



OPERATOR'S MANUAL

MODEL #100544

7500W DUAL FUEL GENERATOR
WITH BLUETOOTH® TECHNOLOGY

Patent Pending



REGISTER YOUR PRODUCT ONLINE

at championpowerequipment.com



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
100544
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 indicates information considered important, but not hazard-related (e.g., messages relating to property damage).

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, poisonous 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 AND POINT EXHAUST AWAY.

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.

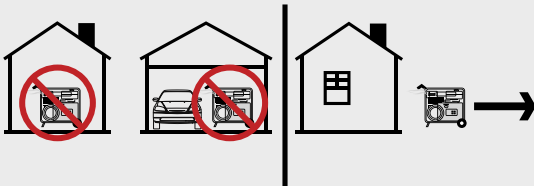
DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings.

⚠ 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.

⚠ WARNING

Although the generator contains a spark arrester, maintain a minimum distance of 5 ft. (1.5m) from dry vegetation to prevent fires.

⚠ DANGER

Operate equipment with guards in place.

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.

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

⚠ WARNING

Do not use generator for 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.

⚠ DANGER

Generator produces powerful voltage.

DO NOT touch bare wires or receptacles.

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

Spark from removed spark plug wire 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 or any other metal object.

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.

DO NOT tamper with the governed speed.

DO NOT modify the generator in any way.

⚠ CAUTION

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.

⚠ CAUTION

Improper treatment or use of the generator can damage it, shorten its life or void the 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

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.

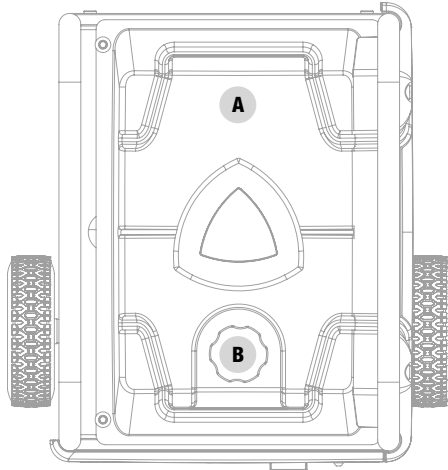
⚠ WARNING

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

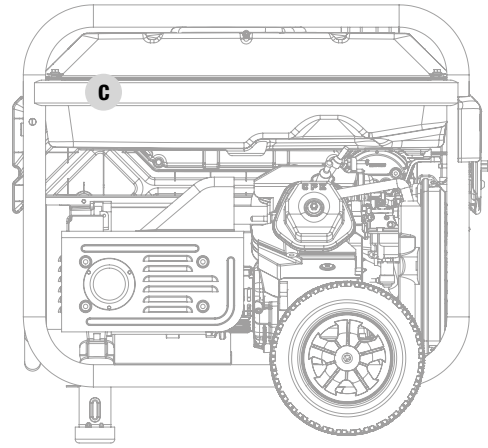
Safety Labels

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.



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







Safety 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
	<p>Read Operator's Manual. To reduce the risk of injury, user must read and understand operator's manual before using this product.</p>
	<p>Clearance. Keep all objects at least 5 feet from this machine. Heat from the muffler and exhaust gas can ignite combustible objects.</p>
	<p>Ground. Consult with local electrician to determine grounding requirements before operation.</p>
	<p>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.</p>
	<p>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.</p>
	<p>Hot Surface. To reduce the risk of injury or damage, avoid contact with any hot surface.</p>
	<p>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.</p>
	<p>Wet Conditions Alert. Do not expose to rain or use in damp locations.</p>

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
	Engine ON
	Stop
	Fuel Selection: Propane
	Fuel Selection: Gasoline
	Smart Charger
	Locking Receptacle

SYMBOL	MEANING
	Circuit Breaker Reset: Push
	Bluetooth® Connection
	Propane Fuel Source. Turn off fuel source when generator is not in use.
	Propane Tank Inlet
	Ground Terminal

Quickstart Label 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.



Starting the Engine

⚠ DANGER

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

1. Check oil level. Recommended oil is 10W-30.
2. Select Fuel
 - 2a. Check gasoline level. Turn the fuel selector dial to "GASOLINE" or,
 - 2b. Connect propane tank. Open the fuel valve on the propane tank. Turn the fuel selector dial to "PROPANE."
3. Press the START/STOP button twice.
4. Plug in desired device.

Stopping the Engine

1. Turn off and unplug all electrical loads.
2. Press the START/STOP button.
3. If operation on LPG (propane), close the valve on the tank.
4. Turn the fuel selector dial to "OFF."

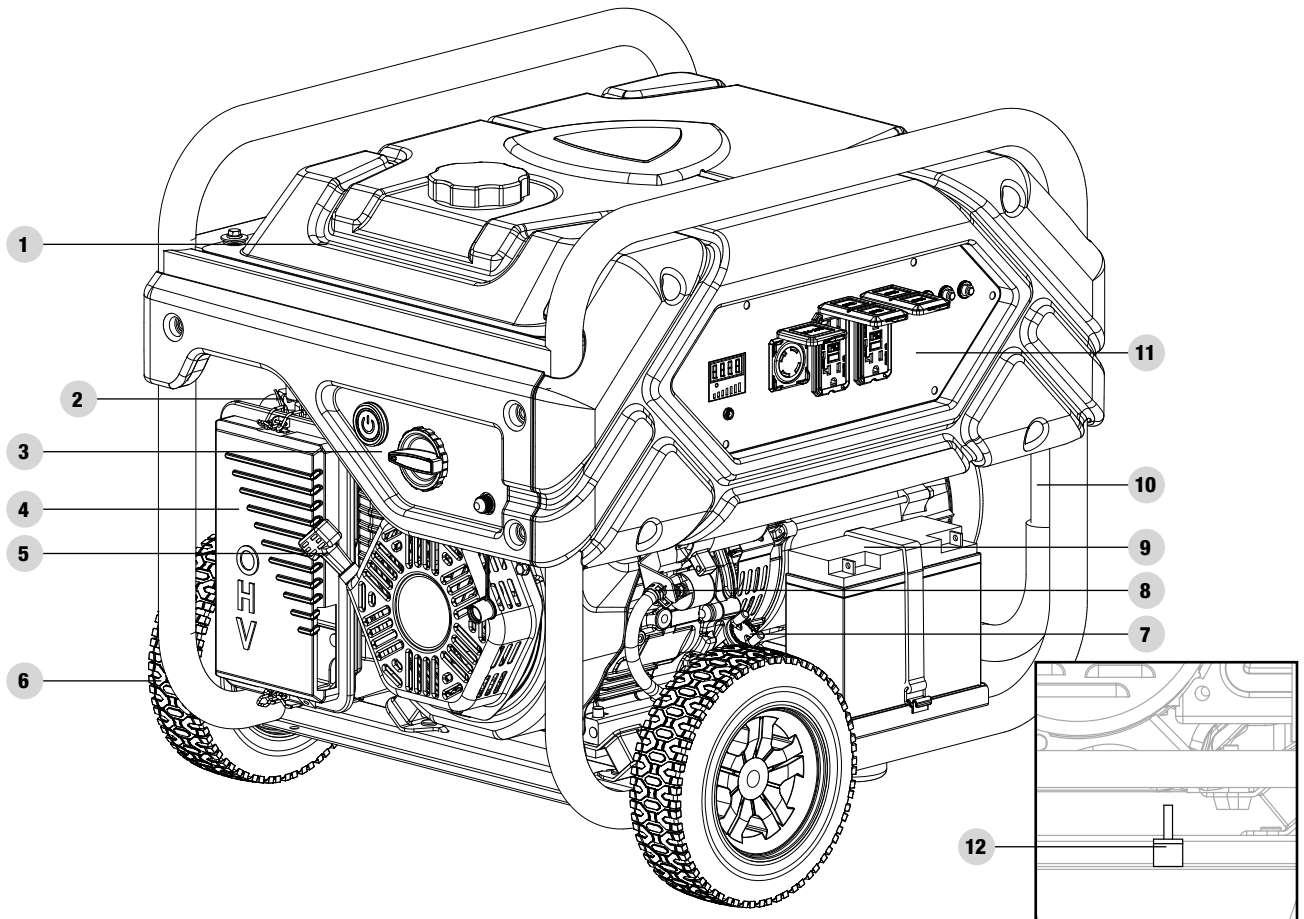
iLINK Starting Instructions

See "Operation" section for correct steps on starting with the iLINK app.

CONTROLS AND FEATURES

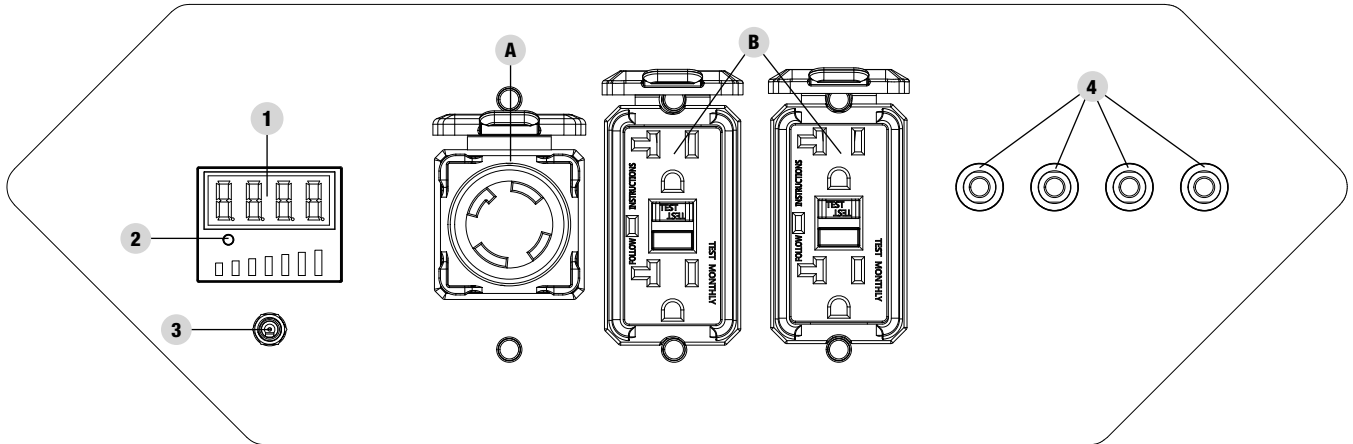
Read this operator's manual before operating your generator. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.

Generator

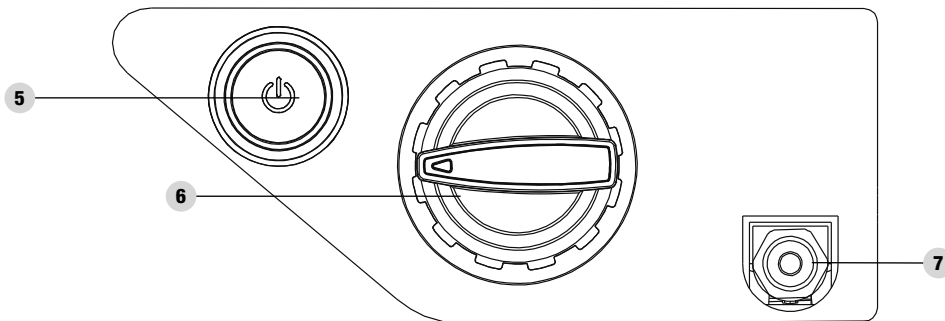


1. **Gasoline Tank** – 8.5 gal. (32 L)
2. **Auto-Choke** – Used to start the engine (for wireless and electric start only).
3. **Side Panel** – See “Side Panel” section.
4. **Air Filter** – Protects the engine by filtering dust and debris from the intake air.
5. **Recoil Starter** – Used to manually start the engine.
6. **Never Flat Wheels** – 9.5 in. (24.1 cm)
7. **Oil Fill Cap/Dipstick** – Used to check and fill oil level.
8. **Quick Drain Tube** – Used to quickly drain engine oil.
9. **Battery** – Provides 12V DC power the starting system.
10. **Folding Handle** – Used to move the unit.
11. **Control Panel** – See “Control Panel” section.
12. **Ground Terminal** – Consult an electrician for local grounding regulations.

Control Panel



Side Panel



1. **Intelligauge with Power and Fuel Life Meter** – Seven mode digital meter for displaying run time, total run time, voltage, hertz, wattage output, fuel level and fuel life.
2. **Bluetooth® Connection Status LED** – This LED will light up and stay on during any active bluetooth connection with a smart device.
3. **12V DC Smart Charger Plug**
4. **Circuit Breakers (Push Reset)** – Protects the generator against electrical overloads.
5. **Start-Stop Push Button / iLINK Broadcast Indicator**
6. **Fuel Selection Dial** – Used to select and turn on gasoline or propane (LPG) fuel source.
7. **LPG Connection**

RECEPTACLES		
A		120/240V AC, 30A Locking (NEMA L14-30R) May be used to supply electrical power for operation of 120/240 Volt AC, 30 Amp, single phase, 60 Hz electrical loads.
B		(4x) 120V AC, 20A (GFCI 5-20R) May be used to supply electrical power for operation of 120 Volt AC, 20 Amp, single phase, 60 Hz electrical loads.

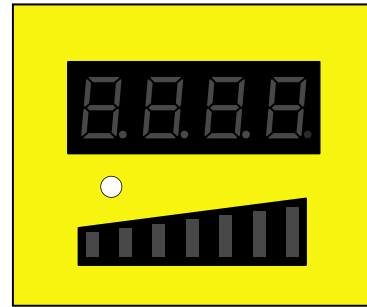
Intelligauge with Power and Fuel Life meter

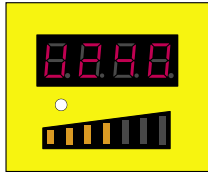
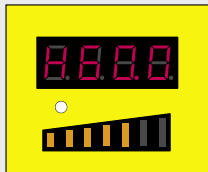
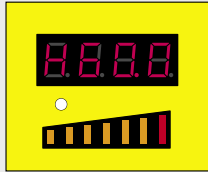
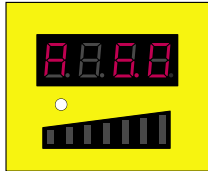
Seven mode digital meter for displaying run time, total run time, voltage, hertz, wattage output, fuel level and fuel life.

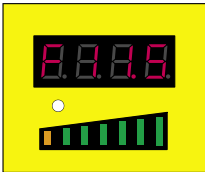
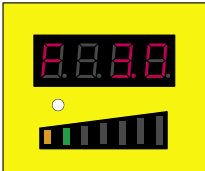
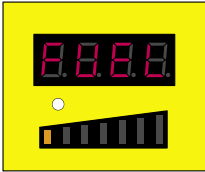
The meter is divided into two separate displays.

The top LCD displays each mode for several seconds and then automatically cycles through.

The bottom LED displays output in percent (%) and fuel level.



MODE	DESCRIPTION	
Voltage (V)	Output voltage of the generator.	
	Example: 240 volts, 50% output	
Frequency (H)	Output frequency in hertz.	
	Example: 60.0 hertz , 75% output	
Run Time (R)	Run time of the generator for the current session	
	Example: 6 hours, no output	
Total Run Time	Total run time of the generator since first operation	
	Example: 16 hours, 25% output	
Output	<p>The output power will be displayed at all times on the bottom except when the remaining fuel run time is shown on the LCD above at which the remaining fuel level is displayed on the LED.</p> <p>The output power shown based on the electrical load connected to the generator. As the output increases, more LED lights are shown until the generator is overloaded at which time a red LED light will appear.</p>	

MODE	DESCRIPTION	
Fuel life (F)	The time in hours the generator will run based on the current output and the remaining fuel level.	
Fuel Level	Shows the fuel level remaining in the tank.	
	Example: 11.5 hours fuel life, 100% fuel level	 <p>The control panel features a red LED display showing '11.5' and a fuel level indicator with all seven bars lit green.</p>
	Example: 3.0 hours fuel life, 25% fuel level	 <p>The control panel features a red LED display showing '3.0' and a fuel level indicator with the first two bars lit green and the remaining five bars lit grey.</p>
As the fuel decreases, fewer lights are shown until there is approximately 10% fuel remaining at which time the top display will flash FUEL. This indicates that the fuel tank needs to be refilled shortly or will run out.	 <p>The control panel features a red LED display showing '0.0' and a fuel level indicator with only the first bar lit green. The top display is flashing 'FUEL'.</p>	

Bluetooth® License Statement

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Champion Power Equipment is under license. Other trademarks and trade names are those of their respective owners.

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:

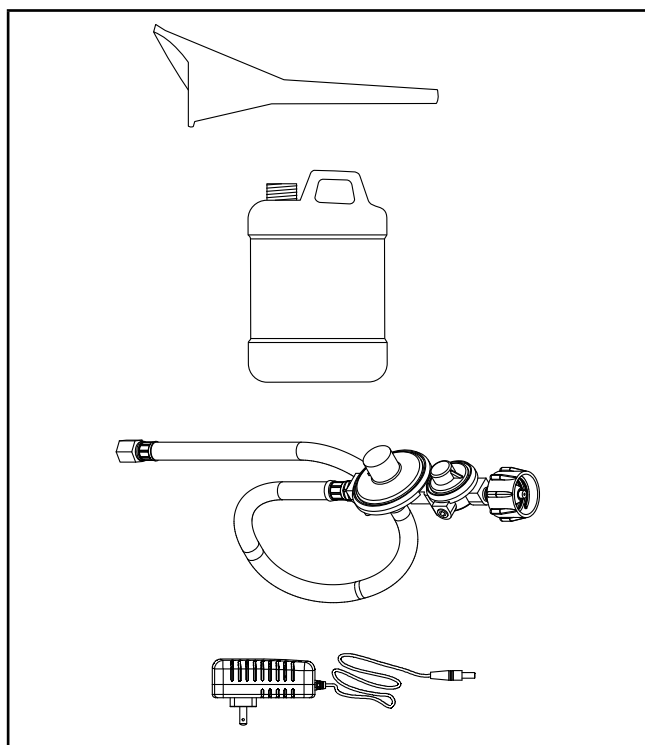
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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

Parts Included

Accessories

Oil Funnel.....	1
Engine Oil.....	1.2 qt. (1.1 L)
3.3 ft. (1 m) LPG Hose with Regulator.....	1
Smart Charger.....	1



Assembly Parts

Wheels	
9.5 in. (24.1 cm) Never Flat Wheel (A)	2
Roll Pin (B).....	2
Large R-clip (C)	2
Engine Vibration Mounts	
Support Leg with Vibration Mounts (D).....	1
Flange Bolt (M8×16) (E).....	2
Flange Lock Nut (M8) (F)	2
Battery Bolts	
Flange Bolt (M5×10) (G)	2
Flange Lock Nut (M5) (H).....	2

ASSEMBLY

Your generator requires some assembly. 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

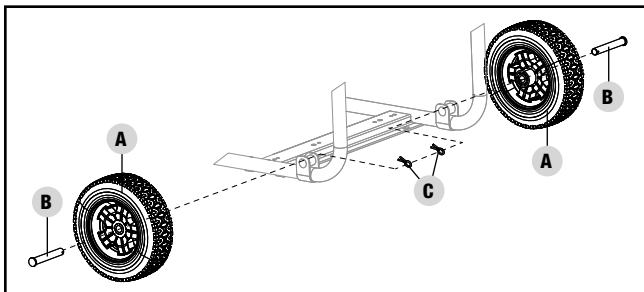
1. Set the shipping carton on a solid, flat surface.
2. Remove everything from the carton except the generator.
3. Carefully cut each corner of the box from top to bottom. Fold each side flat on the ground to provide a surface area to work with the generator.

Install the Wheel Kit

⚠ CAUTION

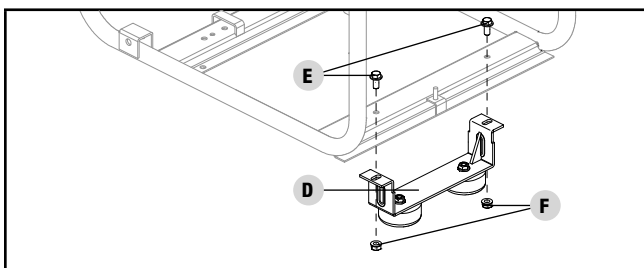
The wheel kit is not intended for over-the-road use.

1. Before adding fuel and oil, tip the generator on its end.
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.



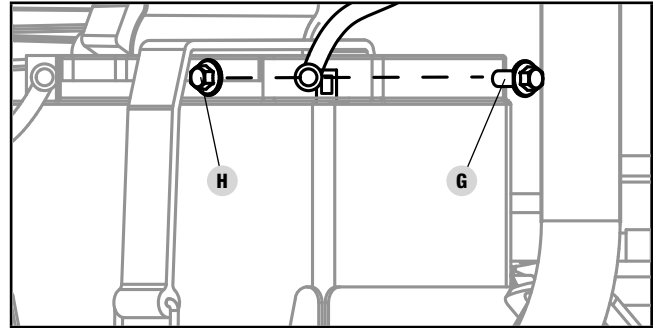
Install the Support Leg

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.



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 (G) and secure with the Flange Lock Nut (H).
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

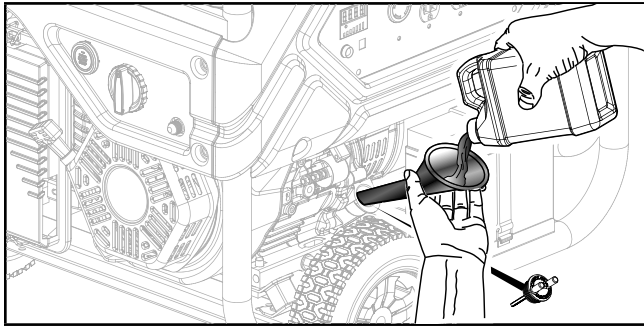
The generator rotor has a sealed, pre-lubricated ball bearing that requires no additional lubrication for the life of the bearing.

🗨 NOTICE

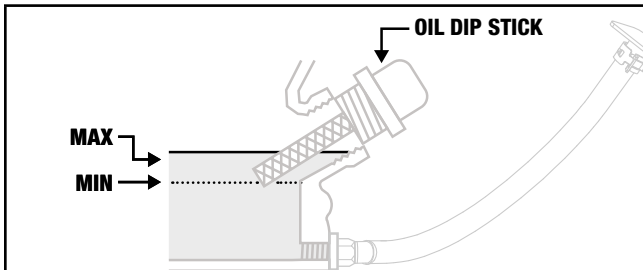
The recommended oil type is **10W-30 automotive oil**.

Recommended Oil Type							
5W-30	10W-30						
5W-30 Synthetic	10W-40						
°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							

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 1.2 qt. (1.1 L) of oil (included) and replace oil fill cap/dipstick. DO NOT OVERFILL.



4. Check engine oil level before using 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

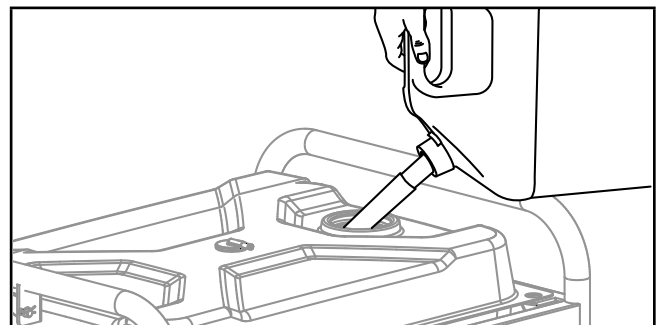
Weather will affect engine oil and engine performance. Change the type of engine oil used based on weather conditions to suit the engine needs.

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 <math><5^{\circ}\text{C}</math> (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. Tank is full when gasoline reaches red circle on screen. 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 red circle on gasoline screen.

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.

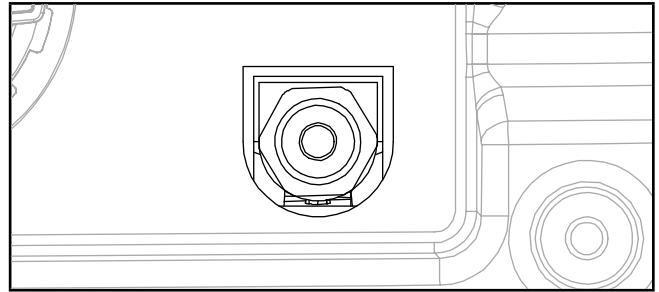
⚠ WARNING

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.

**🗨 NOTICE**

- Use only standard 20 or 30 pound capacity LPG cylinders with type 1, right hand Acme threads.
- Verify the requalification date on the cylinder has not expired.
- All new cylinders must be purged of air and moisture prior to filling. Used cylinders that have not been plugged or kept closed must also be purged.
- The purging process should be done by an LPG supplier. (cylinders from an exchange supplier should have been purged and filled properly already).
- Always position the cylinder so the connection between the cylinder valve and generator inlet won't cause sharp bends or kinks in the LPG hose.

Add Fuel: Propane (LPG)

Connecting an LPG cylinder

1. Make sure the fuel selection dial on the generator is in the "OFF" position.
2. Attach the LPG hose (included) to the LPG inlet on the generator and tighten with a 19 mm or adjustable wrench. **DO NOT OVER-TIGHTEN.** Important: **DO NOT** use thread seal tape or any other type of sealant to seal LPG hose connection.
3. Remove the safety plug or cap from the cylinder valve.
4. Attach the other end of the hose to the LPG connector on the cylinder and hand tighten.
5. Check all connections for leaks by wetting the fittings with a solution of soap and water. Bubbles which appear or bubbles which grow indicate that a leak exists. If a leak exists at a fitting then turn off the valve on the cylinder and tighten the fitting. Turn the valve back on and recheck the fitting with the soap and water solution. If the leak continues or if the leak is not at a fitting then do not use the generator and contact customer service.

⚠ CAUTION

Do not allow children to tamper or play with the LPG cylinder or hose connections.

⚠ CAUTION

Use approved LPG cylinders equipped with an OPD (overfilling prevention device) valve. Always keep the cylinder in a vertical position with the valve on top and installed at ground level on a flat surface. Cylinders must not be installed near any heat source and should not be exposed to sun, rain, and dust. When transporting and storing, turn off the cylinder valve and generator LPG valve, and disconnect the cylinder. Plug the outlet, usually by a plastic protective cap, if one is available. Keep cylinders away from heat and ventilated when in a vehicle.

⚠ WARNING

If there is a strong smell of LPG: Close valve on the cylinder. Check all connections for leaks by wetting the fittings with a solution of soap and water. Bubbles which appear or bubbles which grow indicate that a leak exists. Do not smoke or light a cigarette, or check for leaks using a match, open flame source or lighter. Contact a qualified technician to inspect and repair an LPG system if a leak is found, before using the generator.

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 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 in your home 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

- Neutral circuit **IS NOT** electrically connected to the frame/ground of the generator.
- 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

- Neutral circuit **IS** electrically connected to the frame/ground of the generator.
- 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

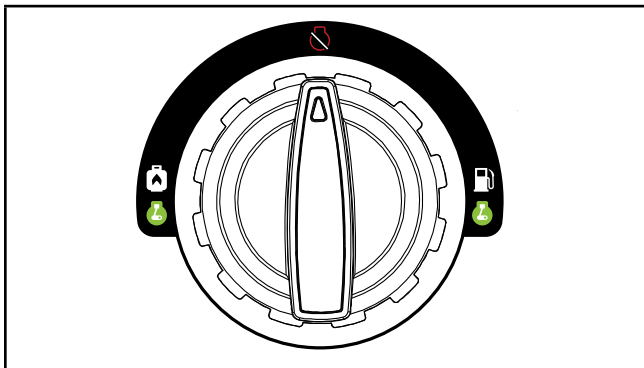
Electronic devices, including computers and many programmable appliances use components that are designed to operate within a narrow voltage range and may be affected by momentary voltage fluctuations. While there is no way to prevent voltage fluctuations, you can take steps to protect sensitive electronic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

Fuel Selector Dial

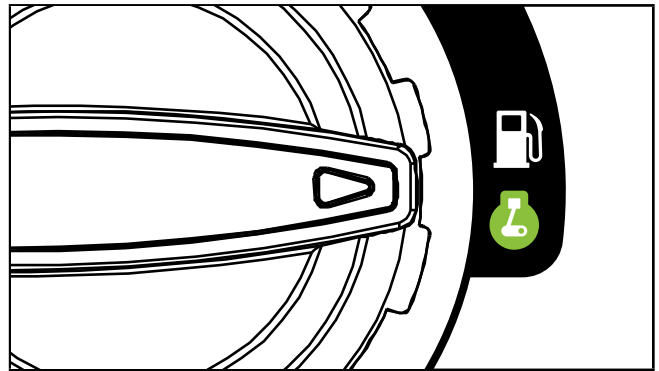
The fuel selector dial on the side panel of the generator is designed specifically to choose between the fuel source desired, Gasoline or Propane (LPG).

To select a fuel source simply rotate the dial to either the right or left to the desired fuel.



Starting the Engine: Gasoline

1. Refer to Generator Location section before attempting to start generator.
2. Make certain the generator is filled with gasoline and oil. See Assembly section.
3. Make certain the generator is on a level surface.
4. On the left side operator panel, rotate the fuel selector dial to GASOLINE.



iLINK™ App Start (see iLINK™ Wireless App section (pg 24) for details on set-up and first use)


1. Press the START/STOP button once. The button will flash amber.
2. Start app on smart device and follow instructions.
3. Press START on app screen. The generator will attempt to start. There will be up to (6) starting attempts.


A safety feature is provided which delays the electrical power available to the receptacles during start up for approximately 15 seconds. The receptacles are “live” when the Intelligauge starts displaying values. The delay is provided to prevent damage to the generator if electrical loads are inadvertently turned on during start up.

Electric Start

1. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in and turned ON.
2. Press the START/STOP button once. The button will flash amber but the generator will not attempt to start.
3. Press the START/STOP button a second time. The button will now flash green and the generator will attempt to start. There will be up to (6) starting attempts. After generator starts, the button will turn solid green.

Manual Start

1. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in and turned ON.
2. Move choke lever to the full “CHOKE” position . If restarting warm engine, move the choke lever to 75% of full choke position.
3. Pull the starter cord slowly until resistance is felt and then pull rapidly. Several pulls may be required.

- Once engine starts, move choke lever to the "RUN" position .

NOTICE

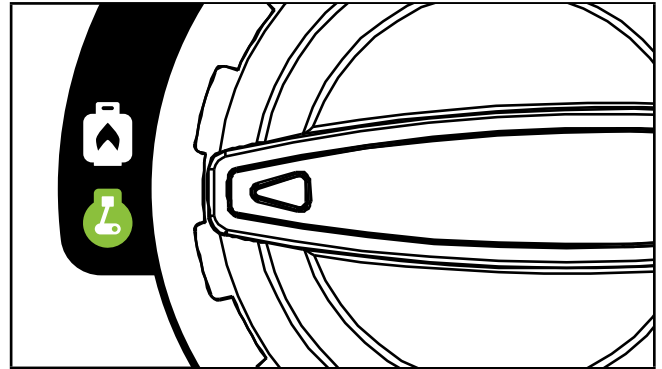
Keep choke in "CHOKE" position for only 1 pull of the recoil starter. After first pull, move choke to the "RUN" position for up to the next 3 pulls of the recoil starter. Too much choke leads to spark plug fouling/engine flooding due to the lack of incoming air. This will cause the engine not to start.

NOTICE

For gasoline restarts with hot engine in hot ambient $> 30^{\circ}\text{C}$ (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 $< 15^{\circ}\text{C}$ (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.





iLINK™ App Start (see iLINK™ Wireless App section (pg 24) for details on set-up and first use)

- Press the START/STOP button once. The button will flash amber.
- Start app on smart device and follow instructions.
- Press START on app screen. The generator will attempt to start. There will be (4) starting attempts.

Electric Start

- Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in and turned ON.
- Press the START/STOP button once. The button will flash amber but the generator will not attempt to start.
- Press the START/STOP button a second time. The button will now flash green and the generator will attempt to start. There will be up to (4) starting attempts. After generator starts, the button will turn solid green.

Manual Start

- Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in and turned ON.
- Move choke lever to the "CHOKE" position  if starting cold or warm engine.
- Pull the starter cord slowly until resistance is felt and then pull rapidly. Several pulls may be required.
- Once engine starts, move choke lever to the "RUN" position .

NOTICE

Manual start on LPG will only work if there is gasoline in the carburetor.

Starting the Engine: Propane (LPG)

- Refer to Generator Location section before attempting to start generator.
- Make certain the generator is filled with oil. See Assembly section.
- Make certain the generator is on a level surface.
- Connect LPG cylinder. See page 18 – Add Fuel: Propane (LPG)
- Fully open fuel valve on propane cylinder.
- On the side operator panel, rotate the fuel selector dial to PROPANE.

NOTICE

For LPG starting in cold ambient < 15°C (59°F) move the choke lever to "CHOKE" for recoil start. To PULL-TO-PRIME for recoil start, pull with choke in the "CHOKE" position 1-3 times until you feel a few combustion pulses that indicates that the engine momentarily started.

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 or maintained with a smart charger (included).

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.

NOTICE

For propane (LPG) compatible models only: Accumulation of frost on LPG cylinder and regulators is common during operation and normally is not an indication of a problem. As LPG vaporizes and travels from the cylinder to the generator engine it expands. The amount of frost that forms can be affected by the size of the cylinder, the amount of LPG being used, the humidity of the air and other operating conditions.

In unusual situations this frost may eventually restrict the flow of LPG to the generator resulting in deteriorating performance. For example, if the cylinder temperature is reduced to a very low level then the rate at which the LPG vaporizes is also reduced and may not provide sufficient flow to the engine. This is not an indication of a problem with the generator but only a problem with the flow of LPG from the cylinder. If generator performance seems to be deteriorating at the same time that ice formation is observed on tank valve, hose or regulator then some actions may be taken to eliminate this symptom.

In these rare situations it can be helpful to reduce or eliminate the cold fuel system effects by doing one of the following:

- Exchanging fuel cylinders to allow the first cylinder to warm up, repeating as necessary.
- Placing the cylinder at the end of the generator near the handle, where engine fan air flows out from the generator. This air is slightly heated by flowing over the engine. The cylinder should not be placed in the path of the muffler outlet.
- The cylinder can be temporarily warmed by pouring warm water over the top of the cylinder.

GFCI

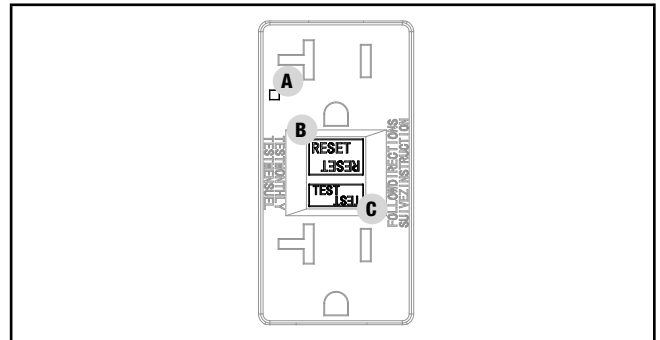
Your generator is equipped with ground fault circuit interrupter (GFCI) receptacles. In the event of a ground fault, a GFCI trips automatically to stop the flow of electricity and prevent serious injury. The green indicator light (A) on the receptacle will also turn off. Press the “RESET” (B) button located on the front of the receptacle to restore flow of electricity. The indicator light will also turn back on. GFCI does not protect against circuit overloads.

To ensure proper operation of the GFCI duplex, perform this test monthly:

1. With the generator running, plug a lamp into the GFCI receptacle. Turn the lamp on.
2. Press the “TEST” (C) button located on the front of the receptacle to trip the device. This should immediately stop the flow of electricity and shut off the lamp. If the

electricity is not stopped, do not use this receptacle until it has been serviced or replaced.

3. Press the “RESET” button located on the front of the receptacle to restore the flow of electricity. If the indicator light does not come back on or if the GFCI cannot be reset then it must be replaced.

**Smart Charger**

The smart charger (included) is a device that is used to charge the generator battery when the generator is turned off. An internal charger charges the battery while the generator is running. The smart charger plugs into the generator, into the DC input on the front panel, and then into a household outlet power source. There is a light on the charger. If the battery is in need of a charge or charging then the red light will light up. If the battery is good and not in need of charging or has completed charging then the green light will light up. The smart charger is programmed not to charge or to stop charging when the light is green. This is a safety feature that will help prevent damage to the battery.

Stopping the Engine**iLink**

If you choose to stop your generator using iLINK, the Bluetooth® module will remain active/ready for up to 12 hours, depending on generator battery level.

1. **Stopping for short periods less than 12 hours:**
 2. Press STOP button on the “Dashboard”.
 - 2a. Bluetooth will remain on for 12 hours and generator will remain in standby mode with the amber power button light blinking. You may choose to restart your generator using iLINK at any time during this 12 hour period.
3. **Stopping for long period greater than 12 hours:**
 - 3a. Turn off and unplug all electrical loads.
 - 3b. Let the generator run at no-load for several minutes.
 - 3c. Turn the fuel select dial to the “OFF” position. If running on propane (LPG), shut off propane at the source.

Manual

1. Turn off and unplug all electrical loads. Never start or stop the generator with electrical devices plugged in or turned on (not required for wireless stopping.)
2. Let the generator run at no-load for several minutes to stabilize internal temperatures of the engine and generator.
3. Turn the fuel select dial to the "OFF" position. Close the propane (LPG) cylinder valve if operating by LPG.

Important: Always ensure that the fuel select dial 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.

NOTICE

No change is required if only using LPG.

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
P28-10-Z	47.131017.21.01.Z	5500 ft. (7000 m)
P28-10-H	47.131017.21.01.H	
P28-10-Y	47.131017.21.01.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.

iLINK™ Wireless App

This generator is equipped with Bluetooth® wireless technology that can be used to enable the generator through the Champion iLINK™ wireless app. Download the Champion iLINK™ app to your Android or iOS device and follow the instructions to set up the generator.

The iLINK™ app allows the user to start, stop, and monitor the generator through a smart device but is not required for normal operation.



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Downloading Champion iLINK App

1. Download the Champion iLINK™ app from either Google Play or App Store.



2. When you launch the app the first time, you will be brought through a tour focusing on connecting, your dashboard, notifications, and how to reach support for any questions.
3. For any subsequent steps, make sure your Bluetooth signal is switched on in your smart device.

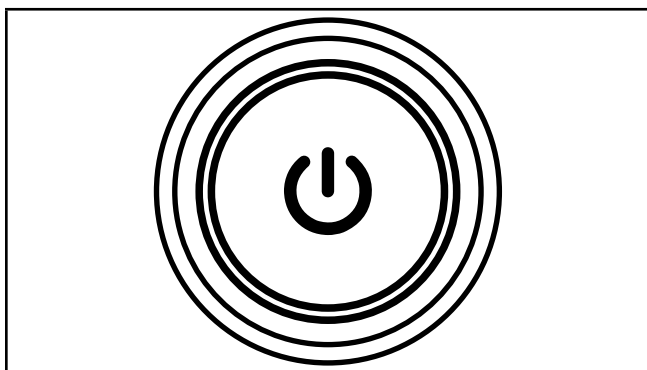
Connecting To Your Generator

1. Make sure the fuel selector dial is either in the Gasoline or Propane (LPG) mode position.

NOTICE

If the fuel selector dial is off (vertical position), and you choose to press the START/STOP button one time, it will only flash amber 3 times, then turn off. Please make sure you have chosen the proper fuel source.

2. Press the START/STOP button once on the side panel of the generator




3. The button will flash amber. If START/STOP button is not pressed, no generators will be found via Bluetooth®.
4. **First Time Connecting/Pairing The Generator**
 - 4a. From the “My Generators” screen, click the generator labeled “Champion XXXXXXXX” and the app will attempt to connect.
 - 4b. Once connected, a blue LED on the outlet panel beneath the Intelligauge will light up and stay lit. This indicates you are connected to the generator.
 - 4c. Once the app successfully connects to the generator it will ask for the default PIN code, enter 0001.

NOTICE


It is highly recommended that you change the default PIN code to avoid any unwanted or malicious connections to your generator.

5. Connecting To A Previously Paired Generator

- 5a. From the “My Generators” screen, click the show generator and the app will attempt to connect.
- 5b. Once connected, a blue LED on the outlet panel beneath the Intelligauge will light up and stay lit. This indicates you are connected to the generator.
- 5c. Once the app successfully connects to the generator it will ask for your PIN code.

6. After entering the PIN code you will be brought to your generator’s “Dashboard”.
7. If you ever need to come back to the “My Generators” screen or to view/add additional generators, press the home  icon.

Dashboard

1. With iLINK you are able to start, stop and monitor your generator from the “Dashboard” screen.
2. Monitoring includes:
 - 2a. Output (%) - displays the generator wattage output in percent.
 - 2b. Fuel Life (Hours) – displays the time remaining until the gasoline tank is empty based on current load and amount of fuel in the gasoline tank. This will not display if operating on propane (LPG).
 - 2c. Fuel Level (%) - displays fuel amount in percent in the gasoline tank. If operating in LPG mode, this will maintain only the level of the gasoline in the tank.
 - 2d. Oil Life (Hours) – hours until recommended oil change.
 - 2e. Spark Plug Life (Hours) - hours until recommended spark plug change.
 - 2f. Air Filter Life (Hours) - hours until recommended air filter change.
3. From any screen, you have access to notifications, settings, product support, or a way to call or email customer service.
4. From the Menu  icon, you are able to disconnect from your generator, change the name of your generator, upload a profile photo of your generator, or change your PIN code.

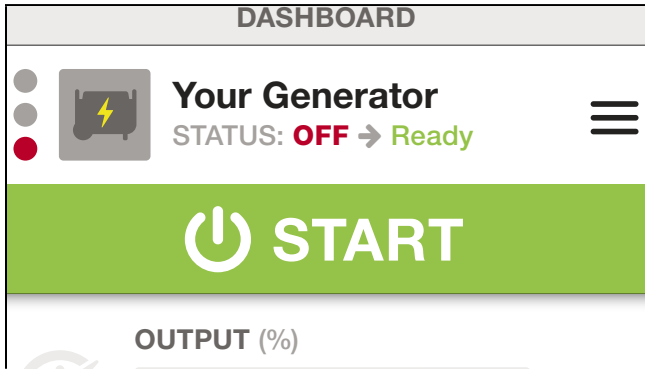
Starting Your Generator With iLINK

1. Make sure the fuel selector dial is either in the Gasoline or Propane (LPG) mode position.

NOTICE

If the fuel selector dial is off (vertical position), and you choose to press the START/STOP button one time, it will only flash amber 3 times, then turn off. Please make sure you have chosen the proper fuel source.

2. Press the START/STOP button once on the side panel. The button will flash amber.
3. Open the iLINK app on your smart device and connect to your generator. See “First Time Connecting/Pairing The Generator” section if this is your first time.
4. Press START button on the “Dashboard”.



5. Confirm that your generator is outside and is situated appropriately adhering to all safety conditions found within the Operator’s manual. Click “Continue”.

⚠ DANGER

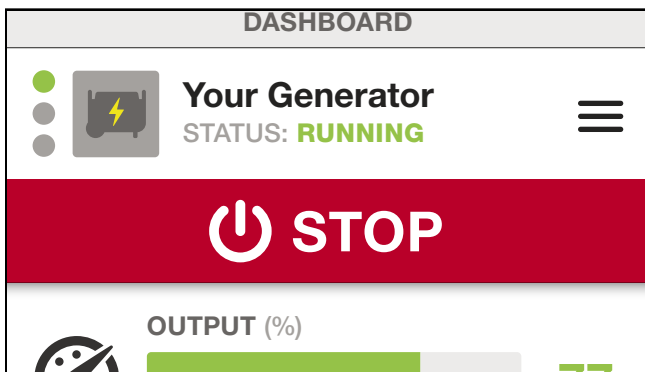
Using a generator indoors **CAN KILL YOU IN MINUTES**. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.

6. The generator will attempt to start up to six (6) times in gasoline mode or (4) times in LPG mode. If the generator fails to start, please refer to the Troubleshooting Guide in this operator’s manual.

Stopping your Generator With iLINK

If you choose to stop your generator using iLINK, the Bluetooth® module will remain active/ready for up to 12 hours, depending on generator battery level.

1. **Stopping for short periods less than 12 hours:**
2. Press STOP button on the “Dashboard”.



- 2a. Bluetooth will remain on for 12 hours and generator will remain in standby mode with the amber power button light blinking. You may choose to restart your generator using iLINK at any time during this 12 hour period.
3. **Stopping for long period greater than 12 hours:**
 - 3a. Turn off and unplug all electrical loads.
 - 3b. Let the generator run at no-load for several minutes.

- 3c. Turn the fuel select dial to the “OFF” position. If running on propane (LPG), shut off propane at the source.

Disconnecting From Your Generator

1. From the “Dashboard” screen click the Menu icon.
2. Click “Disconnect”.

NOTICE

Disconnecting the app from your generator while it is running will not cause the generator to stop.

⚠ WARNING

Please disconnect the app from the generator when the generator is not in use.

iLINK Wireless App FAQ

These FAQs relate to the functionality of the iLINK app and how it relates to the generator. There may be other trouble resolution found in the troubleshooting section of this manual.

What is iLINK?

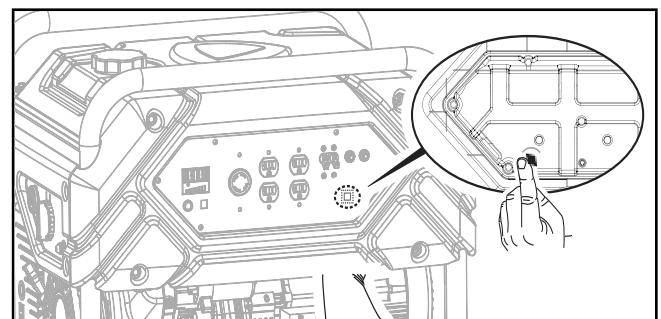
- The iLINK app allows the user to start, stop, and monitor their portable generator through a smart device.

Does iLINK cost anything to use?


- No, iLINK is free to download and use. It is not required for use with your generator. You will be able to physically (manually or electrically) start and stop your generator as normal.

iLINK will not connect to my generator or “Generator Connection Failed.”

- Out of the box, the generator has a default name of “Champion Generator#”. See iLINK “Opening The iLINK App” and “Connecting To Your Generator” sections. If you are still unable to connect, press the button behind the operator panel and hold for 7 seconds.




My generator will not start

- First, press the home  icon, and make sure you have a Bluetooth® connection established with your generator. Second, tap on the name of your generator and enter your PIN code. If connection is successful you will be taken to the “Dashboard” screen. You should see “Off>Ready” above the green “START” button in the app. Once you’ve confirmed connection is properly established but the generator fails to start, the issue is usually no fuel, low oil level, or loose spark plug wire. Check troubleshooting section for other causes.

My generator will not shut down or Generator Stop Failed notification

- If you are unable to stop the generator via iLINK, turn the fuel select dial to the “OFF” position. If running on propane (LPG), shut off the propane at the source.

How do I change my PIN code?

- From the “Dashboard” screen click the Menu  icon. Choose the “Change Pin Code” option. You will then be asked to enter and confirm a new PIN code.

What happens if I forget my PIN code?

- In the app, press “Forgot PIN” and then press and hold the red button behind the outlet panel on the generator for 7 seconds, this will send a notification back to iLINK with instruction to reset your PIN code.

Notifications

- iLINK will notify you of several events/issues as it relates to connection status, overload, overvoltage, low fuel (for gasoline only), low oil, low frequency, etc. There are two kinds of notifications: “Action Required” and “General Notices”. You turn on/off push notifications for either type under “Settings”.

Can I connect more than 1 device to my generator? (e.g. husband and wife phones)

- You are able to connect multiple smart devices to the generator. Each device can connect independently but not simultaneously. Disconnect one device before connecting another to the generator. The generator name, photo, and PIN code remains the same on each device.

Can I have more than one generator paired to my iLINK app?

- Certainly, you may pair as many as (20) Champion model 100544 generators, depending on your smart device memory.

Will iLINK automatically disconnect from the generator if my device is out of range?

- Yes, outdoors, in an open field, you can get a range of up to ~40M or ~125 ft from the front of the generator. Indoors, obstacles like concrete walls will attenuate the radio signal and the effective range will be reduced. In either case, if you cannot get a signal from the generator, move closer.

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

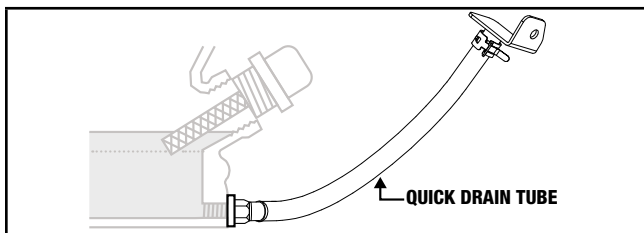
Change oil when the engine is warm. Refer to the oil specification to select the proper grade for your operating environment.

1. Remove oil fill cap/dipstick.
2. Use pliers to slide the spring clamp down the oil drain hose and pull the hose off the plug bracket.
3. Point the hose into a drain pan and allow the oil to drain completely.

NOTICE

The hose end must be lower than the engine base to allow the oil to drain.

4. Replace oil drain hose onto plug bracket and slide spring clamp back into position.



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.

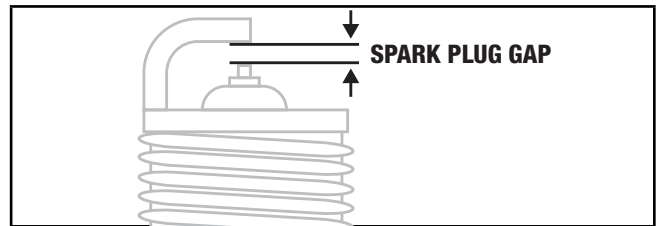
NOTICE

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).



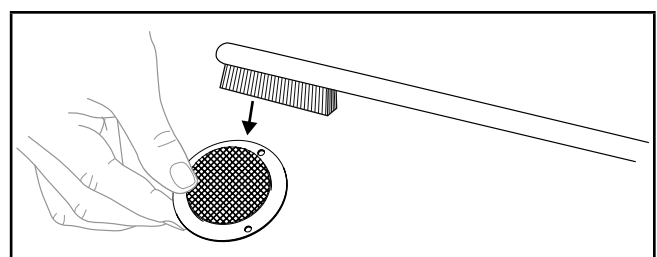
5. Refer to the spark plug types in [Specifications](#) when replacing the plug.
6. Firmly re-install the plug.
7. Attach the spark plug cable to the spark plug.

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 includes a battery, it is equipped with an automatic battery charging circuit. The battery will receive charging voltage when 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 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. An automatic battery charger (included) with automatic trickle charging capability should be used to charge the battery. 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.

🗨 NOTICE

A trickle or float charger will maintain the battery condition over long storage periods.

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
- Check propane (LPG) hose for leaks

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*
- Replace LPG hose

*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

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.

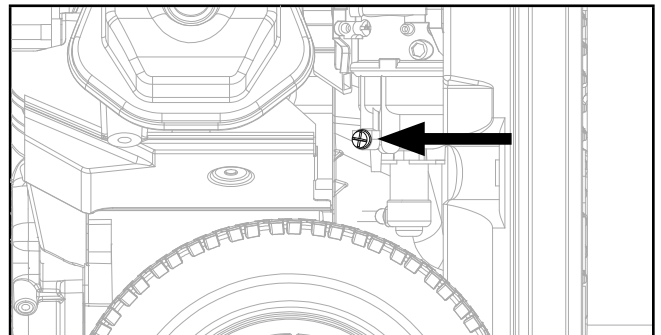
1. Be sure all appliances are disconnected from the generator.
2. Add a properly formulated fuel stabilizer to the gasoline tank.

3. Turn the fuel select dial to gasoline.
4. Start and run the generator for 10 minutes so the treated gasoline cycles through the fuel system and carburetor.
5. Turn fuel selection dial to the "OFF" position.
6. Remove the spark plug cap and spark plug and pour about a tablespoon of oil into the cylinder.
7. Pull the recoil slowly to crank the engine to distribute the oil and lubricate the cylinder.
8. Reattach the spark plug and spark plug cap.
9. If the generator includes a battery, disconnect and charge according to [Generator Battery](#).
10. Clean the generator according to [Cleaning the Generator](#).
11. 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. On the side operator panel, rotate the fuel selector dial to GASOLINE.
2. Remove the carburetor drain bolt to empty gasoline from the tank and carburetor into an appropriate container. Use a funnel or appropriate hose if necessary to avoid spillage.



3. When empty, replace and tighten carburetor drain bolt. Dispose of gasoline according to local regulations or guidelines.
4. Rotate the fuel selector dial to the OFF position.
5. Follow steps 7-12 according to Short Term Storage procedure.

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. Turn the fuel select dial to gasoline.
3. 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 select dial to "OFF."
4. Check engine oil level and add clean, fresh oil if needed. See [Oil Specifications](#) for proper oil type.
5. Check and clear air filter of any obstructions such as bugs or cobwebs. If necessary, clean air filter according to [Cleaning the Air Filter](#).
6. If the generator includes a battery, connect according to [Connect the Battery](#).
7. 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 select dial are set to the "OFF" position.
- If your generator includes a battery, disconnect according to [Generator Battery](#).

SPECIFICATIONS

Generator Specifications

Generator Model	100544
Start Type	Electric, Manual, Bluetooth
Watts – Gasoline (Starting/Running)	9375/7500
Watts – Propane (LPG) (Starting/Running)	8400/6750
AC Volts	120/240
AC Amps @ 120V	62.5
AC Amps @ 240V	31.3
DC Volts	12
Frequency	60 Hz
Phase	Single
Gross Weight	228 lb. (103.6 kg)
Net Weight	209 lb. (94.8 kg)
Length	29.1 in. (74 cm)
Width	27.6 in. (70.2 cm)
Height	26.6 in. (67.6 cm)

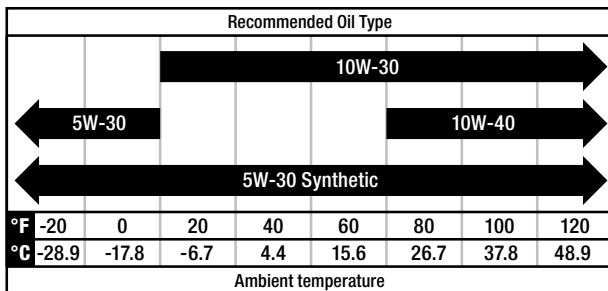
Engine Specifications

Model	YF190FD-2-L_G
Displacement	439 cc
Type	4-Stroke OHV

Oil Specifications

DO NOT OVERFILL.

Type	*See chart below
Capacity	1.2 qt. (1.1 L)



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

Gasoline Capacity	8.5 gal. (32 L)
-------------------------	-----------------

Dual Fuel models ONLY

- Use only an approved LPG cylinder equipped with an OPD (overfilling prevention device) valve.

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.

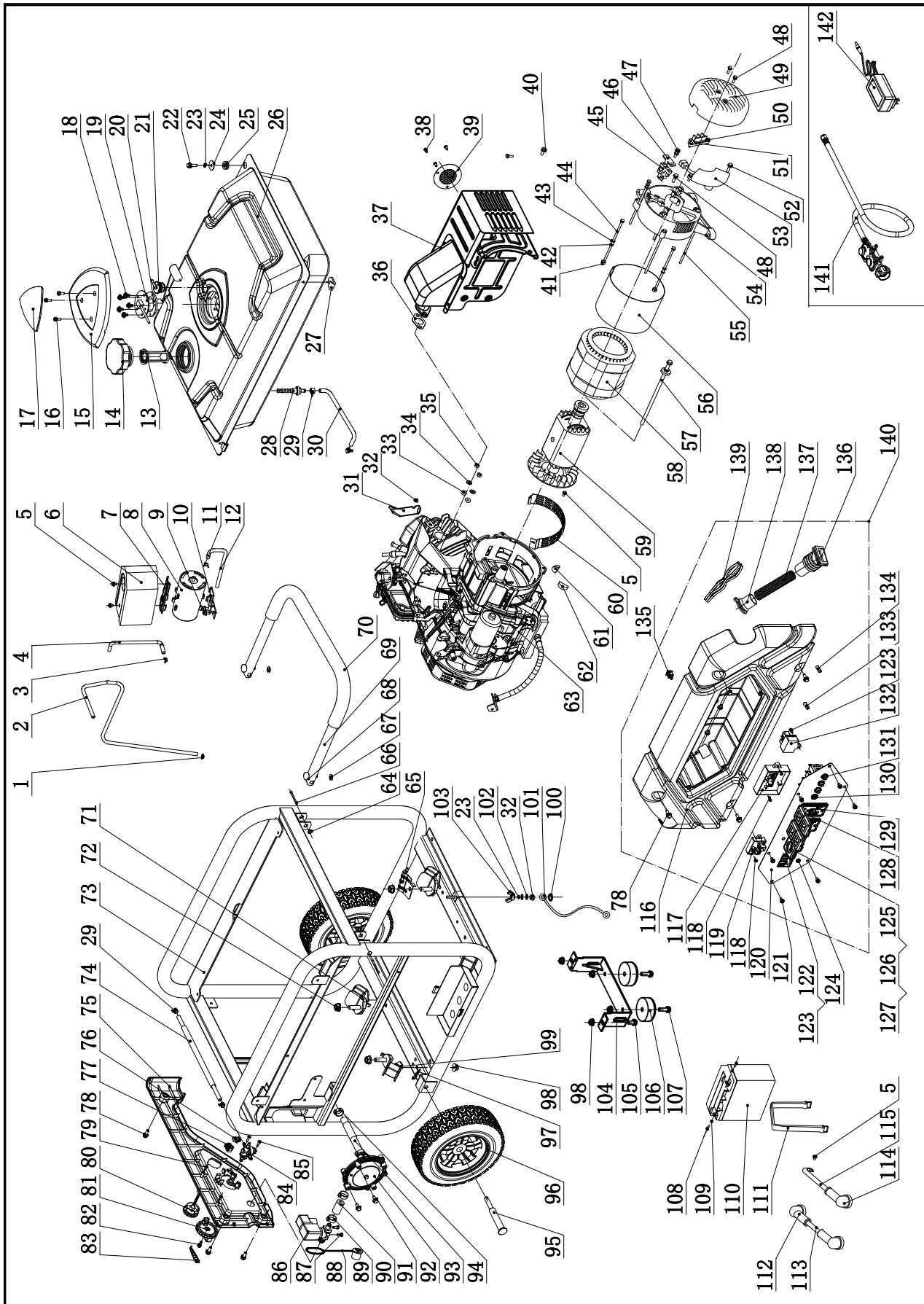
Battery Specifications

Type	Rechargeable, Non-Spillable Lead Acid
Volts	12
Capacity	15 Ah

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 14°F (-10°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	2.06.004	Clamp, Ø8 × Ø1	1
2	152.070014.03	Pipe, Reversal Valve	1
3	2.06.006	Clamp, Ø7 × Ø1	2
4	152.070013.01	Pipe, Air Cleaner, 125 mm	1
5	1.5789.0608	Flange Bolt M6 × 8	4
6	152.070018.02	Board, Heat Insulation	1
7	152.070702.03	Support Arm, Top	1
8	152.070700.03	Carbon Canister, 650 cc	1
9	1.16674.0812	Flange Bolt M8 × 12	2
10	152.070702.01	Support Arm, Bottom	1
11	2.06.010	Clamp, Ø10.5 × Ø1	1
12	152.070027.01	Vent Hose	1
13	122.070300.04	Fuel Filler	1
14	122.070100.07	Fuel Tank Cap	1
15	152.070016.01	Cover Plate	1
16	1.9074.4.0414.1	Screw/Washer Assembly M4 × 14, Black	3
17	152.070008.01	Decorative Plate, Fuel Tank	1
18	2.08.068.2	Flange Bolt M5 × 13	5
19	152.070035.01	Fuel Level Assembly	1
20	122.070036.00	Seal Ring	1
21	24.070800.00	Reversal Valve	1
22	1.5789.0620.1	Flange Bolt M6 × 20, Black	2
23	1.93.06	Lock Washer Ø6	3
24	2.03.004.1	Washer, Ø24 × Ø6.5 × 1.5, Black	2
25	122.070015.01	Mount Vibration, Fuel Tank	2
26	152.071000.50.48-FS	Fuel Tank, 32L, Yellow	1
27	152.070024.01	Mount Vibration, Fuel Tank, EL	2
28	21.070600.03	Connect, Zinc Alloy	1
29	2.06.016	Clamp, Ø8.7 × b8	4
30	152.070011.18	Fuel Pipe, 140mm	1
31	45.090006.20	Holder, Air Cleaner	1
32	1.6177.1.06	Lock Nut M6, Flange	2
33	1.848.08	Washer Ø8	2
34	1.93.08	Lock Washer Ø8	2
35	1.6175.08	Nut M8	2
36	46.100001.07	Gasket, Exhaust	1

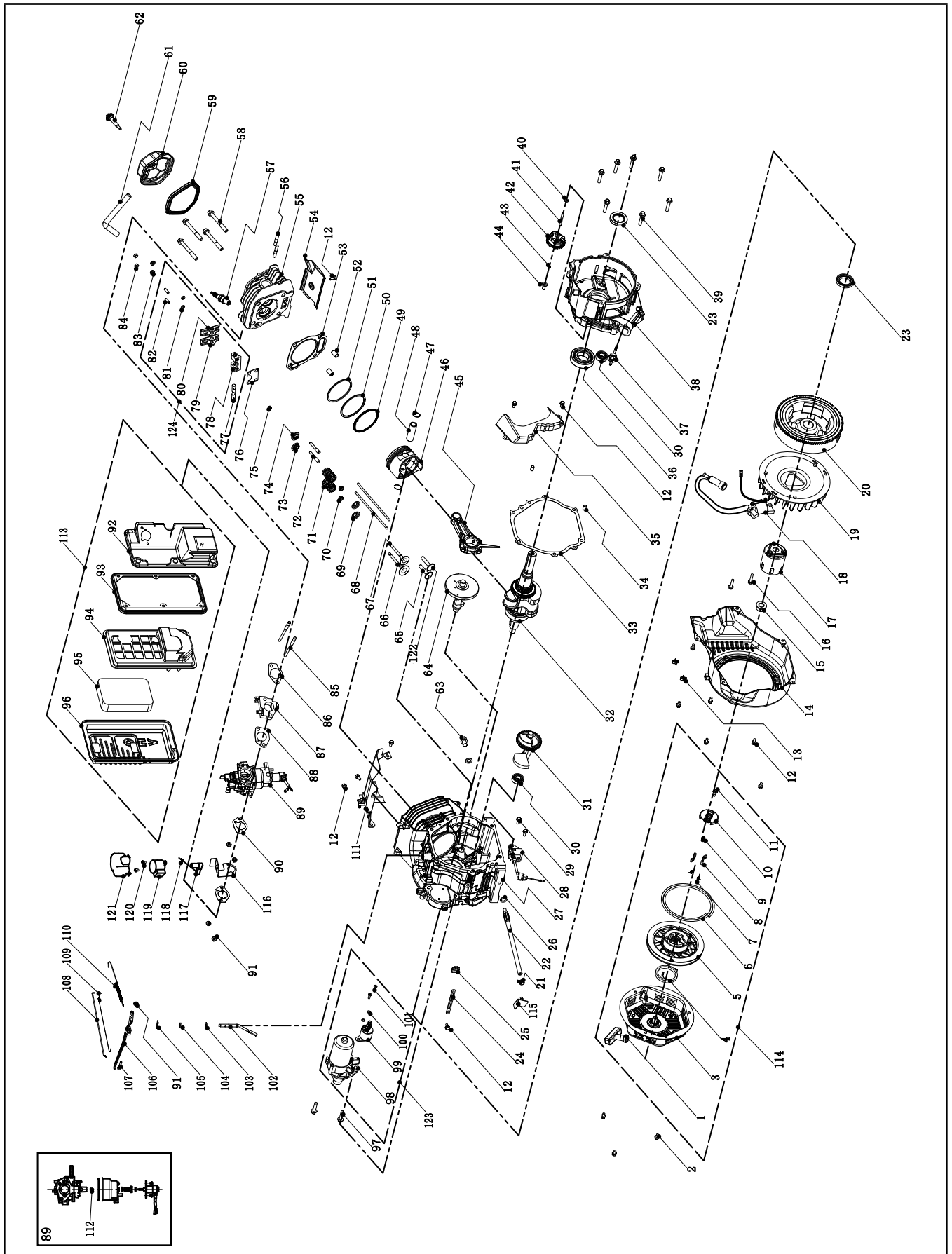
#	Part Number	Description	Qty.
37	46.101000.01.2	Muffler Assembly	1
38	1.9074.4.0510	Screw/Washer Assembly M5 × 10	3
39	46.101300.00	Spark Arrester Assembly	1
40	1.16674.0820	Flange Bolt M8 × 20	2
41	1.6175.05	Nut M5	2
42	1.97.1.05	Washer Ø5	2
43	1.93.05	Lock Washer Ø5	2
44	2.08.071	Bolt M5 × 229	2
45	152.190300.00	Carbon Bursh Assembly	1
46	122.190004.01	Pinch, Carbon Brush	1
47	1.9074.15.0520	Bolt/Washer Assembly M5 × 20	1
48	1.16674.0512.2	Flange Bolt M5 × 12	3
49	152.190003.00.48	Generator End Cover, Yellow	1
50	1.9074.17.0516	Screw/Washer Assembly M5 × 16	2
51	122.190400.00	Terminal Block	1
52	1.16674.0516	Flange Bolt M5 × 16	2
53	154.190200.02	AVR	1
54	152.190002.00	End Housing	1
55	2.08.069	Flange Bolt/Washer Assembly M6 × 194	4
56	153.191002.00	Stator Cover	1
57	2.08.070	Flange Bolt/Washer Assembly M10 × 280	1
58	153.191200.18	Stator Assembly, Al, Ø190 × 158 mm, DC 12V	1
59	153.191100.18	Rotor Assembly, Al, Ø190 × 158 mm, DC 12V	1
60	152.192300.01	Air Guide	1
61	152.190005.00	Rubber, Fore-Cover, A	1
62	152.190005.01	Rubber, Fore-Cover, B	1
63	47.696	Engine, 439 cc	1
64	1.894.1.10	Circlip Ø10	2
65	152.100007.00	Insulation Board, Motor Mount	1
66	152.200703.03	Long Pin, Handle	2
67	1.894.1.08	Circlip Ø8	2
68	152.200703.02	Short Pin, Handle	2

#	Part Number	Description	Qty.
69	152.200701.17	Handle, U Shape	1
70	152.200702.02	Cover, Handle	1
71	152.201200.04	Motor Mount 2	2
72	1.6177.1.10	Lock Nut M10, Flange	4
73	65275.0.10.2	Frame, 700 × 551 × 590	1
74	152.070011.17	Fuel Pipe, 290mm	1
75	152.200800.16	Decorative Plate, Left	1
76	5.1050.005	Switch	1
77	5.1050.006	Double Switch	1
78	1.5789.0615.1	Flange Bolt M6 × 15, Black	7
79	1.845.3513	Screw ST3.5 × 13	2
80	5.1040.012	Switch, Button Start	1
81	152.070001.00	Knob	1
82	1.823.0410	Screw M4 × 10	1
83	152.070042.00.48	Cover Plate, Knob, Yellow	1
84	152.070400.00	Fuel Valve	1
85	1.845.4213	Screw ST4.2 × 13	2
86	152.074000.02	Cut-off Valve, LPG Power-driven	1
87	1.16674.0510.2	Flange Bolt M5 × 10	2
88	9.1500.002	Sleeve, Connector	1
89	2.06.032	Clip, Ø17	3
90	152.070012.05	Pipe, 40 mm	1
91	1.5789.0612	Flange Bolt M6 × 12	2
92	47.136000.02	Pressure Reducing Valve	1
93	152.070012.11	Pipe, 365 mm	1
94	2.06.023	Clamp, Ø20	1
95	122.201501.23	Pin Roll, Wheel, Ø16 × Ø10 × 97	2
96	152.201701.09.48	9.5 in. Wheel, PU, Yellow	2
97	2.16.001	Pin Ø2 × 33, "R" Shape	2
98	1.6177.1.08	Lock Nut M8, Flange	8
99	152.201200.03	Motor Mount 1	2
100	1.862.06	Lock Washer Ø6, Toothed	1
101	5.1900.026	Grounding Line 150 mm	1
102	1.97.1.06.2	Washer Ø6	2
103	1.62.06	Butterfly Type Nut M6	1
104	152.200002.14.2	Support Leg 72 mm	1
105	1.5789.0816	Flange Bolt M8 × 16	2

#	Part Number	Description	Qty.
106	152.201400.00	Rubber, Support	2
107	1.5789.0825	Flange Bolt M8 × 25	2
108	1.9074.3.0510	Screw/Washer Assembly M5 × 10	2
109	1.6177.1.05	Lock Nut M5, Flange	2
110	9.1000.150	Battery 12V15AH	1
111	152.200904.00	Pinch, Rubber	1
112	152.200013.01.3	Jacket, Wire, Red	2
113	5.1900.021	Red Wire, 480 mm, Battery	1
114	152.200013.01	Jacket, Wire, Black	1
115	5.1900.014	Black Wire, 320 mm, Battery	1
116	152.210002.22	Control Box	1
117	5.1830.013	Remote Module, App Control	1
118	1.845.4216	Screw ST4.2 × 16	4
119	5.1820.008	Charger	1
120	152.219.4.2	Control Panel	1
121	1.9074.4.0514.1	Screw/Washer Assembly M5 × 14, Black	6
122	5.1440.009	Intelligauge	1
123	1.818.0514.2	Screw M5 × 14	3
124	5.1110.006	Receptacle, Battery Charger	1
125	5.1120.009	Receptacle L14-30R	1
126	5.1870.003	Receptacle Cover, Receptacle L14-30R	1
127	1.6177.1.04.1	Lock Nut M4, Flange, Black	6
128	5.1870.005	Receptacle Cover, Receptacle 5-20R, Duplex GFCI	2
129	5.1120.050	Receptacle 5-20R, Duplex GFCI	2
130	5.1210.930	30Amp Circuit Breaker, Push Button, CSA	2
131	5.1210.920	20Amp Circuit Breaker, Push Button, CSA	2
132	5.1810.001	Over Voltage Protector	1
133	5.1280.003	Fuse, 10A	1
134	5.1280.008	Fuse, 5A	1
135	5.1040.004	Remote Exercise Button	1
136	172.210003.01	Wire Jacket, Control Box	1
137	5.1320.024	Sheath, Wire	1

#	Part Number	Description	Qty.
138	152.210003.03	Plug, End Cover, CSA	1
139	100544.21.10	Wire Assembly	1
140	100544.21	Control Panel Assembly	1
141	47.130021.01	LPG Hose with regulator 3.3 ft.	1
142	5.1820.007	Smart Charger	1

Engine Parts Diagram



Engine Parts List

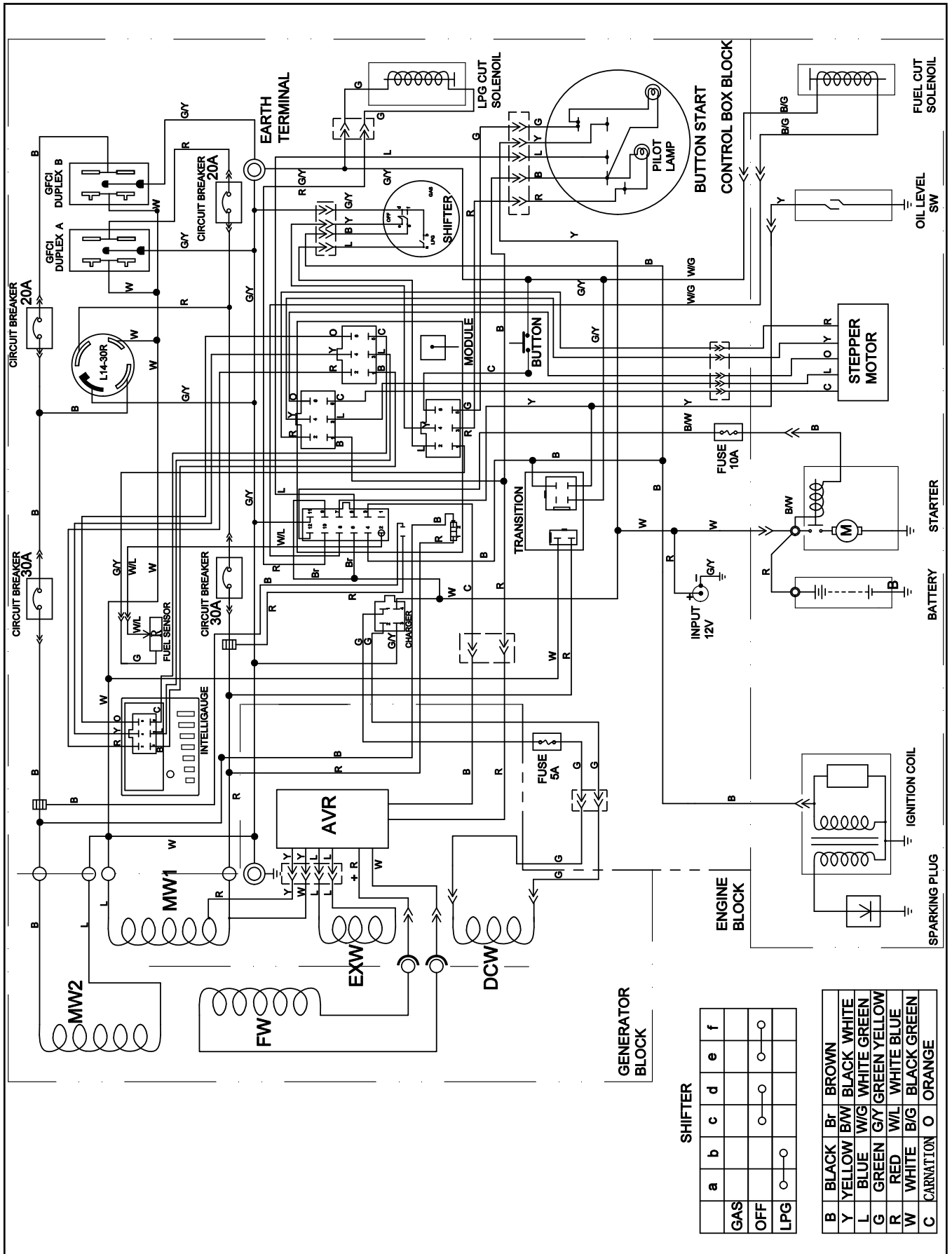
#	Part Number	Description	Qty.
1	21.061300.00	Handle, Recoil, Soft	1
2	1.5789.0608	Flange Bolt M6 × 8	3
3	46.061100.00.2	Cover, Recoil Starter, Black	1
4	45.060005.00	Spring, Recoil Starter	1
5	45.061102.00	Reel, Recoil Starter	1
6	2.10.003.1	Rope Ø4 × 1550, Black	1
7	45.060003.00	Spring, Ratchet	2
8	45.060002.00	Starter Ratchet, Steel	2
9	45.060009.00	Spring, Ratchet Guide	1
10	45.060007.00	Ratchet Guide	1
11	45.060008.00	Screw, Ratchet Guide	1
12	1.5789.0612	Flange Bolt M6 × 12	12
13	2.05.001	Clamp Ø8 × 6.5	2
14	47.080100.01.48	Fan Cover, Yellow	1
15	2.02.007	Nut M16 × 1.5	1
16	1.5789.0629	Flange Bolt M6 × 29	2
17	45.060001.00	Pulley, Starter	1
18	46.123000.01	Ignition Coil	1
19	47.080001.00	Cooling Fan	1
20	46.120100.05	Flywheel	1
21	2.06.013	Clamp Ø13.5 × b10	1
22	45.032000.00	Hose, Oil Drain	1
23	2.11.007	Oil Seal Ø35 × Ø52 × 8	2
24	2.05.050	Wire Clip 100 mm	1
25	152.070031.01	Sheath, Wire	1
26	2.03.023	Washer Ø12.5 × Ø20 × 2, Drain Bolt	2
27	47.030100.05	Crankcase	1
28	45.127000.02	Oil Level Sensor	1
29	1.5789.0615	Flange Bolt M6 × 15	2
30	1.276.6202	Bearing 6202	2
31	47.050006.00	Weight Balancer	1
32	47.050100.01	Crankshaft	1
33	46.030008.00	Gasket, Crankcase Cover	1
34	2.04.001	Dowel Pin Ø9 × 14	2
35	46.080600.00	Air Guide, Right Side	1
36	1.276.6207	Bearing 6207	1
37	46.031000.01.48	Oil Dipstick Assembly, Yellow	1
38	45.030007.00	Cover, Crankcase	1

#	Part Number	Description	Qty.
39	1.5789.0840	Flange Bolt M8 × 40	7
40	2.03.021.1	Washer Ø6.4 × Ø13 × 1, Black	1
41	45.110013.00	Shaft, Governor Gear	1
42	45.110100.00	Gear, Governor	1
43	21.110011.00	Clip, Governor Gear	1
44	45.110012.00	Bushing, Governor Gear, Steel	1
45	47.050200.00	Connecting Rod	1
46	47.050005.01	Piston	1
47	2.09.004	Circlip Ø21 × Ø1	2
48	45.050003.00	Pin, Piston	1
49	46.050303.02	Ring, Oil	1
50	46.050302.02	Ring, Second Piston	1
51	46.050301.02	Ring, First Piston	1
52	2.04.004	Dowel Pin Ø12 × 20	2
53	46.030009.02	Gasket, Cylinder Head	1
54	46.080400.00	Air Guide, Lower	1
55	47.010100.01	Cylinder Head	1
56	2.01.010	Stud Bolt M8 × 35	2
57	2.15.002(F6RTC)	Spark Plug F6RTC	1
58	2.08.014	Flange Bolt M10 × 80	4
59	46.020002.00	Gasket, Cylinder Head Cover	1
60	47.021000.00	Cover, Cylinder Head	1
61	45.020001.02	Breather Tube	1
62	47.020100.00	Bolt, Cylinder Head Cover	1
63	2.08.039	Drain Bolt M12 × 1.5 × 15	1
64	47.041000.01	Camshaft	1
65	48.040013.00	Lifter, Valve	1
66	47.040002.00	Valve, Intake	1
67	47.040006.00	Valve, Exhaust	1
68	46.040005.00	Push Rod	2
69	45.040015.00	Retainer, Valve Spring	2
70	45.040017.00	Oil Seal, Valve	2
71	45.040003.00	Spring, Valve	2
72	23.040010.00	Bolt, Rocker Arm	2
73	45.040001.00	Retainer, Intake Valve Spring	1
74	45.040007.00	Retainer, Exhaust Valve Spring	1
75	45.040008.00	Rotator, Exhaust Valve	1

#	Part Number	Description	Qty.
76	46.040004.00	Guide Plate, Push Rod	1
77	46.040016.00	Shaft, Rocker Arm	1
78	46.040201.00	Retainer, Rocker Arm	1
79	46.040009.00	Rocker Arm, Intake Valve	1
80	46.040018.00	Rocker Arm, Exhaust Valve	1
81	1.97.1.06	Washer Ø6	2
82	22.040012.00	Screw, Valve Adjustment	2
83	1.6177.1.06	Flange Nut M6	2
84	21.040021.00	Nut M6 × 0.5, Lock	2
85	2.01.008	Stud Bolt M6 × M8 × 105	2
86	46.130002.20	Gasket, Insulator	1
87	45.130001.00	Insulator, Carburetor	1
88	46.130003.20	Gasket, Carburetor	1
89	47.131000.34	Carburetor	1
90	46.130004.20	Gasket, Air Cleaner	2
91	1.6177.06	Flange Nut M6	3
92	46.091100.03	Base, Air Cleaner	1
93	45.091002.20	Seal, Air Cleaner	1
94	45.091001.20	Separator, Air Cleaner	1
95	45.091003.20	Element, Air Cleaner	1
96	46.091200.04	Cover, Air Cleaner	1
97	1.5789.0835	Flange Bolt M8 × 35	2
98	45.125100.00	Starter Motor	1
99	45.125200.03	Relay, Starter	1
100	1.93.05	Lock Washer Ø5	2
101	1.16674.0516	Flange Bolt M5 × 16	2
102	45.110001.00	Shaft, Governor Arm	1
103	2.03.019	Washer Ø8.2 × Ø17 × 0.8	1
104	2.11.006	Oil Seal Ø7 × Ø14 × 5	1
105	45.110008.00	Pin, Shaft	1
106	45.110003.01	Arm, Governor	1
107	2.08.040	Bolt M6x21, Governor Arm	1
108	45.110006.00	Rod, Governor	1
109	45.110005.00	Spring, Throttle Return	1
110	45.110007.01	Spring, Governor	1
111	46.080300.20	Air Guide, Upper	1
112	47.131017.21	Main Jet, Standard	1
	47.131017.21.01	Main Jet, Altitude	/
113	46.091000.03.2	Air Cleaner Assembly, Black	1

#	Part Number	Description	Qty.
114	46.061000.00	Recoil Assembly	1
115	45.030200.00	Support	1
116	45.130005.01	Support, Stepper Motor	1
117	26.130015.24	Connector, Choke Valve Axis	1
118	81.130010.00	Spring, Connector	1
119	45.132200.03	Stepper Motor	1
120	1.823.0408	Screw M4 × 8	2
121	81.132001.00	Cover, Stepper Motor	1
122	45.040013.00	Lifter, Valve	1
123	45.125000.03	Starter Motor Assembly	1
124	46.040200.00	Rocker Arm Assembly	1

Wiring Diagram



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	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*

CHAMPION POWER EQUIPMENT
3 YEAR LIMITED WARRANTY

Warranty Qualifications

To register your product for warranty and FREE lifetime call center technical support please visit:

<https://www.championpowerequipment.com/register>

To complete registration you will need to include a copy of the purchase receipt as proof of original purchase. Proof of purchase is required for warranty service. Please register within ten (10) days from 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.
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), THE UNITED STATES ENVIRONMENT PROTECTION AGENCY (U.S. EPA.) AND THE CALIFORNIA AIR RESOURCES BOARD (CARB) EMISSION CONTROL SYSTEM WARRANTY

Your Champion Power Equipment (CPE) engine complies with both the U.S. EPA and state of California Air Resources Board (CARB) emission regulations.

Your Warranty Rights And Obligations:

The US EPA, California Air Resources Board, and CPE are pleased to explain the Federal and California Emission Control Systems Warranty on your 2018 small off-road engine (SORE) and engine powered equipment. In California, new, small off-road engines (SORE) and new equipment that use small off-road engines (SORE) must be designed, built and equipped to meet the State's stringent anti smog standards. In the other states, 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. For engines less than or equal to 80cc, only the fuel tank and fuel line is subject to the evaporative emission control warranty requirements of this section.

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, 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 (SORE), 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 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 1995 and later model year California small off-road engines (SORE) (for other states, 1997 and later model year engines). 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:

 - 2a. Designed, built and equipped so as to conform to U.S. EPA emissions standards for spark-ignited engines at or below 19 kilowatts and all applicable regulations adopted by the California Air Resources Board, and
 - 2b. 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:**
 - 3a. 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.
 - 3b. 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.
 - 3c. 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.
 - 3d. 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.
 - 3e. 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.
 - 3f. 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.
 - 3g. 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.
 - 3h. 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.
 - 3i. 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.
 - 3j. 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 (for liquid fuel and fuel vapors), Fuel Line Fittings, Clamps, Pressure Relief Valves, Control Valves, Control Solenoids, Electronic Controls, Vacuum Control Diaphragms, Control Cables, Control Linkages, Purge Valves, Gaskets, 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.
12039 Smith Ave.
Santa Fe Springs, CA 90670
1-877-338-0999
Attn.: Customer Service
tech@championpowerequipment.com