked. Use an appropriate cleaning container.

NOTICE

Avoid skin contact with engine oil. Wear protective clothing and equipment. Wash all exposed skin with soap and water.

4. Remove the foam air filter from the air cleaner housing and wash it by submerging the element in a solution of household detergent soap and warm water. Slowly squeeze the foam to thoroughly clean.

NOTICE

DO NOT twist or tear the foam air filter element during cleaning or drying. Only apply slow but firm squeezing action.

5. Rinse the air filter element by submerging it in fresh water and squeezing gently. Allow the filter to dry thoroughly.



NOTICE

Do not pollute. Follow the guidelines of the EPA or other governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

- **6.** Dip the foam air filter in clean engine oil, then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the filter.
- 7. Install the foam air filter in the housing and lock the air cleaner cover in place.
- 8. Install the engine service panel.

Air Filter: Part# 5691

ENGINE OIL LEVEL CHECK

▲ CAUTION

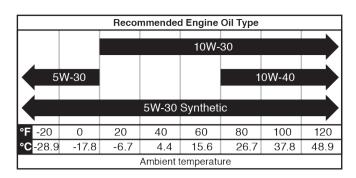
Avoid skin contact with engine oil. Wear protective clothing and equipment. Wash all exposed skin with soap and water.

NOTICE

Always use the specified engine oil. Failure to use the specified engine oil can cause accelerated wear and/or shorten the life of the engine.

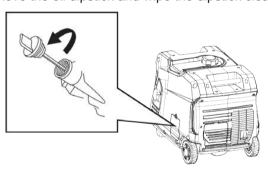
When using the generator under extreme, dirty, dusty conditions or in extremely hot weather, change the oil more frequently.

Ambient air temperature will affect engine oil performance. Change the type of engine oil used based on weather conditions.

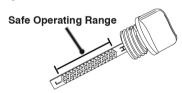


Check the engine oil level before each use or every 8 hours of operation.

- **1.** Place the generator on a level surface and allow the engine to cool for several minutes.
- 2. Remove the oil access cover.
- 3. With a damp rag, clean around the oil dipstick.
- 4. Remove the oil dipstick and wipe the dipstick clean.



5. Screw the dipstick fully into the filler neck. Remove the dipstick and verify that the oil level is within safe operating range.



- 6. If low, add recommended engine oil incrementally and recheck until the level is between the L and H marks on the dipstick. DO NOT overfill. If over the full mark on dipstick, drain the oil to reduce oil level to the full mark on dipstick.
- 7. Replace the oil dipstick and hand-tighten.
- 8. Install the oil access cover.

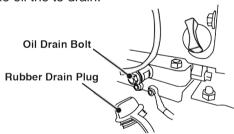
ENGINE OIL CHANGE

AWARNING

Accidental start-up. Remove the spark plug boot from the spark plug when working on the generator. Also remove the battery quick-connect plug from the battery.

When using the generator under extreme, dirty, dusty conditions or in extremely hot weather, change the oil more frequently. Change the oil while the engine is still warm from operation.

- **1.** Place the generator on a level surface and allow the engine to cool for several minutes.
- 2. Remove the engine service cover. Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact the spark plug.
- 3. Remove the oil access cover.
- **4.** With a damp rag, clean around the oil dipstick. Remove the dipstick and wipe clean.
- 5. Remove the rubber plug under the oil drain bolt and place an oil pan or suitable container under the drain hole.
- **6.** Using a 10mm wrench, remove the oil drain bolt and allow the oil the to drain.



7. Install the oil drain plug and tighten securely. Install the rubber plug.

Note: A new oil drain plug crush washer is recommended at each oil change.

Drain plug crush washer: Part# 94007

8. Slowly pour oil into the oil fill opening until oil the level is between the L and H marks on the dipstick. Stop frequently to check the oil level. DO NOT overfill.

Maximum oil capacity: 0.63 US qt (0.60 L)

- 9. Replace the dipstick and hand-tighten.
- Connect the spark plug wire and install the engine service cover.

NOTICE

Do not pollute. Follow the guidelines of the EPA or other governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

SPARK PLUG MAINTENANCE

Inspect and clean the spark plug after every 100 hours of use or six months. Replace the spark plug after 300 hours of use or every year.

- **1.** Place the generator on a level surface and allow the engine to cool.
- 2. Remove the engine service cover.
- **3.** Remove the spark plug boot by firmly pulling the spark boot directly away from the engine.
- 4. Clean the area around the spark plug.
- **5.** Remove the spark plug with the included spark plug socket wrench.

NOTICE

Never apply any side load or move the spark plug laterally when removing the spark plug.

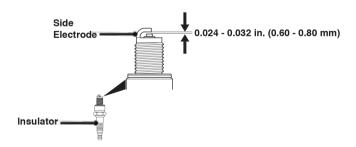
6. Inspect the spark plug. Replace if electrodes are pitted, burned, or the insulator is cracked. Only use a recommended replacement plug.

Recommended Spark Plug Replacement

Westinghouse Model Number	Torch	NGK	Bosch	Autolite
iGen4500c	F7RTC	BPR7ES	WR5D	62

7. Measure the spark plug electrode gap with a wire-type feeler gauge. If necessary, correct the gap by carefully bending the side electrode.

Spark plug gap: 0.024 - 0.032 in. (0.60 - 0.80 mm)

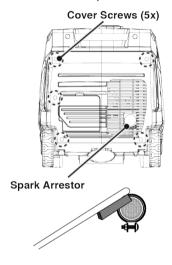


- **8.** Carefully install the spark plug finger tight, then tighten as additional 3/8 to 1/2 turn with the spark plug wrench.
- 9. Install the spark plug boot and engine service cover.

SPARK ARRESTOR SERVICE

Check and clean the spark arrestor after every 100 hours of use or six months. Failure to clean the spark arrestor will result in degraded engine performance.

- 1. Place the generator on a level surface and allow the muffler to cool before servicing the spark arrestor.
- 2. Remove the cover screws and the muffler cover. Use a screw driver to remove the spark arrestor.



3. Carefully remove the carbon deposits from the spark arrestor screen with a wire brush. The spark arrestor must be free of breaks and tears. Replace the spark arrestor if damaged.

Spark Arrestor: Part# 6790

4. Reinstall the spark arrestor and muffler cover.

BATTERY MAINTENANCE

The battery shipped with the generator has been fully charged. A battery may lose some charge when not in use for prolonged periods of time. If the battery is unable to crank the engine, plug the included 12V charger into the battery charging port on the control panel.

Note: If the generator is not run, charge the battery overnight once a month.

A CAUTION

The supplied battery charger is not a trickle charger and is not intended for continuous use. Do not use the battery charger for more than 8 hours (overnight) to prevent overcharging the battery.

Note: Once started, the generator will charge the battery after 30-60 minutes of use. If you do not regularly run the generator, charge the battery overnight once a month to keep it ready for use. Charge the battery in a dry location.

- 1. Plug the charger into the battery charging port on the control panel. Plug the wall receptacle end of the battery charger into a 120 Volt AC wall outlet.
- 2. Unplug the battery charger from wall outlet and control panel jack after 8 hours of charging.

BATTERY REPLACEMENT

Battery, 12V/6.5 Ah: Part# 511019

A WARNING

Burn hazard. The battery contains sulfuric acid (electrolyte) which is highly corrosive and poisonous. Wear protective clothing and eye protection when working near the battery. Keep children away from the battery.

A CAUTION

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

- 1. Remove the battery access cover.
- 2. Remove the quick-connect plug and remove the battery strap. Remove the battery from the unit.
- 3. Disconnect the quick-disconnect cable leads from the battery.
- 4. On the replacement battery, connect the white (-) quickconnect cable to the battery negative terminal. Slide the rubber boot over the connection hardware.
- 5. Connect the red (+) quick-connect cable to the battery positive terminal. Slide the rubber boot over the connection hardware.
- 6. Lift the battery strap and install the battery into the generator. Thread the battery strap under the guickconnect cables and secure it on the mounting base.
- 7. Connect the quick-connect plug and install the battery access cover.

NOTICE

Dispose of the used battery properly according to the guidelines established by your local or state government.

STORAGE

Proper storage preparation is required for trouble-free operation and generator longevity.

NOTICE

Gasoline stored for as little as 30 days can deteriorate, causing gum, varnish, and corrosive buildup in fuel lines, fuel passages and the engine. This corrosive buildup restricts the flow of fuel, which can prevent the engine from starting after a prolonged storage period. The use of fuel stabilizer significantly increases the storage life of gasoline. Full-time use of fuel stabilizer is recommended. Follow the manufacturer's instructions for use.

STORAGE TIME	RECOMMENDED PROCEDURE
Less than 1 month	No service required.
2 to 6 months	Fill with fresh gasoline and add gasoline stabilizer. Drain the carburetor float bowl.
6 months or longer	Drain the fuel tank and carburetor float bowl.

SHORT TERM STORAGE

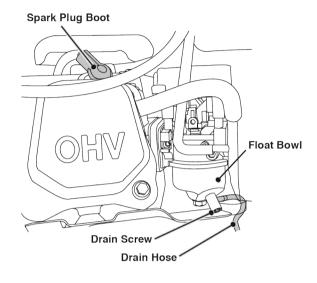
- Allow the generator to cool a minimum of 30 minutes before storage.
- Replace all protective covers on the generator control panel.
- Wipe the generator with a moist cloth. Clean any debris from the air inlets under the control panel and muffler cooling vents.
- Store the generator in a well-ventilated, dry location away from sparks, open flames, pilot lights, heat, and other sources of ignition such as areas with a sparkproducing electric motor or where power tools are operated.
- Do not store the generator, gasoline, or propane tanks near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions.
- With the engine and exhaust system cool and all surfaces dry, cover the generator to keep out dust. Do not use a plastic sheet as a dust cover. Non-porous materials trap moisture and promote rust and corrosion.

LONG TERM STORAGE

Even properly stabilized fuel can leave residue and cause corrosion if left long term. If storing the generator for two to six months, drain the float bowl to prevent gum and varnish buildup in the carburetor.

DRAINING THE FLOAT BOWL

- 1. Remove the engine service cover.
- **2.** Locate the drain hose extending from the bottom of the carburetor float bowl.



- **3.** Place the loose end of the hose outside the generator into an approved gasoline container to catch the drained fuel.
- **4.** Loosen the float bowl drain screw and allow the fuel to drain. Tighten the float bowl drain screw.
- Route the drain hose between the air cleaner housing and the engine service cover. Install the engine service cover.

DRAINING THE FUEL TANK

If storing the generator for longer than six months, drain the fuel tank to prevent fuel separation, deterioration, and deposits in the fuel system.

- Unscrew the fuel tank cap. Remove the fuel screen filter by slightly compressing it while removing it from the tank.
- Using a commercially available gasoline hand pump (not included), siphon the gasoline from the fuel tank into an approved gasoline container. DO NOT use an electric pump.
- 3. Reinstall the fuel screen filter and the fuel tank cap.
- **4.** Start the generator and allow it to run until the generator engine stops.
- **5.** Push the battery switch to the OFF position.
- **6.** Disconnect the battery quick-connect plug.
- 7. Remove the spark plug.

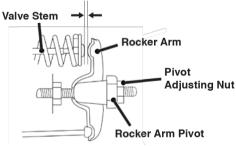
- 8. Put a teaspoon of engine oil into the cylinder and pull the recoil handle until resistance is felt. At this position the piston is coming up on its compression stroke and both valves are closed. Storing the engine in this position will help prevent internal corrosion. Return the recoil handle gently.
- **9.** Reinstall the spark plug. Leave the spark plug boot disconnected to prevent accidental starting.
- 10. Install the engine service cover.

VALVE CLEARANCE

NOTICE

Checking and adjusting valve clearance must be done when the engine is cold.

- 1. Remove the rocker arm cover and carefully remove the gasket. If the gasket is torn or damaged, it must be replaced.
- 2. Remove the spark plug so the engine can be rotated more easily.
- Rotate the engine to top dead center (TDC) by pulling the recoil handle slowly. Looking through the spark plug hole, the piston should be at the top (both valves are closed).
- **4.** Both the rocker arms should be loose at TDC on the compression stroke. If they are not, rotate the engine 360°.
- **5.** Insert a feeler gauge between the rocker arm and the valve stem to measure valve clearance.



	Intake Valve	Exhaust Valve
Valve Clearance	0.0031 – 0.0047 in (0.08 – 0.12 mm)	0.0051 – 0.0067 in (0.13 – 0.17 mm)
Torque	8-12 N•m	8-12 N•m

- **6.** If an adjustment is necessary, hold the rocker arm pivot and loosen the pivot adjusting nut.
- **7.** Turn the rocker arm pivot to obtain the specified clearance. Hold the rocker arm pivot and retighten the pivot adjusting nut to the specified torque.

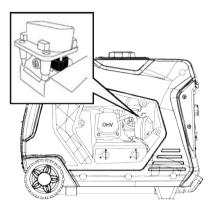
Torque: 106 inch-pound (12 N·m)

- 8. Perform this procedure for the other valve.
- 9. Install the gasket, rocker arm cover, and spark plug.
- 24 | Westinghouse Outdoor Power Equipment, LLC

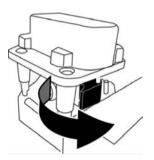
MANUALLY SET THE CHOKE

If the battery is dead or disconnected, you may need to set the choke by hand for proper operation.

- 1. Remove the engine service cover.
- 2. Locate the small black choke lever on top of the carburetor.



To close the choke for cold starting: Use a screwdriver to push the black lever toward the front of the generator.



4. Start the generator. The start-up sequence should automatically open the choke. If the choke does not open automatically, push the choke manually to open it.



NOTICE

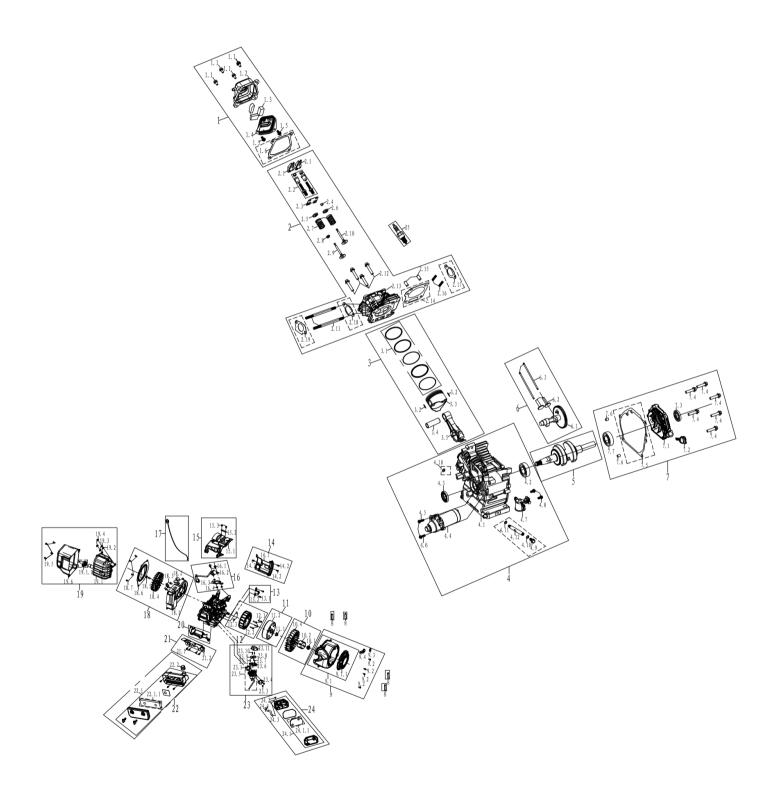
Certain ambient temperatures and environments may require you to close the choke halfway for a successful start.

TROUBLESHOOTING

TROUBLESHOOTING

	POSSIBLE CAUSE	CORRECTION
	Battery switch in the OFF position.	Turn battery switch to the ON position.
	Out of fuel.	Refuel.
	Bad fuel, generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain the fuel tank. Refuel with fresh gasoline.
	Dirty air filter.	Clean the air filter.
	Low engine oil level stopped generator.	If low oil LED illuminated, turn battery switch to the OFF position. Add engine oil.
Engine will not start	Spark plug wet with fuel (flooded engine).	Wait five minutes. Turn battery switch to the OFF position. Pull recoil handle rapidly several times. If the generator does not start, remove spark plug and dry.
Engine will not start	Spark plug faulty, fouled, or improperly gapped.	Gap or replace the spark plug. Reinstall.
	Fuel filter restricted, fuel system malfunction, fuel pump failure, ignition malfunction, valves stuck, etc.	Contact Westinghouse customer service toll-free at 1 (855) 944-3571.
	Pattery drained	Use the recoil handle to start the generator.
	Battery drained.	Charge the battery.
	Choke partially open or closed due to weak or disconnected battery.	Manually set the choke. See Maintenance section.
	CO sensor removed or modified	Return to original configuration
	CO sensor activated or system fault occurred	Relocate generator/ Contact Westinghouse customer service toll free at 1 (855) 944-3571.
	Out of fuel.	Refuel.
	Incorrect engine oil level.	Check engine oil level.
Engine starts, then shuts down	Dirty air filter.	Clean the air filter.
	Contaminated fuel.	Drain the fuel tank. Refuel with fresh gasoline.
	Defective low oil level switch.	Contact Westinghouse customer service toll-free at 1 (855) 944-3571.
	Air filter restricted.	Clean or replace air filter.
Engine lacks power	Bad fuel, generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain the fuel tank. Refuel with fresh gasoline.
	Fuel filter restricted, fuel system malfunction, fuel pump failure, ignition malfunction, valves stuck, etc.	Contact Westinghouse customer service toll-free at 1 (855) 944-3571.
	Dirty air filter.	Clean the air filter.
	Generator overloaded.	Unplug some devices.
Engine runs rough or bogs when load applied	Faulty power tool or appliance.	Replace or repair tool or appliance. Stop and restart the engine.
	Fuel filter restricted, fuel system malfunction, fuel pump failure, ignition malfunction, valves stuck, etc.	Contact Westinghouse customer service toll-free at 1 (855) 944-3571.
	AC circuit breaker/s tripped.	Check AC loads and reset circuit breaker/s.
No power at AC receptacles	Faulty power tool or appliance.	Replace or repair tool or appliance. Stop and restart the engine.
	Faulty generator.	Contact Westinghouse customer service toll-free at 1 (855) 944-3571.

EXPLODED VIEW AND PARTS LISTS ENGINE EXPLODED VIEW



ENGINE PARTS LIST

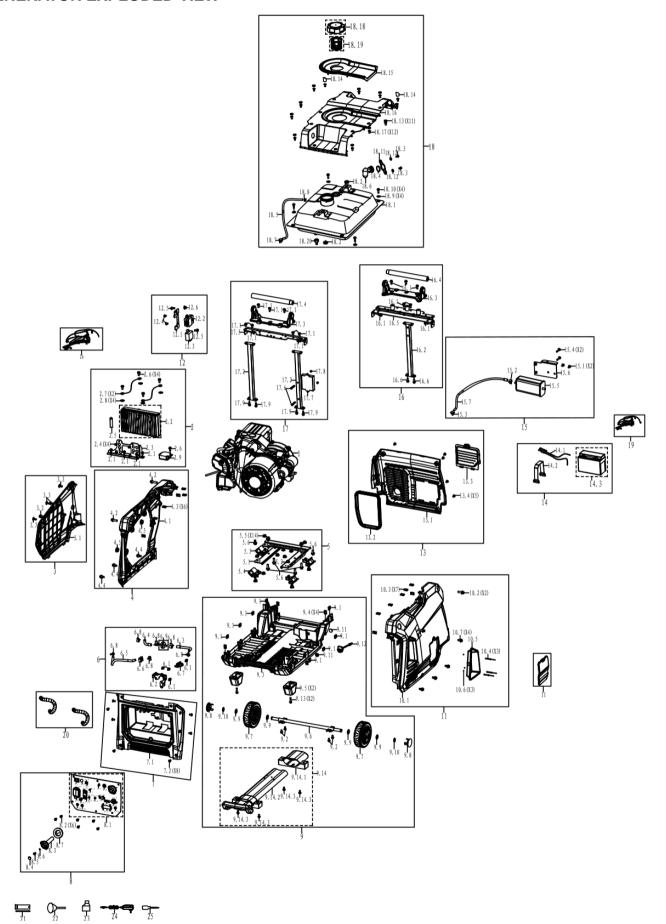
NO.	Code	Description
1 1	Oodc	CYLINDER HEAD COVER ASSEMBLY
1.1	91325	BOLT M6
1.2	241115	CYLINDER HEAD COVER
1.3	339915	POLYURETHANE SCREEN
1.4	241116	CYLINDER HEAD INTERNAL COVER
1.5	91322	BOLT M5
1.6	96200	CYLINDER HEAD COVER GASKET
2		CYLINDER HEAD ASSEMBLY
2.1	242101	ROCKING ARM
2.2	91818	ROCKING ARM WITH TIGHT BOLT
2.3	242202	VALVE RETAINER ASSEMBLY
2.4	241804	TOP CAP
2.5	241801	INTAKE VALVE SPRING SEAT
2.6	241802	EXHAUST VALVE SPRING SEAT
2.7	246001	VALVE SPRING
2.8	241806	INTAKE VALVE SPRING LOWER SEAT
2.9	241704	INTAKE VALVE
2.10	245904	EXHAUST VALVE
2.11	91029	AIR INLET STUD BOLT
2.12	91359	BOLT M8
2.13	241021	CYLINDER HEAD
2.14	96058	CYLINDER HEAD GASKET
2.15	240905	CYLINDER HEAD LOCATING PIN
2.16	91007	AIR EXHAUST STUD BOLT
2.17	96055	EXHAUST GASKET
2.18	96182	INTAKE GASKET
2.19	96051	CARBURETOR GASKET
3		PISTON & PISTON RING ASSEMBLY
3.1	241607	PISTON RING
3.2	241301	PISTON PIN RING
3.3	241211	PISTON
3.4	245503	PISTON PIN
3.5	331500	CONNECTING ROD
4		CRANKCASE ASSEMBLY
4.1	330202	CRANKCASE
4.2	93010	BEARING
4.3	93507	CRANKCASE OIL SEAL
4.4	97447	STARTING MOTOR ASSEMBLY
4.5	91333	BOLT M6
4.6	91334	BOLT M6
4.7	245113	OIL SENSOR
4.8	91329	BOLT M6
4.9	91816	OIL DRAIN BOLT
4.10	94007	OIL DRAIN BOLT WASHER
4.11	94035	OIL DRAIN BOLT WASHER
4.12	91831	OIL DRAIN SOLENOID
5		CRANKSHAFT ASSEMBLY

NO.	Code	Description
6	50150005	CAMSHAFT ASSEMBLY
6.1	332003	CAMSHAFT
6.2	246103	VALVE LIFTER
6.3	241901	PUSH ROD
7		CRANKCASE COVER ASSEMBLY
7.1	240116	CRANKCASE
7.2	245601-295	DIPSTICK
7.3	93507	CRANKCASE OIL SEAL
7.4	91347	BOLT M8
7.5	96041	CRANKCASE GASKET
7.6	240904	CRANKCASE LOCATING PIN
7.7	93010	BEARING
8	599601	METAL CLIP
9		RECOIL STARTER ASSEMBLY
9.1	330501	RECOIL STARTER
9.1.1	5324	RECOIL COVER
9.2	91329	BOLT M6
9.3	500017-231	RECOIL HANDLE COVER
9.4	500018	RECOIL HANDLE
10		IMPELLER ASSEMBLY
10.1	91864	STARTER PULLEY COMPRESSION BOLT
10.2	334501	STARTER PULLEY
10.3	334601	IMPELLER
11		ROTOR ASSEMBLY
11.1	90003	NUT M14
11.2	500191	ROTOR
12		STATOR ASSEMBLY
12.1	91400	BOLT M6
12.2	503410	STATOR
12.3	240904	CRANKCASE LOCATING PIN
13		TRIGGER ASSEMBLY
13.1	91329	BOLT M6
13.2	339902	TRIGGER
14		WIND-LEAD-COVER ASSEMBLY
14.1	330503	WIND-LEAD-COVER
14.2	91325	BOLT M6X12
15		UPPER WIND DEFLECTOR ASSEMBLY
15.1	330502	UPPER WIND DEFLECTOR
15.2	249914	CRIMPING BLOCK
15.3	91325	BOLT M6X12
16		IGNITION COIL ASSEMBLY
16.1	91333	BOLT M6
16.2	339909	IGNITION COIL
16.3	339903	HI-VOLTAGE PKG MOUNTING BRACKET
16.4	90016	NUT M6
17	335803	TEMPERATURE SENSOR
18		CENTRIFUGAL FAN HOUSING ASSEMBLY

ENGINE PARTS LIST CONTINUED

NO.	Code	Description
18.1	244306	CENTRIFUGAL FAN HOUSING
18.2	244304	CENTRIFUGAL FAN PLUG
18.3	91343	BOLT M8
18.4	244606	IMPELLER
18.5	91419	BOLT M8
18.6	334302	CENTRIFUGAL FAN COVER
18.7	91330	BOLT M6
19		EXHAUST MUFFLER ASSEMBLY
19.1	243782	MUFFLER
19.1.1	6790	SPARK ARRESTER
19.2	94216	FLAT WASHER
19.3	94206	SPRING WASHER
19.4	90011	NUT M8
19.5	91330	BOLT M6
19.6	500057	MUFFLER COVER
20	240511	SHIELD
21		BRACKET ASSEMBLY
21.1	91330	BOLT M6
21.2	249917	BRACKET
22		AIR FILTER ASSEMBLY
22.1	332901	AIR FILTER
22.1.1	5691	AIR FILTER
22.2	95918	CONNECTING PIPE
23		CARBURETOR ASSEMBLY
23.1	332301	CARBURETOR CONNECTION BLOCK
23.2	92219	SCREW M4
23.3	90016	NUT M6
23.4	94226	STEEL WASHER
23.5	332801	CARBURETOR ASSEMBLY
23.6	249925	STEPPER MOTOR BRACKET
23.7	92055	CROSS SCREW STUD M4
23.8	249949	STEPPER MOTOR
23.9	249950	STEPPER MOTOR
23.10	92240	CROSS SCREW STUD M4
23.11	249934	WATERPROOF COVER
24		RESONANT CAVITY ASSEMBLY
24.1	337001	RESONANT CAVITY
24.1.1	5697	FOAM FILTER
24.2	249919	PLUG
24.3	95602	BREATHER TUBE
24.4	94407	FUEL LINE CLAMP
25	97109	SPARK PLUG

GENERATOR EXPLODED VIEW



GENERATOR PARTS LIST

NO.	Code	Description
1		ENGINE ASSEMBLY DH225
2		INVERTER ASSEMBLY
2.1	91325	BOLT M6
2.2	503147	INVERTER MODULE
2.3	503013	BRACKET
2.4	91322	BOLT M5
2.5	599601	METAL CLIP
2.6	91325	BOLT M6X12
2.7	500044	SHORT WIRE
2.8	94003	TOOTH WASHER
2.9	503048	DC VOLTAGE REGULATOR
3		LEFT PANEL ASSEMBLY
3.1	503039-221E	LEFT PANEL
3.2	92097	SCREW M6
3.3	92079	STOP BOLT M6
4		LEFT FRAME ASSEMBLY
4.1	503005-221	LEFT FRAME
4.2	91345	BOLT M8
4.3	500060	LOCK CLIP M6
4.4	92097	SCREW M6
4.5	500007	FUEL TANK ISOLATION PAD A
5		BRACKET ASSEMBLY
5.1	503001	BRACKET
5.2	503002	BRACKET
5.3	503003	BRACKET
5.4	503004	ISOLATION PAD
5.5	90044	NUT M8
5.6	91348	BOLT M8
6		BRACKET ASSEMBLY
6.1	91325	BOLT M6
6.2	503017	BRACKET
6.3	503772	FUEL LINE
6.4	503773	FUEL LINE
6.5	503020L	FUEL LINE
6.6	503044	CLIP
6.7	503062	FUEL SWITCH
6.8	503034	FUEL LINE CLAMP
6.9	516401	FILTER
7		PANEL REAR COVER ASSEMBLY
7.1	503016	PANEL REAR COVER
7.2	92078	SCREW M6
8		PANEL ASSEMBLY
8.1	503801	PANEL
8.1.1	9222	ROCKER SWITCH
8.1.2	9223	ONE PUSH BUTTON SWITCH
8.1.3	9224	ECO SWITCH
8.1.4	9079	WATERPROOF CAP

NO.	Code	Description
8.1.5	9227-31	THERMAL PROTECTOR
8.1.6	6404	WATERPROOF CAP
8.1.7	9226	CHARGING SOCKET
8.1.8	9225	START INDICATOR
8.1.9	9227-30	THERMAL PROTECTOR
8.1.10	6404	WATERPROOF CAP
8.1.11	9227-20	THERMAL PROTECTOR
8.1.12	6404	WATERPROOF CAP
8.1.13	9228	IGNITER
8.1.14	9229	USB
8.1.15	503108	USB DUST COVER
8.1.16	9230	VOLTAGE RESET SWITCH
8.1.17	9235	LED
8.1.18	9232	PARALLEL SOCKET
8.1.19	9122	WATERPROOF COVER
8.1.20	6032	L5-20R RECEPTACLE
8.1.21	9194	DUST COVER
8.1.22	9132	GROUNDING BOLT
8.1.23	6015	RV SOCKET
8.1.24	6849	DUST COVER
8.1.25	9236	CO WARNING LIGHT
8.1.26	9236	CO WARNING LIGHT
8.2	91825	SCREW & FLAT WASHER
8.3	503024	KNOB
8.4	500068	HANDLE PANEL PLUG
8.5	92032	SCREW M4
8.6	94325	FLAT WASHER
8.7	503310	KNOB PLUG
9		BASEBOARD ASSEMBLY
9.1	90027	SQUARE NUT
9.2	91325	BOLT M6
9.3	503045	BOTTOM PLATE
9.4	500060	LOCK CLIP M6
9.5	503026	ISOLATION PAD
9.6	503023	AXLE
9.7	503031	WHEEL
9.8	503032	WHEEL COVER
9.9	94022	STEEL WASHER
9.10	500321	AXLE WILD CARD
9.11	503053	LIMIT BLOCK
9.12	503052	BASE OIL COVER
9.13	91334	BOLT M6X30
9.14	100310003	PULL ROD ASSEMBLY
9.14.1	503033	PULL ROD SEAT
9.14.2	503035	PULL ROD
9.14.3	91334	BOLT M6X30
10		RIGHT FRAME ASSEMBLY

GENERATOR PARTS LIST CONTINUED

NO.	Code	Description
10.1	503021-221E	RIGHT FRAME
10.2	91345	BOLT M8X20
10.3	500060	LOCK CLIP M6
10.4	503067	BLIND RIVET
10.5	503036-052	HANDLE DECORATIVE BOARD
10.6	94249	FLAT WASHER
10.7	92097	SCREW M6
11	503022-221	OBSERVATION COVER
12		CO MODULE ASSEMBLY
12.1	503807	CO MODULE BRACKET
12.2	599070	CO MODULE
12.3	599071	CO FLAMEOUT ACTUATOR
12.4	92328	BOLT M4
12.5	91325	BOLT M6X
12.6	90016	NUT M6
13		MUFFLER PANEL ASSEMBLY
13.1	503027	MUFFLER PANEL
13.2	500108	MUFFLER EXHAUST SEALING STRIP
13.3	503040	COVER
13.4	92078	SCREW M6
14		BATTERY ASSEMBLY
14.1	503165	BATTERY CABLE
14.2	599606	BATTERY TIE
14.3	511019	BATTERY
15		CARBON CANISTER ASSEMBLY
15.1	91325	BOLT M6
15.2	94405	FUEL LINE CLAMP
15.3	94403	FUEL LINE CLAMP
15.4	91334	BOLT M6
15.5	543301L	CARBON CANISTER
15.6	503043	BRACKET
15.7	95016	CARBON CANISTER AND AIR FILTER CONNECTING PIPE
16		BRACKET ASSEMBLY
16.1	91325	BOLT M6
16.2	503006	LIFTER
16.3	503008	BRACKET
16.4	503009	HANDLE
16.5	503042	BRACKET
16.6	91330	BOLT M6
17		BRACKET ASSEMBLY
17.1	91325	BOLT M6
17.2	503007	LIFTER
17.3	503008	BRACKET
17.4	503009	HANDLE
17.5	503011	BRACKET
17.6	91335	BOLT M6

NO.	Code	Description
17.7	503790	CONTROL MODULE
17.8	90010	NUT M6
17.9	91330	BOLT M6
18		FUEL TANK ASSEMBLY
18.1	503775	FUEL TANK
18.2	500008	FUEL TANK ISOLATION PAD
18.3	91322	BOLT M5
18.4	500252	SEALING RING
18.5	95127	CARBON CANISTER AND FUEL TANK CONNECTING PIPE
18.6	500247	GASOLINE SENSOR
18.7	94405	FUEL LINE CLAMP
18.8	94403	FUEL LINE CLAMP
18.9	96801	FUEL TANK GASKET
18.10	91397	BOLT M6
18.11	500244	PRESS PLATE
18.12	500324	SEALING WASHER
18.13	500068	HANDLE PANEL PLUG
18.14	503025	PLUG
18.15	503029	FUEL SLOT
18.16	503038-221	TOP COVER
18.17	92078	SCREW M6
18.18	503028	FUEL CAP
18.19	518801	FUEL TANK FILTER
18.20	503782	FUEL NOZZLE
19	503805	DEPUTY WIRING HARNESS
20	503082	BELLOWS
21	99011	SPARK PLUG SLEEVE
22	500942	FUNNEL
23	99629	OIL BOTTLE
24	511043	CHARGER
25	99506	DUAL - PURPOSE SCREWDRIVER
26	503808	DEPUTY WIRING HARNESS

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