

CHAMPION

GLOBAL POWER EQUIPMENT™

OWNER'S MANUAL & OPERATING INSTRUCTIONS



2000 Max Watts / 1600 Rated Watts

PORTABLE INVERTER GENERATOR



MODEL NUMBER

73533i

SAVE THESE INSTRUCTIONS
Important Safety Instructions
are included in this manual.

MADE IN CHINA
REV 73533i-20110721

10006 Santa Fe Springs Road
Santa Fe Springs CA 90670
USA / 1-877-338-0999
www.championpowerequipment.com

Have questions or need assistance?

Do not return this product to the store!

WE ARE HERE TO HELP!

Visit our website:

www.championpowerequipment.com

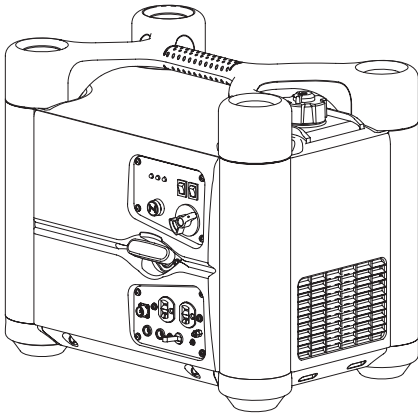
for more info:

- Product Info & Updates
- Tech Bulletins
- Frequently Asked Questions
- Product Registration

– or –

Call our Customer Care Team Toll-Free at:

1-877-338-0999



2000 Max Watts / 1600 Rated Watts PORTABLE INVERTER GENERATOR

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INTRODUCTION

Introduction

Congratulations on your purchase of a Champion Power Equipment inverter generator. CPE designs and builds generators to strict specifications. With proper use and maintenance, this generator will bring years of satisfying service.

Portable Power Generator

This unit is a gasoline engine driven, alternating current (AC) generator. It is designed to supply electrical power for lighting, appliances, tools and similar equipment.

Accessories

Champion Power Equipment manufactures and sells accessories designed to help you get the most from your purchase. To find out more about our covers, power cables and storm kits, please visit our web site at:
→ www.championpowerequipment.com

This Booklet

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

Record the model and serial numbers as well as date and place of purchase for future reference. Have this information available when ordering parts and when making technical or warranty inquiries.

Champion Power Equipment Support
1-877-338-0999
Model Number
73533i
Serial Number
Date of Purchase
Purchase Location
For Oil Type see 'Add Engine Oil' section. For Fuel Type see 'Add Fuel' section.

This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power equipment.

Follow all safety messages to avoid or reduce the risk of serious injury or death.

 **DANGER**

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

 **WARNING**

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

 **CAUTION**

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

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **may** result in property damage.

 **NOTE**

If you have questions regarding your generator, we can help. Please call our help line at **1-877-338-0999**

SAFETY RULES

WARNING

Read this manual thoroughly before operating your generator. Failure to follow instructions could result in serious injury or death.

WARNING

The engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

DANGER

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

Operate generator outdoors only in a well ventilated area.

DO NOT operate the generator inside any building, including garages, basements, crawlspaces and sheds, enclosure or compartment, including the generator compartment of a recreational vehicle. DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings.

DANGER CARBON MONOXIDE: using a generator indoors **CAN KILL YOU IN MINUTES.**

DANGER

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

Keep hands and feet away from rotating parts.
Tie up long hair and remove jewelry.
Operate equipment with guards in place.
DO NOT wear loose-fitting clothing, dangling drawstrings or items that could become caught.

DANGER

Generator produces powerful voltage.

DO NOT touch bare wires or receptacles.
DO NOT use electrical cords that are worn, damaged or frayed.
DO NOT operate generator in wet weather.
DO NOT allow children or unqualified persons to operate or service the generator
Use a ground fault circuit interrupter (GFCI) in damp areas and areas containing conductive material such as metal decking.
Use approved transfer equipment to isolate generator from your electric utility and Notify your utility company before connecting your generator to your power system.

WARNING

Sparks can result in fire or electrical shock.

When servicing the generator:

Disconnect the spark plug wire and place it where it cannot contact the plug.
DO NOT check for spark with the plug removed.
Use only approved spark plug testers.

WARNING

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

DO NOT touch hot surfaces.
Avoid contact with hot exhaust gases.
Allow equipment to cool before touching.
Maintain at least three feet of clearance on all sides to ensure adequate cooling.
Maintain at least five feet of clearance from combustible materials.

⚠ DANGER

Fuel and fuel vapors are highly flammable and extremely explosive.
Fire or explosion can cause severe burns or death. Unintentional startup can result in entanglement, traumatic amputation or laceration.

When adding or removing fuel:

Turn the generator off and let it cool for at least two minutes before removing the fuel cap. Loosen the cap slowly to relieve pressure in the tank. Only fill or drain fuel outdoors in a well-ventilated area. DO NOT overfill the fuel tank. Always keep fuel away from sparks, open flames, pilot lights, heat and other sources of ignition. DO NOT light or smoke cigarettes.

When starting the generator:

DO NOT attempt to start a damaged generator. Make certain that the gas cap, air filter, spark plug, fuel lines and exhaust system are properly in place. Allow spilled fuel to evaporate fully before attempting to start the engine. Make certain that the generator is resting firmly on level ground.

When operating the generator:

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

When transporting or servicing the generator:

Make certain that the fuel shutoff valve is in the off position and the fuel tank is empty. Disconnect the spark plug wire. When storing the generator: Store away from sparks, open flames, pilot lights, heat and other sources of ignition.

⚠ WARNING

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

A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

⚠ WARNING

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

When starting engine, pull the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback.
DO NOT start or stop the engine with electrical devices plugged in.

⚠ CAUTION

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

DO NOT overload the generator. Start the generator and allow the engine to stabilize before connecting electrical loads. Connect electrical equipment in the off position, and then turn them on for operation. Turn electrical equipment off and disconnect before stopping the generator. DO NOT tamper with the governed speed. DO NOT modify the generator in any way.

⚠ CAUTION

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

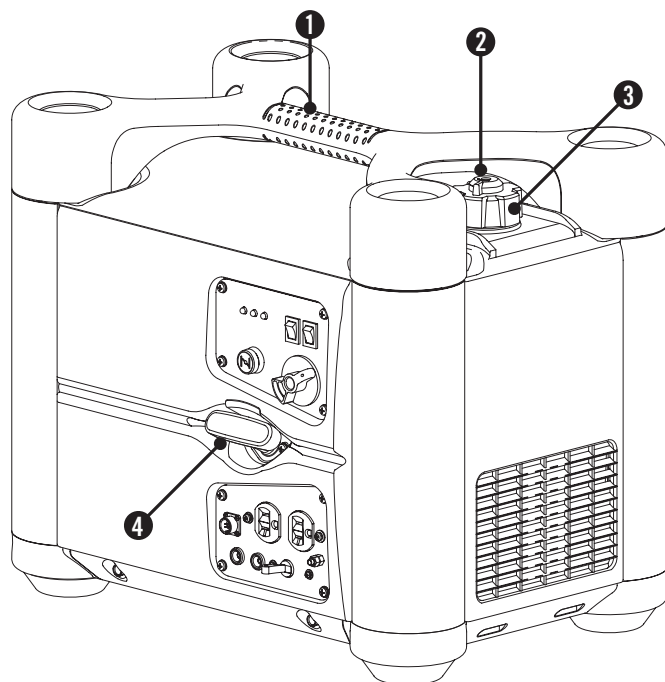
Use the generator only for intended uses. Operate only on level surfaces. DO NOT expose generator to excessive moisture, dust, or dirt. DO NOT allow any material to block the cooling slots. If connected devices overheat, turn them off and disconnect them from the generator. DO NOT use the generator if:

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

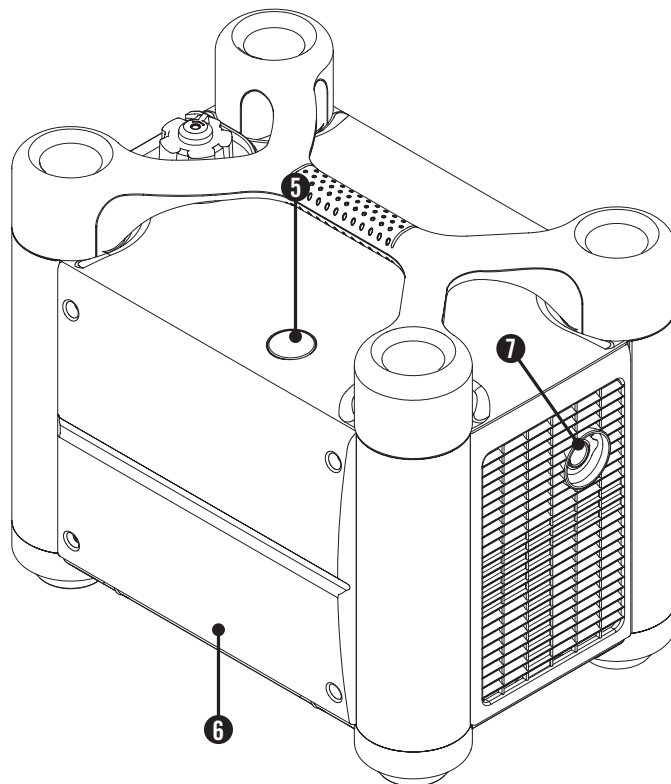
CONTROLS AND FEATURES

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

Inverter

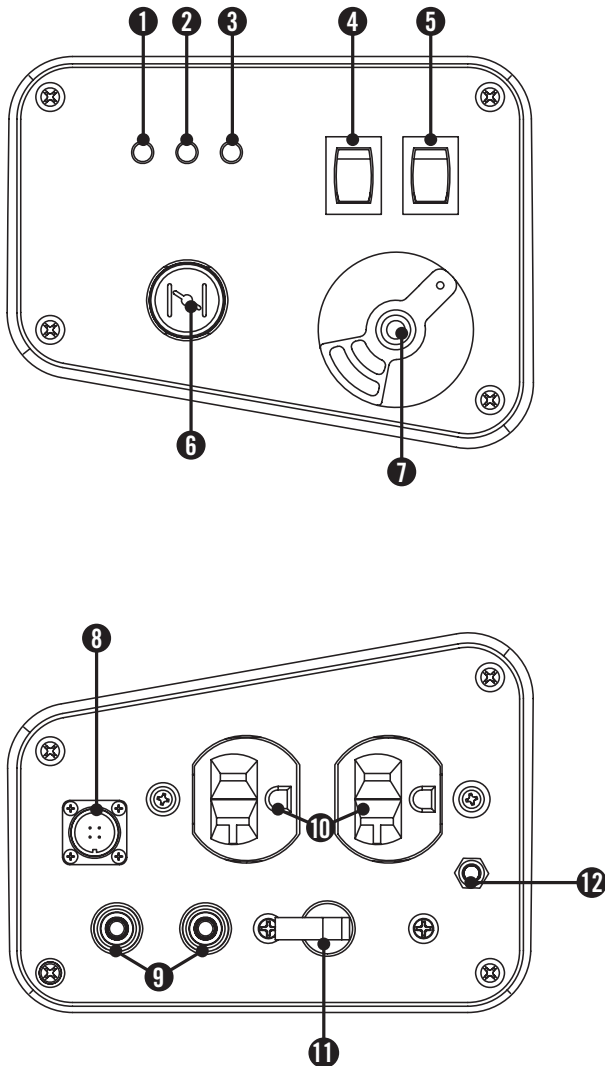


- (1) **Carrying Handle**
- (2) **Fuel Lever Vent** – Turn this valve to the “On” position to supply air to the tank.
- (3) **Fuel Cap** – Remove to add fuel.
- (4) **Recoil Starter** – Used to start the engine.



- (5) **Spark Plug Access Cap**
- (6) **Maintenance Cover** – Oil filler, Air filter, and Carburetor access.
- (7) **Muffler**

Power Panel



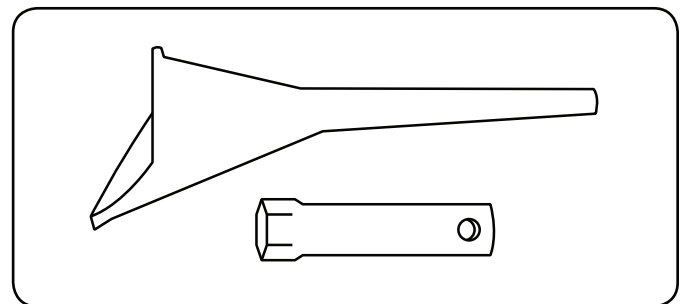
- (1) **Oil Warning Light** – Check oil level when this light turns on. Engine will not run when indicator is lit.
- (2) **Overload Indicator Light** – This light turns ON when the generator is overloaded and will cut power to the receptacles.
- (3) **Output Light** – Remains ON during normal operating conditions. Shuts OFF when generator is overloaded.
- (4) **Economy Control Switch**
- (5) **Engine Switch**
- (6) **Choke Lever** – Used to start the engine.
- (7) **Fuel Valve Knob**
- (8) **Parallel Operation Control***
- (9) **Parallel Operation Outlets***
- (10) **120 V Duplex** – Use this duplex to operate 120 Volt AC, single phase, 60 Hz loads requiring up to 1600 Watts of power.
- (11) **Circuit Breaker** – Protects the generator against electrical overload.
- (12) **Ground Terminal** – Consult an electrician for local grounding regulations.

* These outlets are used for connecting two Champion model 73533i generators for parallel operation. A Champion model 73500i parallel kit (optional equipment) is required for parallel operation.

Parts Included

Your 73533i Gasoline Powered Generator ships with the following parts:

- Oil Funnel 1
- Spark Plug Socket 1



ASSEMBLY

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

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

Remove the Generator from the Shipping Carton

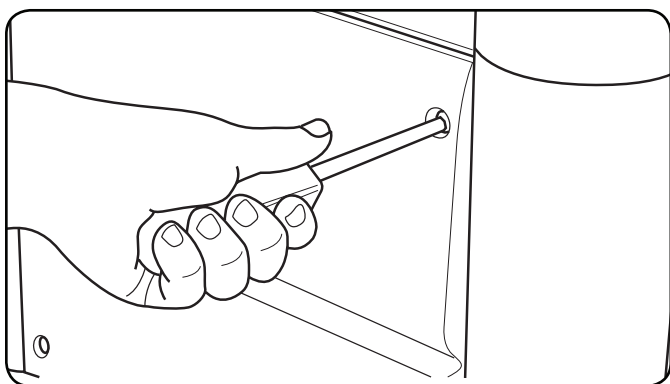
1. Set the shipping carton on a solid, flat surface.
2. Remove everything from the carton except the generator.
3. Using the handle of the unit, carefully remove the generator from the box.

Add Engine Oil

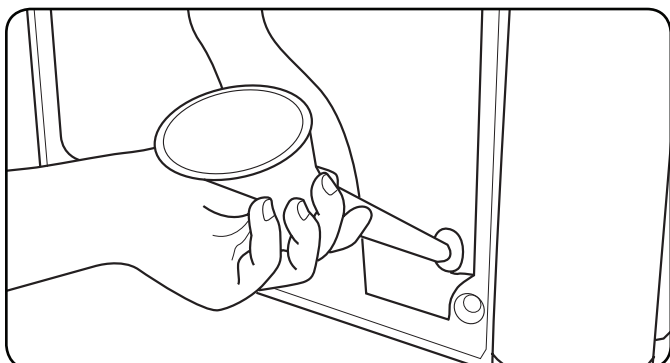
⚠ CAUTION

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

1. Place the generator on a flat, level surface.
2. Loosen the cover screw and remove the maintenance cover.

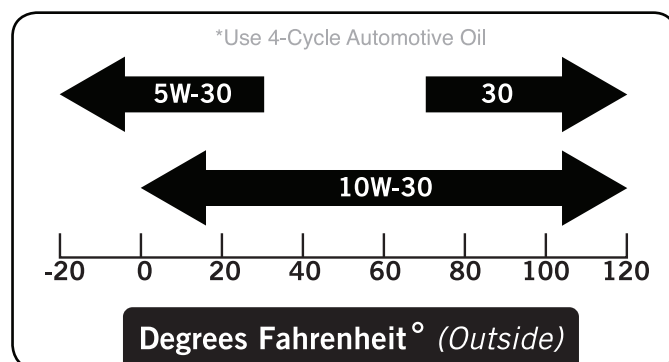


3. Remove oil fill cap/dipstick to add oil.



Add Engine Oil Cont'd.

4. Add 0.42 qt (0.4 L) of oil and replace oil fill cap/dipstick.



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

CAUTION

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

NOTE

The recommended oil type is 10W-30 4-cycle automotive oil.

NOTE

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

Add Fuel

1. Use clean, fresh, regular unleaded fuel with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.
2. DO NOT mix oil with fuel.
3. Clean the area around the fuel cap.
4. Remove the fuel cap.
5. Slowly add the fuel in the tank. DO NOT fill fully. Leave about 1.25 cm for the expansion of fuel.
6. Screw on the fuel cap and wipe away any spilled fuel.

CAUTION

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

Do not mix oil and gasoline.
Fill the tank to the red level, visible on the fuel filter.
DO NOT fill fuel tank indoors.
DO NOT fill fuel tank when the engine is running or hot.
DO NOT overfill the fuel tank.
DO NOT light cigarettes or smoke when filling the fuel tank.

Grounding

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

WARNING

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

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

OPERATION

Generator Location

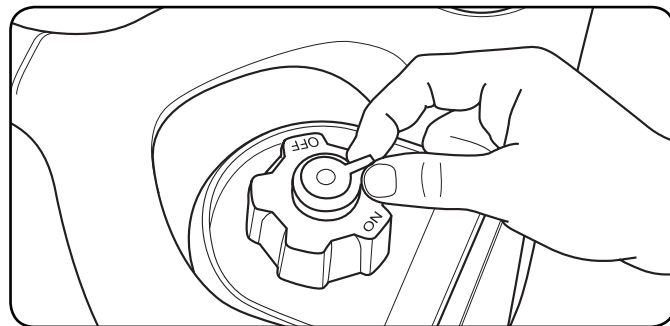
Please consult your local authority. In some areas, generators must be registered with the local utility. Generators used at construction sites may be subject to additional rules and regulations.

This generator must have at least five feet of clearance from combustible material. Leave at least three feet of clearance on all sides of the generator to allow for adequate cooling, maintenance and servicing.

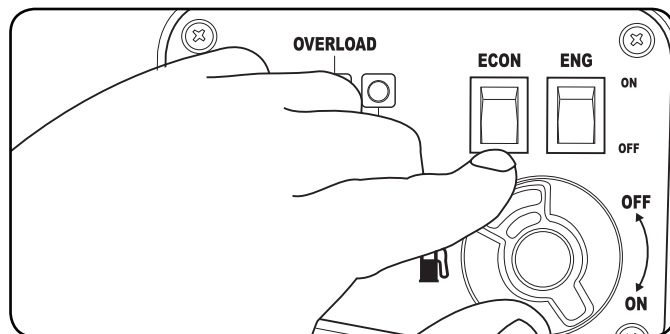
Place the generator in a well-ventilated area. DO NOT place the generator near vents or intakes where exhaust fumes could be drawn into occupied or confined spaces. Carefully consider wind and air currents when positioning generator.

Starting the Engine

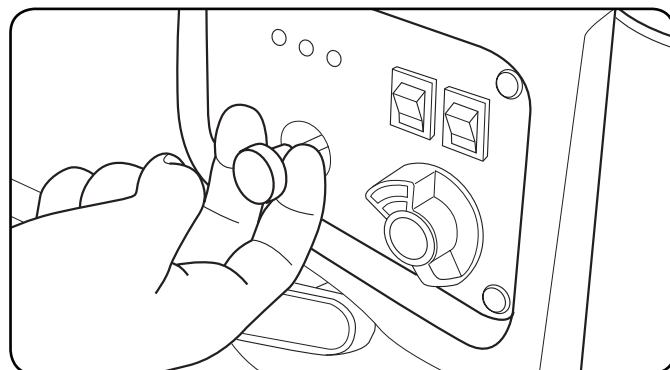
1. Make certain the generator is on a flat, level surface.
2. Disconnect all electrical loads from the generator.
Never start or stop the generator with electrical devices plugged in or turned on.
3. Turn the fuel cap vent lever to the "On" position.



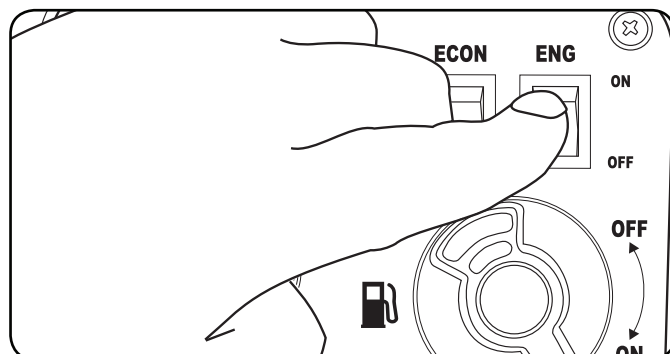
4. Turn the fuel valve to the "On" position.



5. Slide choke lever right to the "Choke" position.

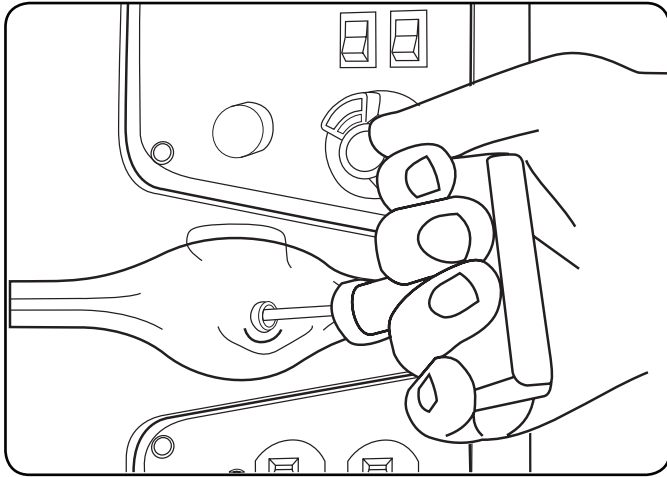


6. Turn the engine switch to the "On" position.



Starting the Engine Cont'd.

- Pull the starter cord slowly until resistance is felt and then pull rapidly.



- As engine warms up, slide the choke lever left to the "Run" position.

NOTE

If the engine starts but does not stay running 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.

Economy Control Switch

The Economy Control switch can be activated in order to minimize fuel consumption and noise while operating the unit during times of **reduced electrical output**, allowing 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.

WARNING

For periods of high electrical load or momentary fluctuations, the Economy Control Switch should be turned OFF.

Connecting Electrical Loads

- Let the engine stabilize and warm up for a few minutes after starting
- Plug in and turn on the desired 120 Volt AC single phase, 60 Hz electrical loads.
 - DO NOT connect 3-phase loads to the generator.
 - DO NOT connect 50 Hz loads to the generator.
 - DO NOT overload the generator.

NOTE

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

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

OPERATION

Stopping the Engine

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 engine switch/fuel valve to the "Off" position.
4. Allow the generator to cool down completely to room temperature
5. Turn the fuel cap lever vent to the "Off" position after the generator has cooled down completely.

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. Surge wattage is the extra burst of power needed to start some electric driven equipment. Following the steps listed under "Power Management" will guarantee that only one device will be starting at a time.

Power Management

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

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

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

1. Start the generator with no electrical load attached
2. Allow the engine to run for several minutes to stabilize.
3. Plug in and turn on the first item. It is best to attach the item with the largest load first.
4. Allow the engine to stabilize.
5. Plug in and turn on the next item.
6. Allow the engine to stabilize.
7. Repeat steps 5-6 for each additional item.

NOTE

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

Overload Operation

The overload indicator light will turn on when you have exceeded the rated load. At max load the light will blink and power will be cut to the receptacles after a short period of time. To recover the power, you must shut off the engine, wait for overload light to disappear, and restart the generator.

Parallel Operation

Two Champion model 73533i generators can be operated in parallel to increase the total available electrical power to 3200 watts. A Champion model 73500i parallel kit (optional equipment) is required for parallel operation. For kit availability, call Customer Service at 1-877-338-0999 or visit: www.championpowerequipment.com.

Detailed instructions for parallel kit installation and operation of the connected generators are provided in the parallel kit Owner's Manual and Operating Instructions. Please note the following important requirements:

1. The two generators may be stacked one on top of the other by aligning the lower pads and upper pockets at each corner of the generators.
2. Disconnect or turn off all electrical loads from both generators.
3. The ECON switch must be in the same position on both generators.
4. Before starting the engines, connect the AC power outlet cables, the control cables and the ground cables to both generators. Follow the instructions supplied with the parallel kit.
5. Do not disconnect any cables after the engines have been started.
6. Start both engines and observe the green output indicator light on both generator panels.
7. Connect and turn on the electrical devices.

NOTE

The total electrical load must not exceed 3200 watts.

8. Follow the instructions in the previous section for turning off the generators.

Wattage Reference Chart

Use the chart to determine approximate wattage requirements for your equipment.

CAUTION

Exceeding specified load capacity can result in damage to the generator.

To determine total wattage necessary to power a device, **ADD Running Watts to Starting Watts**. (A+B). Starting watts can exceed three times the running watts. The values in the following table are approximate. Refer to your tool or appliance for actual wattage consumption.

Item	Running Watts (A)	Starting Watts (B)
Essentials		
Light Bulb 100W	100	
Refrigerator/Freezer	1200	2400
Freezer	500	500
Sump Pump	600	1800
Well Pump 1 HP	2000	4000
Water Heater	4000	
Security System	180	
AM/FM Radio	300	
Garage Door Opener 1/2 HP	500	600
Battery Charger 12V DC	110	
Heating/Cooling		
Air Conditioner 12000 BTU	1700	2500
Fan	300	600
Furnace Fan 1/3 HP	1200	2000
Home Appliances		
Microwave 1000W	1000	
Electric Range - One Element	1500	
Electric Skillet	1250	
Coffee Maker	1500	
Clothes Washer	1200	
Entertainment		
CD/DVD Player / VCR	100	
Stereo Receiver	450	
Television 27"	500	
PC with 15" Monitor	800	
Job Site		
Belt Sander 3"	1000	1500
Bench Grinder 6"	700	1500
Circular Saw	1500	1500
Compressor 1 1/2 HP	2500	2500
Edge Trimmer	500	500
Hand Drill 1/2"	1000	1000
Lawn Mower	1200	1800
Paint Sprayer	600	1200
Table Saw	2000	2000

MAINTENANCE AND STORAGE

The owner/operator is responsible for all periodic maintenance.

WARNING

Never operate a damaged or defective generator.

WARNING

Tampering with the factory set governor will void your warranty.

WARNING

Improper maintenance will void your warranty.

NOTE

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

Complete all scheduled maintenance in a timely manner. Correct any issue before operating the generator.

NOTE

For service or parts assistance, contact our help line at **1-877-338-0999**

Engine Maintenance

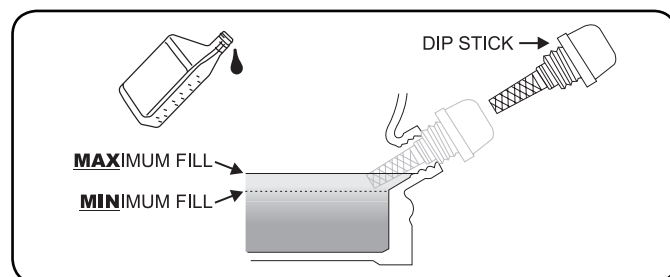
To prevent accidental starting, remove and ground spark plug wire before performing any service.

Oil

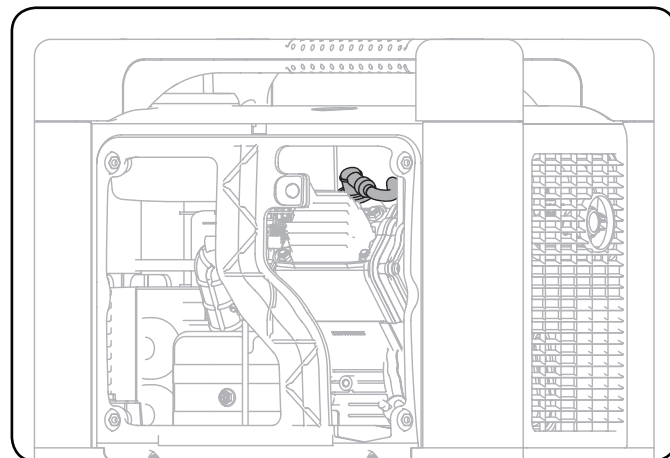
Change oil when the engine is warm. Refer to the oil specification to select the proper grade of oil for your operating environment.

1. Loosen the cover screws and remove the maintenance cover.
2. Remove the oil filler cap.
3. Tilt the generator on its side and allow the oil to drain completely.
4. Add 0.42 qt (0.4 L) of oil and replace oil fill cap/dipstick.
5. Reinstall the maintenance cover and tighten the cover screws.
6. Dispose of used oil at an approved waste management facility.

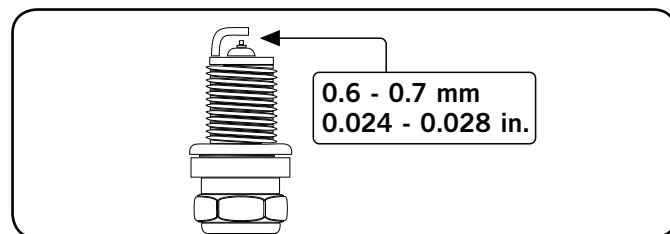
Oil Cont'd.



Spark Plugs

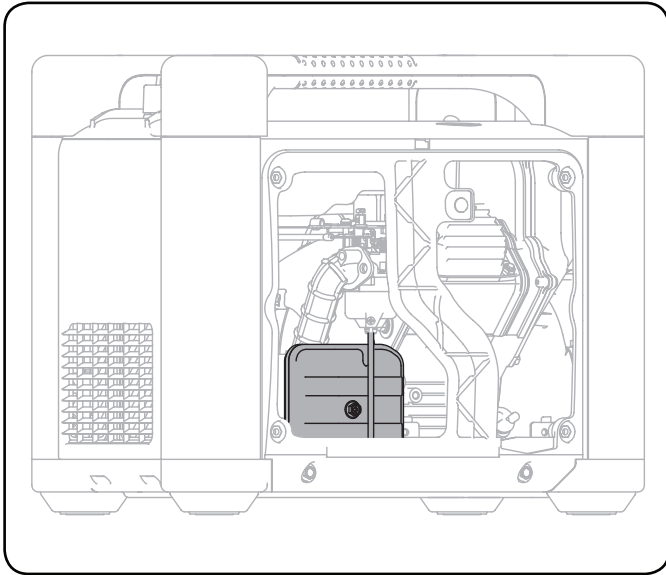


1. Remove the maintenance cover.
2. Remove the spark plug cable from the spark plug.
3. Use the spark plug tool that shipped with your generator to remove the plug. Remove the spark plug access cap and insert the spark plug tool through this hole.
4. Remove the spark plug.
5. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.
6. Make certain the spark plug gap is 0.6 - 0.7 mm (0.024 - 0.028 in.).



7. Carefully thread the plug into the engine.
8. Use the spark plug tool to firmly install the plug.
9. Attach the spark plug cap to the plug.
10. Reinstall the spark plug access cap, and maintenance cover.

Air Filter



1. Remove the maintenance cover.
2. Locate the air filter plastic cover. Remove the screw using a Phillips head screwdriver.
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

⚠ CAUTION

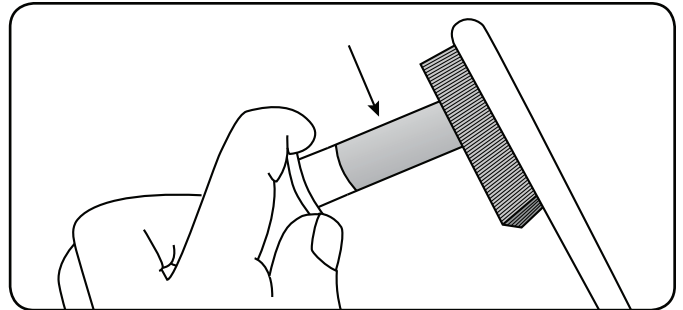
DO NOT spray engine with water.

Water can contaminate the fuel system.

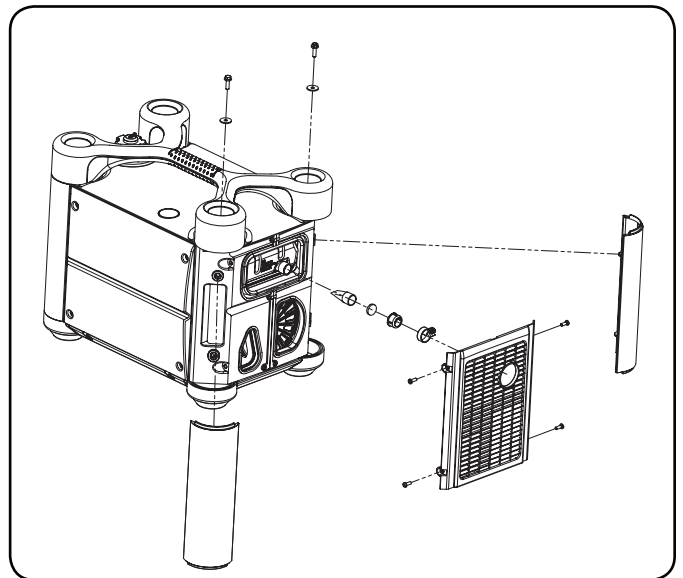
Use a damp cloth to clean exterior surfaces of the engine.
Use a soft bristle brush to remove dirt and oil.
Use an air compressor (25 PSI) to clear dirt and debris from the engine.

Spark Arrester Cleaning

1. Loosen M6x22 bolts to remove two pillars.
2. Remove 4 screws to remove the muffler cover assembly.
3. Loosen the spark arrester clamp, remove the spark arrester cover, and with a thin blade screwdriver remove the spark arrester.
4. Carefully remove the carbon deposits from the spark arrester screen with a wire brush.



5. Replace the spark arrester if it is damaged.
6. Reattach spark arrester, cover assembly, and pillars.



⚠ CAUTION

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

MAINTENANCE AND STORAGE

Adjustments

The air-fuel mixture is not adjustable. Tampering with the governor can damage your generator and your electrical devices and will void your warranty. CPE recommends that you contact our service line at **1-877-338-0999** 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 help line at **1-877-338-0999** to locate the nearest Champion Power Equipment certified service dealer for your generator or engine maintenance needs.

Every 8 hours or daily	
	Check oil level
	Clean around air intake and muffler
First 5 Hours	
	Change oil
Every 50 hours or every season	
	Clean air filter
	Change oil if operating under heavy load or in hot environments
Every 100 hours or every season	
	Change oil
	Clean/Adjust spark plug
	Check/Adjust valve clearance *
	Clean spark arrester
	Clean fuel tank and filter *
Every 3 years	
	Replace fuel line

*To be performed by knowledgeable, experienced owners or Champion Power Equipment certified dealers.

Generator 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.

⚠ CAUTION

DO NOT use a garden hose to clean the generator.

Water can enter the generator through the cooling slots and damage the generator windings.

Generator Maintenance Cont'd.

Use a damp cloth to clean exterior surfaces of the generator. Use a soft bristle brush to remove dirt and oil.

Use an air compressor (25 PSI) to clear dirt and debris from the generator.

Inspect all air vents and cooling slots to ensure that they are clean and unobstructed.

Storage

The generator should be started at least once every 14 days and allowed to run for at least 20 minutes. For longer term storage, please follow these guidelines.

Generator Storage

1. Allow the engine to cool completely before storage.
2. Clean the generator according to the instructions in the Maintenance section.
3. Remove the maintenance cover. Drain all fuel completely from the fuel line and carburetor to prevent varnish build up.
4. Remove the spark plug cap, then pull the recoil grip 3 times to drain the gasoline from the carburetor jets.
5. Change the engine oil.
6. Remove the spark plug and pour about a tablespoon of oil into the cylinder. Crank the engine slowly to distribute the oil and lubricate the cylinder.
7. Reattach the spark plug.

Engine Specifications

- Engine 80 cc OHV CPE

Generator Specifications

- Rated Load 1600W
- Maximum Load 2000W
- AC Load 120 V
- Phase Single
- Frequency 60 Hz
- Fuel Capacity 1.0 gallon (3.8 L)
- Gross Weight 53.6 lbs. (24.3 kg)
- Net Weight 48.06 lbs. (21.8 kg)
- Height 16.3 inches (41.5 cm)
- Width 13.2 inches (33.5 cm)
- Length 19.3 inches (49.0 cm)

Fuel

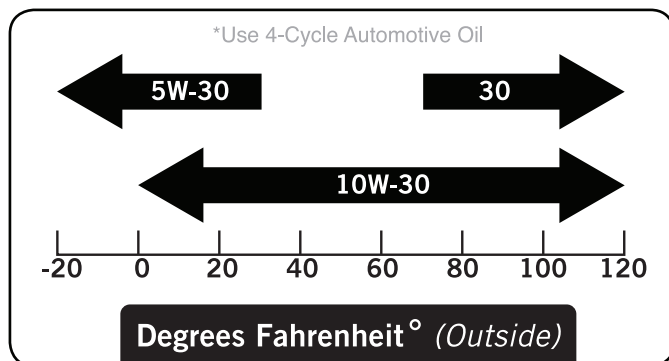
Fuel capacity is 1.0 gallon (3.8 L). Use regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.

Oil

Use 10W-30 4-Cycle automotive oil.

Oil capacity is 0.42 qt (0.4 L).

Please reference the following chart for recommended oil types for use in the generator.



Spark Plugs

OEM spark plug: NHSP E6RTC

Replacement spark plug: NGK BPR6HS or equivalent

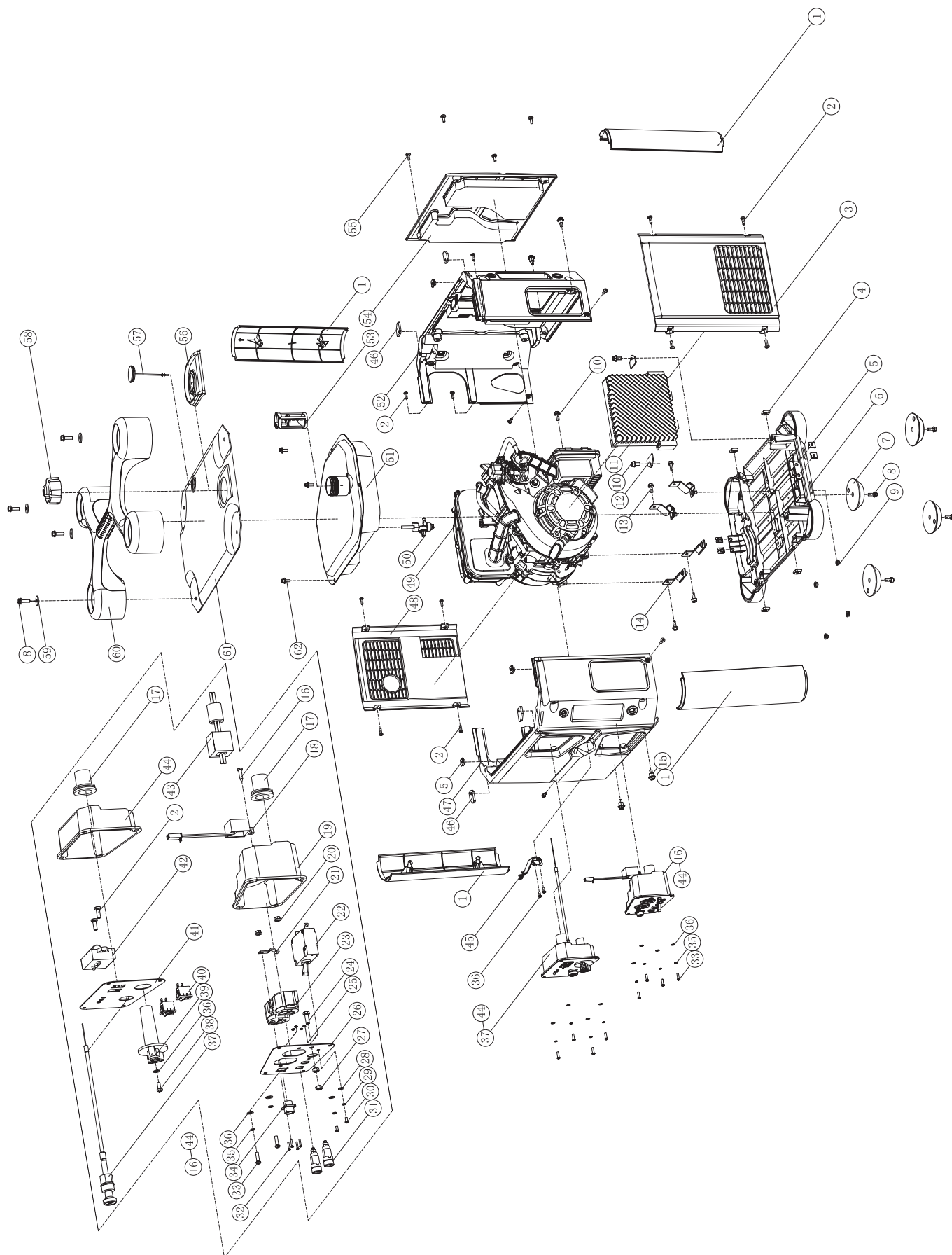
Make certain the spark plug gap is 0.6 - 0.7 mm or (0.024 - 0.028 in.).

Maintenance Valve Clearance

- Intake: 0.10 mm (0.004 in.)
- Exhaust: 0.10 mm (0.004 in.)

SPECIFICATIONS

Parts Diagram

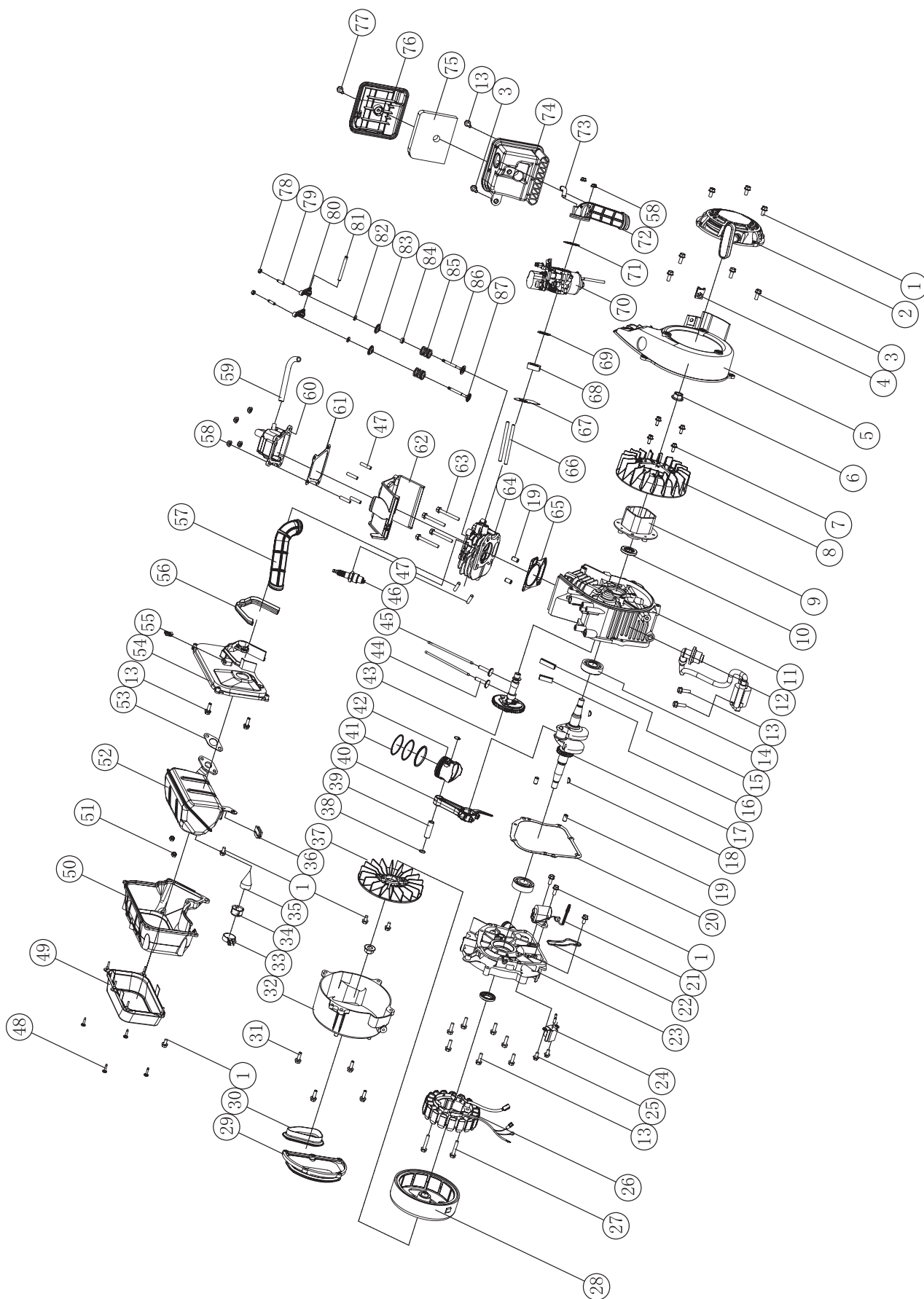


#	Part Number	Description	Qty
1	0902.200800.00(F)	CROSS BANDING	4
2	GB818 M5X14 03	SCREW M5×14	17
3	0902.200300.00(F)	RIGHT SIDE COVER ASSY	1
4	02.006002.00	NUT M6	4
5	02.005002.00	NUT M5	7
6	0902.200600.00(F)	BASE ASSY.	1
7	0902.200604.00	BASE MOUNTING4	4
8	GB5789 M6X22 03	BOLT M6X22	8
9	GB6177.1 M6 03	NUT M6	4
10	GB5789 M6X12	BOLT M6X12	3
11	0902.221000.01	CONTROL UNIT	1
12	0902.220003.00	Clip of control unit	2
13	GB5789 M6X15	BOLT M6X15	4
14	0902.200605.00	Shock absorber 1	4
15	08.006001.00	BOLT M6	4
16	GB845 ST4.2×20	Tapping screw	1
17	ST02FD-05212001	Rubber plug for panel box	2
18	IV02.P-00000000	Parallel power unit	1
19	0902.212001.00	OUTPUT PANEL BOX	1
20	GB6177.1 M4 03	BOLT M4	2
21	0902.210012.00	Clip of communication wire	1
22	ST02FD-05302003-13.3C	AC Breaker 13.3A (CSA)	1
23	ST02FD-05502023-CSA	Receptacle 5-20R	1
24	GB5783 M5X14 03	BOLT M5X14	1
25	GB6170 M2 03	BOLT M2	4
26	0902.212100.A4(F)	OUTPUT PANEL	1
27	GB41 M5 03	NUT M5	2
28	GB848 3 03	FLAT WASHER 3	2
29	GB859 3 03	SPRING WASHER 3	2
30	GB823 M3×6 03	SCREW M3×6	2
31	0902.210001.00	Parallel terminal	2

#	Part Number	Description	Qty
32	GB818 M2×10 03	SCREW M2×10	4
33	GB818 M4×14 03	SCREW M4×14	10
34	22.012001.02	Communication receptacle	1
35	GB93 4 03	SPRING WASHER 4	10
36	GB97.1 4 03	FLAT WASHER 4	11
37	0902.130200.00	CHOCK CABLE ASSY.	1
38	GB818 M4×12 03	SCREW M4×12	3
39	0902.070001.00	FUEL COCK KNOB	1
40	ST01FD-05701001	Engine switch	2
41	0902.211100.00(F)	CONTROL PANEL	1
42	0902.126000.00	IGNITION ASSY.	1
43	0902.210200.00	MAGNET RING ASSY.	1
44	0902.211001.00	CONTROL PANEL BOX	1
45	0902.061200.00	GUIDE.ROPE HANDLE	1
46	02.006003.00	NUT M6	4
47	0902.200100.00(R)	FRONT COVER ASSY.	1
48	0902.200200.00(R)	LEFT SIDE COVER ASSY	1
49	149.000000.A3	ENGINE	1
50	0902.070400.00	FUEL COCK COMP.	1
51	0902.071000.00	FUEL TANK ASSY.	1
52	0902.200401.00(R)	COVER,REAR I	1
53	0902.070300.00	FUEL FILTER COMP.	1
54	0902.200402.00(R)	MAINTTENANCE COVER	1
55	GB818 M6×14 03	SCREW M6×14	4
56	0902.200502.00	FUEL GUIDE PLATE	1
57	0902.200503.00	SEAL,PLUG CAP	1
58	0902.070100.00	FUEL TANK CAP COMP.	1
59	GB5287 6 03	FLAT WASHER 6	4
60	0902.200700.00	HOLDER ASSY	1
61	0902.200501.00(R)	COVER,TOP	1
62	ST02FD-05010703	BOLT M5×13	3

SPECIFICATIONS

Engine Parts Diagram

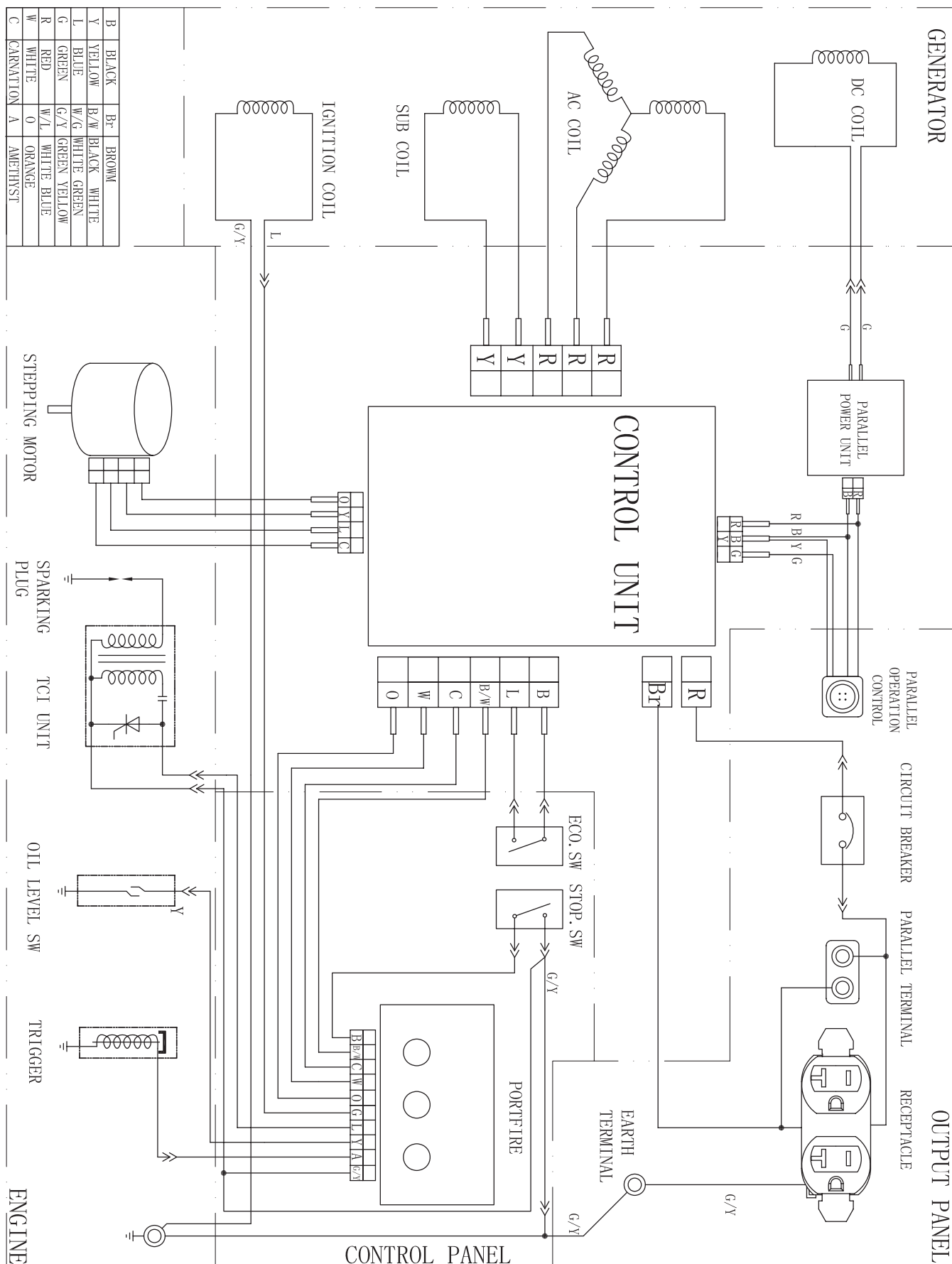


#	Part Number	Description	Qty
1	GB5789 M6X12	BOLT M6X12	10
2	0902.061000.00	STARTER ASSEMBLY	1
3	GB5789 M6X15	BOLT M6X15	5
4	02.006001.00	NUT	1
5	0902.080100.00	FAN COVER COMP.	1
6	02.012000.10	NUT M12X1.25	2
7	GB16674 M5X12	BOLT M5X12	4
8	0902.080001.00	COOLING FAN	1
9	0902.060001.00	STARTING HUB	1
10	12.020000.01	OIL SEAL 20X35X5	2
11	0902.030100.00	CRANKCASE COMP	1
12	0902.123000.01	IGNITION ASSEMBLY	1
13	GB5789 M6X20	BOLT M6X20	12
14	GB276 6204	BEARING	2
15	0902.030013.01	PROTECTOR COVER SEAL 2	1
16	0902.030013.00	PROTECTOR COVER SEAL 1	1
17	0902.050100.00	CRANK COMP	1
18	16.003001.00	KEY	2
19	139FMD-1001001	DOWEL PIN	4
20	0902.030008.00	CRANKCASE GASKET	1
21	0902.127000.00	OIL SENSOR	1
22	0902.030010.00	OIL SENSOR PLATE	1
23	0902.030007.00	CRANKCASE COVER	1
24	0902.122000.00	TRIGGER ASSEMBLY	1
25	GB16674 M6X12	BOLT M6X12	2
26	0902.191100.02	STATOR COMP.	1
27	GB5789 M6X35	BOLT M6X35	2
28	0902.191200.00	ROTOR COMP.	1
29	0902.190006.01	RUBBER.END COVER 2	1
30	0902.190006.00	RUBBER.END COVER 1	1
31	GB5789 M6X22 03	BOLT M6X22	4
32	0902.190002.00	END COVER	1
33	06.025001.20	SPARK ARRESTER CLAMP	1
34	0902.101501.00	SPARK ARRESTER BASE	1
35	0902.101300.00	SPARK ARRESTER	1
36	0902.081002.00	RUBBER SEAL	1
37	0902.190001.00	MOTOR FAN	1
38	09.011001.00	PISTON PIN CLIP	2
39	0902.050003.00	PISTON PIN	1
40	0902.050200.00	CONNECT ROD ASSEMBLY	1
41	0902.050300.00	PISTON RING SET	1
42	0902.050005.00	PISTON	1
43	0902.040100.00	CAMSHAFT COMP.	1
44	0902.040013.00	VALVE TAPPET	2

#	Part Number	Description	Qty
45	0902.040005.00	PUSH ROD	2
46	E6RTC	SPARK PLUG	1
47	01.606002.00	EXHAUST BOLT	6
48	GB845 ST4.8X17	TAPPING SCREW ST4.8X17	4
49	0902.081300.00	MUFF. PROTECTOR ASSY. RH	1
50	0902.081200.00	MUFF. PROTECTOR ASSY.MIDDLE	1
51	GB6175 M6 03	NUT M6	2
52	0902.101100.00	MUFFLER COMP	1
53	0902.100001.00	EXHAUST GASKET	1
54	0902.081100.00	PROTECTOR MUFF. SIDE	1
55	0902.081003.00	SETTING FLASH BOARD	1
56	0902.081001.00	MUFF. PROTECTOR SEAL	1
57	0902.080003.00	DUCT	1
58	GB6177.1 M6 03	NUT M6	6
59	0902.020001.00	BREATHER PIPE	1
60	0902.021000.00	CYL. HEAD COVER ASSEMBLY	1
61	0902.020002.00	CYLINDER COVER GASKET	1
62	0902.080200.00	AIR SHROUD,CYLINDER COMP.	1
63	GB5789 M6X50	BOLT M6X50	4
64	0902.010100.00	CYLINDER HEAD COMP.	1
65	0902.030009.00	GASKET,CYLINDER	1
66	01.606001.00	CARBURETOR BOLT	2
67	0902.130002.00	GSKT,INSULATOR	1
68	0902.130001.00	INSULATOR.CARB.	1
69	0902.130003.00	GSKT,CARB	1
70	0902.131000.00	CARB. ASSEMBLY	1
71	0902.130004.00	GSKT,AIR CLEANER	1
72	0902.090004.00	PIPE,AIR CLEANER	1
73	0902.090003.00	JT.,BREATHER PIPE	1
74	0902.091100.00	CASE,AIR CLEANER COMP.	1
75	0902.091003.00	AIR CLEANER ELEMENT	1
76	0902.091200.00	CASE,AIR CLEANER	1
77	08.006020.00	BOLT M6X20	1
78	02.005001.00	NUT,VALVE ADJUSTING	2
79	0902.040012.00	SCREW,VALVE ADJUSTING	2
80	0902.040009.00	ARM,VALVE ROCKER	2
81	0902.040016.00	SHAFT,SCREW ROCKER	1
82	CT166FD-1040003	LOCK CLIP. VALVE	2
83	CT166FD-1040004	RET.,VALVE SPRING	2
84	0902.040017.00	OIL SEAL,VALVE	1
85	CT166FD-1040005	SPRING,VALVE	2
86	0902.040002.00	VALVE,INTAKE	1
87	0902.040006.00	VALVE,EXHAUST	1

SPECIFICATIONS

Wiring Diagram



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

For further technical support:

Technical Service

Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)

Toll Free: 1-877-338-0999

tech@championpowerequipment.com

WARRANTY

WARRANTY

CHAMPION POWER EQUIPMENT
2 YEAR LIMITED WARRANTY

Warranty Qualifications

Champion Power Equipment (CPE) will register this warranty upon receipt of your Warranty Registration Card and a copy of your sales receipt from one of CPE's retail locations as proof of purchase.

Please submit your warranty registration and your proof of purchase within ten (10) days of the date of purchase.

Repair/Replacement Warranty

CPE warrants to the original purchaser that the mechanical and electrical components will be free of defects in material and workmanship for a period of one year (parts and labor) and two years (parts) from the original date of purchase (90 days (parts and labor) and 180 days (parts) for commercial & industrial use). Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.

Do Not Return The Unit To The Place Of Purchase

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

Warranty Exclusions

This warranty does not cover the following repairs and equipment:

Normal Wear

Generators 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 this generator is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the generator's limits, modified, installed improperly or connected incorrectly to any electrical component.

Installation, Use and Maintenance Cont'd.

Normal maintenance such as spark plugs, air filters, adjustments, fuel system cleaning and obstruction due to buildup is not covered by this warranty.

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.

This warranty does not apply to generators 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 generator. THIS WARRANTY IS 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. Your state may also have other rights you may be entitled to that are not listed within this warranty.

Contact Information

Address

Champion Power Equipment, Inc.
Customer Service
10006 Santa Fe Springs Rd.
Santa Fe Springs, CA 90670
www.championpowerequipment.com

Customer Service

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

Technical Service

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

Champion Power Equipment Emissions Control Warranty Statement, engines less than 80cc

CALIFORNIA AND U.S. EPA EMISSIONS CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board, U.S. EPA and Champion Power Equipment (CPE) are pleased to explain the emissions control system's warranty on your 2011 small off-road engine. In California, new equipment that use small off-road engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. Elsewhere in the United States, new non-road, spark ignited engines for model year 1997 and later must meet similar standards set forth by the U.S. EPA. CPE warrants the emissions control system on your small off-road generator engine for the period listed below provided there has been no abuse, neglect or improper maintenance of your equipment.

Your emissions control system may include parts such as: carburetors or fuel injection system, ignition system, catalytic converters, fuel tanks, valves, filters, clamps, connectors, and other associated components. Also, included may be hoses, belts, connectors, sensors, and other emission-related assemblies.

Where a warrantable condition exists, CPE will repair your small off-road engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

This emissions control system is warranted for two years. If any emissions-related part on your equipment is defective, the part will be repaired or replaced by CPE.

OWNER'S WARRANTY RESPONSIBILITIES:

- As the small off-road generator engine owner, you are responsible for performance of the required maintenance listed in your owner's manual. CPE recommends that you retain all receipts covering maintenance on your small off-road generator engine, but CPE cannot deny warranty solely for the lack of receipts or your failure to ensure the performance of all scheduled maintenance.
- As the small off-road generator engine owner, you should however be aware that CPE may deny you warranty coverage if your small off-road generator engine or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.
- You are responsible for presenting your small off-road generator engine to a CPE service center as soon as the problem exists. The warranty repairs will be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact a CPE Customer Service representative at 1-877-338-0999.

DEFECTS WARRANTY REQUIREMENTS:

- (a) The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser.
- (b) **General Emissions Warranty Coverage.** CPE must warrant to the ultimate purchaser and each subsequent owner that the engine or equipment is:
 - (1) Designed, built, and equipped so as to conform with all applicable regulations adopted by the Air Resources Board and the U.S. EPA; and
 - (2) Free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.
- (c) The warranty on emissions-related parts will be interpreted as follows:
 - (1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions required by subsection (d) must be warranted for the warranty period defined in Subsection (b)(2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by CPE according to Subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for the remaining warranty period.
 - (2) Any warranted part that is scheduled only for regular inspection in the written instructions required by subsection (d) must be warranted for the warranty period defined in Subsection (b)(2). A statement in such written instructions to the effect of "repair or replace as necessary" will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for the remaining warranty period.
 - (3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions required by subsection (d) must be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part must be repaired or replaced by CPE according to Subsection (4) below. Any such part repaired or replaced under warranty must be warranted for the remainder of the period prior to the first scheduled replacement point for the part.

- (4) Repair or replacement of any warranted part under the warranty must be performed at no charge to the owner at a warranty station.
- (5) Notwithstanding the provisions of Subsection (4) above, warranty services or repairs must be provided at all CPE approved service centers.
- (6) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.
- (7) The manufacturer is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part.
- (8) Throughout the emissions warranty period defined in Subsection (b)(2), the manufacturer must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
- (9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of CPE.
- (10) Add-on or modified parts that are not exempted by the Air Resources Board or the U.S. EPA may not be used. The use of any non-exempted add-on or modified parts will be grounds for disallowing a warranty claim. CPE will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.
- (11) The manufacturer issuing the warranty shall provide any documents that describe that manufacturer's warranty procedures or policies within five working days of request by the Air Resources Board.

(d) **Emission Warranty Parts List.**

- (1) Fuel Metering System
 - (i) Carburetor and internal parts (and/or pressure regulator or fuel injection system).
 - (ii) Air/fuel ratio feedback and control system.
 - (iii) Cold start enrichment system.
 - (iv) Fuel Tank.
- (2) Air Induction System
 - (i) Controlled hot air intake system.
 - (ii) Intake manifold.
 - (iii) Air filter.
- (3) Ignition System
 - (i) Spark Plugs.
 - (ii) Magneto or electronic ignition system.
 - (iii) Spark advance/retard system.
- (4) Exhaust Gas Recirculation (EGR) System
 - (i) EGR valve body, and carburetor spacer if applicable.
 - (ii) EGR rate feedback and control system.
- (5) Air Injection System
 - (i) Air pump or pulse valve.
 - (ii) Valves affecting distribution of flow.
 - (iii) Distribution manifold.
- (6) Catalyst or Thermal Reactor System
 - (i) Catalytic converter.
 - (ii) Thermal reactor.
 - (iii) Exhaust manifold.
- (7) Particulate Controls
 - (i) Traps, filters, precipitators, and any other device used to capture particulate emissions.
- (8) Miscellaneous Items Used in Above Systems
 - (i) Electronic controls.
 - (ii) Vacuum, temperature, and time sensitive valves and switches.
 - (iii) Hoses, belts, connectors, and assemblies.

CPE will furnish with each new engine written instructions for the maintenance and use of the engine by the owner.