CHAMPION
GLOBAL POWER EQUIPMENT™-MC

OPERATOR'S MANUAL

MODEL #500988-UK
3500W RATED DUAL FUEL INVERTER GENERATOR

REGISTER YOUR PRODUCT ONLINE

at **championpowerequipment.co.uk**

TAKE IT OUTSIDE™
TAKEYOURGENERATOROUTSIDE.COM

+44(0)-1942-715-407

or visit **www.championpowerequipment.co.uk**

SAVE THESE INSTRUCTIONS. 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.

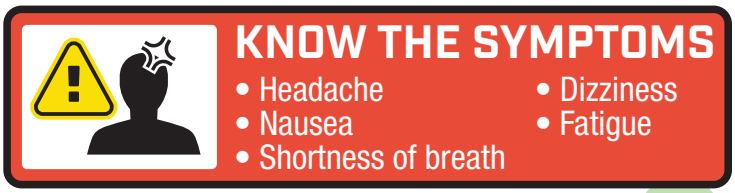
REV 20220916

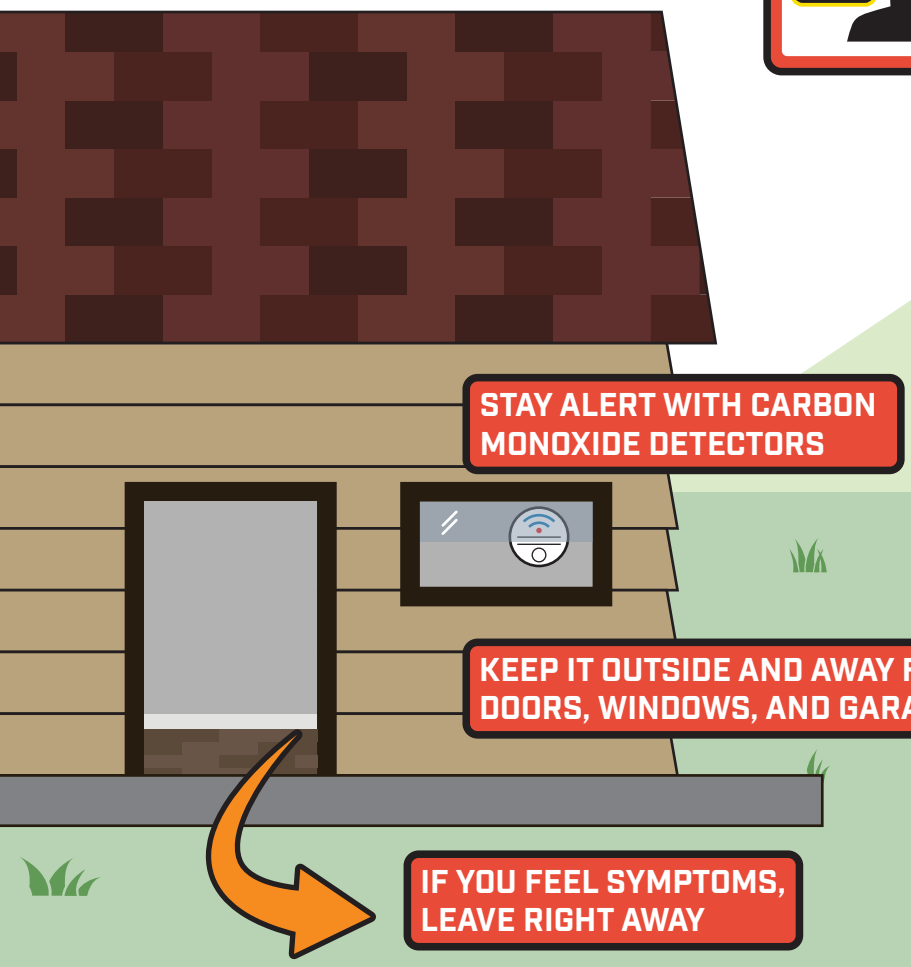
TAKE IT OUTSIDE™

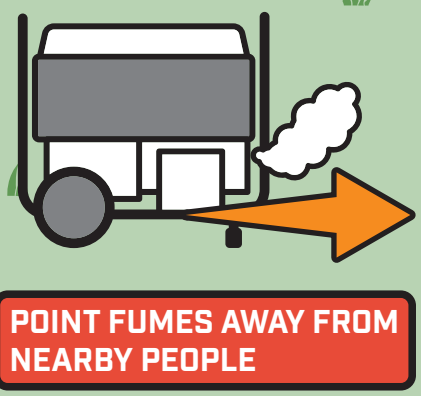
CARBON MONOXIDE KILLS

CARBON MONOXIDE SAFETY: THE BIG PICTURE

As the only safe way to use a portable generator, taking your generator outside is absolutely mandatory to keep your family safe from carbon monoxide. But there's even more you can do. By educating yourself about all carbon monoxide risks, you'll be better prepared to protect your family from this colorless, oderless threat.







www.TakeYourGeneratorOutside.com

TABLE OF CONTENTS

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.

CPE highly values how our products are designed, manufactured, operated, and serviced as well as providing safety to the operator and those around the generator. Therefore, it is IMPORTANT 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
+44(0)-1942-715-407
MODEL NUMBER
500988-UK
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

⚠ 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 ,sheds & vehicles, including garages, basements, crawlspaces and sheds, enclosure or compartment, including the generator compartment of a recreational vehicle.

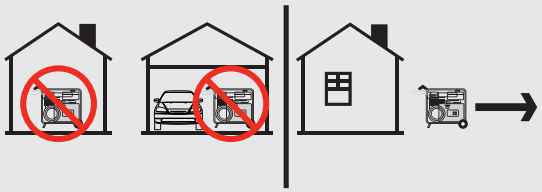
DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings.

⚠ 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. (1.5 m) 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.

⚠ DANGER

Generator produces powerful voltage.

DO NOT touch bare wires or sockets.

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 including rain or snow.

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(MUST be installed separately).

Connection to your home's electrical system requires a listed 100A 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

Do not use generator for medical and life support uses.

In case of emergency, call emergency services immediately.

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

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

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

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

⚠ WARNING

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 like engine or exhaust muffler.

Avoid contact with hot exhaust gases.

Allow equipment to cool minimum 30mins before handling.

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

When starting engine, pull the recoil cord slowly until resistance is felt (compression point), release back cord and then with one strong rapid pull to start. repeat process, Do not excessively or rigorously pull the recoil cord or otherwise you will break or damage it. By doing so you will void and warranty.

⚠ 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.

Do Not modify or install any exhaust muffler extensions, by doing so will void any warranty offered.

⚠ 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 flat 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

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

Fire or explosion can cause severe burns or death.

Petrol and petrol vapors:

- Petrol is highly flammable and explosive.
- Petrol can cause a fire or explosion if ignited.
- Petrol is a liquid fuel but it's vapors can ignite.
- Petrol is a skin irritant and needs to be cleaned up immediately if spilled on skin or clothes.
- Petrol 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.

Propane**:**

- Propane is highly flammable and explosive.
- Propane is under pressure and can cause a fire or explosion if ignited.
- Propane is heavier than air and can settle in low places while dissipating.
- Propane has a distinctive odor added to help detect potential leaks quickly.
- In any petroleum gas fire, flames should not be extinguished unless by doing so 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 propane cylinders, check that the cylinder valve is of the same type.
- Always keep the propane cylinder in an upright position.
- Propane will burn skin if it comes in contact with it. Keep any and all propane away from skin at all times.

When adding or removing petrol:

DO NOT light or smoke cigarettes.

Turn the generator off and let cool for at least two minutes before removing the petrol cap. Always loosen the cap slowly to relieve pressure in the tank.

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

DO NOT pump petrol directly into the generator at the gas station. Always use an approved container to transfer the fuel to the generator.

DO NOT overfill the gasoline tank.

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

When starting the generator:

DO NOT attempt to start a damaged generator.

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

Always allow spilled petrol to evaporate fully before attempting to start the engine.

Always be certain that the generator is resting firmly on level ground.

When operating the generator:

DO NOT move or tip the generator during operation.

When transporting or servicing the generator:

Always check that the fuel valve is in the OFF position and the gasoline tank is empty.

For propane compatible models, check 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, petrol or propane cylinders near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions.

⚠ DANGER

NEVER place a petrol container, gasoline tank, propane cylinder or any combustible material in the path of the exhaust stream during operation of the engine.

⚠ WARNING

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

Lithium-ion Battery Safety

Electrolyte inside the battery is harmful to skin and eyes. If the battery leaks and electrolyte gets in your eyes, do not rub them. Instead, rinse them with clean running water and immediately seek medical attention. If left untreated, electrolyte can cause permanent eye injury.

When using the generator:

- Do not use the battery near sources of high heat or fire.
- Do not reverse or short-circuit the positive (+) or negative (-) terminals.
- Do not use the battery in parallel or in series.
- Do not discharge battery in temperatures below 14°F (-10°C) or above 104°F (40°C).

When charging the battery:

- Do not charge the battery with voltage over 15.0V and current over 1.6A.
- Do not charge the battery below 32°F (0°C) or above 113°F (45°C).
- Always remove from the battery cradle before charging separately.
- After charging, leave the battery sitting for 0.5 to 1 hour before checking the voltage. If the voltage is less than 12.8V, additional charging is necessary.
- If the battery becomes hot to the touch, stop charging. Allow battery to cool before resuming.

When storing the generator/battery:

- Always check that the battery connectors between the inverter and the battery are unplugged and placed away from the battery terminals.
- Always inspect the battery case for obvious signs of physical damage or warpage.
- Do not store the battery near sources of high heat or fire.
- Store the battery in a dry, well ventilated area between -4°F (-20°C) and 104°F (40°C).
- Do not store the battery when discharged to 20% or less state of charge (SOC).
- The battery should be charged for 10~30 mins every 180 days when in storage, to keep the battery in good condition.

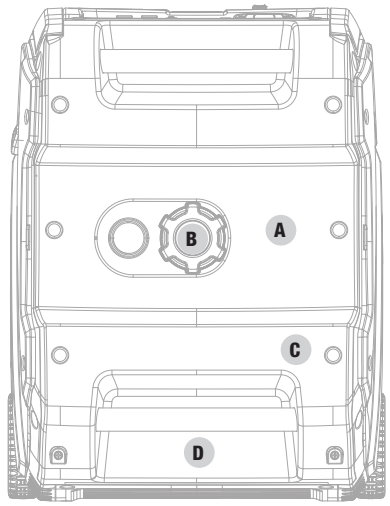
In case of battery damage:

- If damaged, battery may emit hazardous fumes. If fumes are present, move battery to a well-ventilated area.
- Do not try to repair the battery.
- Dispose of battery in a clear plastic bag and take to your local municipal household hazardous waste (HHW) recycling center. Do not place it the trash for any reason.

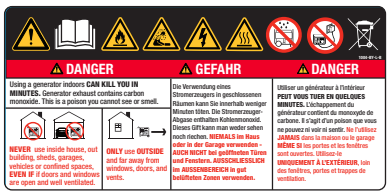
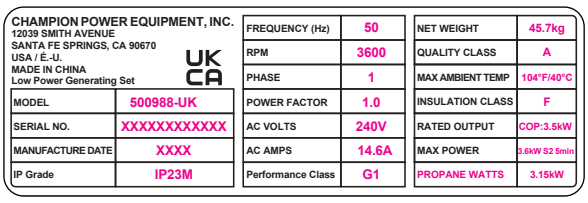
Safety and Dataplate Labels

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

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

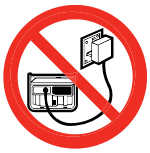


Top

	LABEL	DESCRIPTION
A		Safety Symbols/ CO Danger
B		Fuel
C		Dataplate
D		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
	**Caution.**
	**Read The Operator's Instruction Manual Before Use.** To reduce the risk of injury, user must read and understand operator's manual before using this product.
	**Not For General Waste Disposal.**
	The generating set must not be connected to other power sources, such as the power company supply mains.
	**Electric Hazard.** Failure to use in dry conditions and to observe safe practices can result in electric shock. Improper connections to a building can allow current to backfeed into utility lines, creating an electrocution hazard. A transfer switch must be used when connecting to a building.
	**Fire Hazard.** Fuel and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death. Keep generator at least 5 feet (1.5m) from all objects to prevent combustion.
	**Risk Of Being Burnt.** To reduce the risk of injury or damage, avoid contact with any hot surface.
	**Carbon Monoxide(co) Danger.**
	**Wet Conditions Alert.** Do not expose to rain or use in damp locations except as follows: If you must operate in rain or damp locations, DO NOT operate without proper protection of the electrical components. Use of a safety canopy that is fire retardant and will provide proper air ventilation for the engines exhaust stream can be used. Keep all objects a minimum of 5 feet (1.5m) away from the generator at all times. Heat from the muffler surface and exhaust stream can ignite combustible materials.

SYMBOL	MEANING
	**Read Operator's Manual.** To reduce the risk of injury, user must read and understand operator's manual before using this product.
	**This product uses lithium-ion (Li-ion) batteries.** Local, state, or federal laws may prohibit disposal of batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.
	**Blindness or severe burns.** Electrolyte solution can cause blindness or severe burns.
	**Shield eyes.** Explosive gases can cause blindness or injury. If damaged, battery may emit hazardous fumes. If fumes present, move battery to a well-ventilated area.
	**Eye protection.** Always wear eye protection with side shields marked to comply with ANSI Z87.1.
	It is recommended ear protection is worn working at close quarters to the generator.

Operation Symbols

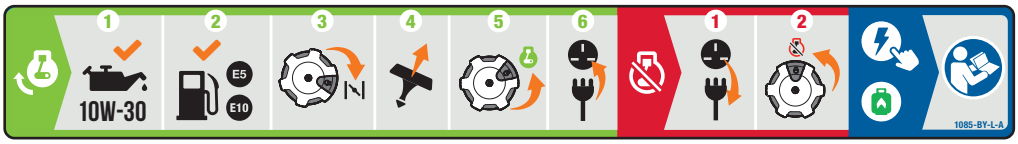
Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.

SYMBOL	MEANING
	**Propane Hose Inlet**
	**Start**
	**On**
	**Choke**
	**Stop or Off**
	**Economy Mode Button**
	**Low Oil**
	**Overload Reset Button**
	**Circuit Breaker Reset: Push**

SYMBOL	MEANING
	**Ground Terminal**
	**Neutral Floating.** Neutral circuit **IS NOT** electrically connected to the frame/ ground of the generator.
	**Parallel Connection(s)**
	**12V Direct Current**
	**Fuel Tank: Full**
	**Fuel Tank: Empty**
	**Power Output.** Percentage of available power from generator being used.

Quick Start 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 and far away from windows, doors and intake ventilation covers.

1. **Check oil level.**(Not Included)
   Recommended oil is 10W-30.

Check petrol level.
When adding gasoline, use a minimum octane rating of 85 and an ethanol content of 10% or less by volume. E5 E10

2. Turn EZ Start dial to the full **"CHOKE"** position.
3. Pull the recoil cord.
4. Turn the EZ Start dial to the **"RUN"** position.
5. Plug in desired device.

Stopping the Engine

1. Turn off and unplug all connected electrical loads.
2. Turn the EZ Start dial to the **"STOP"** position.

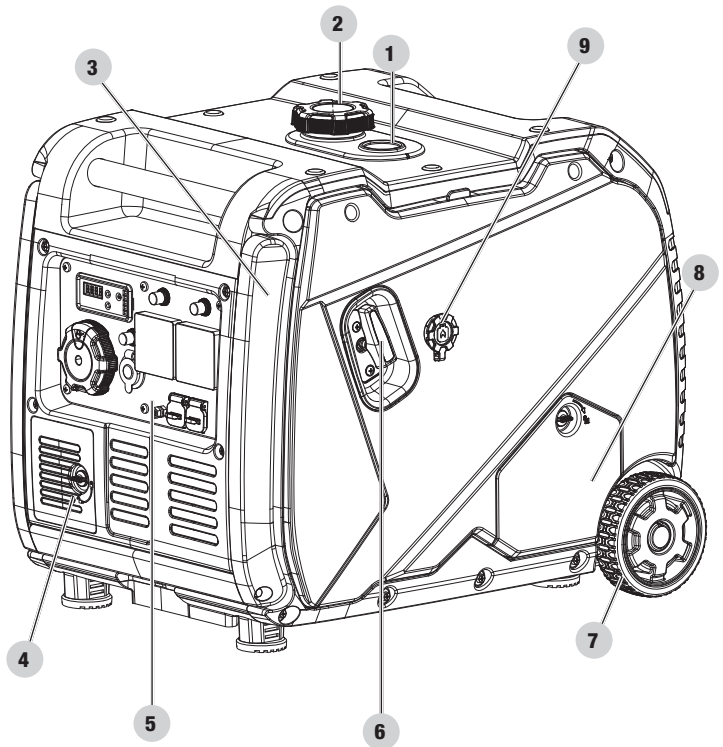
For adding fuel and starting the engine with LPG see *Add Fuel: Propane (LPG)* in *Assembly* section and *Starting the Engine: Propane (LPG)* in the *Operation* section.

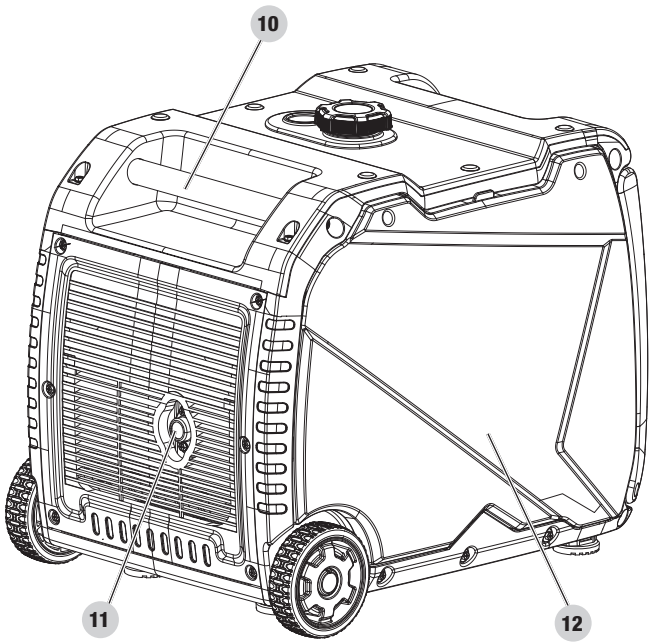
For Electric Start, see "*Starting the Engine*" section in the *Operation* section.

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.

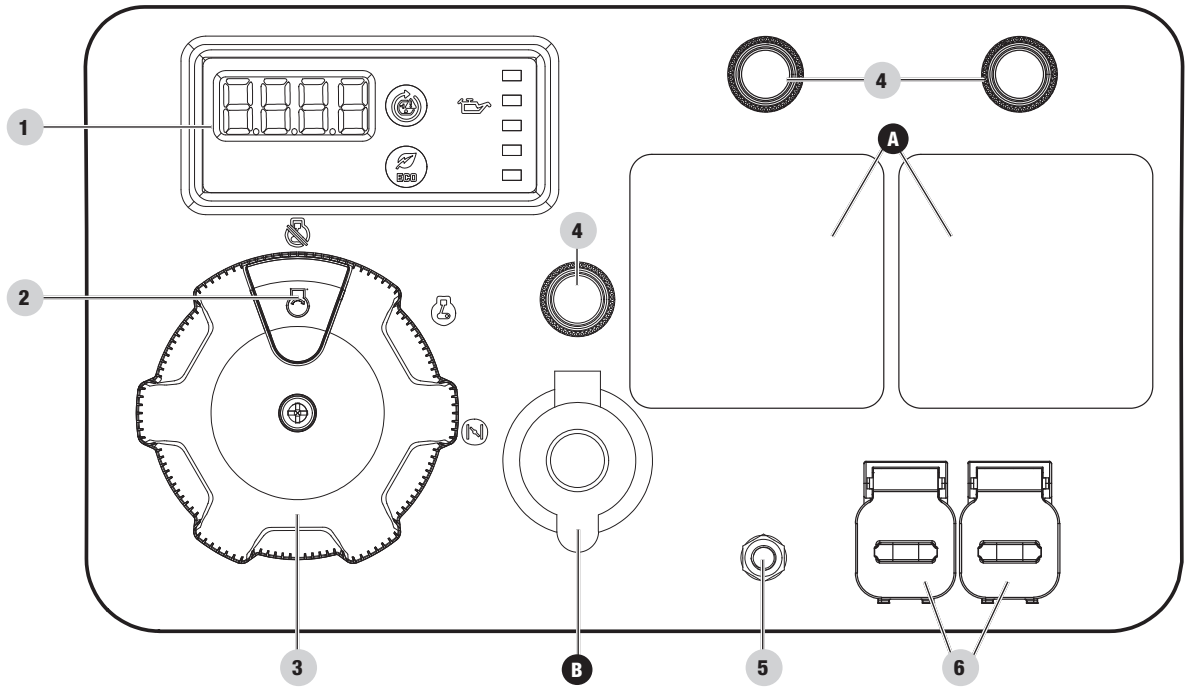
Generator





1. **Fuel Gauge**
2. **Fuel Cap** – Remove to add fuel.
3. **Folding Handle** – Used to move unit by lifting and rolling on wheels. Do not use to lift or carry the unit.
4. **Battery Access Cover**
5. **Control Panel** – See *Control Panel* section.
6. **Recoil Starter** – Used to manually start the engine.
7. **Never Flat Wheels** – 5 in. (12.7 cm)
8. **Oil Fill Access Cover**
9. **LPG Inlet** – Used to connect LPG fuel source to generator.
10. **Carrying Handle(s)** – Used to lift or carry the unit.
11. **Muffler**
12. **Maintenance Cover**

Control Panel



1. **Intelligauge with Power Meter** – See *Intelligauge with Power Meter* section.
2. **Ignition Switch** – Used to START the generator.
3. **EZ Start Dial** – Used to start, stop and choke the generator.
4. **Circuit Breakers (Push Reset)** – Protects the generator against electrical overloads.
5. **Ground Terminal** – Consult an electrician for local grounding regulations.
6. **Parallel Outlets** – Used to parallel two inverters together for increased power output. (parallel kit sold separately).

RECEPTACLES		
A		**(2×) 240V AC, 13A** May be used to supply electrical power for operation of 240 Volt AC, 13 Amp, single phase, 50 Hz electrical loads.
B		**12V DC, 8A (Automotive)** May be used to supply electrical power for operation of 12 Volt DC, 8 Amp electrical loads.

⚠ WARNING

Do not operate a device while it is plugged into the 12V DC outlet. Prolonged exposure to engine exhaust can cause serious injury or death. While charging a device do no place on the exhaust side of the generator. Extreme heat caused by exhaust can damage the device, and cause a potential fire hazard.

⚠ WARNING

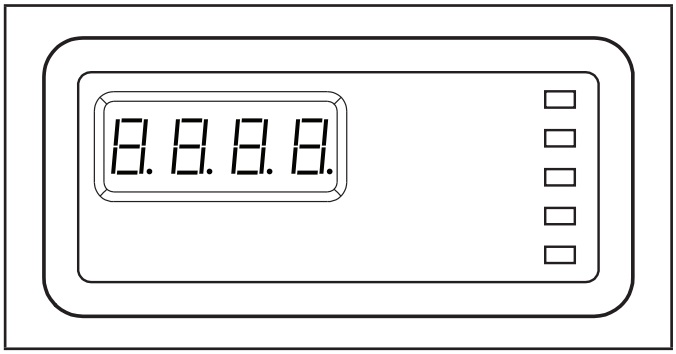
Do Not operate both AC and DC together, only ever use one at a time otherwise you can damage generator electrical components and(or) damage equipment.

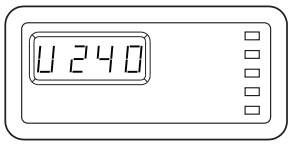
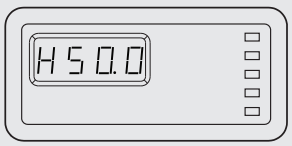
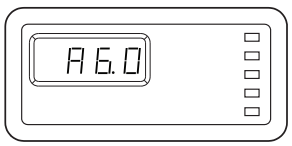
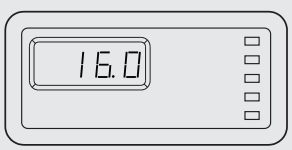
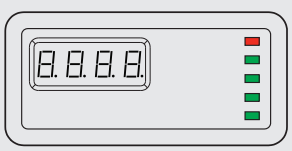
Intelligauge with Power Meter

The meter is divided into two separate displays.

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

The Power Meter LED displays output in percent (%) with 100% at the top.

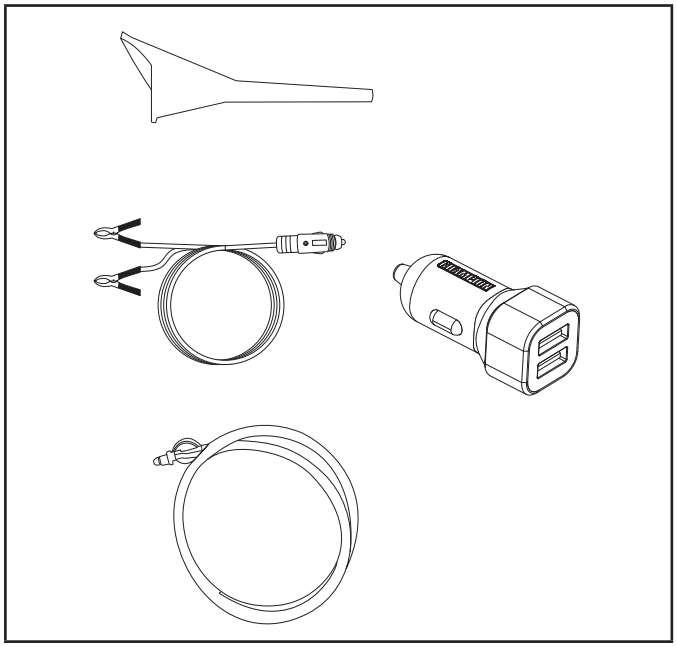


MODE	DESCRIPTION	
Voltage (V)	Output voltage of the generator.	
	Example: 240 volts	
Frequency (H)	Output frequency in hertz.	
	Example: 50.0 hertz	
Run Time (R)	Run time of the generator for the current session.	
	Example: 6 hours	
Total Run Time	Total run time of the generator since first operation.	
	Example: 16 hours	
Power Meter	Power Output percentage.	
	Example: 100% Output	

Parts Included

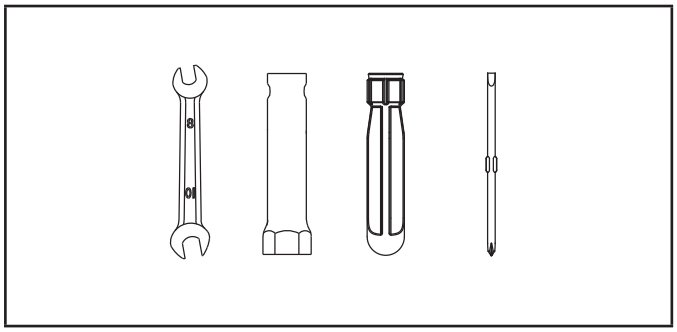
Accessories

Oil Funnel 1
12VDC USB Adapter 1
12VDC Battery Charging Cable 1
LPG Hose with Regulator 1



Tools Included

8/10 mm Wrench 1
Spark Plug Socket 1
Reversible Phillips/Flathead Screwdriver 1



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 +44(0)-1942-715-407. 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. Using the carrying handles of the unit, carefully remove the generator from the box (two people lifting is recommended).

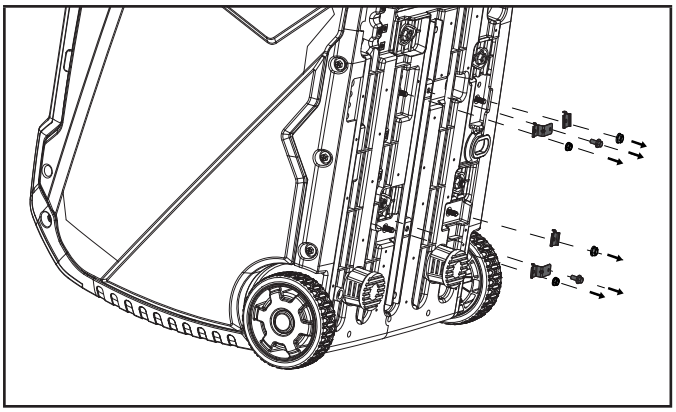
Remove Shipping Support Hardware

To protect the generator during shipping, support hardware has been installed between the engine and frame. This hardware MUST BE REMOVED BEFORE adding oil or gasoline to the generator.

NOTICE

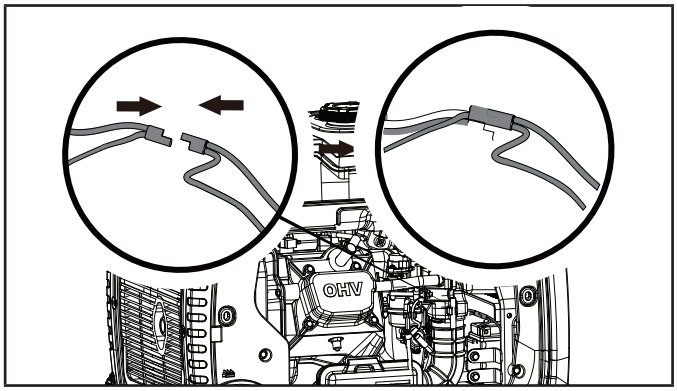
DO NOT attempt to run generator without first removing the shipping support hardware. Damage to the generator as a result of not removing the hardware will void the warranty.

1. **BEFORE** filling the engine with oil or petrol, tip the generator onto the muffler side. Tip onto the flattened cardboard box the generator came in or other protective surface so as to not scratch the enclosure.
2. Remove the four nuts and mounting plates from the bottom side of the generator using the included 8/10 mm wrench. Nuts and spacers can be discarded.
3. Tip the generator upright.



Connect the Battery

1. Remove the non recoil side maintenance cover by removing the two screws with a phillips head screw driver (included).
2. Push two halves of battery connector together tightly.



Add Engine Oil

WARNING

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 failing to follow these instructions will void your warranty.

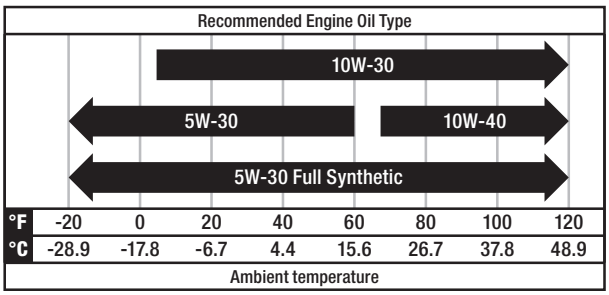
NOTICE

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

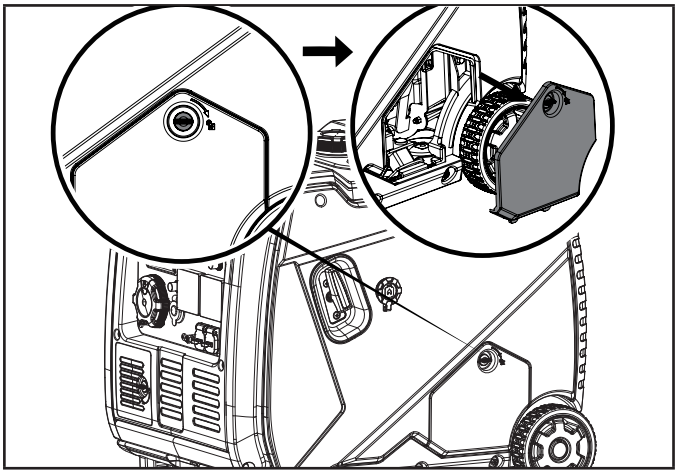
NOTICE

The recommended oil type for typical use is **1Champion PowerX 10w30 oil**. However, using the listed conventional oils shown in the “Recommended Engine Oil Type” chart may be used for typical use including the first 5 hours of the break-in run time period of the engine.

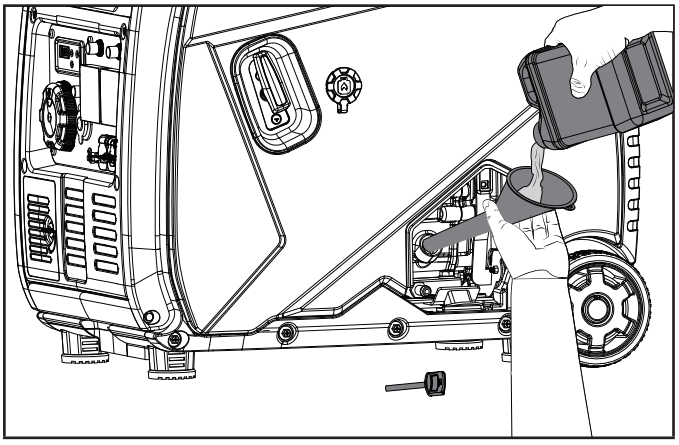
If running generator in extreme temperatures, refer to the “Recommended Engine Oil Type” chart.



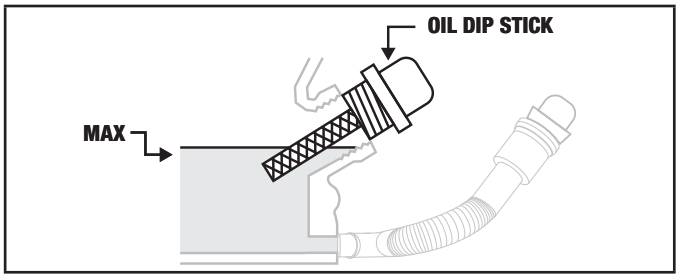
1. Place the generator on a flat, level surface.
2. Turn the oil access cover fastener to the unlocked position and remove the cover.



3. Remove oil fill cap/dipstick to add oil.
4. Using a funnel, add up to 16.9 fl. oz. (500 ml) of oil and replace oil fill cap/dipstick and secure cover. DO NOT OVERFILL.



5. Check engine oil level before each use 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.

When using the dipstick to check oil levels, Do Not screw in the dipstick. Rest it against the outer side of the port to record oil level.

A general good rule is oil is full when it can be visually seen on the middle/upper threads on the port.

NOTICE

Check oil level often during the break-in period. Refer to the Maintenance section for recommended service intervals.

⚠ CAUTION

This 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 slightly and help seat piston rings. After the 5 hour break-in period, change the oil.

NOTICE

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

Add Fuel: Petrol E5 E10

⚠ DANGER

Petrol vapors are highly flammable and extremely explosive.

DO NOT light or smoke cigarettes. Fire or explosion can cause severe burns or death.

Only fill or drain fuel outdoors in a well-ventilated area. DO NOT pump petrol directly into the generator. Use an approved container to transfer the fuel to the generator.

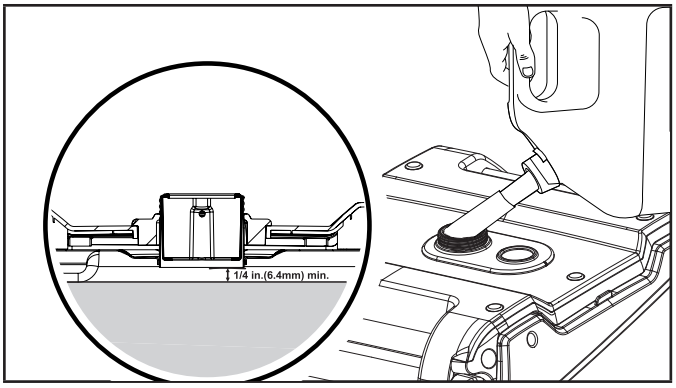
Never use a petrol container, fuel tank, or any other fuel item that is broken, cut, torn or damaged.

DO NOT overfill the fuel tank. Always keep fuel away from sparks, open flames, pilot lights, heat and other sources of ignition.

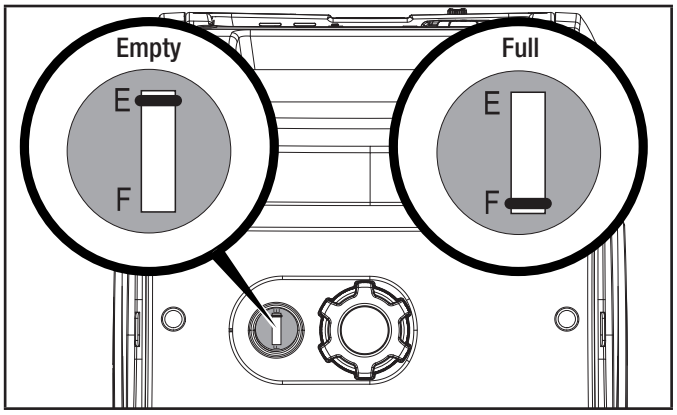
Use clean, fresh, regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of 10% or less by volume. E5 E10

This is four stroke petrol engine and requires separate oil and fuel. NEVER mix oil and fuel together.

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



3. The approximate fuel level is shown on the fuel gauge on top of the fuel tank.



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

⚠ CAUTION

Use unleaded petrol with a minimum octane rating of 85 and an ethanol content of 10% or less by volume. E5 E10

DO NOT light cigarettes or smoke when filling the tank.

DO NOT mix oil and petrol.

DO NOT overfill the tank. Fill tank to approximately ¼ in. (6.4 mm) below the top of the tank to allow for petrol expansion.

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

DO NOT fill or refuel tank indoors.

DO NOT fill tank when the engine is running or hot allow minimum 30mins cooling before refueling.

⚠ WARNING

Pouring petrol too fast through the fuel screen may result in petrol splashing over the generator and operator while filling.

NOTICE

The generator engine works well with 10% or less ethanol blended petrol. When using ethanol-gasoline blends there are some issues worth noting:

- Ethanol-petrol blends can absorb more water than petrol alone.
- These ethanol blends can eventually separate, leaving water or a watery goo in the tank, fuel valve and carburetor. The compromised gasoline can be drawn into the carburetor and cause damage to the engine and/or create potential hazards.
- If a fuel stabilizer is used, confirm that it is formulated to work with ethanol-petrol blends.
- Any damages or hazards caused by using ethanol blended petrol higher than 10% by volume, improperly stored petrol, and/or improperly formulated stabilizers, are not covered by manufacturer's warranty.

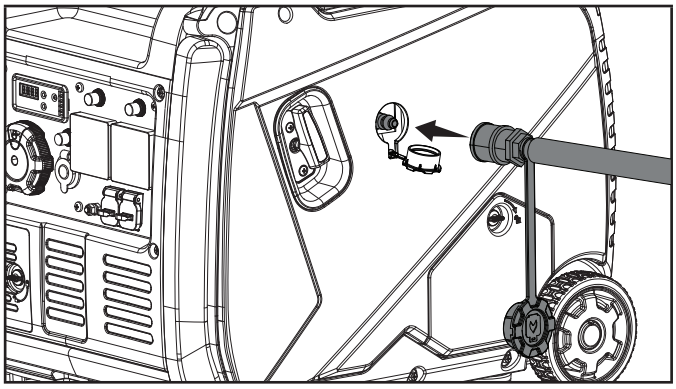
It is advisable to always shut off the petrol supply and run the engine to starvation after each use. See Storage instructions for extended non-use.

Add Fuel: Propane (LPG)

DANGER

NEVER place the LPG (liquefied petroleum gas) connector hose OR LPG cylinder tank in the path of the muffler exhaust gas stream of the generator during engine operation.

1. Confirm the dial is in the OFF position.
2. If using a new propane cylinder, remove the plastic cap from the cylinder valve.
3. Attach the LPG hose assembly (included) to the propane cylinder valve and hand tighten until snug. DO NOT OVER TIGHTEN.
4. Remove the rubber boot covering the propane connection port on the inverter.
5. Remove the rubber protective plug from the female connector of the LPG hose.
6. Insert the hose fitting into the quick connect coupling and push in until you hear a "click" and the outside collar of the quick connect coupling moves forward.



7. 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.

NOTICE

- The LPG hose included with this unit works with standard 20 and 30 pound LPG tanks.
- Verify the requalification date on the cylinder has not expired.
- 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.

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 panel 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.

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 Specifications section for specified type of grounding.*

OPERATION

Generator Location

⚠ WARNING

NEVER operate the generator inside any building, garage, basement, crawlspace, shed, enclosure or compartment, including a generator compartment of a recreational vehicle.

NEVER operate or start the generator in the back of an SUV, camper, trailer, truck bed (regular sides, flat or other configuration), under staircases, stairwells, next to walls or buildings or in any other location that will not allow for adequate cooling of the generator or for the proper exit of the exhaust flow from the muffler system.

DO NOT operate or store the generator in wet weather conditions such as rain or snow. Using a generator in wet conditions could result in serious injury or death due to electrocution.

In some state's generators may be required to be registered with the local utility company when used at construction sites and may be subject to additional rules and regulations, consult your local municipal authority.

Generators should always be operated on a flat, level surface at all times (even when not in operation).

Generators must have a minimum of 5 feet (1.5 m) of clearance from all combustible material.

Generators must also have a minimum of 3 feet (91.4 cm) of air flow clearance on all sides to allow for adequate performance cooling, maintenance and servicing.

Always place the generator in a well-ventilated area. NEVER place the generator near air intake vents or where exhaust fumes could be drawn into occupied or confined spaces.

Always carefully consider wind and air currents when positioning generator.

Always allow generators to properly cool before transport or for storage purposes.

Failure to follow proper safety precautions may result in personal injury, damage to the generator and void the manufacturer's warranty.

⚠ WARNING

During operation the muffler and exhaust fumes will become hot. If adequate cooling and breathing space are not supplied, or if the generator is blocked or enclosed, temperatures can become extremely heated and may lead to fire.Never modify or try to install any exhaust muffler extension, by doing so will result in degraded engine performance and(or) damage the generator engine.

⚠ WARNING

Do not expose to rain or use in damp locations.

Keep all objects a minimum of 5 feet (1.5m) away from the generator at all times. Heat from the muffler surface and exhaust gas stream can ignite combustible materials.

⚠ WARNING

If you must operate in rain or damp locations, DO NOT operate without proper protection of the electrical components.

Use of a safety canopy that is fire retardant and will provide proper air ventilation for the engine exhaust gas stream may be used.

Visit championpowerequipment.com or call to find your Storm Shield cover.

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.

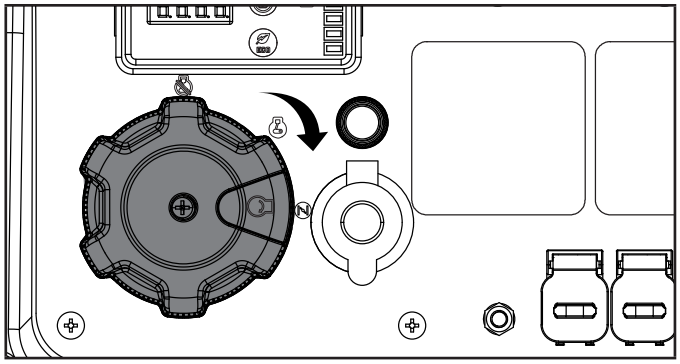
Starting the Engine: Petrol

1. Make certain the generator is on a flat, level surface.
2. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in or turned on.

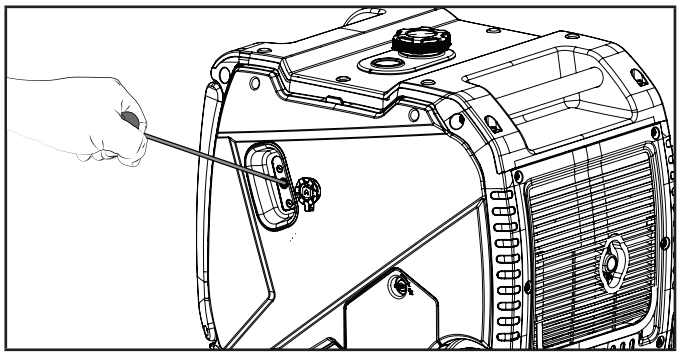
Manual Start

Cold Engine Start

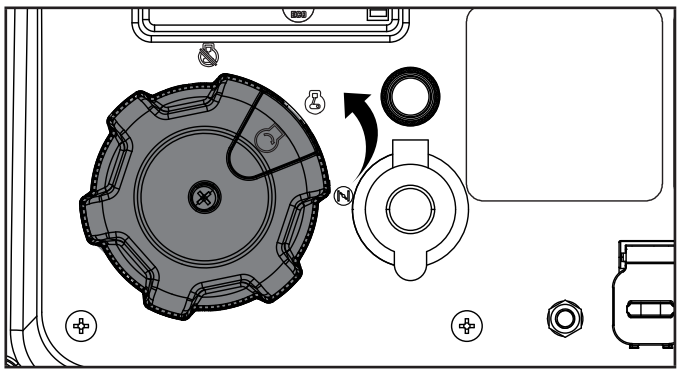
3. Move the EZ Start dial to the "CHOKE" position.



4. Pull the recoil cord slowly until resistance is felt (compression point), then release the cord slowly back use one strong rapid pull to start, if the generator does not start repeat process. DO NOT rigorously or aggressively pull the recoil otherwise it will damage cord or mechanism and result in voiding your warranty.

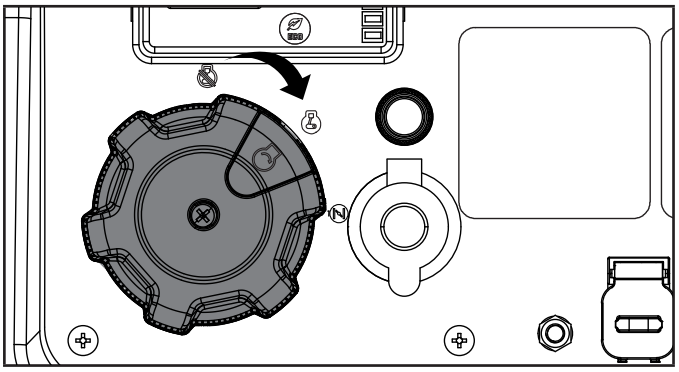


5. Do not over-choke. As soon as engine starts, turn the EZ Start dial to the "RUN" position.

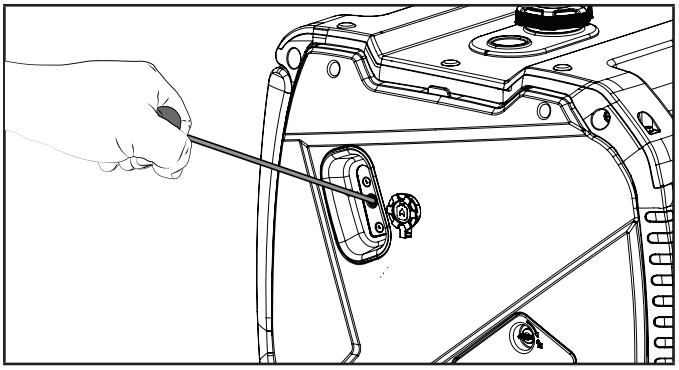


Warm Engine Start

3. Move the EZ Start dial to the "RUN" position.



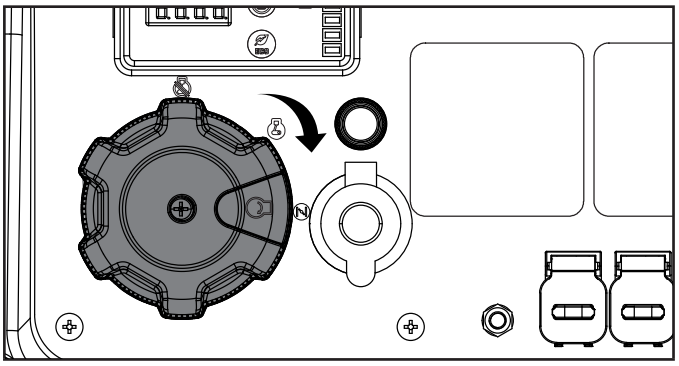
4. Pull the recoil cord slowly until resistance is felt (compression point), then release the cord slowly back use one strong rapid pull to start, if the generator does not start repeat process. DO NOT rigorously or aggressively pull the recoil otherwise it will damage cord or mechanism and result in voiding your warranty.



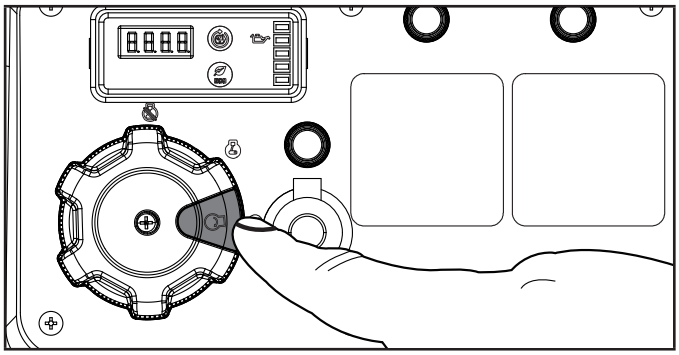
Electric Start

Cold Engine Start

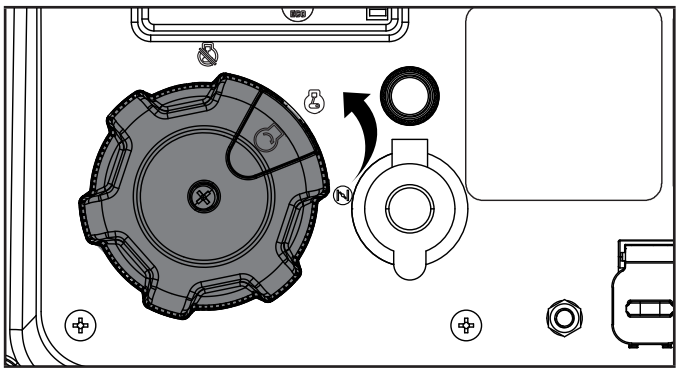
3. Move the EZ Start dial to the “CHOKE” position.



4. Press and hold the yellow ignition switch on the EZ Start Dial toward the center of the dial. Release as the engine begins to start. If the engine fails to start within five seconds, release the switch and wait at least ten seconds before attempting to start the engine again.

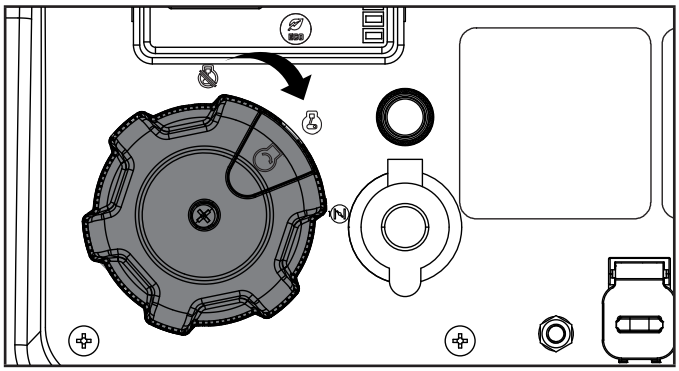


5. Do not over-choke. As soon as engine starts, turn the EZ Start dial to the “RUN” position.

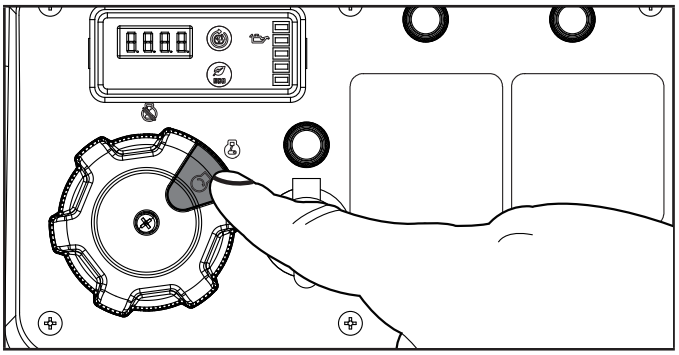


Warm Engine Start

3. Turn the EZ Start dial to the “RUN” position.



4. Press and hold the yellow ignition switch on the EZ Start Dial toward the center of the dial. Release as the engine begins to start. If the engine fails to start within five seconds, release the switch and wait at least ten seconds before attempting to start the engine again.



NOTICE

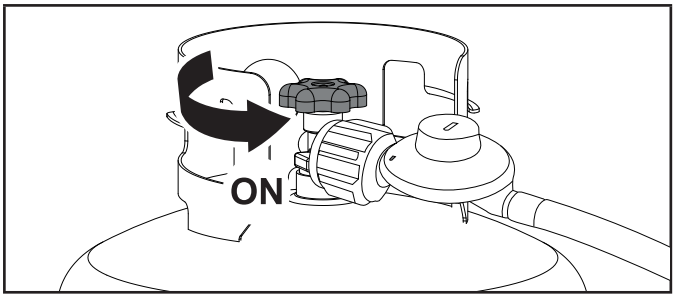
If the engine starts but does not continue to run, make certain that the generator is on a flat, level surface. The engine is equipped with a low oil sensor that will prevent the engine from running when the oil level falls below a critical threshold.

Starting the Engine: Propane (LPG)

NOTICE

Turn the generator off before attempting to switch from petrol to LPG operation.

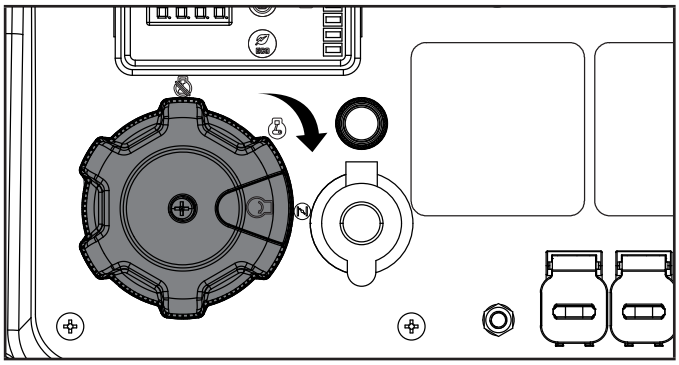
1. Make certain the generator is on a flat, level surface.
2. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in or turned on.
3. Open the fuel valve on the propane cylinder.



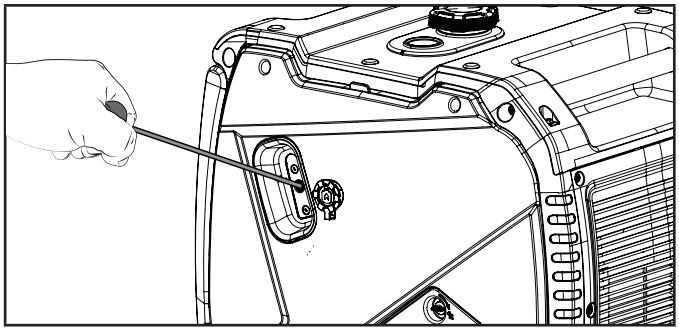
Manual Start

Cold Engine Start

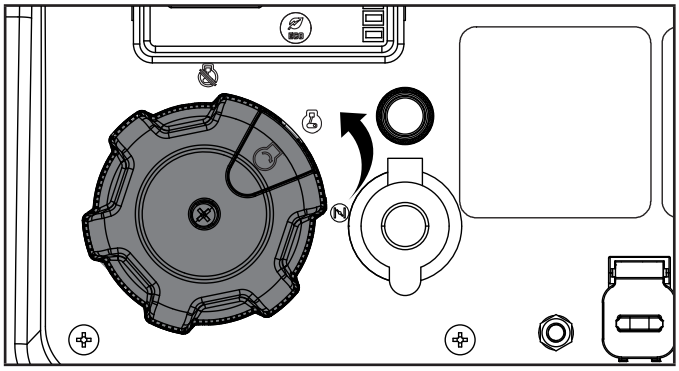
4. Move the EZ Start dial to the “CHOKE” position.



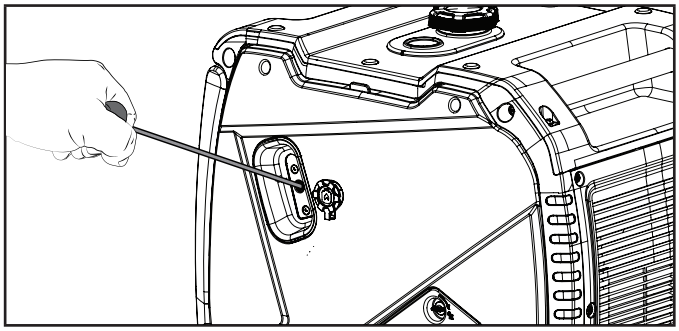
5. Slowly pull the starter cord 3-5 times to prime the engine.



6. Turn the EZ Start Dial to the “RUN” position.

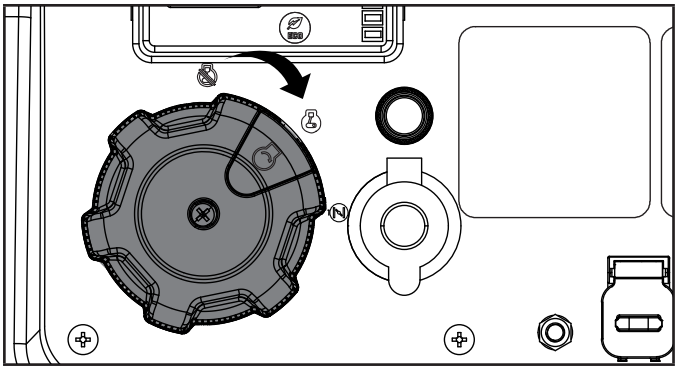


7. Pull the recoil cord slowly until resistance is felt (compression point), then release the cord slowly back use one strong rapid pull to start, if the generator does not start repeat process. DO NOT rigorously or aggressively pull the recoil otherwise it will damage cord or mechanism and result in voiding your warranty.

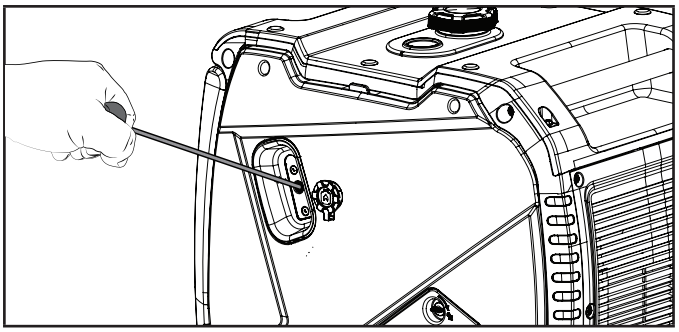


Warm Engine Start

4. Turn the EZ Start dial to the “RUN” position.



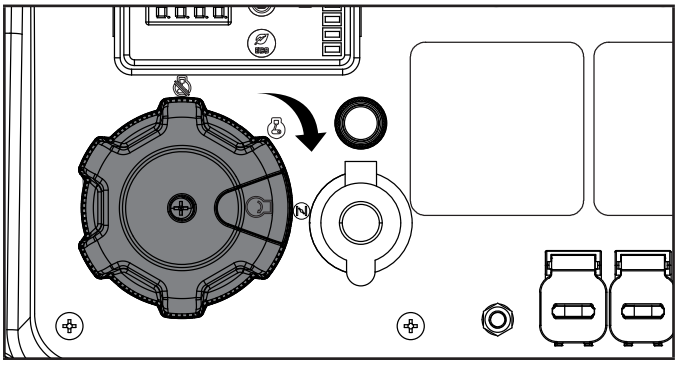
5. Pull the recoil cord slowly until resistance is felt (compression point), then release the cord slowly back use one strong rapid pull to start, if the generator does not start repeat process. DO NOT rigorously or aggressively pull the recoil otherwise it will damage cord or mechanism and result in voiding your warranty.



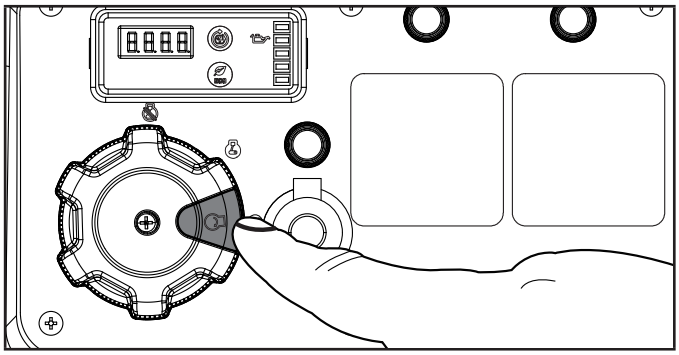
Electric Start

Cold Engine Start

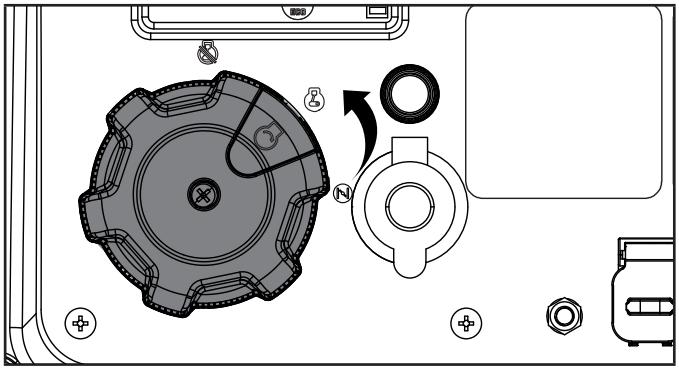
4. Move the EZ Start dial to the “CHOKE” position.



5. Press and hold the yellow ignition switch on the EZ Start Dial toward the center of the dial. Release as the engine begins to start. If the engine fails to start within five seconds, release the switch and wait at least ten seconds before attempting to start the engine again.

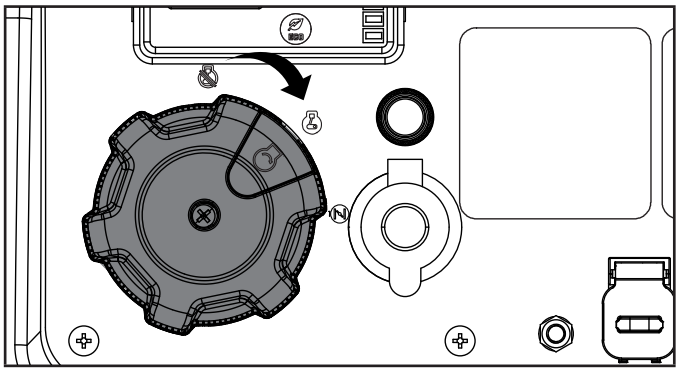


6. Do not over-choke. As soon as engine starts, turn the EZ Start dial to the “RUN” position.

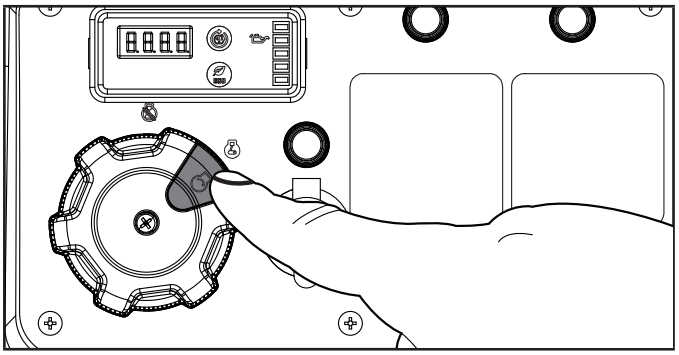


Warm Engine Start

4. Turn the EZ Start dial to the “RUN” position.



5. Press and hold the yellow ignition switch on the EZ Start Dial toward the center of the dial. Release as the engine begins to start. If the engine fails to start within five seconds, release the switch and wait at least ten seconds before attempting to start the engine again. and hold ignition switch on EZ Start Dial.



NOTICE

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.

Connecting Electrical Loads

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

Plug in and turn on the desired 240 Volt AC single phase,

50 Hz electrical loads.

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

⚠ WARNING

Always remember to plug your appliances directly into the generator and do not plug the generator power cord into any electrical outlet or connect to the circuit breaker panel in your home. Connecting a generator to your home's electric utility company's power lines, or to another power source, called 'backfeeding' is a dangerous practice that is illegal in many states and municipalities.

This action if done incorrectly could damage your generator, appliances and could cause serious injury or death to you or a utility worker when attempting to restore power during an outage occurrence in the neighborhood who may then unexpectedly encounter high voltage on the utility line and suffer a fatal shock.

Whether injuries occur or not, if installed incorrectly and not to applicable laws and codes, you may be subject to fines or the utility company may disconnect your home power should this practice be found in your home.

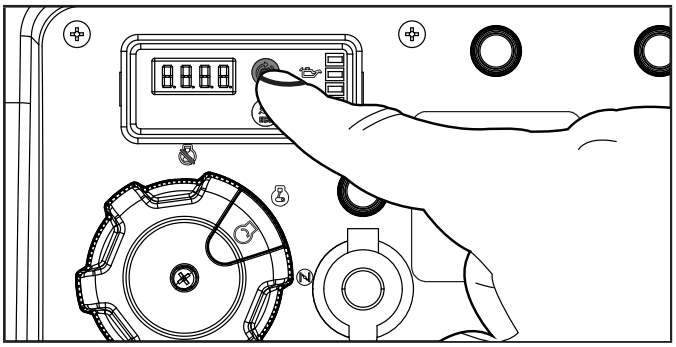
If the generator will be connected to a building electrical system, those connections must isolate the generator power from the utility power. You are responsible for ensuring your generator's electricity does not backfeed into the electric utility power lines. These connections must comply with all applicable laws and codes – Consult your local utility company or a qualified electrician to properly install this connection.

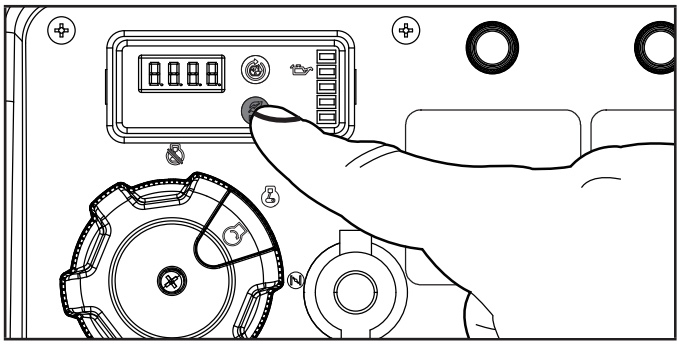
Do Not Overload Generator

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 surge 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.
4. If the generator power output is cut off due to an overload condition indicated by the AC overload blinking light, lower the load by unplugging one or more items, then press the AC overload reset button before restarting the generator for continued normal operation.





Power Management

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

Volts × Amps = 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 get up to temperature.
3. Make sure all circuit breakers are set to the run position.
4. Plug in and turn on the first item. It is best to attach the item with the largest load first.
5. Allow the engine to stabilize.
6. Plug in and turn on the next item.
7. Allow the engine to stabilize.
8. Repeat steps 5-6 for each additional item.

NOTICE

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

Eco (Economy) Mode

The Eco Mode button can be activated to turn on economy control in order to minimize fuel consumption and noise while operating the unit during times of reduced electrical output. Eco Mode allows the engine speed to idle during periods of non-use.

The engine speed returns to normal when an electrical load is connected. When the economy switch is off, the engine runs at normal speed continuously.

⚠ CAUTION

For periods of high electrical load or momentary fluctuations, the Eco Mode should be off.

12V DC Automotive Style Outlet

The 12V DC outlet(s) can be used with supplied accessories and other commercially available 12V DC automotive style plugs. Confirm the input voltage range of your item is at least 12-24V DC.

⚠ WARNING

12v DC is unregulated and not recommended for use any equipment except charging batteries.

Never try to operate both AC and DC together, only operate 1 at a time.

⚠ WARNING

Do not operate a device while it is plugged in to the 12V DC outlet.

Prolonged exposure to engine exhaust can cause serious injury or death.

⚠ WARNING

While charging a device do not place on the exhaust side of the generator. Extreme heat caused by exhaust can damage the device, and cause a potential fire hazard.

External Battery Charging

1. Before connecting the battery charging cable (not included) to a battery that is installed in a vehicle, disconnect the vehicle battery ground cable from the negative (–) battery terminal.
2. Plug the battery charging cable into the 12V DC receptacle of the generator.
3. Connect the red (+) battery charger lead to the red (+) battery terminal.

4. Connect the black (–) battery charger lead to the black (–) battery terminal.
5. Start the generator.

Important: The 12V DC outlet is ONLY to be used with supplied accessories and other commercially available 12V DC automotive style plugs. Be sure all electric devices including the lines and plug connections are in good condition before connection to the generator.

⚠ WARNING

Do not start the vehicle while the battery charging cable is connected and the generator is running. It will not give the battery a boost of power. The vehicle or the generator may be damaged. Charge only vented wet lead acid batteries. Other types of batteries may burst, causing personal injury or damage.

NOTICE

Be sure all electric devices including the lines and plug connections are in good condition before connection to the generator.

Parallel Operation

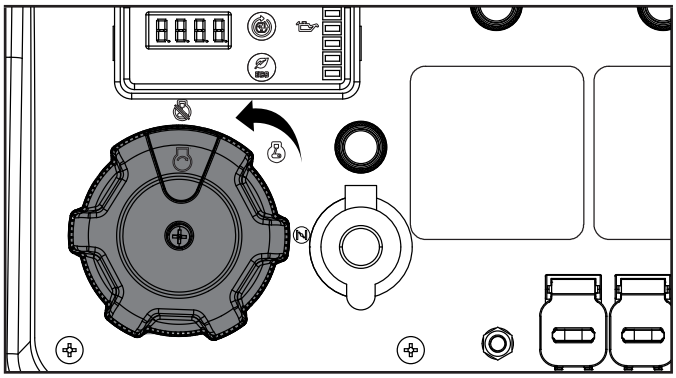
This section has had a template updated. Use below text

The Champion model 500988-UK is parallel ready and can be operated in parallel with another Champion unit to increase the total available electrical power. A Champion parallel kit (optional equipment) is required for parallel operation. Model 75500i-WL-UK is the recommended model for this unit. For a list of compatible models or to order a parallel kit, please call customer service at +44(0)-1942-715-407 or visitwww.championpowerequipment.co.uk.Detailed instructions for parallel kit installation and operation of the connected generators are provided in the parallel kit operator's manual.

Stopping the Engine

Petrol

1. Turn off and unplug all electrical loads. Never start or stop the generator with electrical devices plugged in or turned on.
2. Let the generator run at no-load for several minutes to stabilize internal temperatures of the engine and generator.
3. Turn the EZ Start dial to the "STOP" position.

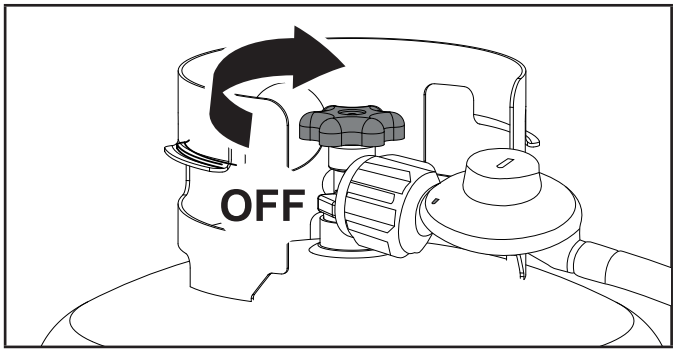


Propane

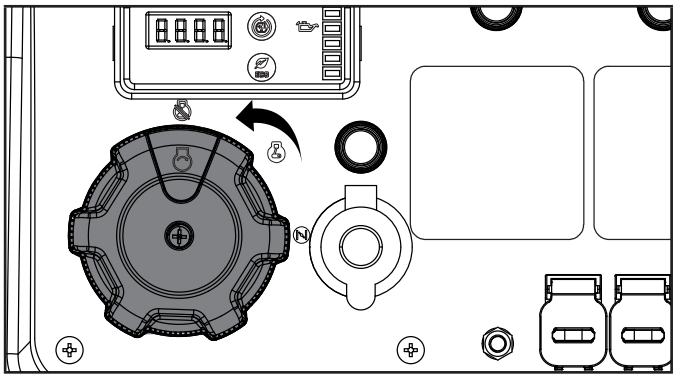
1. Turn off and unplug all electrical loads. Never start or stop the generator with electrical devices plugged in or turned on.
2. Let the generator run at no-load for several minutes to stabilize internal temperatures of the engine and generator.
3. Close the fuel valve on the propane cylinder.

⚠ WARNING

When using propane the engine ignition switch is disabled and will not work, the only way to stop the generator is to close the LPG valve on the bottle. This is a safety design.



4. Turn the EZ Start dial to the "STOP" position.



NOTICE

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

Moving the Generator

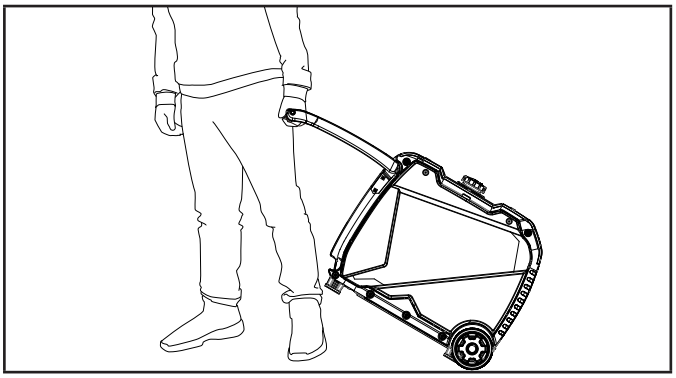
⚠ CAUTION

- NEVER lift or carry the generator using the folding handle.
- NEVER tilt sideways while moving the generator.
- ALWAYS place the generator on its wheels in the upright position.
- ALWAYS turn the generator off and ensure the fuel valve is closed.
- ALWAYS make sure engine and exhaust/muffler are cooled down before the generator can be handled safely (typically 15-30 minutes).

⚠ WARNING

The folding handle is not long enough to hold and walk with a full stride when moving the generator. Always side step as you walk to avoid injury to your heels and/or feet. Failure to follow these instructions could result in personal injury or damage to the generator.

1. Begin by raising the folding handle, found on opposite side of wheels.
2. Using the handle, tilt the end of the generator slightly off the ground until balanced on the wheels.
3. While maintaining balance, roll the generator to the desired location.



Operation at High Altitude

The density of air at high altitudes 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. At high altitudes increased exhaust emissions can also result due to the increased enrichment of the air fuel ratio. Other high altitude issues can include hard starting, increased fuel consumption and spark plug fouling.

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

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

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
16100-Z3R0310-00A0	16161-Z152210-00A0	3000 ft. (914 m)
	16161-Z152010-00A0	6000 ft. (1829 m)

⚠ WARNING

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

MAINTENANCE

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

⚠ WARNING

Never operate a damaged or defective generator.

⚠ WARNING

Improper maintenance will void your warranty. The owner/user is responsible for service and maintenance of the generator including oil, spark plug, spark arrestor, filters and valve adjustments. Improper servicing or maintenance of this generator will void any warranty.

NOTICE

For Emission control devices and systems, read and understand your responsibilities for service as stated in the Emission Control Warranty Statement of this manual.

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 +44(0)-1942-715-407.

Cleaning the Generator

⚠ CAUTION

Do Not spray, pressure or power wash generator directly with water otherwise you can cause damage to electrical system.

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

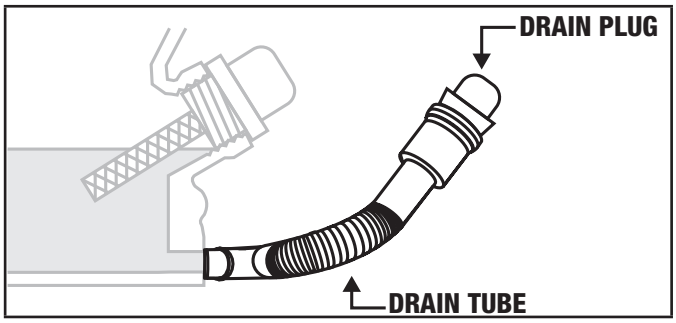
1. Use a damp cloth to clean exterior surfaces of the generator.
2. Use a soft bristle brush to remove dirt and oil.
3. Use an air compressor (25 PSI) to clear dirt and debris from the generator.
4. Inspect all air vents and cooling slots to ensure that they are clean and unobstructed.

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

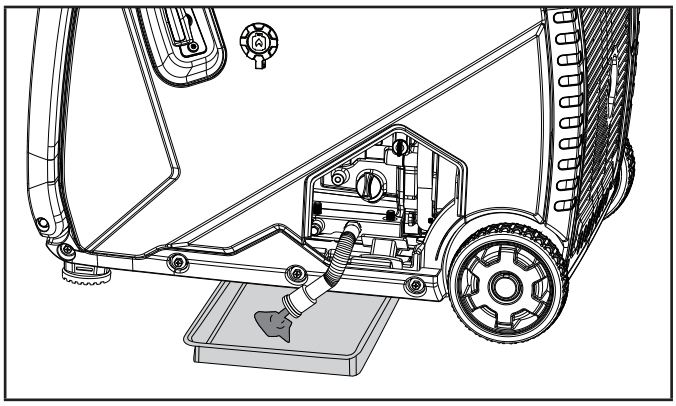
Changing the Engine Oil

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

1. Place the generator on a flat level surface.
2. Turn the oil access cover fastener to the unlocked position and remove the cover.
3. Remove the oil drain plug by turning it counter clockwise.



4. Ensure the oil drain hose is lower than the engine and allow the oil to drain completely into an appropriate container.



5. Replace the oil drain plug.
6. Add oil according to *Add Engine Oil* in *Assembly* section. DO NOT OVERFILL. Oil not included for routine maintenance.
7. Dispose of used oil at an approved waste management facility.

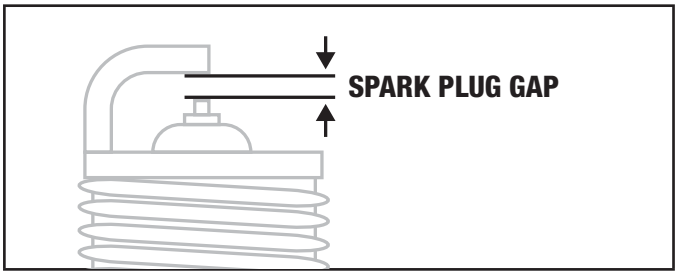
NOTICE

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.As a general rule on a flat level surface oil is full when it can be visually seen on the middle-upper threads of the port, Do Not overfill otherwise it will result it poor engine performance and(or) damage to the engine

Cleaning and Adjusting the Spark Plug

1. Remove the non recoil side maintenance cover by removing the two screws with a phillips head screw driver (included).
2. Remove the spark plug cable from the spark plug.
3. Use a spark plug socket tool (included), or a 17 mm socket (not included) to remove the plug.

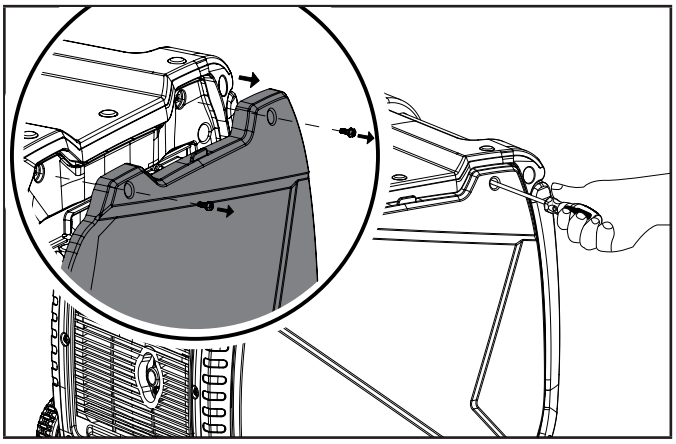
4. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.
5. Make certain the spark plug gap is 0.028-0.031 in. (0.7-0.8 mm).



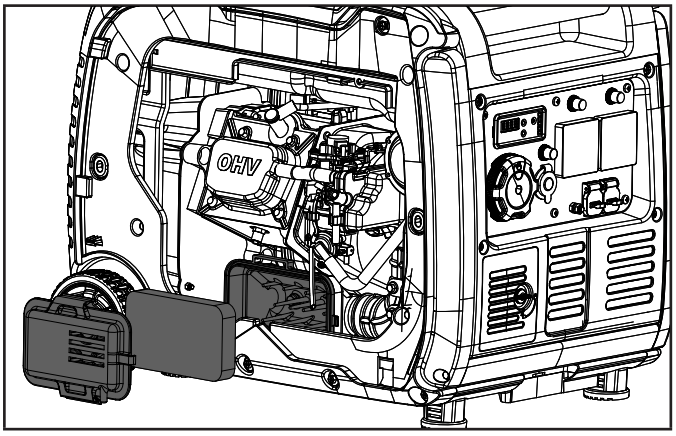
6. Refer to the spark plug types in Specifications when replacing the plug.
7. Firmly re-install the plug.
8. Attach the spark plug cable to the spark plug.
9. Reinstall the maintenance cover.

Cleaning the Air Filter

1. Remove the non recoil side maintenance cover by removing the two screws with a phillips head screw driver (included).



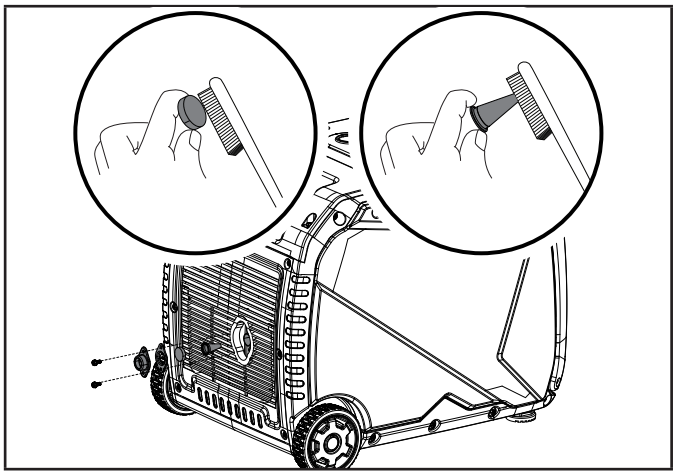
2. Locate the air filter plastic cover and remove by pinching the clips together and pulling the cover off.



3. Remove the foam element.
4. Wash in liquid detergent and water. Squeeze thoroughly dry in a clean cloth.
5. Saturate in clean engine oil.
6. Squeeze in a clean, absorbent cloth to remove all excess oil.
7. Place the filter in the assembly.
8. Reattach the air filter cover.
9. Reinstall the maintenance cover and tighten the cover screw securely.

Cleaning the Spark Arrestor

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



5. Replace the spark arrestor and spark arrestor screen if it they damaged.
6. Position the spark arrestor and spark arrestor screen on the muffler and cover plate and screws removed in step 2.

⚠ CAUTION

Failure to regularly check or clean the spark arrestor will result in degraded engine performance and(or) damage the engine. Recommended every 100 hours check or clean spark arrestor.

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.

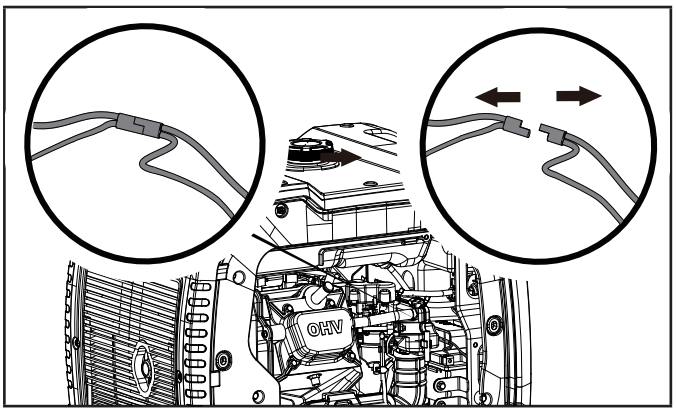
Generator Battery

Your generator is equipped with an automatic battery charging circuit that charges the battery while the engine is running. The battery will maintain a proper charge if the unit is used at least once every 180 days for 2 hours with ECO mode off. If it is used less frequently, the battery should be connected to a trickle charger or battery maintainer (not included) to keep the battery properly charged.

Maximum charging rate should not exceed 1.6 amps. Follow the instructions included with the battery charger. The battery should be fully charged at least twice per year. 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. Pull two halves of battery connector apart.



Charge the Battery

For a generator equipped with batteries for electric starting, proper battery maintenance and storage should be followed. A trickle charger or battery maintainer should be used to charge the battery while the generator is in storage. Maximum charging rate should not exceed 1.6 amps. Follow the instructions included with the trickle charger or battery maintainer. The battery should be fully charged at least once per month.

1. Remove the battery from the generator.
2. Charge battery following the battery charger's instructions.
3. After charging, leave the battery for 0.5 to 1 hour before checking the voltage. If the voltage is less than 12.8 volts, additional charging is necessary.

NOTICE

Electrolyte inside the battery is harmful to skin and eyes. If the battery leaks and electrolyte gets in your eyes, do not rub them. Instead, rinse them with clean running water and immediately seek medical attention. If left untreated, electrolyte can cause permanent eye injury.

NOTICE

- Do not charge the battery with charging voltage over 15.0V and charging current over 1.6A.
- Do not charge the battery below 32°F (0°C) or above 113°F (45°C).
- If the battery becomes hot to the touch, stop charging. Allow battery to cool before resuming.

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 +44(0)-1942-715-407 for all other service and/or adjustment needs.

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 +44(0)-1942-715-407 to locate the nearest CPE certified service dealer for your generator or engine maintenance needs.

EVERY 8 HOURS OR PRIOR TO EACH USE

- ☐ Check oil level
- ☐ Clean around air intake and muffler

FIRST 5 HOURS (BREAK IN)

- ☐ Change oil

EVERY 50 HOURS OR ANNUALLY

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

EVERY 100 HOURS OR ANNUALLY

- ☐ Change oil Champion PowerX 10w30 oil
- ☐ Clean/adjust spark plug
- ☐ Clean spark arrestor
- ☐ Clean fuel valve filter*

EVERY 250 HOURS

- ☐ Clean combustion chamber*
- ☐ Check/adjust valve clearance*

EVERY 3 YEARS

- ☐ Replace fuel line*

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

STORAGE

⚠ WARNING

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 EZ Start dial is set to the “OFF” position.

NOTICE

The following storage instructions apply when petrol has been used to run the generator. NOTE: LPG does not apply and will not create build up or clog the carburetor.

Short to Mid Term Storage (up to 1 year)

Petrol in the fuel 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. Petrol in the carburetor, however, may gum up and clog the carburetor if it isn’t used or drained within 2-4 weeks.

If using the generator within 2 weeks, follow the steps according to *Stopping the Engine* section.

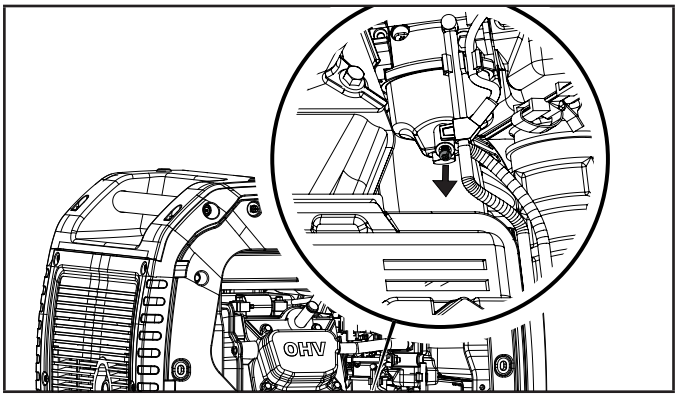
1. If not using the generator for more than 2 weeks, begin by making sure all appliances are disconnected from the generator.
2. Add a properly formulated fuel stabilizer to the fuel tank.
3. Start engine by following directions in the *Starting the Engine* section.

4. Run the generator for 10 minutes so the treated petrol cycles through the fuel system and carburetor.
5. Turn the EZ Start dial to the “STOP” position.
6. After the engine has stopped, allow the engine to cool.
7. Remove the non recoil side maintenance cover by removing the two screws with a phillips head screw driver (included).
8. Remove the spark plug and pour about a tablespoon of oil into the cylinder.
9. SLOWLY pull the recoil to rotate the engine to distribute and lubricate the cylinder.
10. Re-install the spark plug and spark plug wire.
11. Re-install the maintenance cover.
12. Clean the generator according to *Cleaning the Generator*.
13. Store the generator in a cool, dry place out of direct sunlight.

Long Term Storage (more than 1 year)

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

1. Be sure all appliances are disconnected from generator.
2. Place inverter on blocks to allow appropriate gasoline container or pan to slide under inverter.
3. Remove the non recoil side maintenance cover by removing the two screws with a phillips head screw driver (included).
4. Turn the EZ Start dial to the full “RUN” position.
5. Using a flat head screwdriver (included), rotate drain screw counterclockwise (3) full turns. Gasoline will drain through clear tubing out underneath the inverter. Make sure draining gasoline empties into an appropriate container.



6. When gasoline stops flowing from the clear tube, rotate drain screw clockwise until tight. Properly dispose of the drained gasoline according to local regulations or guidelines.
7. Turn the EZ Start dial to the “STOP” position.
8. Follow steps 7-13 according to Short to Mid Term Storage.

Removing from Storage

NOTICE

If the generator has been improperly stored for a period longer than 30 days with ethanol blended gasoline in the gasoline tank and/or carburetor, all fuel must be drained and the carburetor must be thoroughly cleaned of ethanol build up. This process involves technically advanced tasks. For assistance please call our Technical Support Team at +44(0)-1942-715-407.

If the gasoline tank and carburetor were properly emptied of all ethanol blended gasoline prior to the generator being stored, follow the below steps when removing from storage.

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.

1. Be sure the EZ Start dial is in the “STOP” position.
2. Add gasoline to the generator according to *Add Fuel.*
3. Move the EZ Start dial to the “RUN” position.
4. After 5 minutes check the carburetor and air filter areas for any leaking gasoline. If any leaks are found, the carburetor will need to be disassembled and cleaned or replaced. If no gasoline leaks are found, turn the EZ Start dial to the “STOP” position.
5. Check engine oil level and add clean, fresh oil if needed. See Oil Specifications for proper oil type.
6. Check and clear air filter of any obstructions such as bugs or cobwebs. If necessary, clean air filter according to Cleaning the Air Filter.
7. Start the generator according to Starting the Engine.

SPECIFICATIONS

Generator Specifications

Generator Model	500988-UK
Start Type	Electric, Manual
Watts (Max/Running)	3600/3500
Watts (LPG) (Max/Running)	3600/3150
Volts AC	240
AC Amps @ 240V	14.6
Volts DC	12
DC Amps	8
Frequency	50 Hz
Phase	Single
Grounding Type	Neutral Floating
Weight	100.8 lb. (45.7 kg)
Length	23.2 in. (59 cm)
Width	17.7 in. (45 cm)
Height	20.1 in. (51 cm)

Engine Specifications

Model	R210N-V
Displacement	212 cc
Type	4-Stroke OHV

Spark Plug

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

Valve

Intake Clearance	0.002-0.006 in. (0.05-0.15 mm)
Exhaust Clearance	0.002-0.006 in. (0.05-0.15 mm)

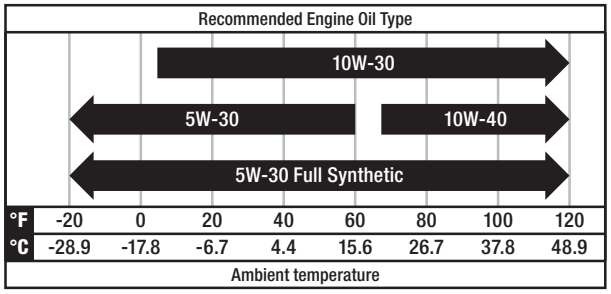
NOTICE

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

Oil Specifications

DO NOT OVERFILL.

Type	*See following chart
Capacity	16.9 fl. oz. (500 ml)



NOTICE

Temperature will affect engine oil and engine performance. Change the type of engine oil used based on temperature shown in the *"Recommended Engine Oil Type"* table.

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	2.3 gal. (8.5 L)

Propane (LPG)

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

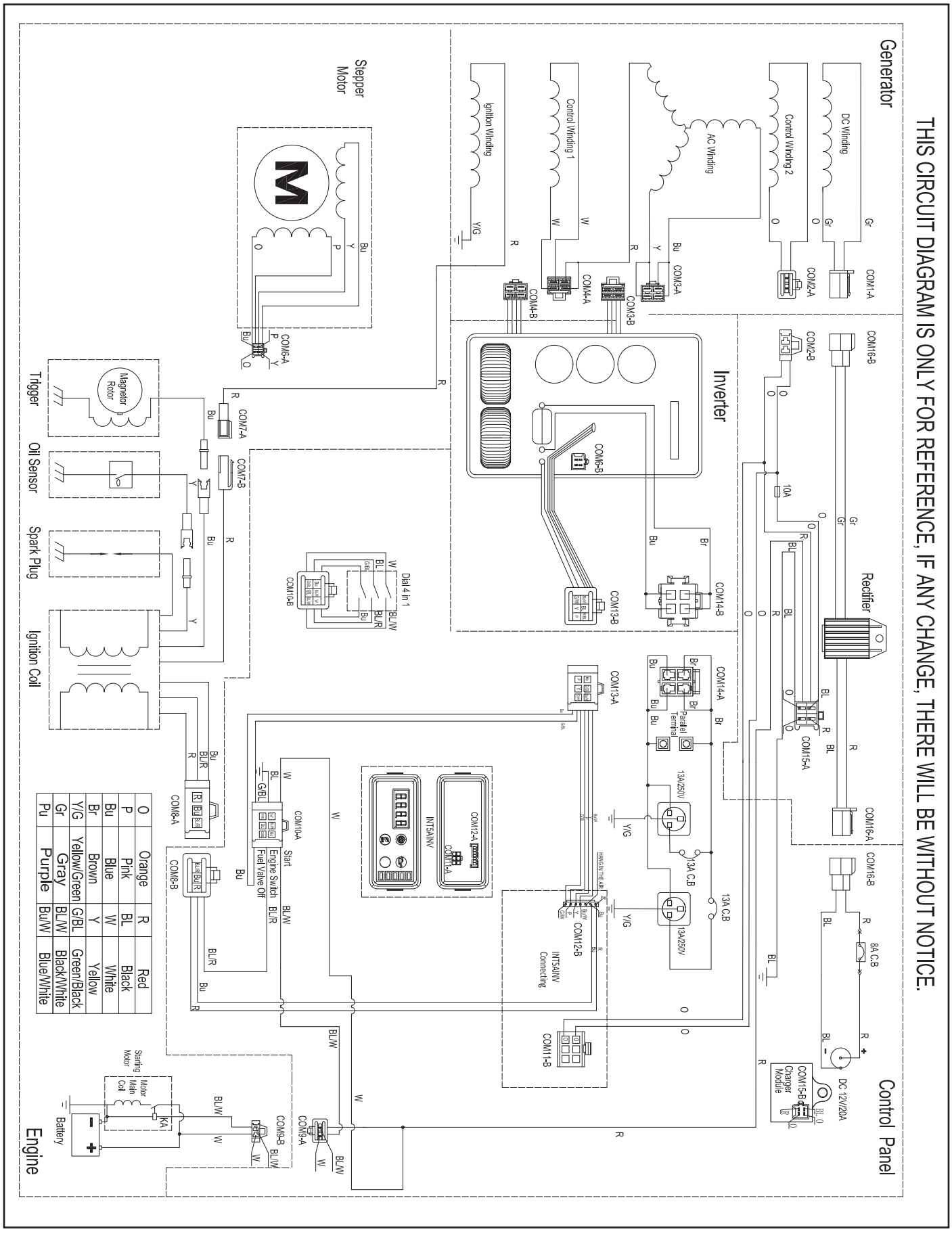
Temperature Specifications

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

NOTICE

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

Wiring Diagram



Parts Diagram Figure A

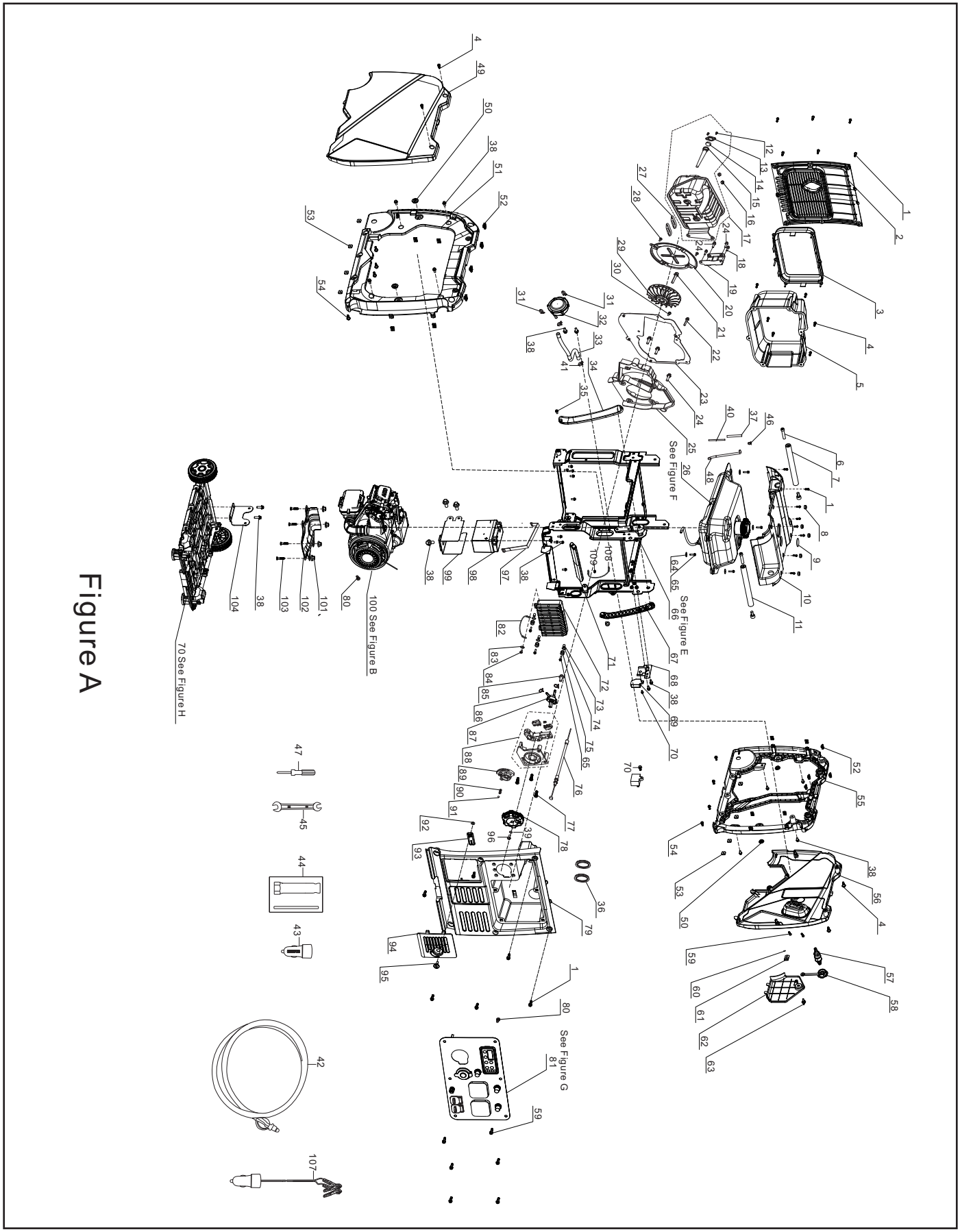


Figure A

Parts List

#	Part Number	Description	Qty.
1	90208-YB00410-00A0	Hexagon Step Bolt, M5 x 16, 6.5mm, Black Zinc	20
2	18002HYBW0110-Q2A1	Louver, Muffler	1
3	18018-Y2P0120-00A1	Insulator Glue Cushion, Muffler	1
4	90208-YB00210-00A0	Hexagonal Step Bolt, M5 x 12, Black Zinc	10
5	18130HYBW0110-Q2A1	Muffler Guard	1
6	90115-0830-03A0	Hexagon Socket Bolt, M8 x 30, Black Zinc	4
7	80153HYBW0210-H8A1	Handle 2, Ø28 x 332	1
8	90722-YBW0110-00A1	Plug 1, End	6
9	37205-Y2V0310-00A1	Oil Lever View, Fuel Gauge	1
10	94230HYBW0110-Q2A0	Cover, Upper	1
11	80153HYBW0110-H8A1	Handle 1, Ø28 x 273	1
16	90303-0800-31A0	Hexagon Nut, M8, White Zinc	2
17	18100-YBW0111-00A0	Muffler Assembly	1
12	18012-Z800310-0000	Bolt, Spark Arrestor	2
13	18213-Z800310-0000	Cover Plate, Spark Arrestor	1
14	18218-Z800210-0000	Muffling Block	1
15	18250-Z800210-0000	Spark Arrestor	1
18	90007-0612-A1A0	Hexagon Flange Bolt, M6 x 12, White Zinc	2
19	18030HYBW0110-H7A0	Muffler Bracket	1
20	18020-YBW0110-00A0	Plate, Muffler Insulator	1
21	90001-0820-01A0	Hexagon Flange Bolt, M8 x 20, White Zinc	1
22	90007-0635-A1A0	Hexagon Flange Bolt, M6 x 35, White Zinc	1
23	18299HYBW0121-00A0	Bracket, Muffler Guard	1
24	90001-0816-01A0	Hexagon Flange Bolt, M8 x 16, White Zinc	5
25	28110HYBW0111-Q2A0	Shroud	1
26	96003-ZSS2210-0000	Fuel Tank Assembly - See Figure F	1
27	18001-Z950110-00A0	Exhaust Outlet Gasket	2
28	90134-YB00110-00A0	Bolt, Cross Hexagon Pan Head, M5 x 12	2
29	19352HYBW0110-Q2A0	Cooling Fan	1
30	90124-Y9T0310-00A0	Tapping Screw, PT4×13	1
31	90748-0812-00A0	Clamp	2

#	Part Number	Description	Qty.
32	77100-Z3R0311-00A0	Regulator, Auxiliary	1
33	90729-YMQ0110-00A0	Vent Pipe	1
34	54912HYBW0111-Q2A1	Rotating Arm, Left	1
35	90001-0612-03A0	Hexagon Flange Bolt, M6 x 16, Black Zinc	2
36	30431-Y2V0310-00A1	Rubber Sleeve, Φ30 × Φ40 × 9.8	2
37	30431-YBW0210-00A1	Rubber Sleeve, Ø10 x Ø11 x 180	1
38	90001-0612-01A0	Hexagon Flange Bolt, M6 x 12, White Zinc	26
39	90408-0400-E1A0		1
40	30431-Y020110-00A1	Rubber Sleeve, Fuel Pipe	1
41	90748-1222-00A0	Clamp	2
42	77300HYMQ0110-00A0	LPG Hose With Regulator	1
43	35613-YBE0110-0000	12VDC USB Adapter	1
44	93130-Z010410-0100	Spark Plug Socket	1
45	93107-Y920210-01A0	Wrench, 8 x 10	1
46	90685-D105-0EA0	Clamp, Ø10.5 x 8 x 0.8	2
47	93120-Y020310-00A0	Screwdriver	1
48	16804-YG80110-0001	Connection Pipe	1
49	80092HYMQ0110-L4A0	Cover Board, Left	1
50	16601-Y2V0210-00A1	Vibration Mount 2, Fuel Tank	4
51	80091HYBW0110-Q2A1	Shell, Left	1
52	17199-YE50210-01A0	Clip Nut, M5, White Zinc	16
53	90326-Y2V0110-00A0	Square Nut, M6, White Zinc	8
54	90208-YB00110-00A0	Hexagonal Step Bolt, M6 x 20, Black Zinc	8
55	80095HYBW0110-Q2A1	Shell, Right	1
56	80096HYMQ0110-L4A0	Cover Board, Right	1
57	16021-YJR0210-00A0	Inlet Connection	1
58	90722-YJR0110-00A0	Plug, Gas	1
59	90255-0512-53A0	Cross Recess Pan Head Screw & Washer Assembly, M5×12, Black Zinc	8
60	37073-Y2V0110-00A0	Clip, Spring	1
61	24329-Y9T0120-Q2A1	Block 1	1
62	51197HYH30110-L4A0	Side Access Panel, Service	1

#	Part Number	Description	Qty.
63	80105-YB00110-Q2A1	Knob, Side Access Panel, Service	1
64	90408-Y020310-00A0	Flat Washer, White Zinc	4
65	90001-0625-01A0	Hexagon Flange Bolt, M6 x 25, White Zinc	7
66	96003-ZSS7810-0000	Frame Assembly - See Figure E	
67	54912HYBW0211-Q2A1	Right, Rotating Arm	1
68	51124-YJR0110-0000	Mounting Bracket	1
69	30060-YB30110-00A0	Regulator	1
70	90001-0616-03A0	Hexagon Flange Bolt, M6 x 16, Black Zinc	2
71	54913-YBW0110-GUA0	Rotating Bar	1
72	30043-YMR0110-00A0	Inverter	1
73	90683-Y2P0210-00A0	Bushing	3
74	90406-0600-E1A0	Flat Washer, Ø6, White Zinc	3
75	30431-Y2P0110-00A1	Rubber Sleeve	3
76	16080-YBW0110-00A0	Choke Handle Subassembly	1
77	90129-0416-01A0	Cross Recess Countersunk Head Tapping Screw, ST4.2×16, White Zinc	3
78	35643HYH30210-Q2A1	Knob, Switch Dial, Engine	1
79	35680HYBW0110-Q2A1	Control Panel Housing	1
80	90001-0610-01A0	Hexagon Flange Bolt, M6 x 10, White Zinc	2
81	35610-YMQ0110-H2A1	Panel Assembly - See Figure G	1
82	30009-YH30110-00A0	Grounding Wire	1
83	90408-0500-E1A0	Flat Washer, Ø5, White Zinc	1
84	90005-0408-09A1	Hexagon Bolt, M4 x 8, White Zinc	1
85	90001-0614-01A0	Hexagon Flange Bolt, M6 x 14, White Zinc	1
86	90685-D080-0EA0	Clamp, Ø8 x 7 x 0.6	2
87	16750-Y2V0210-00A0	Fuel Valve Assembly	1
88	35160-YH30111-00A0	Switch, Engine	1
89	94111-Y2V0410-00A1	Cover Board	1
90	16527-Y2V0210-00A0	Spring, Stopper Adjusting	1
91	90543-0500-00A0	Ball, Steel	1
92	90341-YA50110-00A0	Nylon Nut	1
93	24329-YCF0110-Q2A1	Block 2	1
94	31123HYBW0110-Q2A1	Cover, Battery	1
95	90208-Y9T0120-00A0	Hexagonal Step Bolt, M5 x 16, 6mm	1
96	90103-0416-51A0	Cross Recess Pan Head Screw, M4 x 16, White Zinc	1
97	31115-YBW0110-00A1	Clamp, Battery	1
98	31110-Y030610-00A0	Battery	1
99	31130-YBW0210-H6A0	Battery Holder	1
100	R210DNVI0F0B-CMP06	Engine, 212cc - See Figure B	1
101	90305-0800-31A0	Hexagon Flange Nut, M8, White Zinc	4
102	19306-Z1D0110-00A0	Crankcase Air Deflector	1
103	90001-0840-01A1	Hexagon Flange Bolt, M8 x 40, White Zinc	4
104	17003HYBW0110-H7A1	Air Cleaner Support	1
105	96003-ZSS7710-0000	wheel kit - See Figure H	1
106	30007-Y9X0210-00A0	Charging Module	1
107	93041-YBE0110-00A0	Battery Charger Cables	1
108	30009-YE50210-00A0	Grounding Wire	1
109	90415-0600-Z3A1	Lock Washer, Toothed, Black Zinc	1

Parts Diagram Figure E

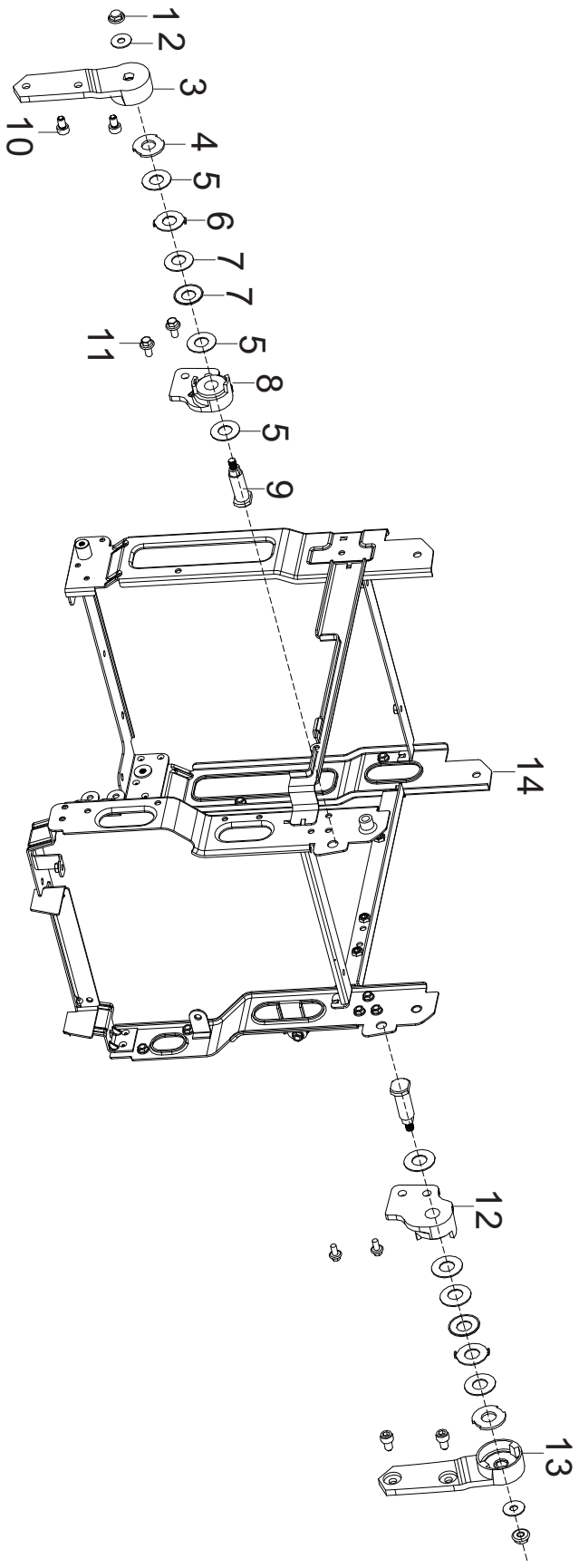


Figure E

Parts List

#	Part Number	Description	Qty.
1	90341-Y2D0210-00A0	Nylon Nut, M6, White Zinc	2
2	90408-Y840210-00A0	Flat Washer, Ø18 x 6.5 x 1.5, White Zinc	2
3	54122-YBW0110-H7A0	Handle Tube Connecting 2, Left Seat	1
4	90412-YBW0110-Q2A0	Flat Washer, Ø12.2 x 27 x 2	2
5	90412-YBW0210-01A0	Flat Washer, Ø13 x 25 x 1, White Zinc	6
6	42017-YG80110-09A0	Lock Washer	2
7	90419-YBW0110-03A0	Washer, Butterfly, Black Zinc	4
8	54113-YBW0120-00A0	Handle Tube Connecting 1, Left Seat	1
9	26231-YBW0110-00A0	Shaft, Fixed Axis, Black Zinc	2
10	90001-0610-03A0	Hexagon Flange Bolt, M6 x 10, Black Zinc	4
11	90007-0616-A1A0	Hexagon Flange Bolt, M6 x 16, White Zinc	4
12	54113-YBW0220-00A0	Handle Tube Connecting 1, Right Seat	1
13	54122-YBW0210-H7A0	Handle Tube Connecting 2, Right Seat	1
14	51100-YJR0110-H7A0	Frame Assembly	1

Parts Diagram Figure F

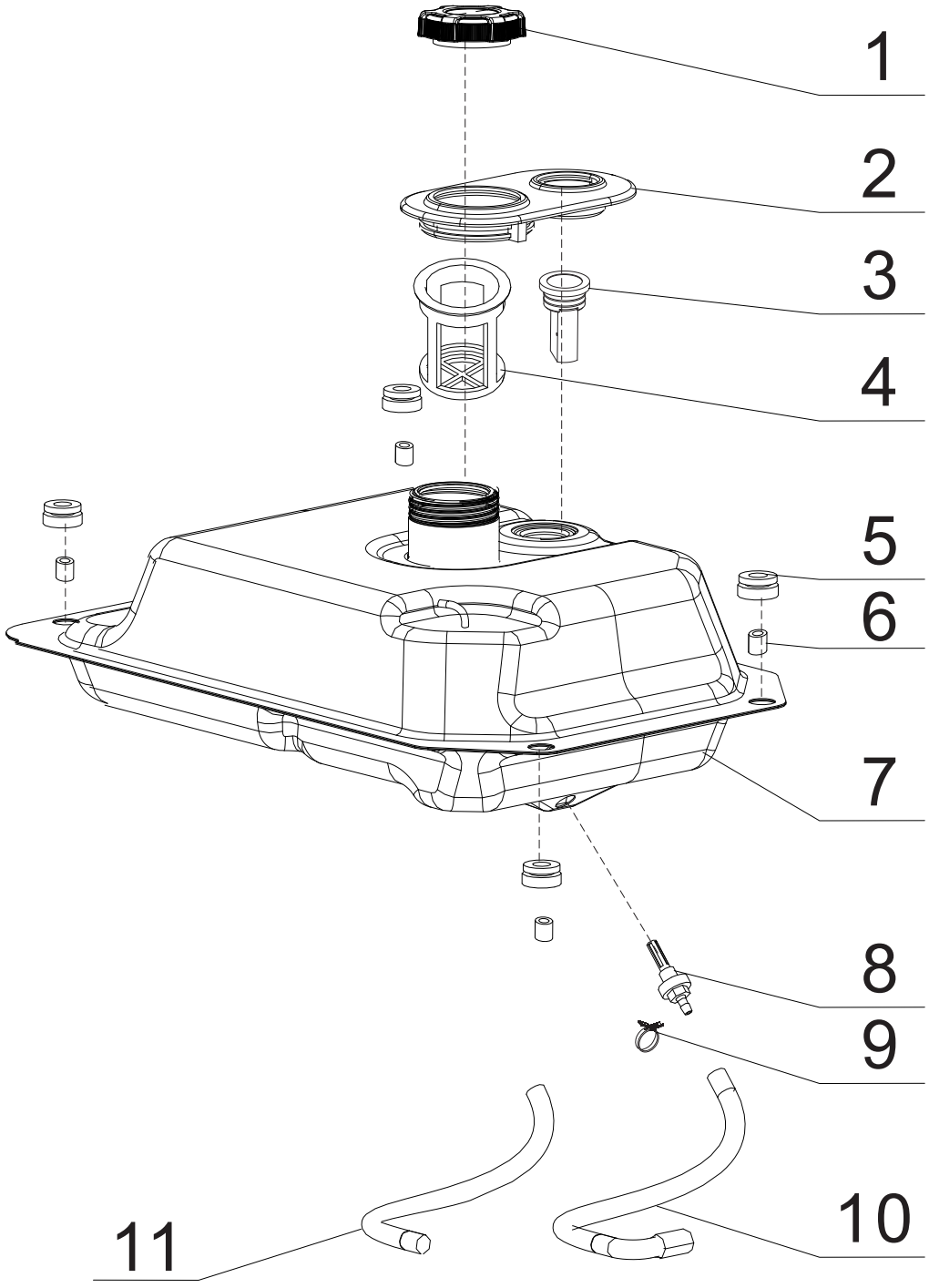


Figure F

Parts List

#	Part Number	Description	Qty.
1	16730-YH30110-Q2A0	Fuel Tank Cap	1
2	16641-YBW0110-00A1	Rubber Sleeve, Filling Oil Hole	1
3	37200-Y5V0110-00A1	Fuel Gauge	1
4	16652-Y9T0110-00A1	Fuel Filter	1
5	16601-Y020120-00A1	Vibration Mount 1, Fuel Tank	4
6	90683-Y020110-00A0	Bushing, White Zinc	4
7	16620-YBW0111-H7A1	Fuel Tank	1
8	16680-Y2P0110-00A1	Fuel Tank Fuel Outlet Subassembly	1
9	90685-D095-0EA0	Clamp, Ø9.5 x 0.8 x 8, Army Green Zinc	1
10	90686-YBW0210-00M1	Fuel Pipe, Ø4.5 x Ø8.5 x 130	1
11	30431-Y020110-00A1	Rubber Sleeve, Fuel Pipe	1

Parts Diagram Figure G

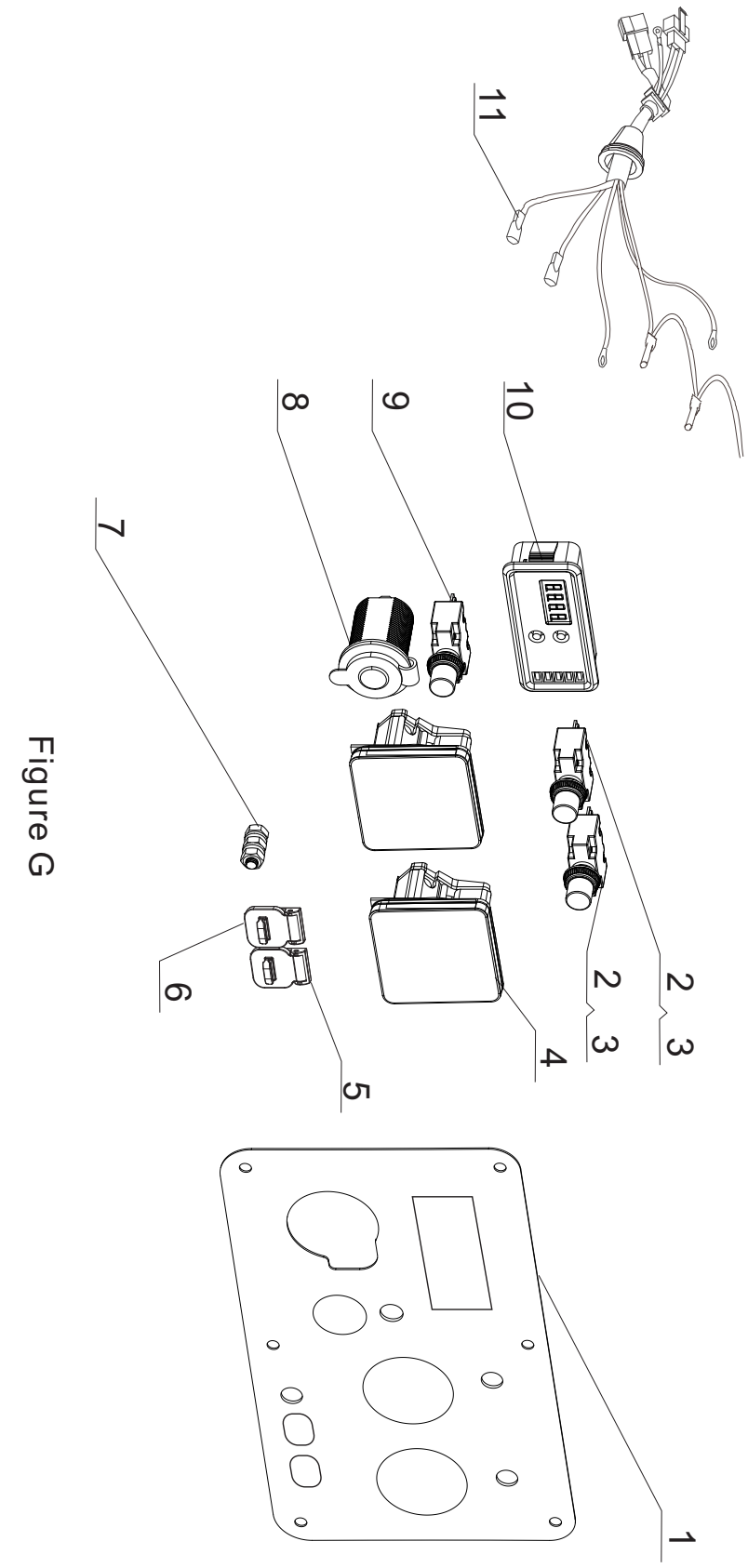
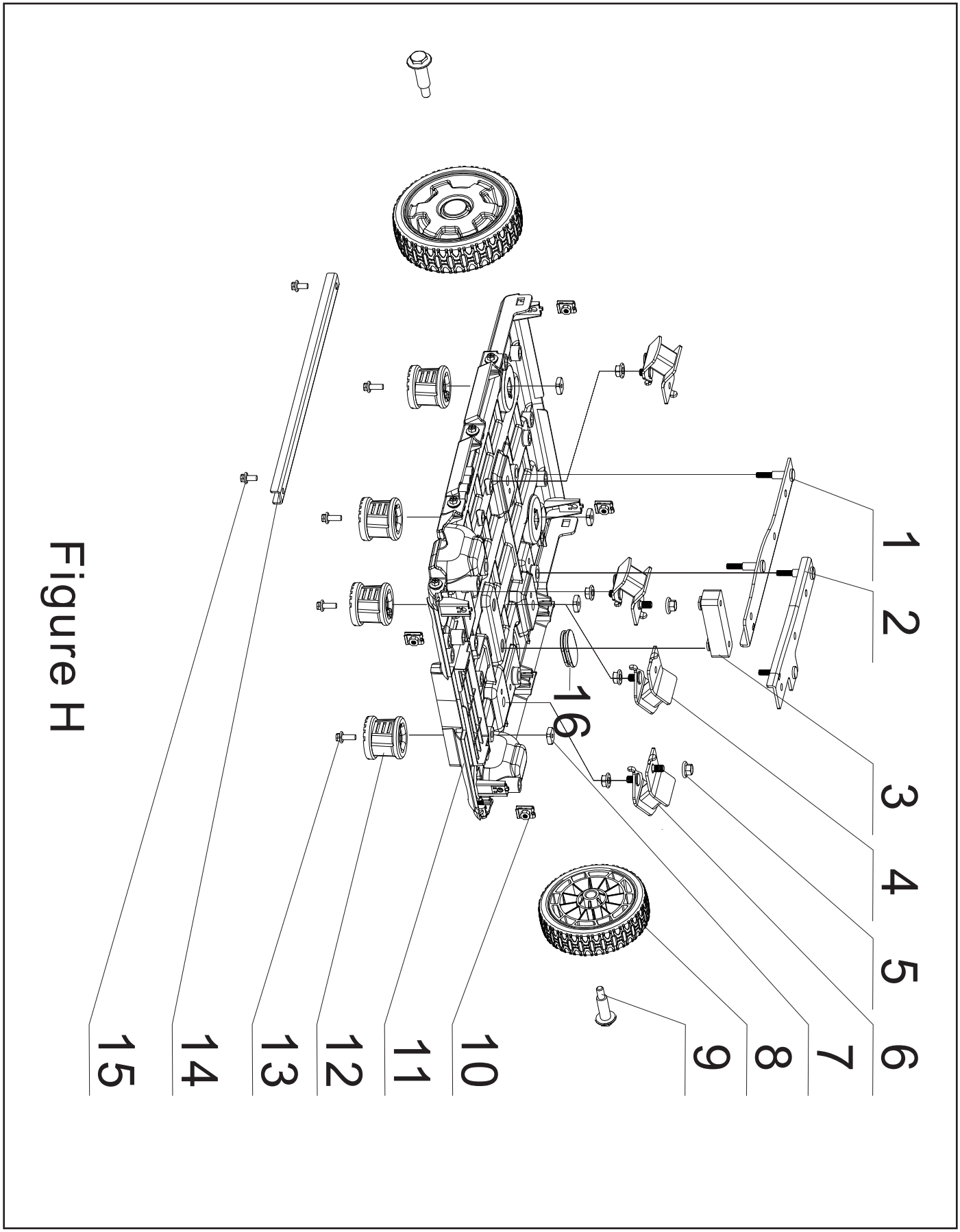


Figure G

Parts List

#	Part Number	Description	Qty.
1	35650-YMQ0110-H2A1	Control Panel	1
2	35654-YGK0110-0000	Cover, Push Button	2
3	31234-YGK0310-0000	13 Amp Circuit Breaker, Push Button	2
4	35614-Y020410-0000	Receptacle, 30A, 125V	2
5	35614-YMQ0210-0000	Wireless Parallel, Black	1
6	35614-YMQ0110-0000	Wireless Parallel, Red	1
7	35629-Y090110-0000	Grounding Terminal	1
8	35619-Y110110-0000	Automotive Receptacle, 12V DC	1
9	31234-YBE0110-0000	8Amp Circuit Breaker, Push Button	1
10	35632-YMQ0110-0000	Multifunctional Display	1
11	35660HYMQ0110-0000	Wire Harness, Control Panel	1

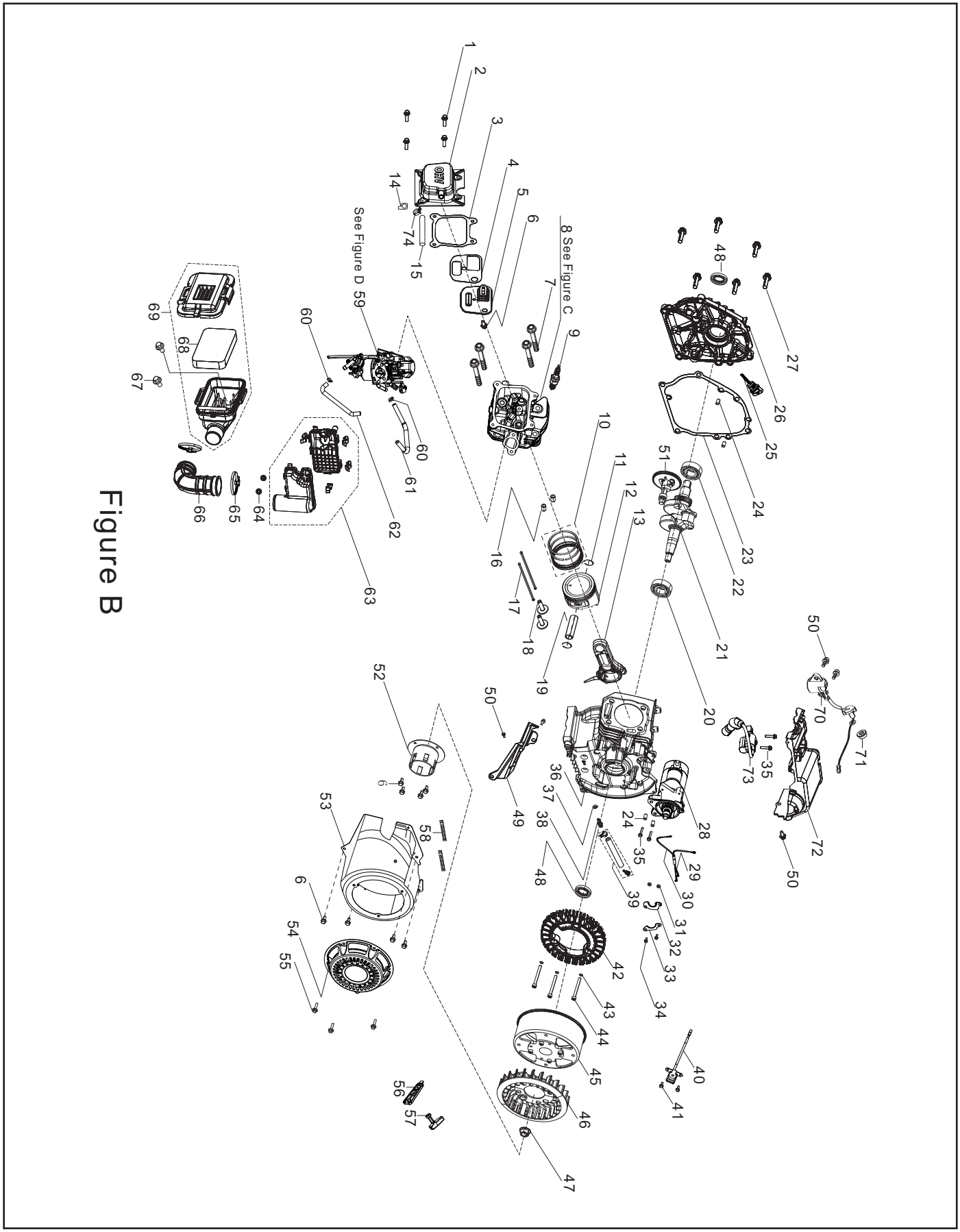
Parts Diagram Figure H



Parts List

#	Part Number	Description	Qty.
1	51188HYBW0110-H6A0	Left Support, Engine	1
2	51189HYBW0110-H6A0	Right Support, Engine	1
3	50035-YBW0110-00A1	Bracket, Cushion Rubber	1
4	51011HY2P0210-00A0	Vibration Mount, Right, Frame	2
5	90305-0800-31A0	Hexagon Flange Nut, M8, White Zinc	6
6	51009HY2P0110-00A0	Vibration Mount, Left, Frame	2
7	90326-Y2V0110-00A0	Square Nut, M6, White Zinc	6
8	44110HYH30110-L4A0	5in. Wheel, Yellow	2
9	42002-YH30110-03A0	Roll Pin, M8×15, Black Zinc	2
10	17199-YB00110-00A0	Clip Nut, M5, White Zinc	4
11	51143HYBW0111-Q2A1	Plate, Bottom	1
12	51014HYBW0110-00A1	Support Leg	4
13	90001-0616-01A0	Hexagon Flange Bolt, M6 x 16, White Zinc	4
14	51103-YJR0110-H7A0	Reinforcing Plate, Black Zinc	1
15	90001-0612-01A0	Hexagon Flange Bolt, M6 x 12, White Zinc	2
16	90722-Y2P0110-00A1	Plug 2, End	1

Engine Parts Diagram Figure B



Engine Parts List

#	Part Number	Description	Qty.
1	90001-0620-01A0	Hexagon Flange Bolt, M6 x 20, White Zinc	4
2	12410-Z1D0111-00A0	Cylinder Head Cover Subassembly	1
3	12004-Z1D0110-00A0	Cylinder Head Cover Gasket	1
4	11332-Z1D0110-00A0	Gasket, Breath Groove Cover	1
5	11320-Z1D0110-00A0	Piece, Breath	1
6	90001-0612-01A0	Hexagon Flange Bolt, M6 x 12, White Zinc	9
7	12003-Z010110-00A0	Cylinder Head Bolt, M8 x 60, White Zinc	4
8	96003-ZSS2010-0000	Cylinder Head - See Figure C	1
9	30010-Z010110-00A0	Spark Plug, F6RTC	1
10	13200-Z140210-00A9	Piston Ring Assembly	1
11	13122-Z010110-00A0	Piston Pin Clip	2
12	13111-Z950120-00A0	Piston	1
13	13010-Z950110-00A0	Connecting Rod	1
14	90804-Y5Z0210-0001	Stop Block	1
15	17004-Z1D0110-00A0	Tube, Breather	1
16	90502-1114-00A0	Pin, Ø11 x 14	2
17	14071-Z950110-00A0	Valve Lifter	2
18	14081-Z040110-00A0	Valve Tappet	2
19	13121-Z010110-00A0	Piston Pin, Ø18 x Ø54	1
20	90547-6305-00A1	Bearing 1	1
21	13300-Z1D0110-00A1	Crankshaft Assembly	1
22	90547-0205-00A0	Bearing 2	1
23	11001-Z010120-00A0	Crankcase Gasket	1
24	90502-0812-00A0	Pin, Ø8 x 12	4
25	15010-Z010210-Q2A0	Oil Dipstick Subassembly	1
26	11411-Z1D0110-00A0	Crankcase Cover	1
27	90001-0832-01A0	Hexagon Flange Bolt, M8 x 32, White Zinc	6
28	30300-Z1D0210-0000	Starting Motor Assembly	1
29	31112HYH30310-00A0	DC Wire Harness, Battery	1
30	31114HYH30210-00A0	DC Wire Harness, Engine	1
31	90305-0500-31A0	Hexagon Flange Nut, M5,White Zinc	2
32	54066-YE50110-09A0	Wiring Clamp, White Zinc	1
33	30002-Z1D0110-00A0	Magneto Wiring Clamp	1
34	90001-0520-01A0	Hexagon Flange Bolt, M5 x 20, White Zinc	2
35	90001-0628-01A0	Hexagon Flange Bolt, M6 x 28, White Zinc	4
36	11310-Z1D0110-00A9	Crankcase Subassembly	1
37	90408-Z010510-00A0	Flat Washer, Ø10 x Ø15.8 x 1.5	1
38	90689-Z430211-00A0	Joint, Fuel Pile, White Zinc	1
39	11011HZ1D0210-L4A0	Oil Drain Hose	1
40	30130-Z1D0310-0000	Trigger	1
41	90001-0516-01A0	Hexagon Flange Bolt, M5 x 16, White Zinc	2
42	30120-YMR0110-00A0	Stator Component, Ø152 x 38	1
43	90408-0600-E1A0	Washer, Ø6, White Zinc	3
44	90102-0660-06A0	Hexagon Socket Cap Screw, M6 x 60	3
45	30110-YH30110-00A0	Rotor Component	1
46	19352-Z1D0110-00A0	Cooling Fan, Engine	1
47	13501-Z010110-00A0	Flywheel Nut, M14 x 1.5, White Zinc	1
48	90682-Z010110-00A0	Oil Seal, Ø25 x Ø41.25 x 6	2
49	19309-Z1D0110-00A0	Right Shield, Crankcase	1
50	90001-0616-01A0	Hexagon Flange Bolt, M6 x 16, White Zinc	5
51	14200-Z1D0110-00A9	Camshaft Assembly	1
52	28002-Z1D0210-00A0	Starter Pulley	1
53	28110-Z1D0110-H600	Shroud	1
54	28200-Z1D0410-H600	Recoil Starter Assembly	1
55	90251-0608-03	Bolts and Washer Assembly	3
56	28004-YHX0110-Q200	Guide Plate, Starter Rope	1
57	28210-YEB0110-L400	Handle, Starter Rope	1
58	90684-Z030120-00A0	Clip, 100 mm	2
59	96003-ZSS7410-0000	Carburetor Assembly	1
60	90748-0812-00A0	Clamp, Ø8×12	2
61	90729-YEY0310-00A0	Hose, Ø6.3 x Ø13 x 260	1
62	90729-YEY0411-00A0	Hose, Ø6.3 x Ø13 x 210	1
63	17400-Z1D0112-00A0	Air Cleaner, Auxiliary	1

#	Part Number	Description	Qty.
64	90305-0600-31A0	Hexagon Flange Nut, M6, White Zinc	2
65	12081-Z1D0110-00A0	Clamp 1	2
66	12510-Z1D0110-00A1	Inlet Pipe	1
67	90001-0625-01A0	Hexagon Flange Bolt, M6 x 25, White Zinc	2
69	17100-Z1D0112-00A1	Air Cleaner	1
68	17151-Z1D0110-0000	Element, Air Cleaner	1
70	37060-Z1D0112-0000	Engine oil Sensor, W/O Nut	1
71	90305-Z010210-01A0	Hexagon Flange Nut, M10, White Zinc	1
72	16675-Z1D0112-00A0	Shield	1
73	30400-Z1D0311-0000	Ignition Coil	1
74	90685-Z120110-00A0	Clamp, Ø14	1

Engine Parts Diagram Figure C

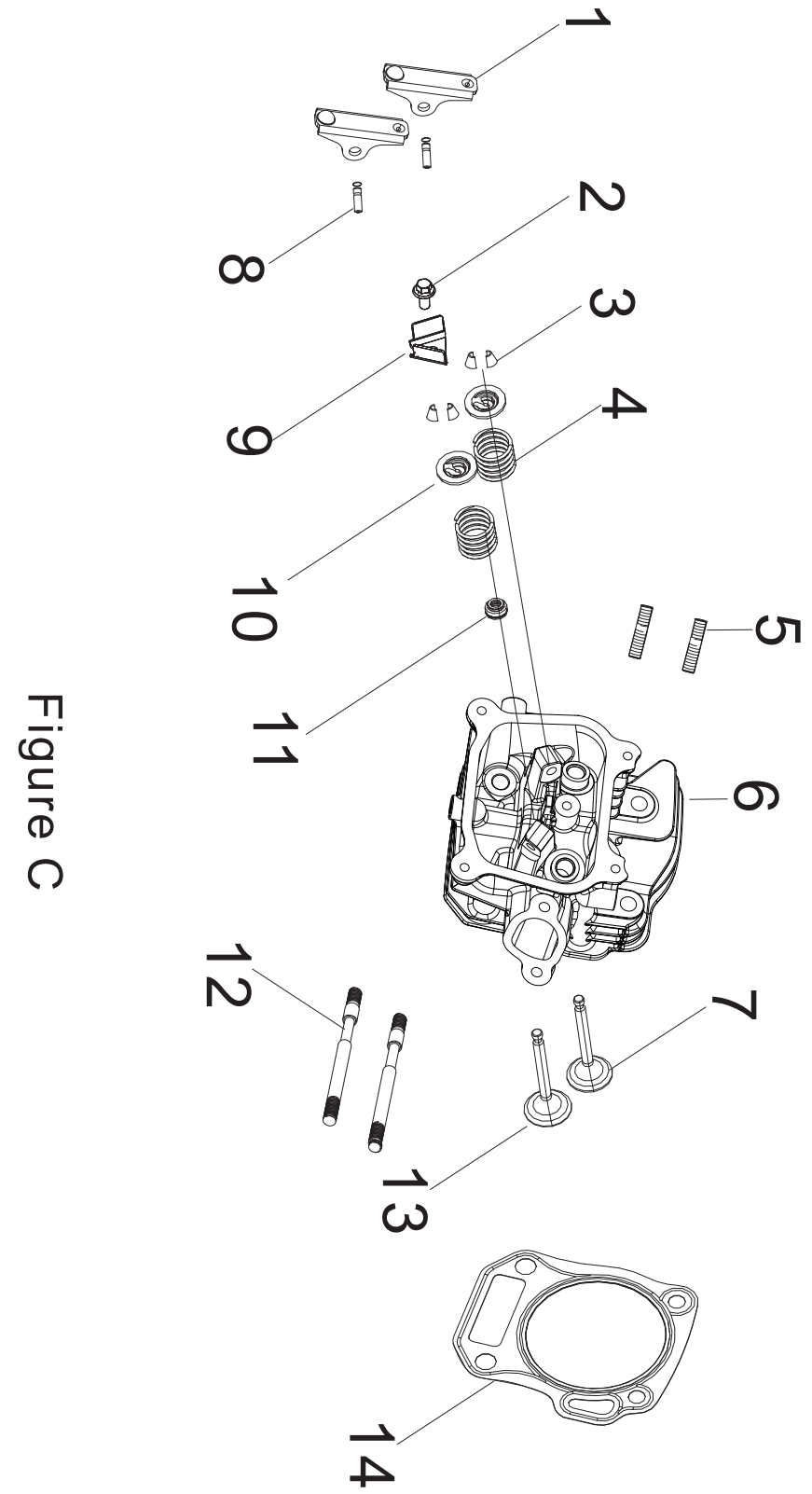
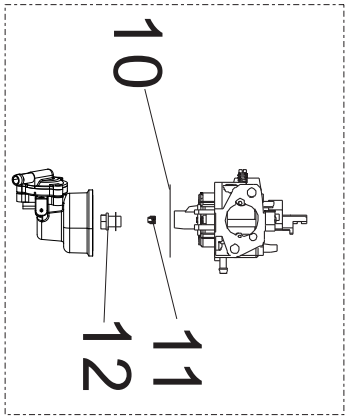


Figure C

Engine Parts List

#	Part Number	Description	Qty.
1	14310-Z950110-00A0	Valve Rocker Subassembly	2
2	90001-0612-01A0	Hexagon Flange Bolt, M6 x 12, White Zinc	1
3	12109-Z810110-00A0	Valve Lock Clamp	4
4	12103-Z010110-00A0	Valve Spring	2
5	90203-Z010110-00A0	Stud, M8 x 34, Black Zinc	2
6	12140-Z950310-00A0	Cylinder Head Subassembly	1
7	12121-Z950110-00A0	Exhaust Valve	1
8	14318-Z950110-00A0	Valve Rocker Shaft Subassembly	2
9	12419-Z950311-00A0	Pin Plate, Cylinder Head Cover	1
10	12112-Z810210-00A0	Valve Spring Retainer	2
11	12101-Z810210-00A0	Seal Guide	1
12	90207-Z330210-00A0	Stud, M6 x 105, Black Zinc	2
13	12111-Z950110-00A0	Inlet Valve	1
14	12131-Z950210-00A0	Cylinder Head Gasket	1

Engine Parts Diagram Figure D



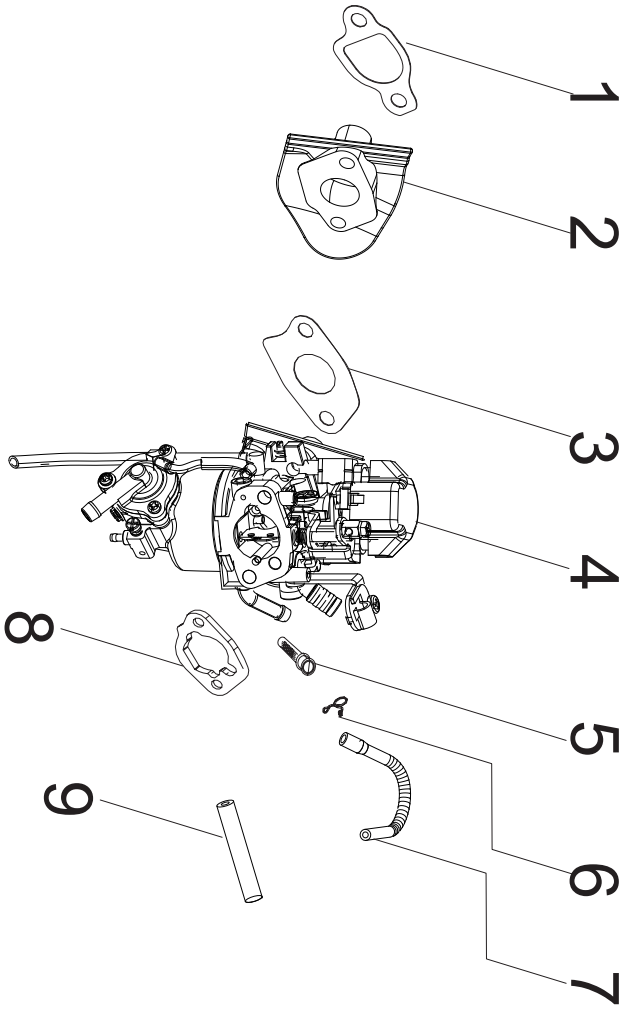


Figure D

Engine Parts List

#		Part Number	Description	Qty.
1		16002-Z950110-00A0	Carburetor Insulator Gasket	1
2		16003-Z1D0110-00A0	Carburetor Insulator Plate	1
3		16001-Z010110-00A0	Carburetor Gasket	1
4		16100-Z3R0310-00A1	Carburetor Assembly	1
	10	16112-Z010110-0000	Seal Ring, Float	1
	11	16161-Z152410-00A0	Main Jet(83#)	1
		16161-Z152210-00A0	Main Jet(81#), Altitude 3000-6000 Feet	/
		16161-Z152010-00A0	Main Jet(79#), Altitude 6000-8000 Feet	/
	12	90681-Z010610-0000	Seal Ring	1
5		16652-Z800110-00A0	Fuel Filter	1
6		90685-D090-0EA0	Clamp, Ø9 x Ø0.8 x 8, Army Green Zinc	1
7		90686-YBW0310-00M0	Fuel Pipe, Ø4.5 x Ø8.5 x 260	1
8		17001-Z1D0110-00A0	Air Cleaner Gasket	1
9		30431-YBW0210-00A0	Rubber Sleeve	1

TROUBLESHOOTING

Problem	Cause	Solution
Engine will not start.	No fuel.	Add fuel.
	Faulty spark plug.	Clean and adjust spark plug or replace.
	Low oil level.	Fill crankcase to the proper level.
		Place generator on a flat, level surface.
	Spark plug wire loose.	Attach wire to spark plug.
	Fuel valve is closed.	Open fuel valve.
	Old fuel or water in fuel.	Drain fuel and replace with fresh fuel.
	Flooded with fuel.	Let unit stand for 10 mins.
Engine starts but runs roughly.	Choke in the wrong position.	Move EZ Start Dial to the RUN position.
	Dirty air filter.	Clean or replace air filter.
	Dirty fuel valve.	Clean the fuel valve.
	Clogged spark arrestor.	Clean spark arrestor.
Engine will not start electrically.	Generator battery is dead.	Recharge generator battery.
	Battery switch is in the OFF position.	Turn battery switch to ON position.
Engine 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.
	Clogged spark arrestor.	Clean spark arrestor.
Generator cannot supply enough power or overheating.	Generator is overloaded.	Review load and adjust. See “Connecting Electrical Loads.”
	Dirty air filter.	Clean or replace air filter.
	Choke in wrong position.	Move EZ Start Dial to the RUN position.
Engine is running but no AC output.	Poor cord connection.	Check all connections.
	Circuit breaker is open.	Reset circuit breaker.
	Loose wiring.	Inspect and tighten wiring connections.
	AC Overload: Button illuminated red	Reduce AC load and press Overload Reset Button until illuminated green.
	Other.	Contact the help line.
Engine hunts or falters.	Engine governor defective.	Contact the help line.
	Dirty fuel valve.	Clean the fuel valve.
	Carburetor is dirty and running lean.	Contact the help line.
	Choke in wrong position.	Move EZ Start Dial to the RUN position.
DUAL FUEL MODELS ONLY: Engine will not stop.	Propane valve is still open.	Turn the propane valve to the CLOSED position on the tank.
Repeated circuit breaker tripping.	Overload.	Review load and adjust. See “Connecting Electrical Loads.”
	Faulty power cords or device.	Check for damaged, bare or frayed wires. Replace defective device.
	Circuit breaker still too hot.	Let unit sit for 5 mins.

For other issues and technical support:

Technical Support Team
Toll Free +44(0)-1942-715-407
support@championpowerequipment.co.uk

UK DECLARATION OF CONFORMITY

We: CHAMPION POWER EQUIPMENT, INC.
12039 SMITH AVENUE, SANTA FE SPRINGS,
CA 90670, USA

Hereby declare that the following Appliance complies with the appropriate basic safety and health requirements of the UKCA Directives (see item 3 & 4) based on its design and type, as brought into circulation by us.

This declaration relates exclusively to the machinery in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user.

Designation / Function: LOW POWER GENERATORING SETS

1. Type:500987-UK, 500988-UK
2. Serial number: xxxxxxxxxxxxxx（on Dataplate Label and Package）

3. Used harmonized standards:
   - EN ISO 8528-13:2016

4. Applicable UK Directives:
   - Supply of Machinery (Safety)Regulations 2008
   - Directive (EU) 2016/1628
   - Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001
   - Electrical Equipment (Safety) Regulations 2016
   - Electromagnetic Compatibility Regulations 2016

5. Responsible for documentation: CHAMPION POWER EQUIPMENT, INC.
   Address: 12039 SMITH AVENUE, SANTA FE SPRINGS, CA 90670, USA

6. Person responsible for compiling the technical files established within the UK Name, Surname: Winch Solutions LTD
   Address: Unit 17-18 Bradley Trading Estate, Bradley lane, Standish, Greater Manchester, WN6 0XQ, UK

7. Date/Place/Authorized Signature: Aug 11th 2022/HANGZHOU/LI JIE

8. Title of Signatory: GENERAL MANAGER

Note:

The person importing the products becomes responsible for ensuring that they comply with the directives which apply to them. At the very last, it is recommended that the importer obtain a copy of the original Declaration of conformity from manufacturer.

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.co.uk
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 (3) years for domestic usage and One (1) Year 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. For full T&C's please visit www.championpowerequipment.co.uk.

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 and/or CARB 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

Winch Solutions ltd

Unit 17-18 Bradley Trading Estate

Standish WN6 0XQ / UK

www.championpowerequipment.co.uk

support@cpeeurope.co.uk