



OPERATOR'S MANUAL

MODEL #100432

3550W REMOTE START GENERATOR



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READ AND SAVE THIS MANUAL. This manual contains important safety precautions which should be read and understood before operating the product. Failure to do so could result in serious injury. This manual should remain with the product.

Specifications, descriptions and illustrations in this manual are as accurate as known at the time of publication, but are subject to change without notice.

This product is rated in accordance with PGMA (Portable Generator Manufacturers' Association) standard PGMA G300 (Standard for Testing and Validating Performance of Portable Generators).

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INTRODUCTION

Congratulations on your purchase of a Champion Power Equipment (CPE) product. CPE designs, builds, and supports all of our products to strict specifications and guidelines. With proper product knowledge, safe use, and regular maintenance, this product should bring years of satisfying service.

Every effort has been made to ensure the accuracy and completeness of the information in this manual at the time of publication, and we reserve the right to change, alter and/ or improve the product and this document at any time without prior notice.

Since CPE highly values how our products are designed, manufactured, operated and are serviced, and also highly value your safety and the safety of others, we would like you to take the time to review this product manual and other product materials thoroughly and be fully aware and knowledgeable of the assembly, operation, dangers and maintenance of the product before use. Fully familiarize yourself, and make sure others who plan on operating the product fully familiarize themselves too, with the proper safety and operation procedures before each use. Please always exercise common sense and always err on the side of caution when operating the product to ensure no accident, property damage, or injury occurs. We want you to continue to use and be satisfied with your CPE product for years to come.

When contacting CPE about parts and/or service, you will need to supply the complete model and serial numbers of your product. Transcribe the information found on your product's nameplate label to the table below

CPE TECHNICAL SUPPORT TEAM
1-877-338-0999
MODEL NUMBER
100432
SERIAL NUMBER
DATE OF PURCHASE
PURCHASE LOCATION

SAFETY DEFINITIONS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

DANGER

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

WARNING

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

CAUTION

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

NOTICE

NOTICE is used to address practices not related to physical injury.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING

California Proposition 65: This product contains chemicals and produces exhaust known to the State of California to cause cancer, birth defects and other reproductive harm.

⚠ DANGER

Generator exhaust contains carbon monoxide, a colorless, odorless, poison gas. Breathing carbon monoxide will cause nausea, dizziness, fainting or death. If you start to feel dizzy or weak, get to fresh air immediately.

OPERATE GENERATOR OUTDOORS ONLY IN A WELL VENTILATED AREA.

DO NOT operate the generator inside any building, including garages, basements, crawlspaces and sheds, enclosure or compartment, including the generator compartment of a recreational vehicle.

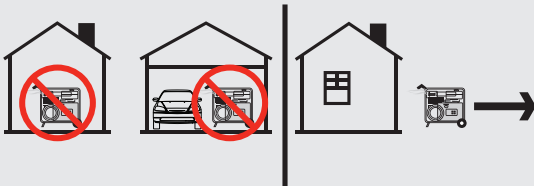
DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings.

⚠ 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.



Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up according to the manufacturer's instructions.

⚠ DANGER

Rotating parts can entangle hands, feet, hair, clothing and/or accessories. Traumatic amputation or severe laceration can result.

Keep hands and feet away from rotating parts.

Tie up long hair and remove jewelry.

Operate equipment with guards in place.

DO NOT wear loose-fitting clothing, dangling drawstrings or items that could become caught.

⚠ 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.

⚠ DANGER

Generator produces powerful voltage.

DO NOT touch bare wires or receptacles.

DO NOT use electrical cords that are worn, damaged or frayed. Use Champion electrical cords only for proper application.

DO NOT operate generator in wet weather.

DO NOT allow children or unqualified persons to operate or service the generator

Use a ground fault circuit interrupter (GFCI) in damp areas and areas containing conductive material such as metal decking.

Connection to your home's electrical system requires a listed 30A transfer switch installed by a licensed electrician and approved by the local authority having jurisdiction. The connection must isolate the generator from the utility power and must comply with all applicable laws and electrical codes.

⚠ WARNING

Sparks can result in fire or electrical shock.

When servicing the generator:

Disconnect the spark plug wire and place it where it cannot contact the plug.

DO NOT check for spark with the plug removed.

Use only approved spark plug testers.

⚠ WARNING

Running engines produce heat. Severe burns can occur on contact. Combustible material can catch fire on contact.

DO NOT touch hot surfaces.

Avoid contact with hot exhaust gases.

Allow equipment to cool before touching.

Maintain at least 3 ft. (91.4 cm) of clearance on all sides to ensure adequate cooling.

Maintain at least 5 ft. (1.5 m) of clearance from combustible materials.

⚠ WARNING

Rapid retraction of the starter cord will pull hand and arm towards the engine faster than you can let go. Unintentional startup can result in entanglement, traumatic amputation or laceration. Broken bones, fractures, bruises or sprains could result.

When starting engine, pull the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback.

DO NOT start or stop the engine with electrical devices plugged in and turned on.

⚠ CAUTION

Exceeding the generator's running capacity can damage the generator and/or electrical devices connected to it.

DO NOT overload the generator.

Start the generator and allow the engine to stabilize before connecting electrical loads.

Connect electrical equipment in the off position, and then turn them on for operation.

Turn electrical equipment off and disconnect before stopping the generator.

DO NOT tamper with the governed speed.

DO NOT modify the generator in any way.

⚠ CAUTION

Improper treatment or use of the generator can damage it, shorten its life and void your warranty.

Use the generator only for intended uses.

Operate only on level surfaces.

DO NOT expose generator to excessive moisture, dust, or dirt.

DO NOT allow any material to block the cooling slots.

If connected devices overheat, turn them off and disconnect them from the generator.

DO NOT use the generator if:

- Electrical output is lost
- Equipment sparks, smokes or emits flames
- Equipment vibrates excessively

⚠ WARNING

Medical and life support uses.

In case of emergency, call 911 immediately.

NEVER use this product to power life support devices or life support appliances.

NEVER use this product to power medical devices or medical appliances.

Inform your electricity provider immediately if you or anyone in your household depends on electrical equipment to live.

Inform your electrical provider immediately if a loss of power would cause you or anyone in your household to experience a medical emergency.

⚠ WARNING

This product contains a button battery. If swallowed, it could cause severe injury or death in just 2 hours. Seek medical attention immediately.

Fuel Safety

⚠ DANGER

GASOLINE, GASOLINE VAPORS AND PROPANE (LPG) ARE HIGHLY FLAMMABLE AND EXPLOSIVE.

Fire or explosion can cause severe burns or death.

Gasoline and gasoline vapors:

- Gasoline is highly flammable and explosive.
- Gasoline can cause a fire or explosion if ignited.
- Gasoline is a liquid fuel but it's vapors can ignite.
- Gasoline is a skin irritant and needs to be cleaned up immediately if spilled on skin or clothes.
- Gasoline has a distinctive odor, this will help detect potential leaks quickly.
- In any petroleum gas fire, flames should not be extinguished unless by doing so the fuel supply valve can be turned OFF. This is because if a fire is extinguished and a supply of fuel is not turned OFF, then an explosion hazard could be created.
- Gasoline expands or contracts with ambient temperatures. Never fill the gasoline tank to full capacity, as gasoline needs room to expand if temperatures rise.

LPG:

- LPG is highly flammable and explosive.
- LPG is under pressure and can cause a fire or explosion if ignited.
- LPG is heavier than air and can settle in low places while dissipating.
- LPG has a distinctive odor added to help detect potential leaks quickly.
- In any petroleum gas fire, flames should not be extinguished unless the fuel supply valve is turned OFF. This is because if a fire is extinguished and a supply of fuel is not turned OFF, then an explosion hazard could be created.
- When exchanging LPG cylinders, be sure the cylinder valve is of the same type.
- Always keep the LPG cylinder in an upright position.
- LPG will burn skin if it comes in contact with it. Keep any and all LPG away from skin at all times.

When adding or removing gasoline:

Turn the generator off and let it cool for at least two minutes before removing the gasoline cap. Loosen the cap slowly to relieve pressure in the tank.

Only fill or drain gasoline outdoors in a well-ventilated area.

DO NOT pump gasoline directly into the generator at the gas station. Use an approved container to transfer the fuel to the generator.

DO NOT overfill the gasoline tank.

Always keep gasoline away from sparks, open flames, pilot lights, heat and other sources of ignition.

DO NOT light or smoke cigarettes.

When starting the generator:

DO NOT attempt to start a damaged generator.

Make certain that the gasoline cap, air filter, spark plug, fuel lines and exhaust system are properly in place.

Allow spilled gasoline to evaporate fully before attempting to start the engine.

Make certain that the generator is resting firmly on level ground.

When operating the generator:

DO NOT move or tip the generator during operation.

DO NOT tip the generator or allow fuel or oil to spill.

When transporting or servicing the generator:

Make certain that the fuel valve is in the OFF position, the gasoline tank is empty.

For LPG compatible models, be sure that the LPG cylinder is disconnected and stored securely away from the generator.

Disconnect the spark plug wire.

When storing the generator:

Store away from sparks, open flames, pilot lights, heat and other sources of ignition.

Do not store generator, gasoline or LPG cylinders near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions.







⚠ WARNING

Never use a gasoline container, gasoline tank, LPG connector hose, LPG cylinder or any other fuel item that is damaged or appears damaged.

Safety Symbols








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




If a label comes off or becomes hard to read, contact Technical Support Team for possible replacement.

SYMBOL	MEANING
	Read Operator's Manual. To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Clearance. Keep all objects at least 5 feet from this machine. Heat from the muffler and exhaust gas can ignite combustible objects.
	Ground. Consult with local electrician to determine grounding requirements before operation.
	Electric Shock. Failure to use in dry conditions and to observe safe practices can result in electric shock. Improper connections to a building can allow current to backfeed into utility lines, creating an electrocution hazard. A transfer switch must be used when connecting to a building.
	Fire/Explosion. Fuel and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death. 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.
	Hot Surface. To reduce the risk of injury or damage, avoid contact with any hot surface.
	Open Flame Alert. Fuel and its vapors are extremely flammable and explosive. Keep fuel away from smoking, open flames, sparks, pilot lights, heat, and other ignition sources.
	Wet Conditions Alert. Do not expose to rain or use in damp locations.

Operation Symbols

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.

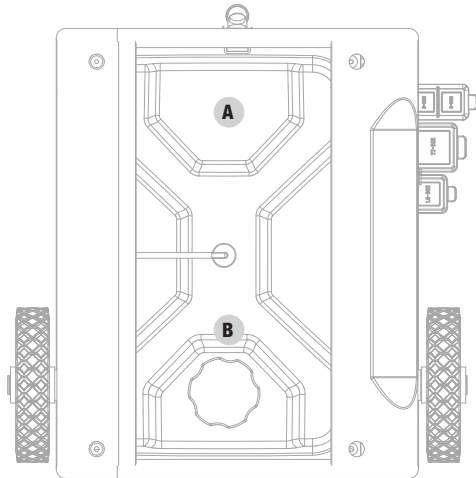
SYMBOL		MEANING
		Start.
		Check Oil Level. Recommended oil is 10W-30. The engine can be seriously damaged without oil. Always check the oil level before using. The machine must be resting firmly on level ground when checking.
		Check Fuel Level. Use clean, fresh, regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.
		Fuel Valve ON.
		START/STOP Button. Press the START/STOP button..
		Plug In. Plug in desired devices.
		Unplug. Unplug devices when turning generator off.

SYMBOL		MEANING
		Fuel Valve OFF.
		See Manual for Wireless Start. Follow instruction in operator's manual to start the generator with remote control.
		Stop.

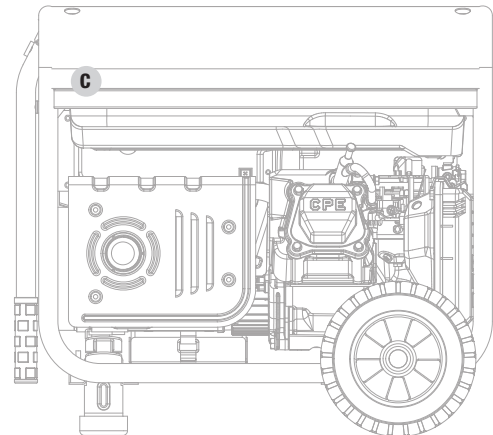
Safety Labels

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

If a label comes off or becomes hard to read, contact Technical Support Team for possible replacement.



Top



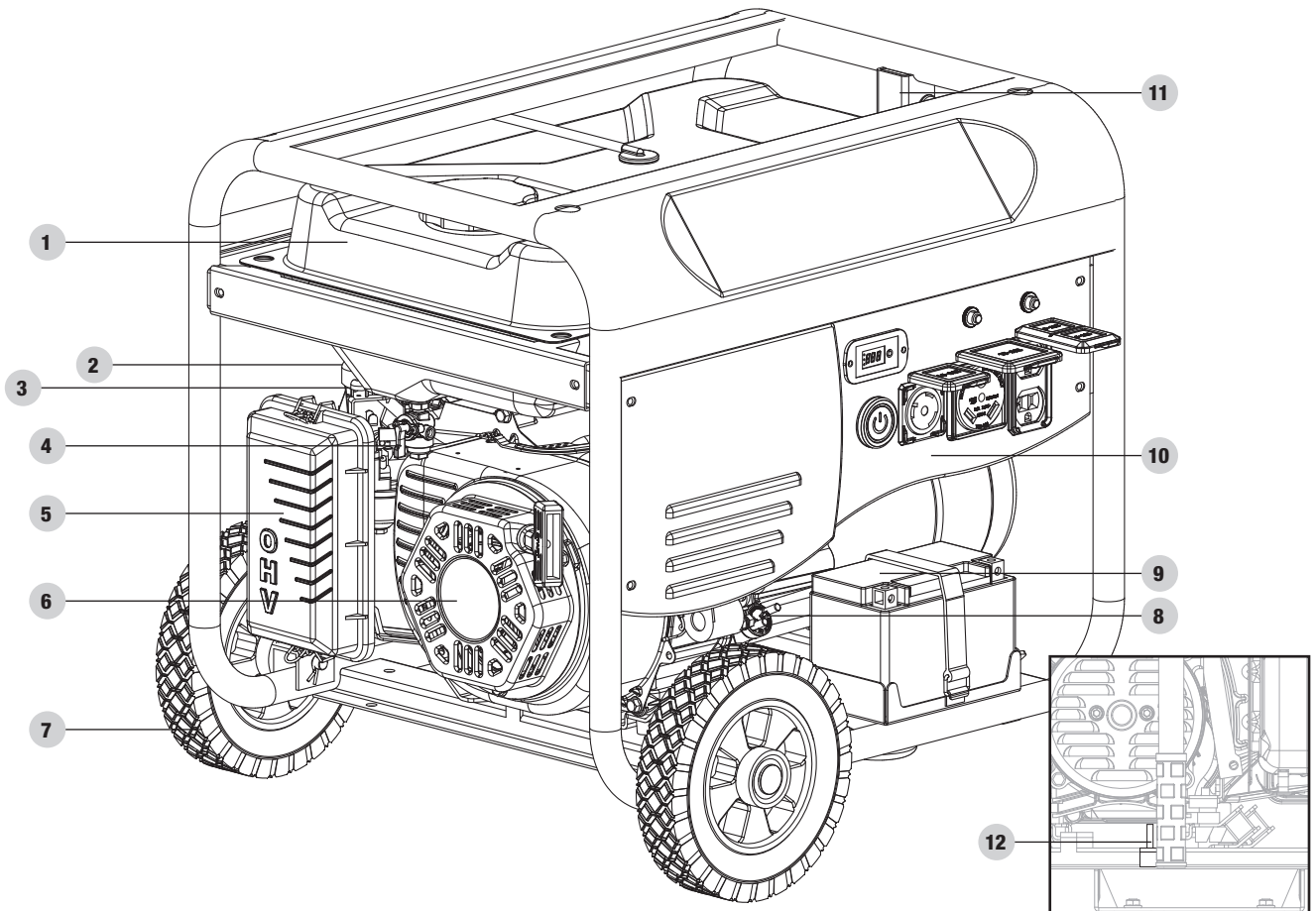
Back

	LABEL	DESCRIPTION
A		Safety Icons/ CO Danger
B		Fuel
C		Hot Surface

CONTROLS AND FEATURES

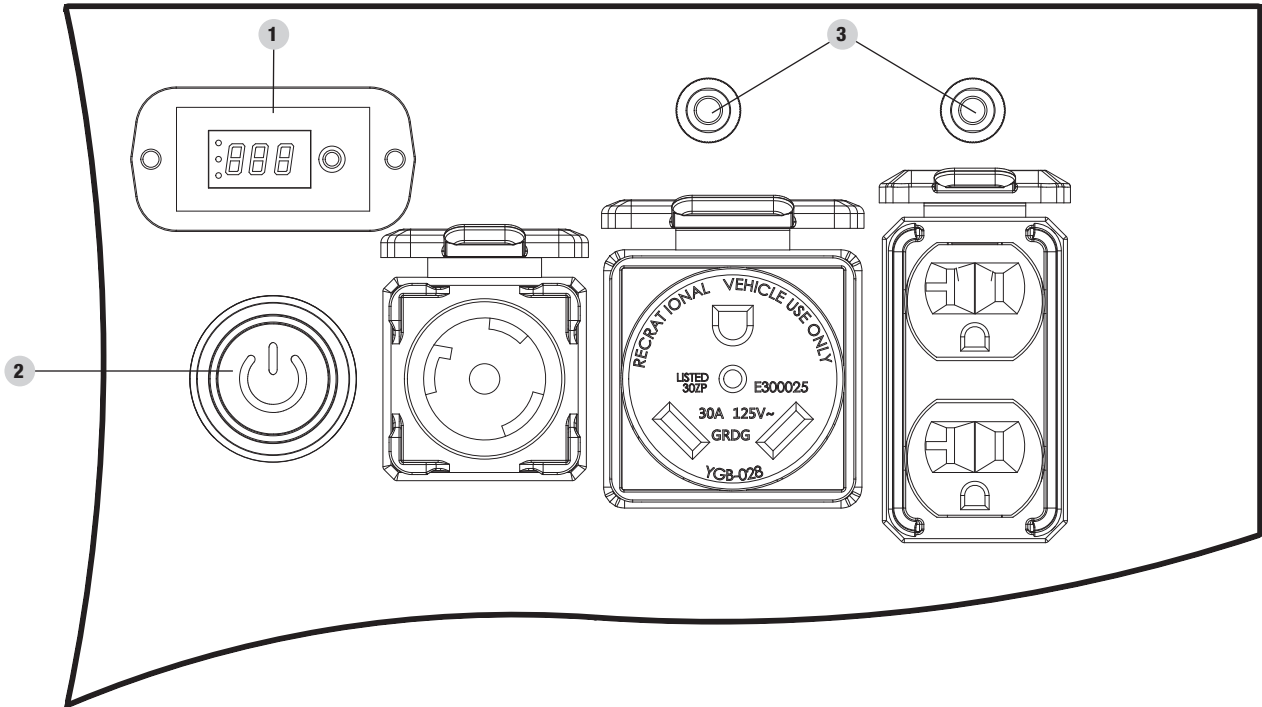
Read this operator's manual before operating your generator. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.

Generator






1. **Gasoline Tank** – 4 gal. (15.1 L)
2. **Choke** – Used to start the engine.
3. **Auto-Choke** – Used to start the engine (for wireless and electric start only).
4. **Fuel Valve** – Used to turn fuel supply on and off to engine.
5. **Air Filter** – Protects the engine by filtering dust and debris from the intake air
6. **Recoil Starter** – Used to manually start the engine
7. **Never Flat Wheels** – 8 in. (20.3 cm)
8. **Oil Fill Cap/Dipstick** – Used to check and fill oil level.
9. **Battery** – Provides 12V DC power the starting system.
10. **Control Panel** – See “Control Panel” section.
11. **Folding Handle** – Do not use to lift or carry the unit.
12. **Ground Terminal** – Consult an electrician for local grounding regulations.

Control Panel







- 1. **Intelligauge** – Three mode digital meter for displaying running time, voltage and hertz.
- 2. **START/STOP Button**
- 3. **Circuit Breakers (Push Reset)** – Protects the generator against electrical overloads.

RECEPTACLES	
A	 <p>120V AC, 30A Locking (NEMA L5-30R) May be used to supply electrical power for operation of 120 Volt AC, 30 Amp, single phase, 60 Hz electrical loads.</p>
B	 <p>120V AC, 30A RV (NEMA TT-30R) May be used to supply electrical power for operation of 120 Volt AC, 30 Amp, single phase, 60 Hz electrical loads.</p>
C	 <p>120V AC, 20A (NEMA 5-20R) May be used to supply electrical power for operation of 120 Volt AC, 20 Amp, single phase, 60 Hz electrical loads.</p>

Control Panel Symbols

The below symbols are located on the generator power panel. Familiarize yourself with these symbols for quick reference of the components and their function.

SYMBOL	MEANING
	START/STOP Button
	Circuit Breaker Reset: Push
	RV Ready Receptacle
	Locking Receptacle

Wireless Remote Control

This generator is equipped with a wireless remote control system for starting and stopping. The system consists of (4) main components:

1. Receiver Control Module (RCM)
2. Remote Control
3. START/STOP button
4. Auto-Choke


The Remote Control functions are enabled when you press the START/STOP button one time and will flash amber.

The Remote Control functions are disabled if the above condition is not met.

To start the generator wirelessly, press the "START" button on the Remote Control one time. The engine will attempt to start (6) times. The RCM controls the Auto-Choke during each attempt to start. If the generator does not start, call Champion Customer Care team for assistance at 1-877-338-0999.

To stop the generator wirelessly, press the "STOP" button on the Remote Control one time.

When the generator is off and you press START/STOP button one time, the RCM is in standby mode and waiting for a remote signal. If you leave the generator in standby mode longer than twelve (12) hours, the remote function will disable itself to preserve battery life.

To disable standby mode before 12 hours, press and hold START/STOP button on the generator or press and hold the STOP  on the remote control for three (3) seconds until the amber light on the START/STOP button goes out.

Control Panel Load Management

When the generator initially starts wirelessly, no voltage is supplied to the Control Panel for approximately 15 seconds. This allows the engine to reach full speed before electrical loads are applied to the generator.

When the generator is stopped wirelessly, the voltage to the Control Panel is immediately turned off. Then the engine stops approximately 5 seconds after the "STOP" button on the Remote Control is pressed. Turning the Control Panel voltage off before the engine shutdown protects connected appliances from being damaged by non-60 Hz voltage while the generator coasts to a stop.

FCC Statement for Remote Control Device

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - 1a. This device may not cause harmful interference.
 - 1b. This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

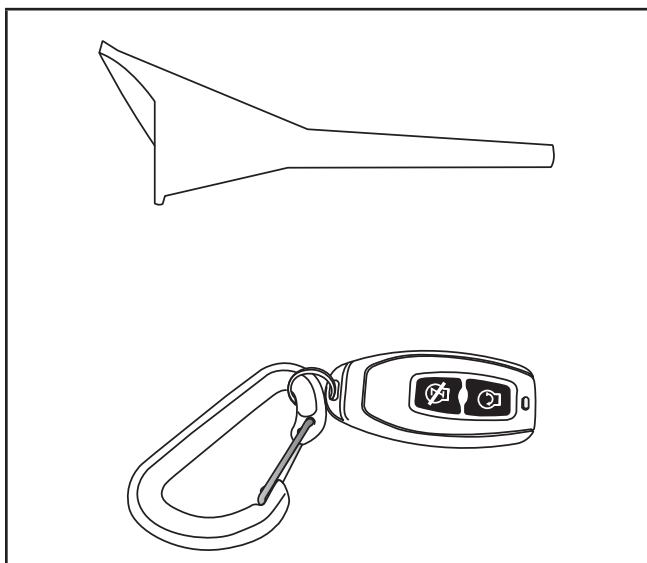
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult dealer or an experienced radio/TV technician for help.

Parts Included

Accessories

Oil Funnel	1
Remote Control	1



Assembly Parts

8 in. (20.3 cm) Never Flat Wheel (A).....	2
Roll Pin (B)	2
Large R-clip (C)	2
Support Leg with Vibration Mounts (D)	1
Flange Bolt (M8×16) (E).....	2
Flange Lock Nut (M8) (F)	2
Handle (G)	1
Short Pin (H).....	1
Small R-clip (I).....	1

ASSEMBLY

Your generator requires some assembly. This unit ships from our factory without oil. It must be properly serviced with fuel and oil before operation.

If you have any questions regarding the assembly of your generator, call our Technical Support Team at 1-877-338-0999. Please have your serial number and model number available.

Unpacking

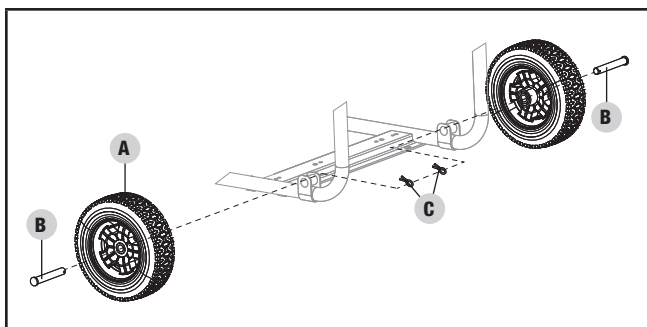
1. Set the shipping carton on a solid, flat surface.
2. Remove everything from the carton except the generator.
3. Carefully cut each corner of the box from top to bottom. Fold each side flat on the ground to provide a surface area to work with the generator.

Install the Wheel Kit

⚠ CAUTION

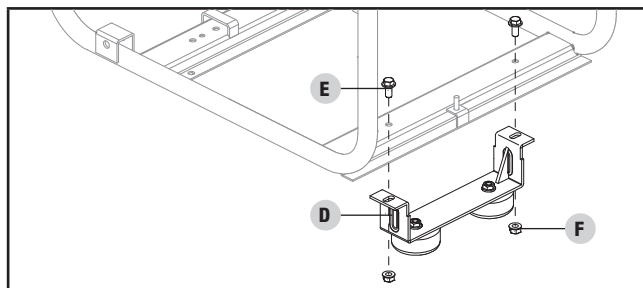
The wheel kit is not intended for over-the-road use.

1. Before adding fuel and oil, tip the generator on it's side.
2. Slide the Roll Pin (B) through the Wheel (A) from the outside.
3. Slide the Roll Pin through the mount point on the frame.
4. Secure with the R-clip (C).
5. Repeat to attach the second Wheel.



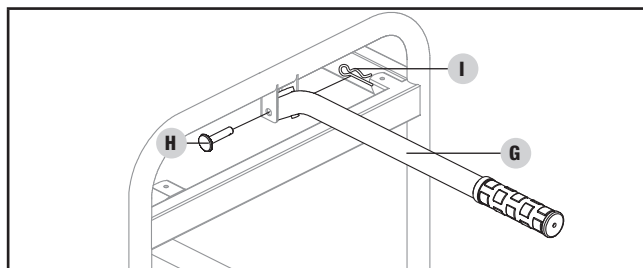
Install the Support Leg

1. Attach the Support Leg (D) to the generator frame with Flange Bolts (E) and Flange Lock Nuts (F).
2. Slowly tip the generator back down so that it rests on the Wheels and Support Leg.



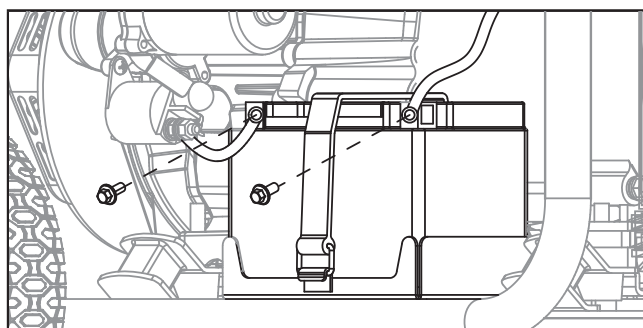
Install the Handle

1. Place the Handle (G) inside the mounting channel on the frame.
2. Secure the Handle to the frame using an Short Pin (H).
3. Place an R-clip (I) on the end of the Short Pin and fasten securely.



Connect the Battery

1. Remove the protective cover from the red (+) lead on the battery.
2. Attach the red (+) lead to the red (+) terminal on the battery with the Flange Bolt and secure with the Flange Lock Nut.
3. Repeat for the black (-) battery lead.



Add Engine Oil

⚠ CAUTION

DO NOT attempt to crank or start the engine before it has been properly filled with the recommended type and amount of oil. Damage to the generator as a result of failure to follow these instructions will void your warranty.

🗨 NOTICE

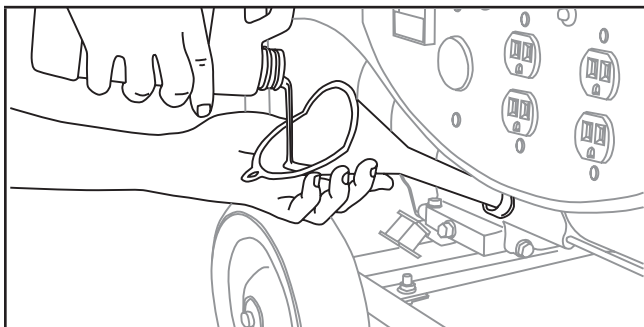
The generator rotor has a sealed, pre-lubricated ball bearing that requires no additional lubrication for the life of the bearing.

🗨 NOTICE

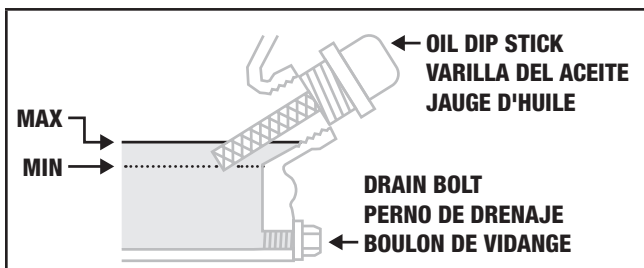
The recommended oil type is **10W-30 automotive oil**.

Recommended Oil Type / Tipo de aceite recomendado / Type d'huile recommandé								
			10W-30					
5W-30					10W-40			
5W-30 Synthetic / Sintético / Synthétique								
°F	-20	0	20	40	60	80	100	120
°C	-28.9	-17.8	-6.7	4.4	15.6	26.7	37.8	48.9
Ambient temperature / Temperatura ambiente / Température ambiante								

1. Place the generator on a flat, level surface.
2. Remove oil fill cap/dipstick to add oil.
3. Using a funnel, add up to 0.6 qt. (0.6 L) of oil (not included) and replace oil fill cap/dipstick. DO NOT OVERFILL.



4. Check engine oil level daily and add as needed.



🗨 NOTICE

Once oil has been added, a visual check should show oil about 1-2 threads from running out of the fill hole.

If using the dipstick to check oil level, DO NOT screw in the dipstick while checking.

🗨 NOTICE

Check oil often during the break-in period. Refer to the [Maintenance](#) section for recommended service intervals.

⚠ CAUTION

The engine is equipped with a low oil shut-off and will stop when the oil level in the crankcase falls below the threshold level.

🗨 NOTICE

The first 5 hours of run time are the break-in period for the unit. During the break in period stay at or below 50% of the running watt rating and vary the load occasionally to allow stator windings to heat and cool. Adjusting the load will also cause engine speed to vary and help seat piston rings. After the 5 hour break-in period, change the oil.

🗨 NOTICE

Weather will affect engine oil and engine performance. Change the type of engine oil used based on weather conditions to suit the engine needs.

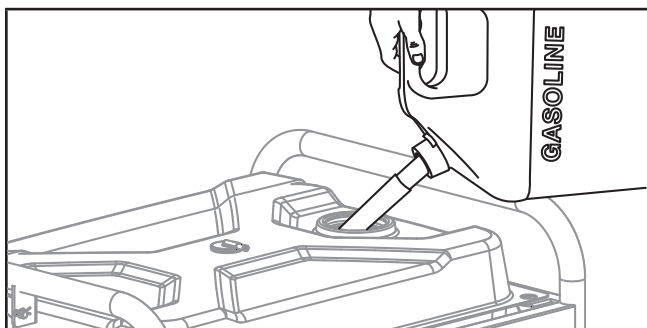
🗨 NOTICE

Synthetic oil may be used after the 5 hour initial break-in period. Using synthetic oil does not increase the recommended oil change interval. Full synthetic 5W-30 oil will aid in starting in cold ambient 5°C (41° F)

Add Fuel: Gasoline

1. Use clean, fresh, regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.
2. DO NOT mix oil with gasoline.
3. Remove the gasoline cap.

4. Slowly add gasoline to the tank. **DO NOT OVERFILL.** Gasoline can expand after filling. A minimum of ¼ in. (6.4 mm) of space left in the tank is required for gasoline expansion, although more than ¼ in. (6.4 mm) is recommended. Gasoline can be forced out of the tank as a result of expansion if overfilled, and can affect the stable running condition of the generator.



5. Screw on the gasoline cap and wipe away any spilled fuel.

⚠ CAUTION

Use regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.

DO NOT mix oil and gasoline.

Fill tank to approximately ¼ in. (6.4 mm) below the top of the tank to allow for gasoline expansion.

DO NOT pump gasoline directly into the generator at the pump. Use an approved container to transfer the gasoline to the generator.

DO NOT fill tank indoors.

DO NOT fill tank when the engine is running or hot.

DO NOT overfill the tank.

DO NOT light cigarettes or smoke when filling the tank.

⚠ WARNING

Pouring gasoline too fast through the fuel screen may result in blow back of gasoline at the operator while filling.

🗨 NOTICE

Our engines work well with 10% or less ethanol blend gasoline. When using ethanol-gasoline blends there are some issues worth noting:

- Ethanol-gasoline blends can absorb more water than gasoline alone.
- These blends can eventually separate, leaving water or a watery goo in the tank, fuel valve and carburetor.
- With gravity-fed supplies, the compromised gasoline can be drawn into the carburetor and cause damage to the engine and/or potential hazards.
- There are only a few suppliers of fuel stabilizer that are formulated to work with ethanol-gasoline blends.
- Any damages or hazards caused by using improper gasoline, improperly stored gasoline, and/or improperly formulated stabilizers, are not covered by manufacturer's warranty.

It is advisable to always shut off the gasoline supply, run the engine to starvation and drain the tank when the equipment is not in use for more than 30 days.

Grounding

Your generator must be properly connected to an appropriate ground to help prevent electric shock.

⚠ WARNING

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

A ground terminal connected to the frame of the generator has been provided (see [Controls and Features](#) for terminal location). For remote grounding, connect of a length of heavy gauge (12 AWG minimum) copper wire between the generator ground terminal and a copper rod driven into the ground. We strongly recommend that you consult with a qualified electrician to ensure compliance with local electrical codes.

OPERATION

Generator Location

NEVER operate the generator inside any building, including garages, basements, crawlspaces and sheds, enclosure or compartment, including the generator compartment of a recreational vehicle. Please consult your local authority. In some areas, generators must be registered with the local utility. Generators used at construction sites may be subject to additional rules and regulations. Generators should be on a flat, level surface at all times. (Even while not in operation) Generators must have at least 5 ft. (1.5 m) of clearance from all combustible material. In addition to clearance from all combustible material, generators must also have at least 3 ft. (91.4 cm) of clearance on all sides to allow for adequate cooling, maintenance and servicing. Generators should never be started or operated in the back of a SUV, camper, trailer, in the bed of a truck (regular, flat or otherwise), under staircases/stairwells, 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. Allow generators to properly cool before transport or storage.

Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up according to the manufacturer's instructions.

Place the generator in a well-ventilated 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.

Failure to follow proper safety precautions may void manufacturer's warranty.

⚠ WARNING

Do not operate or store the generator in rain, snow, or wet weather.

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.

⚠ WARNING

During operation the muffler and exhaust fumes produced will become hot. If adequate cooling and breathing space are not supplied, or if the generator is blocked or contained, temperatures can become extremely heated and may lead to fire.

Grounding*

A ground terminal connected to the frame of the generator has been provided (see [Controls and Features](#) for terminal location).

Neutral Floating

- 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 will not function if the receptacle ground pin is not functional.

Neutral Bonded to Frame

The generator system ground connects lower frame cross-member below the alternator. The system ground is connected to the AC neutral wire.

**See your model's control panel for specified type of grounding.*

Surge Protection

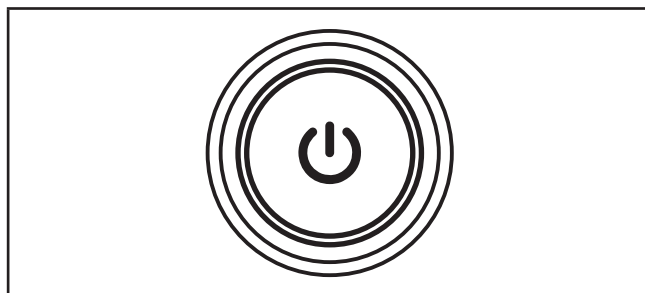
Electronic devices, including computers and many programmable appliances use components that are designed to operate within a narrow voltage range and may be affected by momentary voltage fluctuations. While there is no way to prevent voltage fluctuations, you can take steps to protect sensitive electronic equipment.

- Install UL1449, CSA-listed, plug-in surge suppressors on the outlets feeding your sensitive equipment. Surge suppressors come in single- or multi-outlet styles. They're designed to protect against virtually all short-duration voltage fluctuations.

Wireless Set Button

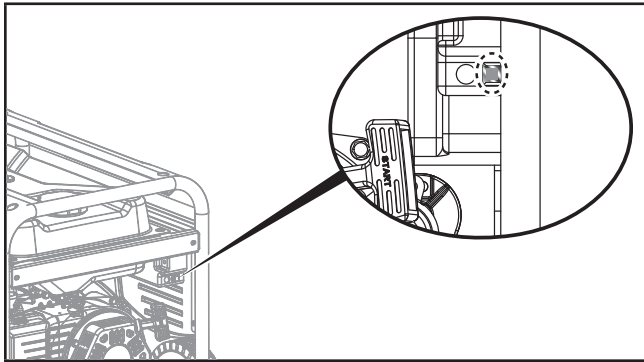
The wireless set button is a feature that lets the user sync remote controls to the generator. One can set up to two remote controls or reset a remote control with the generator. To reset a remote control or sync two remote controls follow these steps:



1. Press the START/STOP button once on the front panel of the generator.



2. The button will flash amber once per second.

3. Push and hold the wireless reset button found on the side of the control panel for approximately three (3) seconds.



4. The amber light of START/STOP button will stay lit to indicate "ON".
5. Push and release the STOP  button on the remote control. The START/STOP button will flash amber and then green which will signal to erase the remote program.
6. Push and release the START  button. The red light blinks once to program the remote.
7. Push and hold the wireless reset button for approximately three (3) seconds until the amber light of START/STOP button flashes once per second.
8. Your remote is now programmed.
9. Test start and stop features.


NOTICE

Only two remote controls can be synced with one generator at a time.

NOTICE

Changing a remote control battery may not require the user to reset the remote control.

Starting the Engine

1. Make certain the generator is on a flat, level surface.
2. Turn the gasoline fuel valve to the "ON" position.
3. Move the choke to the "CHOKE" position  (NO manual choke needed for electric and wireless start).

Wireless Remote Start

Wireless remote starting is only possible within 80 feet of the generator.


DO NOT attempt to adjust the choke. The remote system will automatically close and open the choke.

1. Press the START/STOP button once. The button will flash amber.
2. Press and release the "START" button on the remote control. DO NOT hold the button down, only press the button once. The engine will attempt to start six times.

Electric Start

1. Press the START/STOP button once. The button will flash amber but the generator will not attempt to start.
2. Press the START/STOP button a second time. The button will now flash green and the generator will attempt to start. There will be (6) starting attempts. After generator starts, the button will turn solid green.

Manual Start

1. For restarting a warm engine, move the choke to 75% of the "CHOKE" position (NO manual choke needed for electric and wireless start).
2. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in and turned ON.
3. Pull the starter cord slowly until resistance is felt and then pull rapidly. Several pulls may be required.
4. Once engine starts, move choke lever to the "RUN" position .

NOTICE

For Wireless and Electric Start only: A safety feature is provided which delays the electrical power availability during starting mode. The delay lasts for approximately 15 seconds. The delay is provided to prevent damage to the generator if electrical loads are inadvertently turned on during engine startup.

NOTICE

Keep choke in "CHOKE" position for only 1 pull of the recoil starter. After first pull, move choke to the "RUN" position for up to the next 3 pulls of the recoil starter. Too much choke leads to spark plug fouling/engine flooding due to the lack of incoming air. This will cause the engine not to start.

NOTICE

For gasoline restarts with hot engine in hot ambient > 30°C (86°F), keep the choke in 75% of the “CHOKE” position for only 1 pull of the recoil starter. After first pull, move choke to the “RUN” position for up to 3 more pulls of the recoil starter. Too much choke leads to spark plug fouling/engine flooding due to the lack of incoming air. This will cause the engine not to start.

NOTICE

For gas starting in cold ambient <15°C (59°F) the choke must be in 100% of the “CHOKE” position for recoil start procedures. Do not over-choke. As soon as engine starts, gradually move the choke lever to the “RUN” position over a 2-5 second duration.

Battery**NOTICE**

The supplied 12V battery does re-charge while the engine is running, but it is also recommended that the battery be fully charged at least once per month.

Connecting Electrical Loads

Let the engine stabilize and warm up for a few minutes after starting.

Plug in and turn on the desired 120 or 240 (if applicable) Volt AC single phase, 60 Hz electrical loads.

- DO NOT connect 3-phase loads to the generator.
- DO NOT connect 50 Hz loads to the generator.
- DO NOT overload the generator.

WARNING

Connecting a generator to your electric utility company's power lines or to another power source may be against the law. In addition this action, if done incorrectly, could damage your generator and appliances and could cause serious injury or even death to you or a utility worker who may be working on nearby power lines. If you plan to run a portable electric generator during an outage, please notify your electric utility company immediately and remember to plug your appliances directly into the generator. Do not plug the generator into any electric outlet in your home. Doing so could create a connection to the utility company power lines. You are responsible for ensuring that your generator's electricity does not feed back into the electric utility power lines.

If the generator will be connected to a building electrical system, consult your local utility company or a qualified electrician. Connections must isolate generator power from utility power and must comply with all applicable laws and codes.

Do Not Overload Generator**Capacity**

Follow these simple steps to calculate the running and starting watts necessary for your purposes:

1. Select the electrical devices you plan on running at the same time.
2. Total the running watts of these items. This is the amount of power you need to keep your items running.
3. Identify the highest starting wattage of all devices identified in step 1. Add this number to the number calculated in step 2. Starting wattage is the extra burst of power needed to start some electric driven equipment. Following the steps listed under "Power Management" will guarantee that only one device will be starting at a time.

Power Management

Use the following formula to convert voltage and amperage to watts:

$$\text{Volts} \times \text{Amps} = \text{Watts}$$

To prolong the life of your generator and attached devices, follow these steps to add electrical load:

1. Start the generator with no electrical load attached
2. Allow the engine to run for several minutes to stabilize.
3. Plug in and turn on the first item. It is best to attach the item with the largest load first.
4. Allow the engine to stabilize.


5. Plug in and turn on the next item.
6. Allow the engine to stabilize.
7. Repeat steps 5-6 for each additional item.

NOTICE

Never exceed the specified capacity when adding loads to the generator.

Stopping the Engine

REMOTE:

1. Turn off all electrical loads. Never start/stop the generator with electrical loads applied to the generator.
2. Let the generator run at no-load for several minutes to stabilize internal temperatures of the engine and generator.
3. Press the STOP button  on the remote control.

Engine will shut off but the START/STOP button on the panel will flash amber waiting for the next START instruction.

The button will flash amber for twelve (12) hours. To completely shut the generator off, press and hold the STOP on the remote control for three (3) seconds until the amber light on the START/STOP button goes out.

MANUAL:

1. Turn off and unplug all electrical loads. Never start or stop the generator with electrical devices plugged in or turned on.
2. Let the generator run at no-load for several minutes to stabilize internal temperatures of the engine and generator.
3. Press the START/STOP pushbutton to turn off the generator.
4. To completely shut the generator off, press and hold START/STOP button on the generator for three (3) seconds until the amber light on the START/ STOP button goes out. The generator should shut down.

Important: Always ensure that the fuel valve and the START/STOP button are in the "OFF" position when the generator is not in use.

NOTICE

If the engine will not be used for a period of two (2) weeks or longer, please see the [Storage](#) section for proper engine and fuel storage.

Operation at High Altitude

The density of air at high altitude is lower than at sea level. Engine power is reduced as the air mass and air-fuel ratio decrease. Engine power and generator output will be reduced approximately 3½% for every 1000 ft. of elevation above sea level. This is a natural trend and cannot be changed by adjusting the engine. At high altitudes increased exhaust emissions can also result due to the increased enrichment of the air fuel ratio. Other high altitude issues can include hard starting, increased fuel consumption and spark plug fouling.

To alleviate high altitude issues other than the natural power loss, CPE can provide a high altitude carburetor main jet. The alternative main jet and installation instructions can be obtained by contacting our Technical Support Team. Installation instructions are also available in the Technical Bulletin area of the CPE website.

The part number and recommended minimum altitude for the application of the high altitude carburetor main jet is listed in the table below.

In order to select the correct high altitude main jet it is necessary to identify the carburetor model. For this purpose, a code is stamped on the side of the carburetor. Select the correct high altitude jet part number corresponding to the carburetor code found on your particular carburetor.

Carb. Code	High Alt. Jet Part Number	Min. Altitude
P22-3-H	27.131017.01.01.H	3500 ft. (1067 m)
P22-3-Z	27.131017.01.01.Z	
P22-3-Y	27.131017.01.01.Y	

WARNING

Operation using the alternative main jet at elevations lower than the recommended minimum altitude can damage the engine. For operation at lower elevations, the originally supplied standard main jet must be used. Operating the engine with the wrong engine configuration at a given altitude may increase its emissions and decrease fuel efficiency and performance.

MAINTENANCE

Make certain that the generator is kept clean and stored properly. Only operate the unit on a flat, level surface in a clean, dry operating environment. DO NOT expose the unit to extreme conditions, excessive dust, dirt, moisture or corrosive vapors.

⚠ WARNING

Never operate a damaged or defective generator.

⚠ WARNING

Improper maintenance will void your warranty.

🗨 NOTICE

Maintenance, replacement, or repair of emission control devices and systems may be performed by any non-road engine repair establishment or individual.

The owner/operator is responsible for all periodic maintenance.

Complete all scheduled maintenance in a timely manner.

Correct any issue before operating the generator.

For service or parts assistance, contact our Technical Support Team at 1-877-338-0999.

Cleaning the Generator

⚠ CAUTION

DO NOT spray engine with water.

Water can enter the generator through the cooling slots and damage the generator windings. It can also contaminate the fuel system.

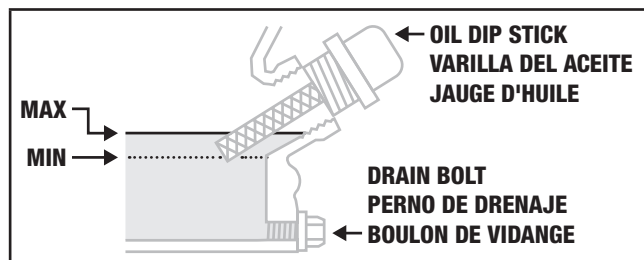
1. Use a damp cloth to clean exterior surfaces of the generator.
2. Use a soft bristle brush to remove dirt and oil.
3. Use an air compressor (25 PSI) to clear dirt and debris from the generator.
4. Inspect all air vents and cooling slots to ensure that they are clean and unobstructed.

To prevent accidental starting, remove and ground the spark plug wire before performing any service.

Changing the Engine Oil

Change oil when the engine is warm. Refer to the oil specification to select the proper grade for your operating environment.

1. Remove the oil drain plug with a 12 mm socket (not included) and extension.
2. Allow the oil to drain completely into an appropriate container.
3. Replace the oil drain plug.
4. Remove the oil fill cap/dipstick to add oil.



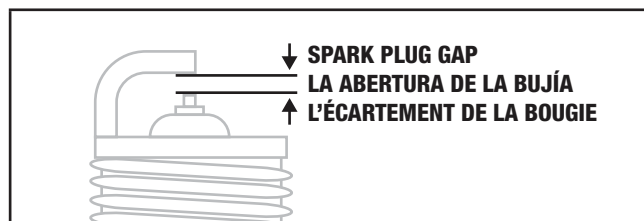
5. Add oil according to "Add Engine Oil" on Assembly section. DO NOT OVERFILL. Oil not included for routine maintenance.
6. Dispose of used oil at an approved waste management facility.

🗨 NOTICE

Once oil has been added, a visual check should show oil about 1-2 threads from running out of the fill hole. If using the dipstick to check oil level, DO NOT screw in the dipstick while checking.

Cleaning and Adjusting the Spark Plug(s)

1. Remove the spark plug cable from the spark plug.
2. Use a spark plug socket tool (not included), or a 13/16 in. (21 mm) socket (not included) to remove the plug.
3. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.
4. Make certain the spark plug gap is 0.028-0.031 in. (0.7-0.8 mm).



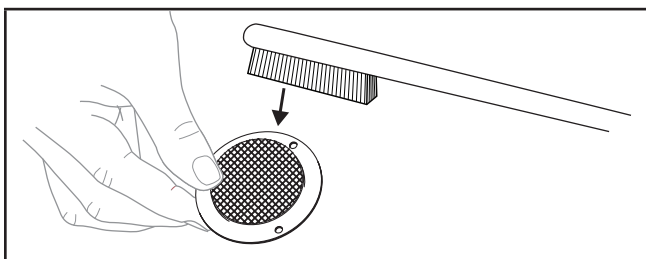
5. Refer to the spark plug types in [Specifications](#) when replacing the plug.
6. Firmly re-install the plug.
7. Attach the spark plug cable to the spark plug.

Cleaning the Air Filter

1. Remove the snap-on cover holding the air filter to the assembly.
2. Remove the foam element.
3. Wash in liquid detergent and water. Squeeze thoroughly dry in a clean cloth.
4. Saturate in clean engine oil.
5. Squeeze in a clean, absorbent cloth to remove all excess oil.
6. Place the filter in the assembly.
7. Reattach the air filter cover and snap in place.

Cleaning the Spark Arrestor

1. Allow the engine to cool completely before servicing the spark arrestor.
2. Remove the three screws holding the cover plate which retains the spark arrestor screen to the muffler.
3. Remove the spark arrestor screen.
4. Carefully remove the carbon deposits from the spark arrestor screen with a wire brush.



5. Replace the spark arrestor if it is damaged.
6. Position the spark arrestor on the muffler and attach with the three screws.

⚠ CAUTION

Failure to clean the spark arrestor will result in degraded engine performance.

🗨 NOTICE

Federal and local laws and administrative requirements indicate when and where spark arrestors are required. When ordered, spark arrestors are required for operation of this generator in National Forest lands. In California, this generator must not be used on any forest-covered land, brush-covered land, or grass-covered land unless the engine is equipped with a spark arrestor.

Adjusting the Governor

⚠ WARNING

Tampering with the factory set governor will void your warranty.

The air-fuel mixture is not adjustable. Tampering with the governor can damage your generator and your electrical devices and will void your warranty. Contact our Technical Support Team at 1-877-338-0999 for all other service and/or adjustment needs.

Generator Battery

Your generator is equipped with an automatic battery charging circuit that charges the battery while the engine is running. The battery will maintain a proper charge if the unit is used on a regular basis (about once every two weeks). If it is used less frequently, the battery should be connected to a trickle charger or battery maintainer (not included) to keep the battery properly charged.

Maximum charging rate should not exceed 1.5 amps. Follow the instructions included with the battery charger. The battery should be fully charged at least once per month. If the battery is not able to start the engine, it can be started by manually pulling the engine recoil cord. If the battery voltage is extremely low, the charging circuit may not be able to re-charge the battery. In this case, the battery must be connected to a standard automotive style battery charger for re-charging before it can be used.

Disconnect the Battery

1. Remove the protective cover from the black (-) battery lead.
2. Disconnect the black (-) lead from the black (-) terminal on the battery and store the cap screw and nut.
3. Repeat steps 1-2 for the red (+) battery lead.
4. Store the battery in a cool, dry place.

Charge the Battery

For a generator equipped with batteries for electric starting, proper battery maintenance and storage should be followed. A trickle charger or battery maintainer should be used to charge the battery while the generator is in storage. Maximum charging rate should not exceed 1.5 amps. Follow the instructions included with the trickle charger or battery maintainer. The battery should be fully charged at least once per month.

Remote Control Battery

NOTICE

- Always purchase the correct size and grade of battery most suitable for the intended use.
- Clean the battery contacts and also those of the device prior to battery installation.
- Remove batteries from equipment which is not to be used for an extended period of time.
- Remove batteries if consumed or if product is to be left unused for a long time.

Maintenance Schedule

Follow the service intervals indicated in the following maintenance schedule.

Service your generator more frequently when operating in adverse conditions.

Contact our Technical Support Team at 1-877-338-0999 to locate the nearest CPE certified service dealer for your generator or engine maintenance needs.

EVERY 8 HOURS OR DAILY

- Check oil level
- Clean around air intake and muffler

FIRST 5 HOURS

- Change oil

EVERY 50 HOURS OR EVERY SEASON

- Clean air filter
- Change oil if operating under heavy load or in hot environments

EVERY 100 HOURS OR EVERY SEASON

- Change oil
- Clean/adjust spark plug
- Check/adjust valve clearance*
- Clean spark arrestor
- Clean fuel tank and filter*

EVERY 250 HOURS

- Clean combustion chamber*

EVERY 3 YEARS

- Replace fuel line*

**To be performed by knowledgeable, experienced owners or CPE certified service centers.*

STORAGE

⚠ DANGER

Gasoline, gasoline vapors and propane (LPG) are highly flammable and extremely explosive.

Fire or explosion can cause severe burns or death. Only fill or drain fuel outdoors in a well-ventilated area. DO NOT pump gasoline directly into the generator. Use an approved container to transfer the fuel to the generator. Never use a gasoline container, gasoline tank, LPG connector hose, LPG cylinder or any other fuel item that is damaged or appears damaged. DO NOT overfill the gasoline tank. Always keep fuel away from sparks, open flames, pilot lights, heat and other sources of ignition. DO NOT light or smoke cigarettes.

NOTICE

Dual Fuel models only: If no gasoline has been added to the generator, the gasoline tank and carburetor drainage steps may be skipped.

Short Term Storage (up to 1 year)

Gasoline in the gasoline tank has a maximum shelf life of up to 1 year with the addition of properly formulated fuel stabilizers and if stored in a cool, dry place. Gasoline in the carburetor, however, may gum up and clog the carburetor if it isn't used or drained within 2-4 weeks.

1. Be sure all appliances are disconnected from the generator.
2. Add a properly formulated fuel stabilizer to the gasoline tank.
3. Turn the fuel valve to the "ON" position *or, for Dual Fuel models only*, set the fuel selector switch for operation on gasoline.
4. Start and run the generator for 10 minutes so the treated gasoline cycles through the fuel system and carburetor.
5. Press the START/STOP button to turn off the generator.
6. To completely shut the generator off, press and hold START/STOP button on the generator for three (3) seconds until the amber light on the START/ STOP button goes out and allow the generator to cool completely.
7. **Option 1: Drain Gasoline (all models)**
 - 7a. Turn the fuel valve to the "OFF" position *or, for Dual Fuel models ONLY*, set the fuel selector switch for operation on LPG and be sure any LPG fuel source is turned off and disconnected from the generator.
 - 7b. Use the drain bolt on the carburetor to empty any excess gasoline from the carburetor into an appropriate container. Use a funnel (and appropriate hose if necessary) under the carburetor drain bolt to avoid spillage.
 - 7c. When gasoline stops flowing from the carburetor, replace and tighten the carburetor drain bolt and be sure to properly dispose of the drained gasoline according to local regulations or guidelines.
8. **Option 2: Run Dry (gasoline type models ONLY)**
 - 8a. **Electric Start:** Press the START/STOP button once. The button will flash amber but the generator will not attempt to start.
 - 8b. Press the START/STOP button a second time. The button will now flash green and the generator will attempt to start. There will be (6) starting attempts. After generator starts, the button will turn solid green.
 - 8c. With the generator running, turn the fuel valve to the "OFF" position and allow the generator to run until the engine stops from complete fuel starvation. This may take a few minutes.
 - 8d. Press and hold START/STOP button on the generator for three (3) seconds until the amber light on the START/ STOP button goes out and allow the generator to cool completely.

9. Remove the spark plug cap and spark plug and pour about a tablespoon of oil into the cylinder.
10. Pull the recoil slowly to crank the engine to distribute the oil and lubricate the cylinder.
11. Reattach the spark plug and spark plug cap.
12. If the generator includes a battery, disconnect and charge according to [Generator Battery](#).
13. Clean the generator according to [Cleaning the Generator](#).
14. Store the generator in a cool, dry place out of direct sunlight.

Long Term Storage (over 1 year)

For storage over 1 year, the gasoline tank and carburetor must be completely drained of gasoline.

1. Follow steps 1-5 according to [Short Term Storage](#).
2. Use the drain bolt on the carburetor to empty any excess gasoline from the gasoline tank and carburetor into an appropriate container. Use a funnel (and appropriate hose if necessary) under the carburetor drain bolt to avoid spillage.
3. When gasoline stops flowing from the carburetor, replace and tighten the carburetor drain bolt and be sure to properly dispose of the drained gasoline according to local regulations or guidelines.
4. Turn the fuel valve to the "OFF" position *or, for Dual Fuel models ONLY*, set the fuel selector switch for operation on LPG and be sure any LPG fuel source is turned off and disconnected from the generator.
5. Follow steps 8-13 according to [Short Term Storage](#).

Removing from Storage

If the generator has been improperly stored for a long period of time with gasoline in the gasoline tank and/or carburetor, all fuel must be drained and the carburetor must be thoroughly cleaned. This process involves technically advanced tasks. For assistance please call our Technical Support Team at 1-877-338-0999. If the gasoline tank and carburetor were properly emptied of all gasoline prior to the generator being stored, follow the below steps when removing from storage.

1. Add gasoline to the generator according to [Add Fuel: Gasoline](#).
2. To completely shut the generator off, press and hold START/STOP button on the generator for three (3) seconds until the amber light on the START/ STOP button goes out.
3. Turn the fuel valve to the "ON" position *or, for Dual Fuel models ONLY*, set the fuel selector switch for operation on gasoline.

4. After 5 minutes check the carburetor and air filter areas for any leaking gasoline. If any leaks are found, the carburetor will need to be disassembled and cleaned or replaced. If no gasoline leaks are found, turn the fuel valve to the "OFF" position *or, for Dual Fuel models ONLY*, set the fuel selector switch for operation on propane (LPG).
5. Check engine oil level and add clean, fresh oil if needed. See [Oil Specifications](#) for proper oil type.
6. Check and clear air filter of any obstructions such as bugs or cobwebs. If necessary, clean air filter according to [Cleaning the Air Filter](#).
7. If the generator includes a battery, connect according to [Connect the Battery](#).
8. Start the generator according to [Starting the Engine](#).

⚠ DANGER

Generator exhaust contains odorless and colorless carbon monoxide gas.

To avoid accidental or unintended ignition of your generator during periods of storage, the following precautions should be followed:

- When storing the generator make sure the start/stop button and fuel valve are set to the "OFF" position.
- If your generator includes a battery, disconnect according to [Generator Battery](#).

SPECIFICATIONS

Generator Specifications

Generator Model	100432
Start Type	Wireless Remote, Electric, Manual
Watts (Starting/Running)	4450/3550
AC Volts	120
AC Amps @ 120 (Starting/Running)	37.1/29.6
Frequency	60 Hz
Phase	Single
Gross Weight	135.4 lb. (61.4 kg)
Net Weight	123 lb. (55.8 kg)
Length	24.4 in. (62 cm)
Width	23.7 in. (60.2 cm)
Height	22 in. (56 cm)

Engine Specifications

Model	YF172FD-210
Displacement	224 cc
Type	4-Stroke OHV

Oil Specifications

DO NOT OVERFILL.

Type	*See chart below
Capacity	0.6 qt. (0.6 L)

Recommended Oil Type / Tipo de aceite recomendado / Type d'huile recommandé								
		10W-30						
		5W-30			10W-40			
		5W-30 Synthetic / Sintético / Synthétique						
°F	-20	0	20	40	60	80	100	120
°C	-28.9	-17.8	-6.7	4.4	15.6	26.7	37.8	48.9
Ambient temperature / Temperatura ambiente / Température ambiante								

NOTICE

Weather will affect engine oil and engine performance. Change the type of engine oil used based on weather conditions to suit the engine needs.

Fuel Specifications

Use regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of less than 10% by volume. DO NOT USE E15 or E85. DO NOT OVERFILL.

Gasoline Capacity	4 gal. (15.1 L)
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Spark Plug Specifications

OEM Type	NHSP F6RTC
Replacement Type	NGK BPR6ES or equivalent
Gap	0.028-0.031 in. (0.7-0.8 mm)

Valve Specifications

Intake Clearance	0.005-0.007 in. (0.13-0.17 mm)
Exhaust Clearance	0.007-0.009 in. (0.18-0.22 mm)

NOTICE

A technical bulletin regarding valve adjustment procedures is available at www.championpowerequipment.com.

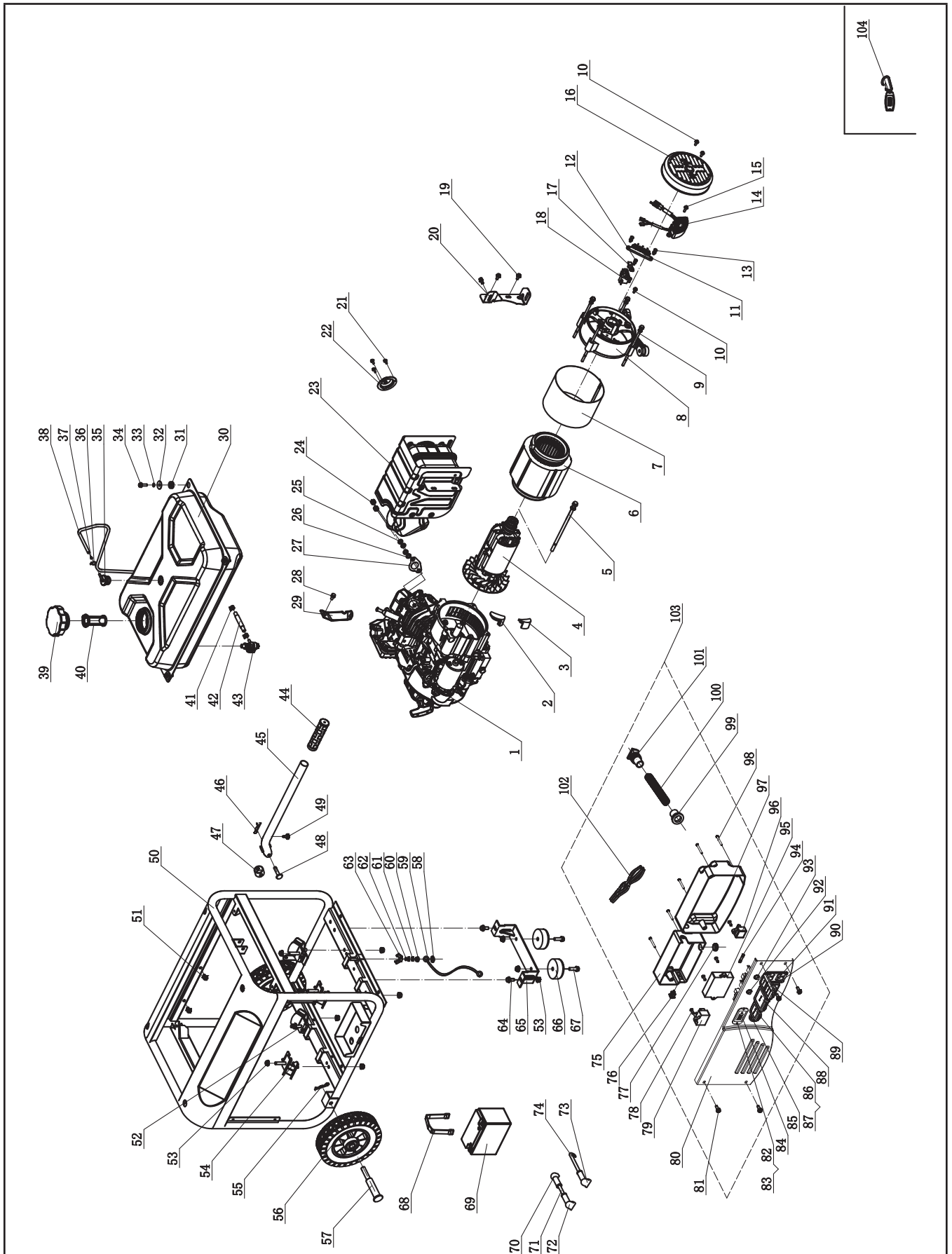
Temperature Specifications

Starting Temperature Range (°F/°C)	5 to 104/-15 to 40
Remote Starting Temperature Range (°F/°C)	23 to 104/-5 to 40

NOTICE

An important message about temperature: Your product is designed and rated for continuous operation at ambient temperatures up to 40°C (104°F). When your product is needed it may be operated at temperatures ranging from 5°F (-15°C) to 122°F (50°C) for short periods of time. If exposed to temperatures outside this range during storage, it should be brought back within this range before operation. In any event, the product must always be operated outdoors, in a well-ventilated area and away from doors, windows and vents.

Parts Diagram



Parts List

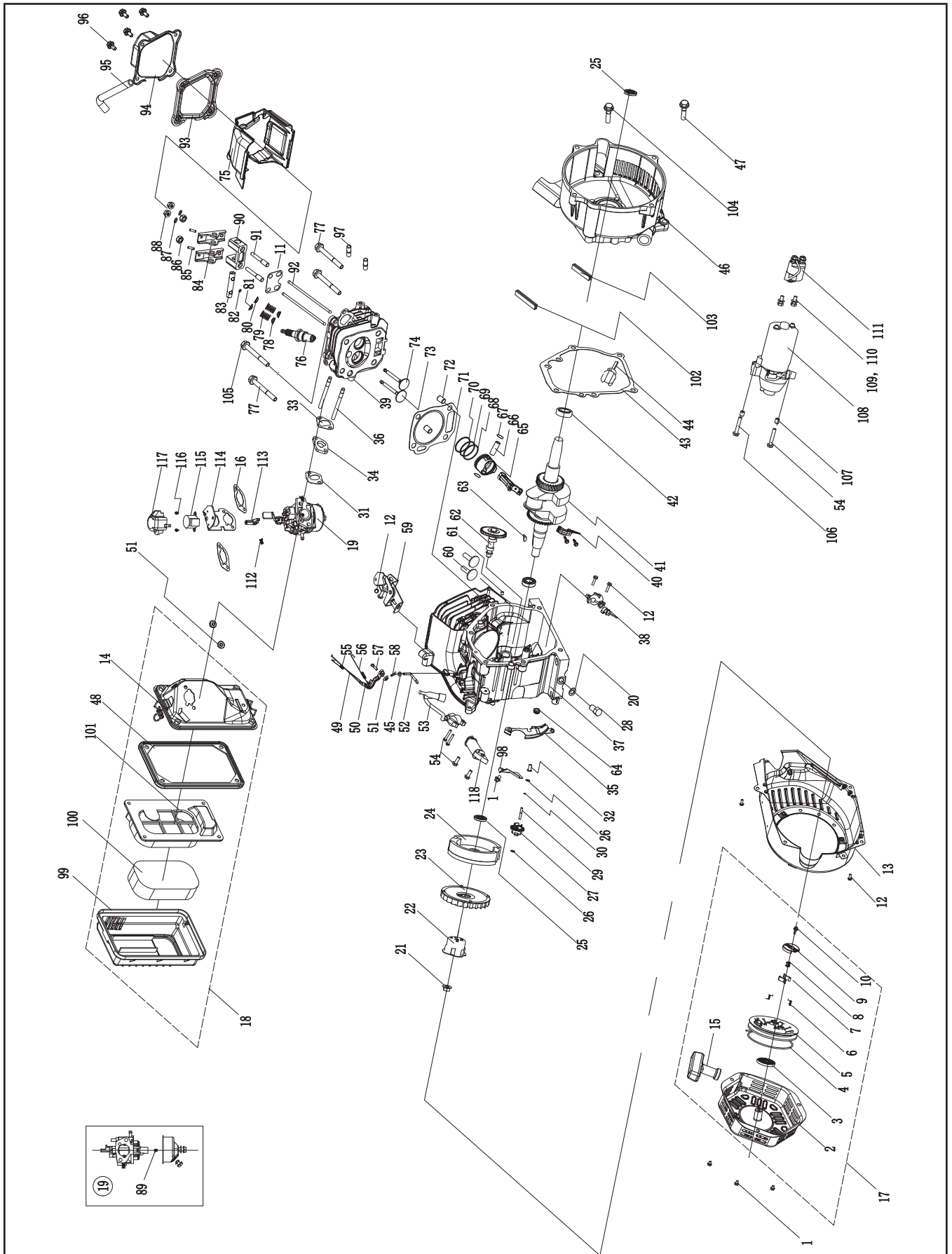
#	Part Number	Description	Qty.
1	27.602	Engine, 224cc	1
2	122.190005.00	Rubber, Fore-Cover, B	1
3	122.190005.01	Rubber, Fore-Cover, A	1
4	124.191100.02	Rotor Assembly, Al, Ø160 × 130 mm, CSA	1
5	2.08.109	Flange Bolt/Washer Assembly M8 × 252	1
6	124.191200.02	Stator Assembly, Al, Ø160 × 130 mm, CSA	1
7	124.191002.01	Stator Cover	1
8	122.190002.00	End Housing	1
9	2.08.032	Flange Bolt/Washer Assembly M6 × 179	4
10	1.16674.0512.2	Flange Bolt M5 × 12	3
11	122.190400.00	Terminal Block	1
12	1.9074.15.0520	Screw/Washer Assembly M5 × 20	1
13	1.9074.17.0516	Screw/Washer Assembly M5 × 16	2
14	122.190200.05	AVR	1
15	1.16674.0516	Flange Bolt M5 × 16	2
16	122.190003.00.48	Generator End Cover, Yellow	1
17	122.190004.01	Pinch, Carbon Brush	1
18	122.190300.00	Carbon Brush Assembly	1
19	1.5789.0615	Flange Bolt M6 × 15	3
20	27.100100.01	Bracket, Muffler	1
21	1.823.0406	Screw M4 × 6	3
22	27.101300.00	Spark Arrester Assembly	1
23	27.101000.01.2	Muffler Assembly	1
24	1.6175.08	Nut M8	2
25	1.93.08	Lock Washer Ø8	2
26	1.848.08	Washer Ø8	2
27	26.100001.00	Gasket, Exhaust	1
28	1.5789.0608	Flange Bolt M6 × 8	1
29	23.090006.21	Holder, Air Cleaner	1
30	122.071000.48.48	Fuel Tank, 15.1 L, Yellow	1
31	122.070015.01	Mount Vibration, Fuel Tank	4
32	2.03.004.1	Flat Washer, Ø24 × Ø6.5 × 1.5, Black	4
33	1.93.06	Lock Washer Ø6	4

#	Part Number	Description	Qty.
34	1.5789.0620.1	Flange Bolt M6 × 20, Black	4
35	24.070800.00	Reversal Valve	1
36	2.06.006	Clamp Ø7 × Ø1	1
37	24.070030.00	Hole, Breather Tube	1
38	122.070014.02	Pipe, Reversal Valve, 670 mm	1
39	122.070100.07	Fuel Tank Cap	1
40	122.070300.03	Fuel Filter	1
41	2.06.007	Clamp Ø8 × b6	2
42	23.070011.04	Fuel Pipe, 155 mm	1
43	122.070400.05	Fuel Valve	1
44	152.200702.00	Cover, Handle	1
45	122.200701.11	Handle	1
46	11.110008.00	"R" Shape	1
47	122.201001.00	Hard Rubber	1
48	122.200703.11	Short Pin, Handle	1
49	122.201400.03	Rubber	1
50	62347.09.16.2	Frame	1
51	2.05.001	Clamp Ø8 × 6.5	2
52	122.201200.07	Motor Mount 2	2
53	1.6177.1.08	Lock Nut M8, Flange	12
54	122.201200.06	Motor Mount 1	2
55	2.16.001	Pin Ø2 × 33, "R" Shape	2
56	122.201701.05.48	8in Wheel, Yellow	2
57	122.201501.23	Pin Roll, Wheel, Ø16 × Ø10 × 97	2
58	1.862.06	Lock Washer Ø6, Toothed	1
59	5.1900.026	Grounding Line 150 mm	1
60	1.6177.1.06	Lock Nut M6, Flange	1
61	1.97.1.06	Washer Ø6	2
62	1.93.06	Lock Washer Ø6	1
63	1.62.06	Butterfly Type Nut M6	1
64	1.5789.0816	Flange Bolt M8 × 16	2
65	152.200002.00.2	Support Leg 60 mm	1
66	152.201400.00	Rubber, Support	2
67	1.5789.0825	Flange Bolt M8 × 25	2
68	122.200904.00	Pinch, Rubber	1
69	9.1000.090	Battery 12V9AH	1
70	152.200013.01.3	Jacket, Wire, Red	1

#	Part Number	Description	Qty.
71	5.1900.010	Red Wire, 190 mm, Battery	1
72	122.200013.01.3	Jacket, 9AH Battery, Red	1
73	122.200013.01	Jacket, 9AH Battery, Black	1
74	5.1900.011	Black Wire, 190 mm, Battery	1
75	122.210002.20	Control Box	1
76	5.1040.004	Remote Exercise Button	1
77	122.210003.00	Grommet	1
78	1.818.0514.2	Screw M5 × 14	4
79	5.1820.000	Charger	1
80	122.159.31.2	Control Panel, Black	1
81	1.5789.0612.1	Flange Bolt M6 × 12, Black	4
82	1.9074.4.0414.1	Screw/Washer Assembly M4 × 14, Black	2
83	1.6177.1.04.1	Lock Nut M4, Flange, Black	8
84	5.1430.001	Intelligauge	1
85	5.1040.012	Button Start	1
86	5.1870.006	Receptacle Cover, L5-30R	1
87	5.1120.008	Receptacle L5-30R	1
88	5.1870.004	Receptacle Cover, Receptacle TT-30R	1
89	5.1120.034	Receptacle TT-30R	1
90	5.1870.008	Receptacle Cover, Receptacle 5-20R, Duplex	1
91	5.1120.010	Receptacle 5-20R, Duplex	1
92	5.1210.930	30Amp Circuit Breaker, Push Button, CSA	1
93	5.1210.920	20Amp Circuit Breaker, Push Button, CSA	1
94	5.1280.003	Fuse 10A	1
95	5.1830.015	Remote Control	1
96	5.1810.001	Over Voltage Protector	1
97	122.210002.14	Control Box	1
98	1.9074.1.0538.2	Screw/Washer Assembly M5 × 38	5
99	122.210003.01	Wire Jacket, Control Box	1
100	5.1330.001	Sheath, Wire	1

#	Part Number	Description	Qty.
101	122.210003.03	Plug, End Cover	1
102	100432.21.10	Wire Assembly	1
103	100432.21	Control Panel Assembly	1
104	9.2600.002	Remote	1

Engine Parts Diagram



Engine Parts List

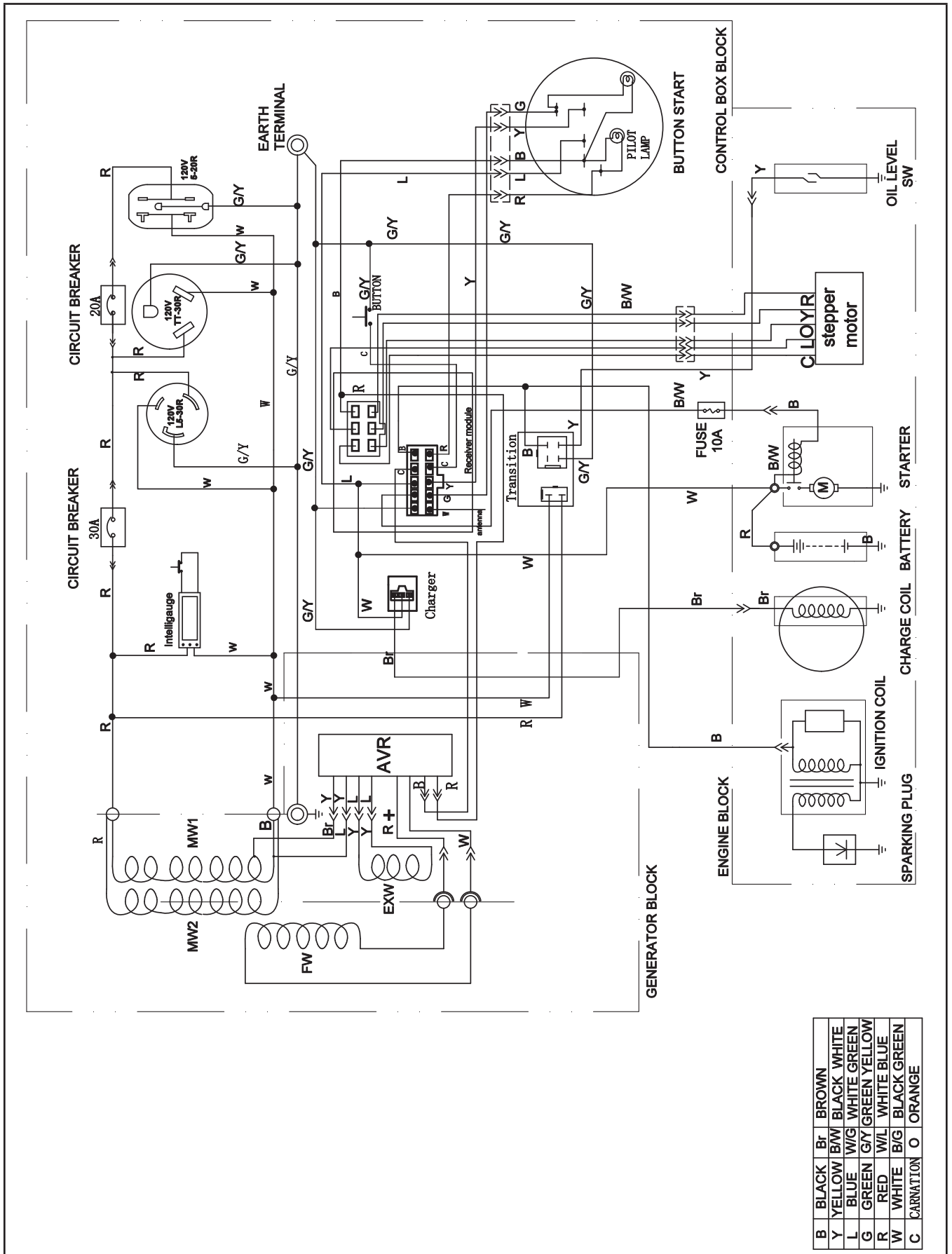
#	Part Number	Description	Qty.
1	1.5789.0608	Flange Bolt M6 × 8	3
2	22.061100.00.2	Cover, Recoil Starter, Black	1
3	21.061005.00	Spring, Recoil Starter	1
4	2.10.003.1	Rope Ø4 × 1550, Black	1
5	21.061001.01	Reel, Recoil Starter	1
6	45.060003.00	Spring, Ratchet	2
7	45.060002.00	Starter Ratchet, Iron	2
8	45.060009.00	Spring, Ratchet Guide	1
9	45.060007.00	Ratchet Guide	1
10	45.060008.00	Screw, Ratchet Guide	1
11	24.040004.00	Guide Plate, Push Rod	1
12	1.5789.0612	Flange Bolt M6 × 12	8
13	27.080100.04.48	Fan Cover, Yellow	1
14	24.091100.21	Base, Air Cleaner	1
15	21.061300.00	Handle, Recoil, Soft	1
16	24.130004.20	Gasket, Air Cleaner	2
17	22.061000.00	Recoil Assembly, 118cc - 224cc	1
18	27.091000.02	Air Cleaner Assembly	1
19	27.131000.03	Carburetor	1
	27.131000.07		
20	2.03.016	Washer, Ø10 × Ø16 × 1.5, Drain Bolt	1
21	2.02.006	Nut M14 × 1.5	1
22	83.060001.01	Pulley, Starter	1
23	27.080001.00	Cooling Fan	1
24	24.120100.10	Flywheel	1
25	2.11.001	Oil Seal Ø25 × Ø41.3 × 6	2
26	2.03.020.1	Washer, Ø6.2 × Ø15 × 0.5, Black	2
27	21.110100.00	Gear, Governor	1
28	2.08.037	Bolt M10 × 1.25 × 25, Drain	1
29	21.110013.00	Shaft, Governor Gear	1
30	21.110011.00	Clip, Governor Gear	1
31	22.130003.00	Gasket, Carburetor	1
32	21.110012.01	Bushing, Governor Gear, Steel	1
33	24.130002.00	Gasket, Insulator	1
34	27.130001.00	Insulator, Carburetor	1
35	27.080600.00	Air Guide, Right Side	1
36	2.01.003	Stud Bolt M6 × 90	2

#	Part Number	Description	Qty.
37	27.030100.01	Crankcase	1
38	21.127000.02	Oil Level Sensor	1
39	26.010100.01	Cylinder Head, 224cc	1
40	27.050200.00	Connecting Rod	1
41	27.050100.00	Crankshaft	1
42	1.276.6205	Bearing 6205	2
43	24.030008.00	Gasket, Crankcase Cover	1
44	22.031000.00.48	Oil Dipstick Assembly, Yellow	1
45	2.03.021.1	Washer, Ø6.4 × Ø13 × 1, Black	1
46	27.030007.01	Cover, Crankcase	1
47	1.5789.0832.0.8	Flange Bolt M8 × 32	5
48	23.091002.21	Seal, Air Cleaner	1
49	23.110006.00	Rod, Governor	1
50	27.110003.00	Arm, Governor	1
51	1.6177.06	Nut M6, Flange	3
52	21.110001.00	Shaft, Governor Arm	1
53	22.123000.02	Ignition Coil	1
54	1.5789.0625	Flange Bolt M6 × 25	3
55	23.110005.01	Spring, Throttle Return	1
56	23.110007.00	Spring, Governor	1
57	2.08.040	Bolt M6 × 21, Governor Arm	1
58	21.110008.00	Pin, Shaft	1
59	27.111000.20	Control Assembly	1
60	25.040013.00	Lifter, Valve	2
61	2.04.001	Dowel Pin, Ø9 × 14	2
62	27.041000.00	Camshaft	1
63	2.14.012	Woodruff Key 4 × 7.5 × 19	1
64	1.823.0408	Screw M4 × 8	2
65	27.050005.00	Piston	1
66	23.050003.00	Pin, Piston	1
67	2.09.001	Circlip Ø18 × Ø1	2
68	27.050303.00	Ring, Oil	1
69	27.050302.00	Ring, Second Piston	1
70	27.050301.00	Ring, First Piston	1
71	27.030009.01	Gasket, Cylinder Head	1
72	2.04.003	Dowel Pin, Ø10 × 14	2
73	23.040002.02	Valve, Intake	1
74	23.040006.02	Valve, Exhaust	1
75	27.080200.00	Air Shroud, Cylinder	1

#	Part Number	Description	Qty.
76	2.15.002(F6RTC)	Spark Plug F6RTC	1
77	1.5789.0865	Flange Bolt M8 × 65	3
78	23.040017.00	Oil Seal, Valve	2
79	21.040003.00	Spring, Valve	2
80	21.040007.00	Retainer, Exhaust Valve Spring	1
81	21.040001.00	Retainer, Intake Valve Spring	1
82	21.040008.00	Rotator, Exhaust Valve	1
83	24.040202.00	Shaft, Rocker Arm	1
84	22.040009.00	Rocker Arm	2
85	22.040012.00	Screw, Valve Adjustment	2
86	21.040021.00	Nut M6 × 0.5, Lock	2
87	1.97.1.06	Washer Ø6	2
88	1.6177.1.06	Lock Nut M6, Flange	2
89	27.131017.01	Main Jet, Standard	1
	27.131017.01.01	Main Jet, Altitude	1
90	24.040201.00	Retainer, Rocker Arm	1
91	23.040010.00	Bolt, Rocker Arm	2
92	27.040005.00	Push Rod	2
93	21.020002.01	Gasket, Cylinder Head Cover	1
94	24.021000.00	Cover, Cylinder Head	1
95	23.020001.02	Breather Tube	1
96	1.5789.0615	Flange Bolt M6 × 15	4
97	2.01.010	Stud Bolt M8 × 35	2
98	81.132001.00	Cover, Stepper Motor	1
99	27.091200.01	Cover, Air Cleaner	1
100	23.091003.21	Element, Air Cleaner	1
101	23.091001.21	Separator, Air Cleaner	1
102	27.030013.00	Seal Strip, Crankcase Cover, Long	1
103	27.030013.01	Seal Strip, Crankcase Cover, Short	1
104	2.08.123	Bolt M8 × 40	1
105	2.08.121	Bolt M10 × 65	1
106	1.5789.0629	Flange Bolt M6 × 29	1
107	2.04.005	Dowel Pin, Ø8 × 10	2
108	27.125100.00	Starter Motor Assembly	1
109	1.93.05	Lock Washer Ø5	2
110	1.16674.0516	Flange Bolt M5 × 16	2
111	23.125200.01	Relay, Starter	1
112	81.130010.00	Spring, Connector	1

#	Part Number	Description	Qty.
113	26.130015.24	Connector, Choke Valve Axis	1
114	26.130005.24	Support, Stepper Motor	1
115	45.132200.03	Stepper Motor	1
116	1.823.0408	Screw M4 × 8	2
117	81.132001.00	Cover, Stepper Motor	1
118	45.121000.00	Coil, Charging	1

Wiring Diagram



B	BLACK	Br	BROWN
Y	YELLOW	B/W	BLACK WHITE
L	BLUE	W/G	WHITE GREEN
G	GREEN	G/Y	GREEN YELLOW
R	RED	W/L	WHITE BLUE
W	WHITE	B/G	BLACK GREEN
C	CARNATION	O	ORANGE

TROUBLESHOOTING

Problem	Cause	Solution
Generator will not start.	No fuel.	Add fuel.
	Faulty spark plug.	Replace spark plug.
	Unit loaded during start up.	Remove load from unit.
Generator will not start; Generator starts but runs roughly.	Low oil level.	Fill crankcase to the proper level. Place generator on a flat, level surface.
	Choke in the wrong position.	Adjust choke.
	Spark plug wire loose.	Attach wire to spark plug.
Generator will not start wirelessly.	Remote control battery is dead.	Replace remote control battery.
	Generator battery is dead.	Recharge generator battery
Generator will not start electrically.	Generator battery is dead.	Recharge generator battery.
Generator shuts down during operation.	Out of fuel.	Fill fuel tank.
	Low oil level.	Fill crankcase to the proper level. Place generator on a flat, level surface.
Generator cannot supply enough power or overheating.	Generator is overloaded.	Review load and adjust. See "Connecting Electrical Loads."
	Insufficient ventilation.	Check for air restriction. Move to a well ventilated area.
No AC output.	Cable not properly connected.	Check all connections.
	Connected device is defective.	Replace defective device.
	Circuit breaker is open.	Reset circuit breaker
	Faulty brush assembly.	Replace brush assembly (Service Center).
	Faulty AVR (auto voltage regulator).	Replace AVR (Service Center).
	Loose wiring.	Inspect and tighten wiring connections.
Other.	Contact the help line.	
Generator gallops.	Engine governor defective.	Contact the help line.
Repeated circuit breaker tripping.	Overload.	Review load and adjust. See "Connecting Electrical Loads."
	Faulty cords or device.	Check for damaged, bare or frayed wires. Replace defective device.

For further technical support:

Technical Support Team
 Mon-Fri 8:30 AM-5:00 PM (PST/PDT)
 Toll Free 1-877-338-0999
support@championpowerequipment.com

WARRANTY

WARRANTY*

CHAMPION POWER EQUIPMENT
3 YEAR LIMITED WARRANTY

Warranty Qualifications

Champion Power Equipment (CPE) will register this warranty upon receipt of your Warranty Registration Card and a copy of your sales receipt from one of CPE's retail locations as proof of purchase. Please submit your warranty registration and your proof of purchase within ten (10) days of the date of purchase.

Repair/Replacement Warranty

CPE warrants to the original purchaser that the mechanical and electrical components will be free of defects in material and workmanship for a period of three years (parts and labor) from the original date of purchase and 270 days (parts and labor) for commercial and industrial use. Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.

Do Not Return The Unit To The Place Of Purchase

Contact CPE's Technical Service and CPE will troubleshoot any issue via phone or e-mail. If the problem is not corrected by this method, CPE will, at its option, authorize evaluation, repair or replacement of the defective part or component at a CPE Service Center. CPE will provide you with a case number for warranty service. Please keep it for future reference. Repairs or replacements without prior authorization, or at an unauthorized repair facility, will not be covered by this warranty.

Warranty Exclusions

This warranty does not cover the following repairs and equipment:

Normal Wear

Products with mechanical and electrical components need periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole.

Installation, Use and Maintenance

This warranty will not apply to parts and/or labor if the product is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the product's limits, modified, installed improperly or connected incorrectly to any electrical component. Normal maintenance is not covered by this warranty and is not required to be performed at a facility or by a person authorized by CPE.

Other Exclusions

This warranty excludes:

- Cosmetic defects such as paint, decals, etc.
- Wear items such as filter elements, o-rings, etc.
- Accessory parts such as starting batteries, and storage covers.
- Failures due to acts of God and other force majeure events beyond the manufacturer's control.
- Problems caused by parts that are not original Champion Power Equipment parts.

When applicable, this warranty does not apply to products used for prime power in place of a utility.

Limits of Implied Warranty and Consequential Damage

Champion Power Equipment disclaims any obligation to cover any loss of time, use of this product, freight, or any incidental or consequential claim by anyone from using this product. THIS WARRANTY AND THE ATTACHED U.S. EPA, CARB and/or ECCC EMISSION CONTROL SYSTEM WARRANTIES (WHEN APPLICABLE) ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

A unit provided as an exchange will be subject to the warranty of the original unit. The length of the warranty governing the exchanged unit will remain calculated by reference to the purchase date of the original unit.

This warranty gives you certain legal rights which may change from state to state or province to province. Your state or province may also have other rights you may be entitled to that are not listed within this warranty.

Contact Information

Address

Champion Power Equipment, Inc.
Customer Service
12039 Smith Ave.
Santa Fe Springs, CA 90670 USA
www.championpowerequipment.com

Customer Service

Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
info@championpowerequipment.com
Fax no.: 1-562-236-9429

Technical Service

Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
tech@championpowerequipment.com
24/7 Tech Support: 1-562-204-1188

*Except as otherwise stipulated in any of the following enclosed Emission Control System Warranties (when applicable) for the Emission Control System: U.S. Environment Protection Agency (EPA), California Air Resources Board (CARB) and/or Environment and Climate Change Canada (ECCC). Whichever warranty applies for the longer period, either this 3 year limited warranty or the applicable Emission Control System Warranty, shall supersede the other.

**Champion Power Equipment, Inc. (CPE),
United States Environment Protection Agency (U.S. EPA)
Emission Control System Warranty**

Your Champion Power Equipment (CPE) engine complies with U.S. EPA emission regulations.

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

The US EPA AND CPE are pleased to explain the Federal Emission Control Systems Warranty on your 2018 small off-road engine (SORE) and engine powered equipment. New engines and equipment must be designed, built and equipped, at the time of sale, to meet U.S. EPA regulations for small off-road engines (SORE). CPE warrants the emission control system on your small off-road engine (SORE) and equipment for the period of time listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your equipment.

Your emission control system may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter and fuel lines. Also included may be hoses, belts, connectors and other emission related assemblies. Where a warrantable condition exists, CPE will repair your small off-road engine (SORE) at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE:

This emission control system is warranted for two years, subject to provisions set forth below. If, during the warranty period, an emission related part on your engine is defective in materials or workmanship, the part will be repaired or replaced by CPE.

OWNER WARRANTY RESPONSIBILITIES:

As the small off-road engine (SORE) owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. CPE recommends that you retain all your receipts covering maintenance on your small off-road engine, but CPE cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine (SORE) owner, you should however be aware that CPE may deny you warranty coverage if your small, off-road engine (SORE) or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine (SORE) to an Authorized CPE service outlet or alternate service outlet as described in (3)(f.) below, CPE dealer or CPE, Santa Fe Springs, Ca. as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact:

Champion Power Equipment, Inc.
Customer Service
12039 Smith Ave.
Santa Fe Springs, CA 90670
1-877-338-0999
tech@championpowerequipment.com

EMISSION CONTROL SYSTEM WARRANTY

The following are specific provisions relative to your Emission Control System (ECS) Warranty Coverage.

1. APPLICABILITY: This warranty shall apply to 1997 and later model year small off-road engines (SORE). The ECS Warranty Period shall begin on the date the new engine or equipment is delivered to its original, end-use purchaser, and shall continue for 24 consecutive months thereafter.

2. GENERAL EMISSIONS WARRANTY COVERAGE

CPE warrants to the original, end-use purchaser of the new engine or equipment and to each subsequent purchaser that each of its small off-road engines (SORE) is:

- a. Designed, built and equipped so as to conform to U.S. EPA emissions standards for spark-ignited engines at or below 19 kilowatts.
- b. Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to the part as described in the engine manufacturer's application for certification for a period of two years.

3. THE WARRANTY ON EMISSION-RELATED PARTS WILL BE INTERPRETED AS FOLLOWS:

a. Any warranted part that is not scheduled for replacement as required maintenance in the Owners Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by CPE according to Subsection "d" below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period.

b. Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Owners Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.

c. Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by CPE according to Subsection "d" below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part.

d. Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a CPE Authorized Service Outlet.

e. The owner shall not be charged for diagnostic labor which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a CPE Authorized Service Outlet.

f. CPE shall pay for covered emissions warranty repairs at non-authorized service outlets under the following circumstances:

i. The service is required in a population center with a population over 100,000 according to U.S. Census 2000 without a CPE Authorized Service Outlet AND

ii. The service is required more than 100 miles from a CPE Authorized Service Outlet. The 100 mile limitation does not apply in the following states: Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nebraska, Nevada, New Mexico, Oregon, Texas, Utah and Wyoming.

g. CPE shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the ECS Warranty.

h. Throughout the ECS Warranty Period, CPE shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts.

i. Any CPE Authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce CPE's warranty obligation.

j. Unapproved add-on or modified parts may not be used to modify or repair a CPE engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. CPE shall not be liable hereunder for failures of any warranted parts of a CPE engine caused by the use of such an unapproved add-on or modified part.

EMISSION-RELATED PARTS INCLUDE THE FOLLOWING: (using those portions of the list applicable to the engine)

Systems covered by this warranty	Parts Description
Fuel Metering System	Fuel regulator, Carburetor and internal parts
Air Induction System	Air cleaner, Intake manifold
Ignition System	Spark plug and parts, Magneto ignition system
Exhaust System	Exhaust manifold, catalytic converter
Miscellaneous Parts	Tubing, Fittings, Seals, Gaskets, and Clamps associated with these listed systems.
Evaporative Emissions	Fuel Tank, Fuel Cap, Fuel Line, Fuel Line Fittings, Clamps, Pressure Relief Valves, Control Valves, Control Solenoids, Electronic Controls, Vacuum Control Diaphragms, Control Cables, Control Linkages, Purge Valves, Vapor Hoses, Liquid/Vapor Separator, Carbon Canister, Canister Mounting Brackets, Carburetor Purge Port Connector

TO OBTAIN WARRANTY SERVICE:

You must take your CPE engine or the product on which it is installed, along with your warranty registration card or other proof of original purchase date, at your expense, to any Champion Power Equipment dealer who is authorized by Champion Power Equipment, Inc. to sell and service that CPE product during his normal business hours. Alternate service locations defined in Section (3)(f.) above must be approved by CPE prior to service. Claims for repair or adjustment found to be caused solely by defects in material or workmanship will not be denied because the engine was not properly maintained and used.

If you have any questions regarding your warranty rights and responsibilities, or to obtain warranty service, please write or call Customer Service at Champion Power Equipment, Inc.

**Champion Power Equipment, Inc.
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