

Duro Star

DUAL FUEL



*Gasoline & Propane Tank Not Included

DS5500EH GENERATOR

User Manual

REV:DS5500EH-05232018

This manual provides information regarding the operation and maintenance of these products. We have made every effort to ensure the accuracy of the information in this manual. We reserve the right to change this product at any time without prior notice.

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INTRODUCTION

DuroStar has cemented its reputation as one of the markets leading power equipment companies who are headquartered in the US. All of our products are manufactured to the strictest guidelines and go through countless testing in all phases of production.

Evolving our strong engine line, DuroStar has complemented its offerings to include Pressure Washers, Water Pumps, Engines and now offering V-Twin engines. Reliability is the highest standard we hold ourselves to, whether its powering a heater during a winter storm that knocks out power, dewatering a flooded property, or washing away a deck for the summer season



Notice Regarding Emissions

Engines that are certified to comply with U.S. EPA emission regulations for SORE (Small off Road Equipment), are certified to operate on regular unleaded gasoline, and may include the following emission control systems: (EM) Engine Modifications and (TWC) Three-Way Catalyst (if so equipped).

GENERAL SAFETY PROCEDURES



SAFETY ALERT SYMBOL

The safety alert symbol is used with one of the safety words (**DANGER**, **CAUTION**, or **WARNING**) to alert you of hazards. Please pay attention to these hazard notices both in this manual and on the generator.

Please familiarize yourself with the following safety symbols and words:

- **DANGER:** Indicates a hazard that will result in serious injury or death if instructions are not followed.
- **WARNING:** Indicates a strong possibility of causing serious injury or death if instructions are not followed.
- **CAUTION:** Indicates a possibility of personal injury or equipment damage if instructions are not followed.



DANGER: This generator produces poisonous carbon monoxide gas when running. This gas is both odorless and colorless. Even if you do not see or smell gas, carbon monoxide may still be present. Breathing this poison can lead to headaches, dizziness, drowsiness, and eventually death.

- Use outdoors **ONLY** in non-confined areas.
- Keep several feet of clearance on all sides to allow proper ventilation of the generator.



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



WARNING: This generator produces heat when running. Temperatures near exhaust can exceed 150°F (65°C).

- Do not touch hot surfaces. Pay attention to warning labels on the generator denoting hot parts of the machine.
- Allow generator to cool several minutes after use before touching engine or areas which heat during use.

GENERAL SAFETY PROCEDURES



WARNING: This generator may emit highly flammable and explosive gasoline vapors, which can cause severe burns or even death. A nearby open flame can lead to an explosion even if not directly in contact with gas.

- Do not operate near an open flame.
- Do not smoke near generator.
- Always operate on a firm, level surface.
- Always turn generator off before refueling.
- Allow generator to cool for at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Do not overfill gas tank. Gas may expand during operation. Do not fill to the top of the tank.
- Always check for spilled gas before operating.
- Empty the gasoline tank before storing or transporting the generator.
- Before transporting, turn fuel valve to the off position and disconnect the spark plug.



WARNING: This generator produces a powerful voltage, which can result in electrocution.

- ALWAYS ground the generator before using it (see the “Grounding the Generator” portion of the “PREPARING THE GENERATOR FOR USE section).
- Generator should only be plugged into electrical devices, either directly or with an extension cord. NEVER connect to a building electrical system without a qualified electrician. Such connections must comply with local electrical laws and codes. Failure to comply can create a backflow of power, which may result in serious injury or death to utility workers.
- Use a ground fault circuit interrupter (GFCI) in highly conductive areas such as metal decking or steel work. GFCIs are available in-line with some extension cords.
- Do not use uncovered in rainy or wet conditions.
- Do not touch bare wires or receptacles (outlets).
- Do not allow children or non-qualified persons to operate.

GENERAL SAFETY PROCEDURES

In addition to the above safety notices, please familiarize yourself with the safety and hazard markings on the generator.



⚠ 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.

⚠ WARNING

THIS GENERATOR IS NOT INTENDED TO POWER SENSITIVE ELECTRONIC EQUIPMENT WITHOUT THE ADDITION OF AN APPROPRIATE LINE CONDITIONER (SOLD SEPARATELY).

HIGH VOLTAGE ELECTRICAL

⚠ WARNING

1. All personnel must wear ANSI approved safety goggles when setting up this generator, working with tools and equipment.
2. Before using this generator, you must read the Engine Operation, Maintenance, Parts and Gasoline Generator Instructions manual. Read and adhere to all safety warnings to reduce the risk of personal injury and damage to equipment.
3. All electrical work, including earth-ground connections, should be completed by a licensed electrician.
4. **⚠ DANGER** Generator fuel and fumes are flammable and potentially explosive. Use proper fuel storage and handling procedures while using this generator.
5. Remove any flammable materials next to or from this equipment.
6. **⚠ DANGER** Do not smoke, allow sparks, allow flames, or other sources of ignition around the engine, fuel tank, or battery. Fuel vapors are explosive. While charging, batteries emit hydrogen gas which is highly explosive. Do not refill the generator fuel tank while the engine is running.
7. Keep access doors on enclosures closed and locked when access is not required.
8. Read and adhere to all electrical warnings and precautions discussed in the instruction manuals before setting up and running the generator.
9. **⚠ DANGER** Do not attempt to start the generator engine before it has been checked for sufficient and recommended fuel and oil. Generator battery should be fully charged.
10. All maintenance must be performed by a qualified mechanic or licensed electrician.

DO NOT REMOVE THIS WARNING LABEL

Made in China

⚠ WARNING

CHECK ENGINE OIL LEVEL BEFORE EACH START

CAPACITY: .6L / 20oz. (US)

CAUTION

RISK OF ELECTRIC SHOCK

Always ground yourself before working on the generator. Never touch bare wires or terminals. Do not repair the wiring electrical system.

⚠ WARNING

CHECK FOR FUEL LEAKS OR SPILLS BEFORE OPERATING. NEVER FUEL WHILE GENERATOR IS RUNNING.

READ FIRST

READ OWNER'S MANUAL BEFORE OPERATING THIS GENERATOR.

CAUTION HOT EXHAUST KEEP SAFE DISTANCE

BURN RISK CARBON MONOXIDE SAFE DISTANCE

⚠ DON'T TOUCH



HIGH TEMPERATURE

⚠ DON'T TOUCH

QUICK START GUIDE (GASOLINE)



1. Remove shipping braces

The shipping braces prevent engine movement during shipment. Flip the generator over and remove the brightly colored brace between the motor and the frame, and the wood brace under the generator.



2. Add oil

The oil fill cap is located on the lower engine block to the right of the recoil start housing. Remove the oil fill cap and fill with 10w30 oil.



3. Add gasoline

The fuel cap is located on top of the fuel tank. Fill the tank with fresh unleaded gasoline 87 octane or higher. The tank is full when you see fuel in the bottom of the fuel filter cup. DO NOT overfill the tank.



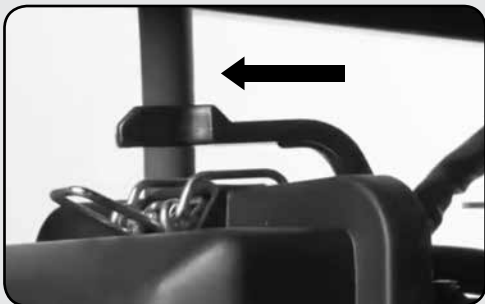
4. Turn breaker off

The breaker is located on the right side of the front power panel. Flip the breaker down to prevent accidental load when starting the generator.



5. Turn gas valve on

The gas valve is located above the recoil start on the bottom of the fuel tank. Rotate the valve clockwise to the vertical position to turn on the gas supply.



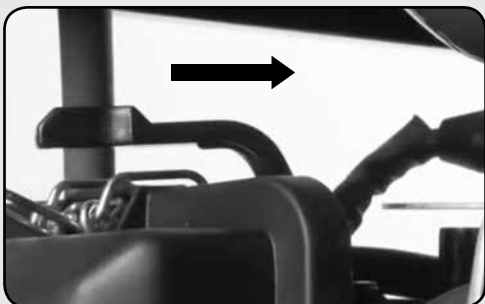
6. Close choke

The choke lever is located above the air filter to the right of the recoil start. Slide the lever to the left to cut the air supply and allow more gas into the engine to start.



7. Start generator

The key switch is located on the left side of the front power panel. Insert the key and turn to the start position to start the generator. Allow the key to return to the run position once started.



8. Open choke

The choke lever is located above the air filter to the right of the recoil start. Slide the lever to the right to open the choke and increase air into the carburetor for normal running.



9. Turn breaker on

The breaker is located on the right side of the front power panel. Flip the breaker up to allow power to flow to the receptacles.



10. Connect devices

Connect your devices to the receptacles on the front panel. Start with the largest loads first.

QUICK START GUIDE (PROPANE)



1. Remove shipping braces

The shipping braces prevent engine movement during shipment. Flip the generator over and remove the brightly colored brace between the motor and the frame, and the wood brace under the generator.



2. Add oil

The oil fill cap is located on the lower engine block to the right of the recoil start housing. Remove the oil fill cap and fill with 10w30 oil.



3. Turn breaker off

The breaker is located on the right side of the front power panel. Flip the breaker down to prevent accidental load when starting the generator.



4. Turn gas valve off

The gas valve is located above the recoil start on the bottom of the fuel tank. Rotate the valve counter clockwise to the horizontal position to stop the flow of gasoline to the carburetor.



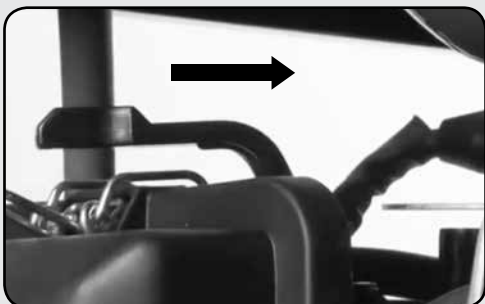
5. Connect propane hose

The propane regulator / decompression valve is located on the frame of the generator below the OHV valve cover. Ensure the propane hose is securely connected to the regulator/compression valve.



6. Connect propane tank

The propane hose is located on the left side of the regulator, below the OHV valve cover. Screw the open ACME nut connection to your propane tank and turn the tank on.



7. Adjust choke

The choke lever is located above the air filter to the right of the recoil start. Slide the lever to the right to open the choke and increase air into the carburetor for normal running.



8. Start

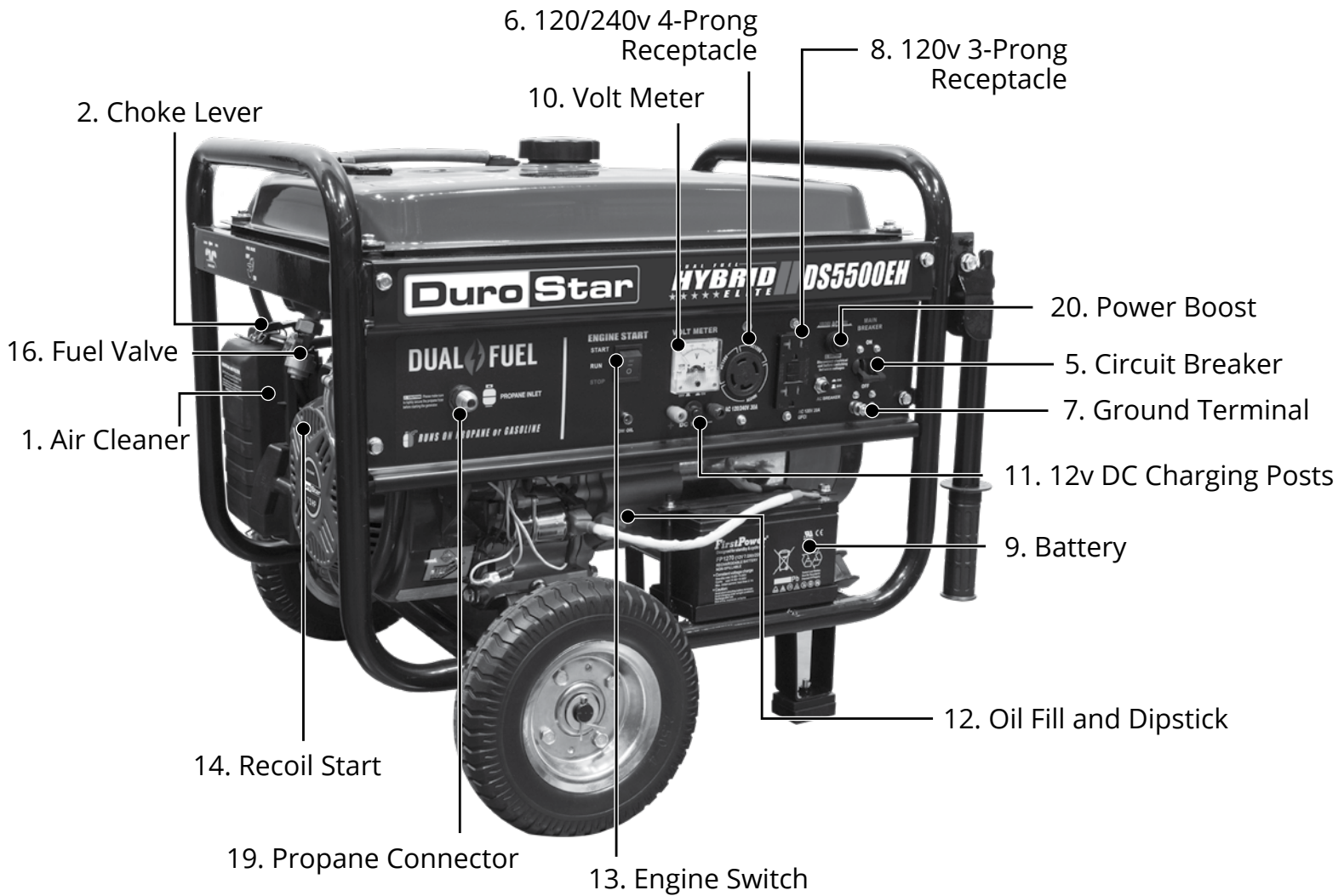
The key switch is located on the left side of the front power panel. Insert the key and turn to the start position to start the generator. Allow the key to return to the run position once started.



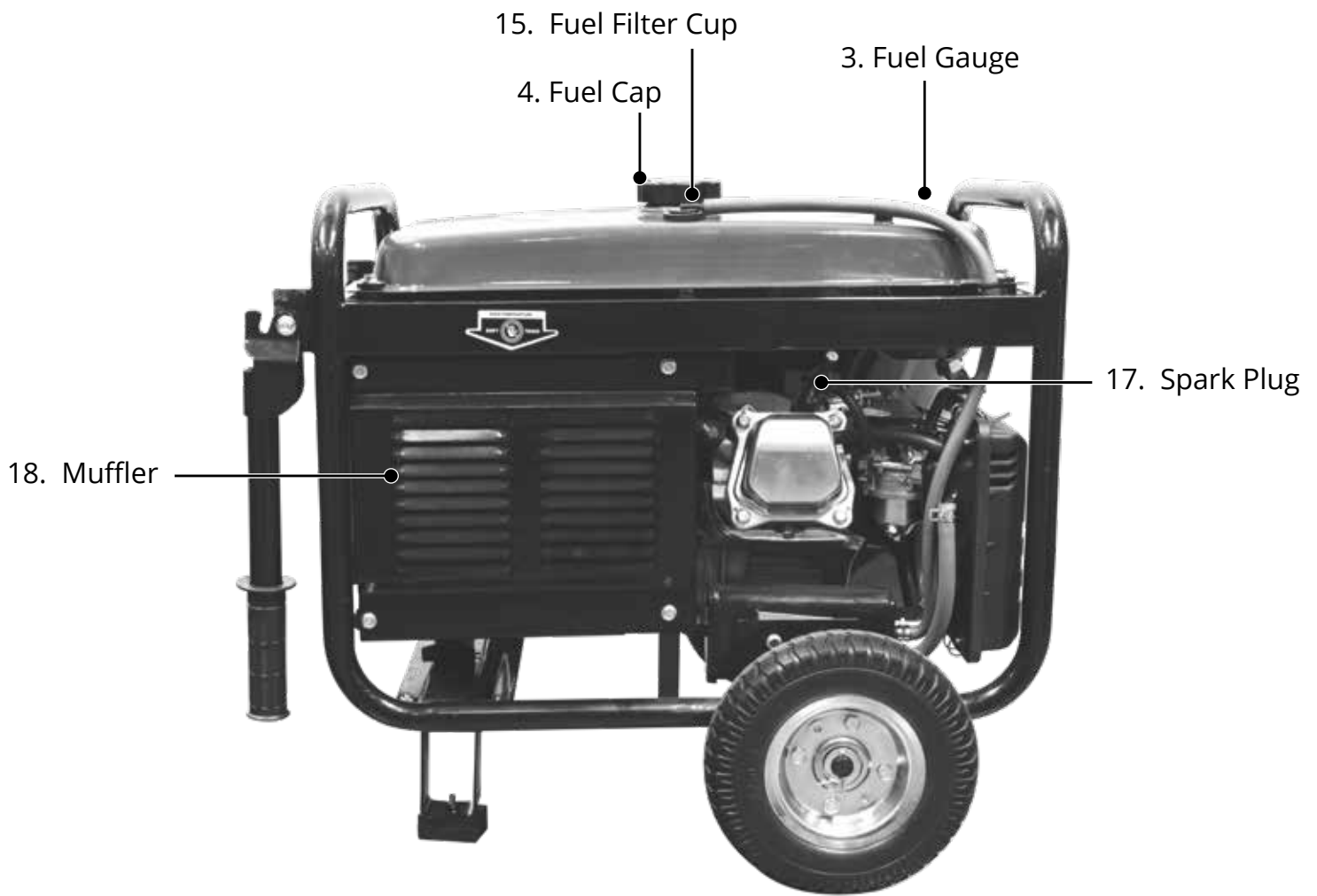
9. Turn breaker on / connect

The breaker is located on the right side of the front power panel. Flip the breaker up to allow power to flow to the receptacles. Connect your devices to the receptacles on the front panel. Start with the largest loads first.

GENERATOR COMPONENTS



1. **Air Cleaner** - a removable, cleanable, oiled, sponge-like element that cleans the air going into the engine.
2. **Choke Lever** - Allows the airflow into the carburetor to be restricted to assist in starting the engine.
3. **Fuel Gauge** - Indicates the amount of fuel in the gasoline tank.
4. **Fuel Cap** - Allows access to fill the gasoline tank.
5. **Circuit Breaker** - Resettable switch that protects the generator from electrical overload.
6. **120/240v 4-Prong Receptacle** - Use to connect electrical devices that run 120 or 240 Volt, 60Hz, single phase, AC current (NEMA L14-30).
7. **Ground Terminal** - Connect a ground wire here to properly ground the generator.
8. **120v 3-Prong Receptacle** - Use to connect electrical devices that run 120 Volt, 60 Hz, single phase, AC current (NEMA 5-20).
9. **Battery** - 12V DC 7ah Battery that powers the Electric Start System.
10. **Volt Meter** - Provides reading of voltage output.



- 11. **12v DC Charging Posts** – DC Output for charging batteries or running small DC powered items.
- 12. **Oil Fill and Dipstick** - Use to add or check the oil.
- 13. **Engine Switch** – 3 Position Switch to “Start”, “Run”, or turn “Off” the generator.
- 14. **Recoil Start** – Easy Pull Recoil Start to start the engine without the electric start.
- 15. **Fuel Filter Cup** - Traps dirt and debris in gasoline before it enters the engine.
- 16. **Fuel Valve** - On/Off Valve that allows fuel into the engine.
- 17. **Spark plug** – Provides ignition to the engine.
- 18. **Muffler** – Reduces engine emissions and reduces noise.
- 19. **Propane Tank Connector** – Connects the LPG tank to the LPG Regulator.
- 20. **Power Boost** – DuroStar exclusive Power Boost doubles the amperage available in “120v Only” for heavy loads like RV air conditioners.

PACKAGE CONTENTS

Your generator comes with the items listed below. Please check to see that all of the following items are included with your generator.



Double Sided Screw Driver

Phillips and slot blade screwdriver used for generator maintenance.



Spanner

Assorted wrenches used in generator maintenance and assembly. Commonly 8mm, 10mm, 13mm, and 15mm.



Spark Plug Wrench

Used in spark plug maintenance, inspection, and installation.



Oil Funnel w/ hose

Used to add oil to the generator without messy spills.



DC Charge Cables

Used in conjunction with the charging posts to charge 12v automotive style batteries or small DC appliances.



Plug Ends

Plug heads for the receptacles found on the generator are included to make or rewire your own cords.

- Note: Actual tools may differ in appearance or design from image shown.



GENERATOR SETUP

Proper setup of your generator will get you going as soon as possible while making sure you and your equipment are safe and cared for.

GENERATOR SETUP

Step 1 - Remove Shipping Braces



1. Unpack

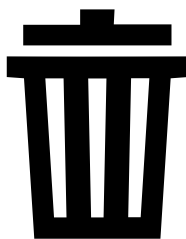
- Remove the generator from the box.
- Place the largest piece of packing foam on a flat surface.
- Flip the generator upside down on the pad.

CAUTION: NEVER Attempt this if you have put fuel or oil in the generator.



2. Remove braces

- Completely remove each of the 4 bolts holding the orange metal brace in place.
- Remove the brace.
- Cut the nylon tie strap holding the wood brace in place.
- Grab the end of the second brace and pull it out.
- This piece is no longer needed and can be discarded.



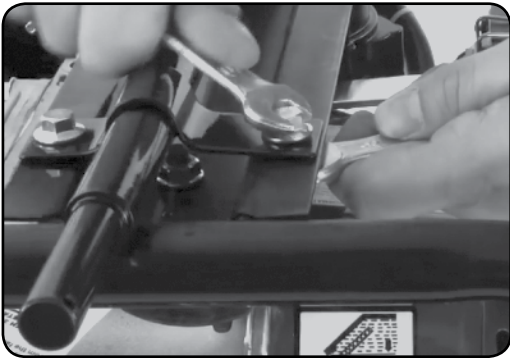
Note: Shipping braces can be thrown away. They will not be needed again.

Step 2 - Wheel Kit Installation (Optional)



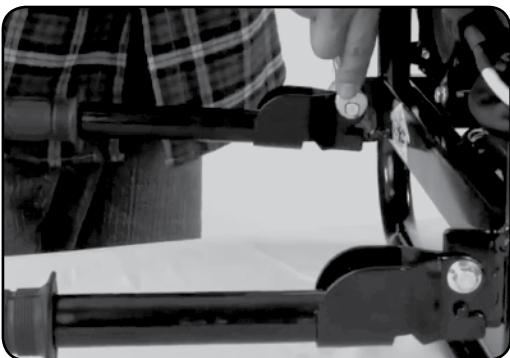
1. Install support legs

Secure the support legs to the frame with provided bolts and lock nuts.



2. Install wheels

- a. Secure the axle bracket welded to axle to the frame with the provided bolts and lock nuts.
- b. Secure the loose axle bracket to the frame with the provided bolts and lock nuts.
- c. Slide one wheel over each axle end and secure with the provided retaining pins.



3. Install Handles

Attach the handles to the brackets on the frame using the provided bolts and nuts.

Do not over tighten the handles, it will prevent free movement.

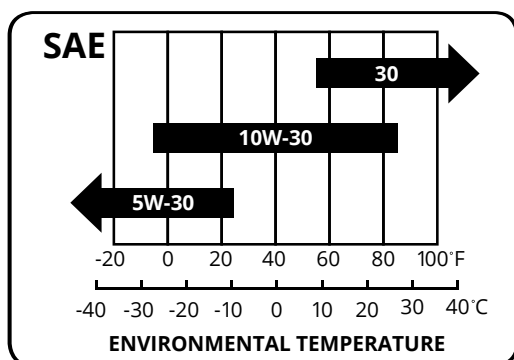
GENERATOR SETUP (CONTINUED)

Step 3 - Adding Oil

The generator requires engine oil to operate properly. The generator, when new from the package contains no oil in the crankcase*. You must add the proper amount of oil before operating the generator for the first time. This amount is equal to the oil capacity of the engine crankcase:

Model Number	DS5500EH
Engine Oil Capacity	20 fl. oz (0.6L)

WARNING: Do not apply engine oils with additives or 2-stroke gasoline engine oils. They don't have enough lubrication, and may shorten the engine's service life.



Engine oil recommended: SAE 10W-30. Viscosity varies with regions and temperatures. Choose your oil viscosity using the chart to the left.

* A small amount of oil from factory testing may be present on arrival.



1. Add oil

- Make sure the generator is on a level surface.
- Unscrew the oil filler/dipstick cap from the engine .
- Using a funnel, add the appropriate amount of oil into the crankcase. You will know the crankcase is full when the oil level has reached the lower lip of the opening you have just poured the oil into.
- Replace oil filler cap.



WARNING: DO NOT overfill the crankcase. This may damage the motor and shorten overall life of your generator.

Step 4 - Adding Gasoline



WARNING: Gasoline and gas fumes are highly flammable.

- Do not fill tank near an open flame.
- Do not overfill. Always check for fuel spills.

To ensure that the generator runs smoothly use only FRESH, UNLEADED GAS WITH AN OCTANE RATING OF 87 OR HIGHER.



2. Add Gasoline

- Make sure the generator is on a level surface.
- Unscrew gas cap and set aside (NOTE: the gas cap may be tight and hard to unscrew).
- Slowly add unleaded gasoline to the fuel tank. Be careful not to overfill. Please refer to the chart below to find the gas capacity of your generator model. The fuel gauge on the top of the gas tank indicates how much gasoline is in the generator gas tank.
- Replace fuel cap and wipe up any spilled gasoline with a dry cloth.

NOTE: Gas can expand. Do not fill the gas tank to the very top. Leave a minimum of 1.5 in of open space.

IMPORTANT:

- Never use an oil/gasoline mixture. Never use old gas.
- Avoid getting dirt or water in the fuel tank.
- Gas can age in the tank and make it hard to start up the generator in the future.
- Never store generator for extended periods of time with fuel in the tank.

Model Number	DS5500EH
Gas Tank Capacity	3.96 US Gallons (15L)

GENERATOR SETUP (CONTINUED)

Step 5 - Grounding the Generator



1. Attach grounding wire

- Ground the generator by tightening the grounding nut against a grounding wire.
- Connect the other end to a copper or brass grounding rod that's driven into the earth.

A generally acceptable grounding wire is a No. 12 AWG (American Wire Gauge) stranded copper wire.



Grounding codes can vary by location. Please contact a local electrician to check the grounding regulations for your area.



WARNING: Failure to properly ground the generator can result in electrocution.

High Altitude Operation

At high altitude, the standard carburetor air/fuel mixture will be too rich. Performance will decrease, and fuel consumption will increase. A very rich mixture will also foul the spark plug and cause hard starting. Operation at an altitude that differs from that at which this engine was certified, for extended periods of time, may increase emissions. High altitude performance can be improved by specific modifications to the carburetor. If you always operate your generator at altitudes above 5,000 feet (1,500 meters), have a dealer perform this carburetor modification. This engine, when operated at high altitude with the carburetor modifications for high altitude use, will meet each emission standard throughout its useful life. Even with carburetor modification, engine horsepower will decrease about 3.5% for each 1,000-foot (300-meter) increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

When the carburetor has been modified for high altitude operation, the air/fuel mixture will be too lean for low altitude use. Operation at altitudes below 5,000 feet (1,500 meters) with a modified carburetor may cause the engine to overheat and result in serious engine damage.



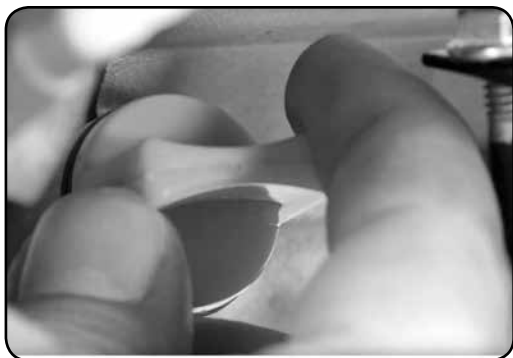
STARTING THE GENERATOR

If this is not your first time using the generator there are still steps you should take to prepare it for operation each time you use it.

IMPORTANT: At this point you should be familiar with the procedures described in the first portion of this section entitled “GENERATOR SETUP” If you have not yet read this section, go back and read it now.

BEFORE YOU START YOUR GENERATOR

Step 1 - Check the oil

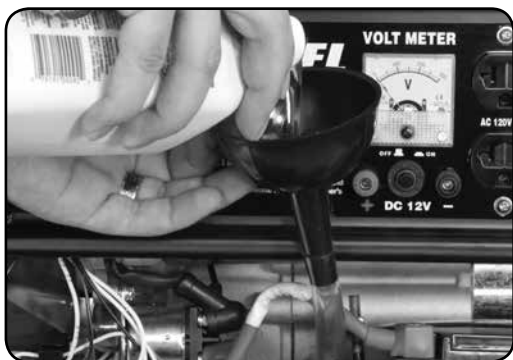


1. Check the oil

The generator is equipped with an automatic shutoff to protect it from damage due to low oil. Nonetheless, you should check the oil level of the engine before each use to ensure that the engine crankcase has a sufficient amount.

To check the oil level:

- a. Make sure the generator is on a level surface.
- b. Unscrew the oil filler/dipstick cap.
- c. With a dry cloth, wipe the oil off of the stick on the inside of the cap.
- d. Insert the dipstick as if you were replacing the cap and then remove again. There should now be oil on the stick. If there is no oil on the stick, or oil only at the very end of the stick, you should add oil until the engine crankcase is filled (see “Adding Oil” portion of the “Maintenance” section).
- e. Be sure to replace the cap when finished checking oil.



NOTE: The oil capacity for your generator can be found in the “Specifications” section of this manual.

Step 2 - Check the gas level



1. Check Fuel Level

Before starting the generator, check to see that there is sufficient gasoline in the fuel tank. The fuel gauge on top of the tank will give a rough estimate of the gasoline level. The gauge will appear white then fill red as the tank is filled.

Note: Fuel gauge may not register with less than 1/3 fuel tank full.



WARNING: Gasoline and gasoline fumes are highly flammable.

- Do not fill tank near an open flame.
- Always allow engine to cool for several minutes before refueling.
- DO NOT overfill fuel tank. Fuel expands when shaken or heated. ALWAYS leave 1½" space or more at the top of the tank.
- ALWAYS use fresh fuel or stabilized fuel. Old gasoline (older than 30 days) can cause permanent damage to the fuel system.
- Always check for fuel spills.

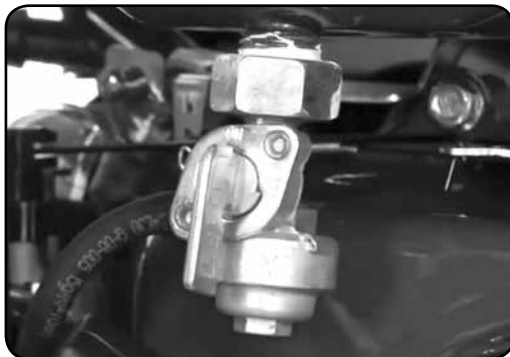
STARTING THE GENERATOR

Starting the Generator Using Gasoline



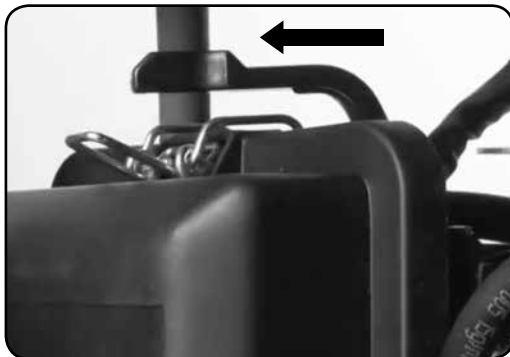
1. Shut breaker off

The breaker is located on the right side of the front power panel. Flip the breaker down to prevent accidental load when starting the generator.



2. Turn gas valve on

The gas valve is located above the recoil start on the bottom of the fuel tank. Rotate the valve clockwise to the vertical position to turn on the gas supply.



3. Close choke

The choke lever is located above the air filter to the right of the recoil start. Slide the lever to the left to cut the air supply and allow more gas into the engine to start.



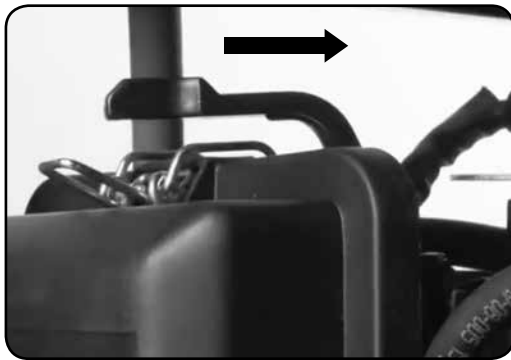
4. Start the generator

The engine switch is located on the left side of the front power panel. Press the switch up to the "START" Position.



5. Allow switch return to RUN

When the engine starts, allow the engine switch to return to the "RUN" position.



6. Open choke

Push the choke to the OPEN position as the engine warms up.



CAUTION: LPG must be shut off when using gasoline!



CAUTION: Gasoline must be shut off when using LPG!



CAUTION: Disconnect all electrical loads from the generator before attempting to start!



WARNING: Operating the starter motor for more than 5 seconds can damage the motor. If the engine fails to start, release the switch and wait 10 seconds before operating the starter again.

STARTING THE GENERATOR (CONTINUED)

Starting the Generator Using Propane



1. Turn breaker off

The breaker is located on the right side of the front power panel. Flip the breaker down to prevent accidental load when starting the generator.



2. Turn gas valve off

The gas valve is located above the recoil start on the bottom of the fuel tank. Rotate the valve counter clockwise to the horizontal position to stop the flow of gasoline to the carburetor.



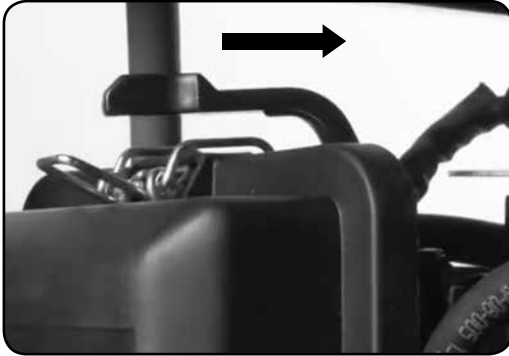
3. Connect propane hose

The propane inlet is located on the far right side of the front panel. Ensure the propane hose is securely connected to the inlet.



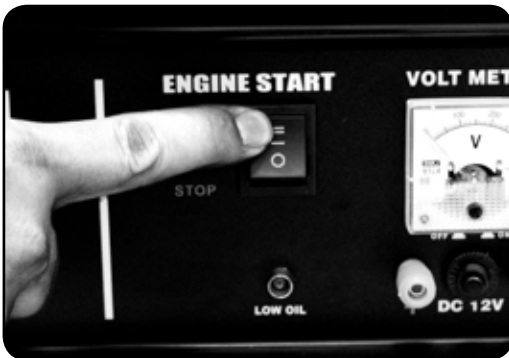
4. Connect propane tank

Screw the ACME nut connection on the propane hose to your propane tank and turn the tank on.



5. Adjust choke

The choke lever is located above the air filter to the right of the recoil start. Slide the lever to the right to open the choke and increase air into the carburetor for normal running.



6. Start the generator

The engine switch is located on the left side of the front power panel. Press the switch up to the "START" Position.



7. Allow switch return to RUN

When the engine starts, allow the engine switch to return to the "RUN" position.



8. Turn breaker on / connect

The breaker is located on the right side of the front power panel. Flip the breaker up to allow power to flow to the receptacles. Connect your devices to the receptacles on the front panel. Start with the largest loads first.

STARTING THE GENERATOR (CONTINUED)

Starting the Generator Using Propane



WARNING: WHEN USING THE GENERATOR WITH LPG, MAKE SURE THERE IS NO POSSIBLE IGNITION SOURCE CLOSE TO THE GENERATOR.

1. Before using, make sure all of the LPG connectors and hoses are well connected and sealed.
2. Connect electrical devices to generator ONLY after the engine runs smoothly. (There may be remnant gasoline in the carburetor; this can cause unsteady engine performance for several minutes)
3. If the propane gas leaks, shut off the LPG supply first and then quickly unplug or turn off any electrical devices powered by the unit.
4. When stopping the engine, unplug or turn off any electrical devices, turn off the Main Circuit Breaker and then turn off the LPG Supply. After the engine has stopped turn the KEY to 'OFF' position.



USING THE GENERATOR

If this is not your first time using the generator there are still steps you should take to prepare it for operation each time you use it.

IMPORTANT: At this point you should be familiar with the procedures described in the first portion of this section entitled “GENERATOR SETUP” If you have not yet read this section, go back and read it now.

USING THE GENERATOR

AC Usage

- You may connect electrical devices running on AC current according to their wattage requirements.
- The chart below shows the rated and surge wattage of your generator according to its model number.
- The rated wattage corresponds to the maximum wattage the generator can output on a continuous basis.
- The surge wattage corresponds to the maximum amount of power the generator can output for a short period of time. Many electrical devices such as refrigerators require short bursts of extra power, in addition the rated wattage listed by the device, to stop and start their motors. The surge wattage ability of the generator covers this extra power requirement.

Fuel Source	Rated (Running Wattage)	Surge (Peak) Wattage
Gasoline	4500	5500
Propane	4275	5225

The total running wattage requirement of the electrical devices connected to the generator should not exceed the rated wattage of the generator itself. To calculate the total wattage requirement of the electrical devices you wish to connect, find the rated (or running) wattage of each device. This number should be listed somewhere on the device or in its instruction manual.

If you cannot find this wattage, you may calculate it by multiplying the Voltage requirement by the Amperage drawn: $\text{Watts} = \text{Volts} \times \text{Amps}$. If these specifications are not available you may estimate the Watts required by your device by using the chart on the next page.

Once you have found the rated wattage requirement of each electrical device, add these numbers to find the total rated wattage you wish to draw from the generator. If this number exceeds the rated wattage of the generator, DO NOT connect all these devices. Select a combination of electrical devices, which has a total rated wattage lower than or equal to the rated wattage of the generator.

Tool or Appliance	Rated (Running) Watts	Additional Surge Watts
Electric water heater (40 gal)	4000	0
Hot plate	2500	0
Radial arm saw	2000	2000
Electric Stove	1500	0
Circular Saw	1500	1500
Air compressor (1 HP)	1500	3000
Window air conditioner	1200	1800
Miter saw	1200	1800
Microwave	1000	2000
Well water pump	1000	1500
Reciprocating saw	960	1040
Sump pump	800	1200
Refrigerator freezer	800	1200
Furnace blower	800	1300
Computer	800	0
Electric drill	600	900
Television	500	0
Deep freezer	500	800
Garage door opener	480	600
Stereo	400	0
Box fan	300	600
Clock radio	300	0
Security system	180	0
DVD Player	100	0
Common light bulb	75	0



CAUTION - The generator can only run at its surge wattage capacity for a very short time. Connect only electrical devices requiring a rated (running) wattage equal to or less than the rated wattage of the generator. Never connect devices requiring a rated wattage equal to the surge wattage of the generator.

*NOTE: The above wattage figures are estimates only.
Try to check the wattage listed on your electrical devices before consulting this chart.*

USING THE GENERATOR (CONTINUED)

Connecting a load to the generator

NOTE: Be sure to attach devices to the correct receptacle (outlet).

- 120v devices can be directly connected to the 120v ONLY receptacles.
- 120v devices can be connected to the 120/240v receptacle using an appropriate adapter.
- 240v devices can ONLY be connected the 240v receptacle.



CAUTION: Do not connect 50Hz or 3-phase loads to the generator.



1. Plug in devices

Plug in devices to the appropriate receptacle. When using the generator in 120/240v mode, balance the load as closely as possible. Placing more load on one side of the circuit will reduce the breaker trip period.



2. Turn breaker on

Flip the circuit breaker up to the on position to allow power to the receptacles.



3. Turn on connected devices

Start or turn on appliances starting with the biggest loads first.

Voltage Selector Switch

This generator features Power Boost Technology, which gives the user the ability to double the power in the generator for more heavy duty applications.



The voltage selector switches the dual 120v AC windings of the generator to produce "120V ONLY" or "120/240V". If a 240V appliance is connected to the 4-prong receptacle, the switch must be in the "120/240V" position. If only 120V appliances are being connected to the generator select the "120V ONLY" position to double the 120v amperage and automatically balance the load.



WARNING - Only change the Voltage Selector Switch with the main AC Circuit Breaker OFF. The generator can be seriously damaged if the Voltage Selector Switch is changed with the breaker ON.

Choosing the right power cord

Long or thin cords can drain the power provided to an electrical device by the generator. When using such cords, allow for a slightly higher rated wattage requirement for the electrical device. See table below for recommended cords based on the power requirement of the electrical device.

DEVICE REQUIREMENTS		WIRE GAUGE BY LENGTH (ft.)				
AMPS	WATTS (120/240V)	10	25	50	100	150
5	600/1200	18	16	14	12	10
10	1200/2400	16	14	12	10	8
15	1800/3600	14	12	10	8	6
20	2400/4800	12	10	8	6	4
25	3000/6000	10	8	6	4	4
30	3600/7200	8	6	4	4	NR
40	4800/9600	6	4	4	NR	NR
50	6000/1200	4	4	2	NR	NR

***NR = NOT RECOMMENDED**

USING THE GENERATOR (CONTINUED)

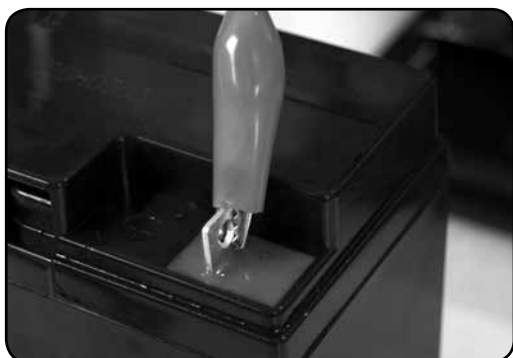
DC Usage



CAUTION: The DC receptacle is for recharging 12 Volt automotive-type batteries only. Do not connect any other device to this receptacle.

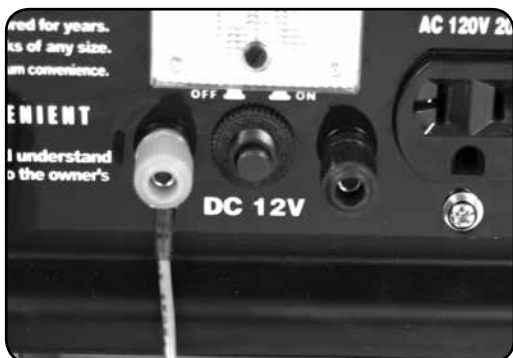


CAUTION: Never try to jump start a car with your generator.



1. Connect the battery

Connect one charging wire to the positive terminal on the battery and the other charging wire to the negative terminal on the battery.



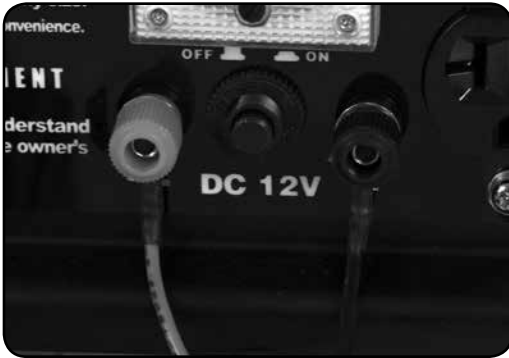
2. Connect positive receptacle

Connect the free end of the positive wire to the positive receptacle (outlet) on the generator.



3. Start the generator

The engine switch is located on the left side of the front power panel. Press the switch up to the "START" Position.



4. Connect negative receptacle

Carefully connect the free end of the negative wire to the negative receptacle on the generator.



5. Disconnecting

When disconnecting, always disconnect the wires from the generator first to avoid a spark.



DANGER - Stored batteries emit highly explosive hydrogen gas when charged. Batteries also contain acid, which can cause severe chemical burns.



DANGER - Do not allow open flames or cigarettes nearby for several minutes after charging a battery.



DANGER - Always wear protective goggles and rubber gloves when charging a battery.



DANGER - If battery acid gets on your skin, flush with water. If battery acid gets in your eyes, flush with water and call a physician immediately.



DANGER - If battery acid is swallowed, drink large quantities of milk and call a Physician immediately.



MAINTENANCE AND CARE

Proper maintenance and storage of your generator is essential to ensure trouble free use of your generator when you need it.

By following the maintenance and care requirements, you can keep your generator running smooth and efficient for years to come.

MAINTENANCE AND CARE

Proper routine maintenance of your generator is essential for safe, economical, and trouble-free operation. It will also help reduce air pollution.



WARNING: Improper maintenance, or failure to correct a problem before operation, can cause a malfunction in which you can be seriously injured or killed. Always follow the inspection and maintenance recommendations and schedules in this instruction manual.

- Make sure the engine is off before you begin any maintenance or repairs.
- Let the engine and exhaust system cool before touching.
- To reduce the possibility of fire or explosion, be careful when working around gasoline. Use only a nonflammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks, and flames away from all fuel related parts.

Maintenance Schedule

Remember that this schedule is based on the assumption that your machine will be used for its designed purpose. Sustained high-load, high temperature operation, or use in unusually wet or dusty conditions, will require more frequent service.

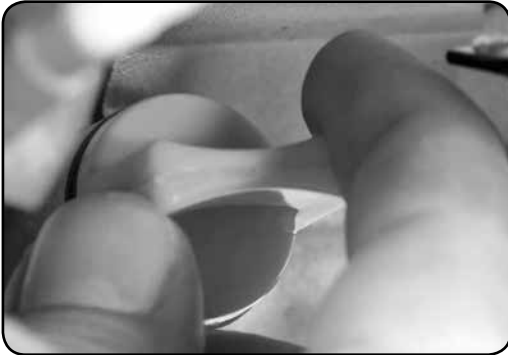
SERVICE		REGULAR SERVICE PERIOD				
		BEFORE EACH USE	EVERY MO. OR 20 HRS	EVERY 3 MO. OR 50 HRS	EVERY 6 MO. OR 100 HRS	EVERY 12 MO. OR 300 HRS
ENGINE OIL	CHECK					
	CHANGE					
AIR CLEANER	CHECK					
	CHANGE					
SEDIMENT CUP	CLEAN					
SPARK PLUG	CLEAN-ADJUST					
	REPLACE					
SPARK ARRESTOR	CLEAN					
IDLE SPEED	CHECK / ADJUST					
VALVE CLEARANCE	CHECK-ADJUST					
COMBUSTION CHAMBER	CLEAN	500 HOURS				
FUEL TANK / FILTER	CLEAN					
FUEL TUBE	CHECK	EVERY 24 MO. (REPLACE IF NECESSARY)				
TO BE PERFORMED AT EVERY MONTH INDICATED OR HOUR INTERVAL WHICH EVER COMES FIRST						

MAINTENANCE LOG

Date	Generator Hours	Maintenance Performed

MAINTENANCE AND CARE (CONTINUED)

Checking the oil

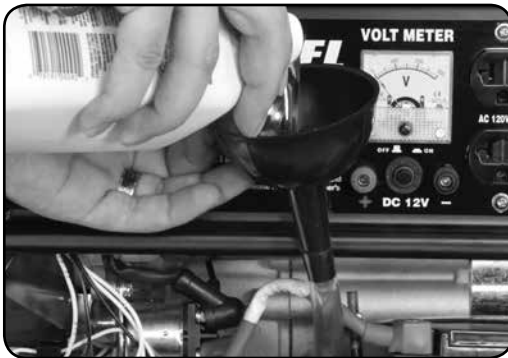


1. Check the oil

The generator is equipped with an automatic shutoff to protect it from damage due to low oil. Nonetheless, you should check the oil level of the engine before each use to ensure that the engine crankcase has a sufficient amount.

To check the oil level:

- a. Make sure the generator is on a level surface.
- b. Unscrew the oil filler/dipstick cap.
- c. With a dry cloth, wipe the oil off of the stick on the inside of the cap.
- d. Insert the dipstick as if you were replacing the cap and then remove again. There should now be oil on the stick. If there is no oil on the stick, or oil only at the very end of the stick, you should add oil until the engine crankcase is filled (see “Adding Oil” portion of the “Maintenance” section).
- e. Be sure to replace the cap when finished checking oil.



NOTE: The oil capacity for your generator can be found in the “Specifications” section of this manual.

Changing the oil

Worn out or dirty oil does not cool the generator properly and can lead to catastrophic engine damage.

In addition to regular oil changes, it is necessary to drain the oil from the crankcase if it has become contaminated with water or dirt.



2. Remove drain plug

Using a 10 mm hex wrench, unscrew the oil drain plug, which is located on the crankcase underneath the oil filler/dipstick cap.

Allow all the oil to drain from the generator.



2. Drain oil

Drain oil into an approved oil disposal container. Contact your local auto parts store for information on oil disposal.



3. Replace drain plug

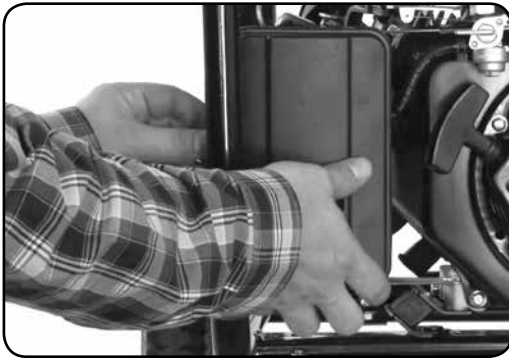
Replace the oil drain plug and tighten with a 10 mm hex wrench.

MAINTENANCE AND CARE (CONTINUED)

Cleaning the air cleaner

Routine maintenance of the air cleaner helps maintain proper airflow to the carburetor. Check that the air cleaner is free of excessive dirt after every use.

Note: Improper maintenance may cause less air to enter the engine or dirty air to enter the engine causing overheating and engine wear.



1. Open cleaner cover

Unhinge the clasps at the top and bottom of the air cleaner cover.



2. Remove cleaner element

Remove the sponge-like elements from the casing.



3. Wipe out cleaner casing

Wipe the dirt from inside the empty air cleaner casing.



4. Wash cleaner element

Wash the sponge-like elements in household dish detergent and warm water.



5. Dry cleaner element

Allow the elements to dry completely.



6. Add engine oil to elements

Soak the dry elements in a small amount of engine oil. Ring out any excess oil.



7. Replace elements in casing

Replace the sponge-like elements in the air cleaner casing and replace the cover.

MAINTENANCE AND CARE (CONTINUED)

Spark Plug Maintenance

The spark plug is important for proper engine operation. A good spark plug should be intact, free of deposits, and properly gapped.

Improper maintenance may cause reduced fuel economy, misfires, trouble starting, or damage to the spark plug threads.



1. Remove spark plug cap

Pull on the spark plug cap to remove it.



2. Remove spark plug

Unscrew the spark plug from the generator using the spark plug wrench included with this product.



3. Inspect spark plug

Visually inspect the spark plug. If it is cracked or chipped, discard and replace with a new spark plug. We recommend using a F7RTC spark plug such as NGK BPR6ES.



4. Measure plug gap

Measure the plug gap with a gauge. The gap should be 0.7-0.8 mm (0.028-0.031 in).



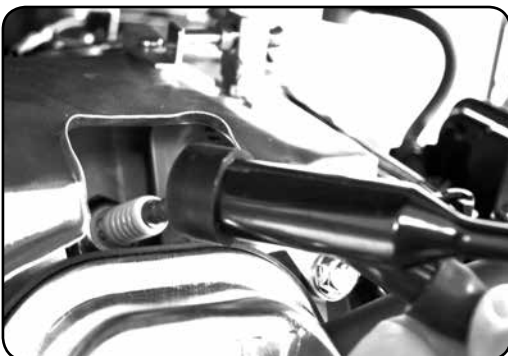
5. Clean and re-gap

If you are re-using the spark plug, use a wire brush to clean any dirt from around the spark plug base and then re-gap the spark plug.



6. Replace spark plug

Screw the spark plug back into its place on the generator using the spark plug wrench.



7. Replace spark plug cap

Replace the spark plug cap.

MAINTENANCE AND CARE (CONTINUED)

Emptying the Gas Tank

Before storing your generator for extended periods of time, you should drain your generator of gasoline.



CAUTION: Do not store fuel from one season to another. Gasoline sold at the pump today contains additives such as ethanol that even when stored properly may damage the fuel system components.



1. Shut fuel valve off

Turn the fuel valve to the "OFF" position.



2. Remove fuel filter cup

Remove the fuel filter cup (see "Removing the Fuel Filter Cup" earlier in this section).



3. Empty fuel filter cup

Empty the fuel filter cup of any fuel.



4. Drain gas from generator

With a receptacle underneath the generator to catch the gas, turn the fuel valve to the "ON" position. Drain all the gas from the generator.



5. Shut fuel valve off

Turn the fuel valve to the "OFF" position.



6. Replace fuel filter cup

Reinstall the fuel filter cup.



7. Store emptied gas

Store the emptied gasoline in a suitable place and add fuel stabilizer to keep fuel fresh and usable.

MAINTENANCE AND CARE (CONTINUED)

Cleaning the fuel filter cup



1. Shut fuel valve off

Turn the fuel valve to the "OFF" position.



2. Remove fuel filter cup

Unscrew the fuel filter cup from the fuel valve using a wrench. Turn the valve towards you to unscrew



3. Clean filter cup

Clean the cup of all sediment using a rag or brush.



4. Replace fuel filter cup

Reinstall the fuel filter cup.

Storage and Transportation



CAUTION: Never place any type of storage cover on the generator while it is still hot.

When transporting your generator:

- Empty the gas tank (see “Emptying the Gas Tank” in the “Maintenance” section).
- Disconnect the spark plug.
- Do not obstruct any ventilation openings & keep the generator in a cool dry area.

Storage Period	Storage Preparation
If you plan on starting the same day.	<ol style="list-style-type: none"> 1. Turn off the main breaker. 2. Allow the unit to run 3 - 5 minutes. 3. Turn off the key. 4. Store.
If you plan on starting the unit again within 30 days.	<ol style="list-style-type: none"> 1. Turn off the main breaker. 2. Allow the unit to run 3 - 5 minutes. 3. Turn off the fuel valve. 4. Allow the unit to stall out. 5. Turn off the key. 6. Add fuel stabilizer to the gas remaining in the tank. 7. Store.
If you do not plan to start the unit for longer than 30 days.	<ol style="list-style-type: none"> 1. Turn off the main breaker. 2. Allow the unit to run 3 - 5 minutes. 3. Turn off the fuel valve. 4. Allow the unit to stall out. 5. Turn off the key. 6. Drain the fuel tank (See “Emptying the Gas Tank” in the “Maintenance” section) 7. Drain the carburetor <ol style="list-style-type: none"> a. Remove the drain bolt from the carburetor. b. Drain the small amount of remaining fuel from the carburetor bowl. 8. Oil the cylinder <ol style="list-style-type: none"> a. Remove the spark plug. b. Put 2 tbsp. of 10w30 motor oil directly into the spark plug hole c. Pull the recoil start one time. d. Replace the plug. 9. Remove the battery and place on tender indoors.

SPECIFICATIONS

AC Rated Wattage (Gasoline)	4500W	
AC Rated Wattage (Propane)	3825W	
AC Surge Wattage (Gasoline)	5500W	
AC Surge Wattage (Propane)	4675W	
AC Rated Voltage	120/240V	
AC Rated Frequency	60 Hz	
AC Phase	Single	
DC Voltage	12V	
DC Amperage	8.3A	
Dimensions	LENGTH	23.2in.
	WIDTH	17in.
	HEIGHT	17in.
Engine Type	4-Stroke OHV Forced-Air	
Ignition System	Non-Contact Transistor	
Displacement	224cc	
Starting Type	Electric	
Fuel Tank Capacity	3.96 US Gal. (15L)	
Oil Capacity	20 fl. oz. (0.6L)	
Run Time @ 50% (Gasoline)	12 hr.	
Run Time @ 50% (Propane)	16 hr. (5 Gallon)	
Noise Level	<69db	



TROUBLESHOOTING

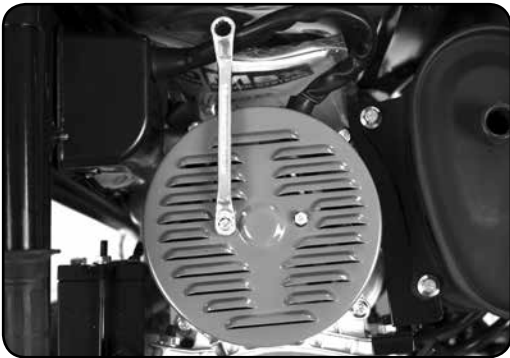
This section of the manual is to help you troubleshoot problems with your generator.

TROUBLESHOOTING

Mode	Description	
Engine will not start	Engine Switch is "Off"	Set engine switch to "run"
	Fuel Valve is "Closed"	Turn fuel valve to "open"
	Choke is open.	Close the choke
	Engine is out of fuel	Add fuel
	Fuel is old or contaminated	Change fuel
	Spark Plug is dirty	Clean spark plug
	Spark Plug is broken	Replace spark plug
	Generator is not level	Move generator to a level surface
	Oil is low	Add / change oil
Engine runs, but there is no electrical output	Circuit breaker is "Off"	Turn "on" circuit breaker
	Wiring connection is bad	Replace extension cord(s)
	Device connected to generator is malfunctioning	Disconnect malfunctioning device
Generator runs, but does not support all electrical devices connected	Generator is overloaded.	Disconnect 1 or more items to reduce the load
	Device connected to generator is bad	Disconnect malfunctioning device
	Air Cleaner is dirty	Clean / replace the air filter

Changing / Inspecting the Carbon Brushes

The carbon brushes in conjunction with the AVR regulates power from the generator. The carbon brushes are wearable parts and should be inspected every 250 running hours.



1. Remove generator cover

Remove the 2 bolts of the generator cover then pull the cover off the generator.



2. Remove bolt from brush

Remove the bolt holding the carbon brush.

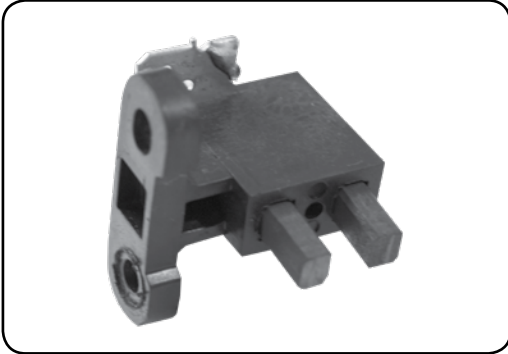


3. Disconnect AVR wires

Remove the two wires from the AVR on the carbon brush

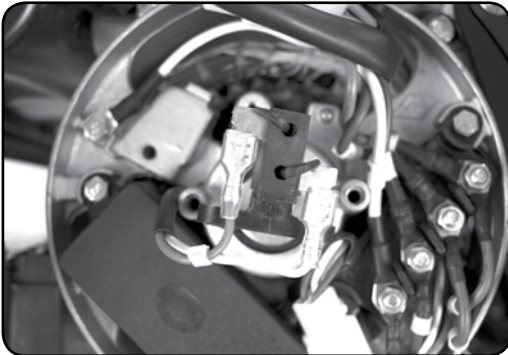
TROUBLESHOOTING (CONTINUED)

Changing / Inspecting the Carbon Brushes (Cont.)



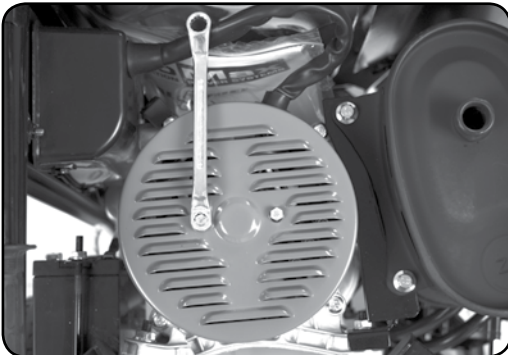
4. Install new brush

Install new carbon brush with bolt.



5. Connect AVR wires

Insert and connect the 2 wires from the AVR, be sure to connect + and - correctly..



6. Replace generator cover

Replace the back cover of the generator and secure with the 2 bolts.

Changing / Inspecting the AVR

The carbon brushes in conjunction with the AVR regulates power from the generator. If the generator is overheated or overloaded, the AVR may be damaged and require replacement.



1. Remove generator cover

Remove the 2 bolts of the generator cover then pull the cover off the generator.



2. Remove AVR bolts

Remove the 2 bolts holding the AVR.



3. Disconnect AVR wire clip

Disconnect the wire clip.

TROUBLESHOOTING (CONTINUED)

Changing / Inspecting the AVR (Continued)



4. Disconnect wires from brush

Remove the 2 wires from the AVR on the carbon brush.



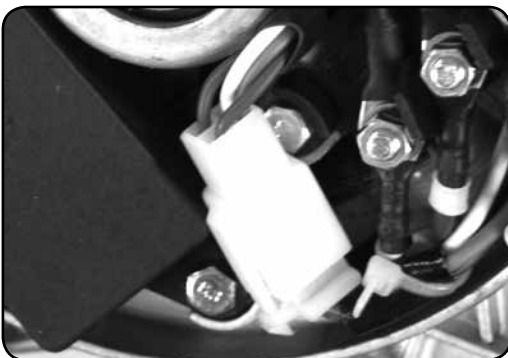
5. Install new AVR

Install the new AVR with the 2 bolts.



6. Reconnect wires to brush

Reconnect the wire clip.



7. Reconnect the AVR wire clip

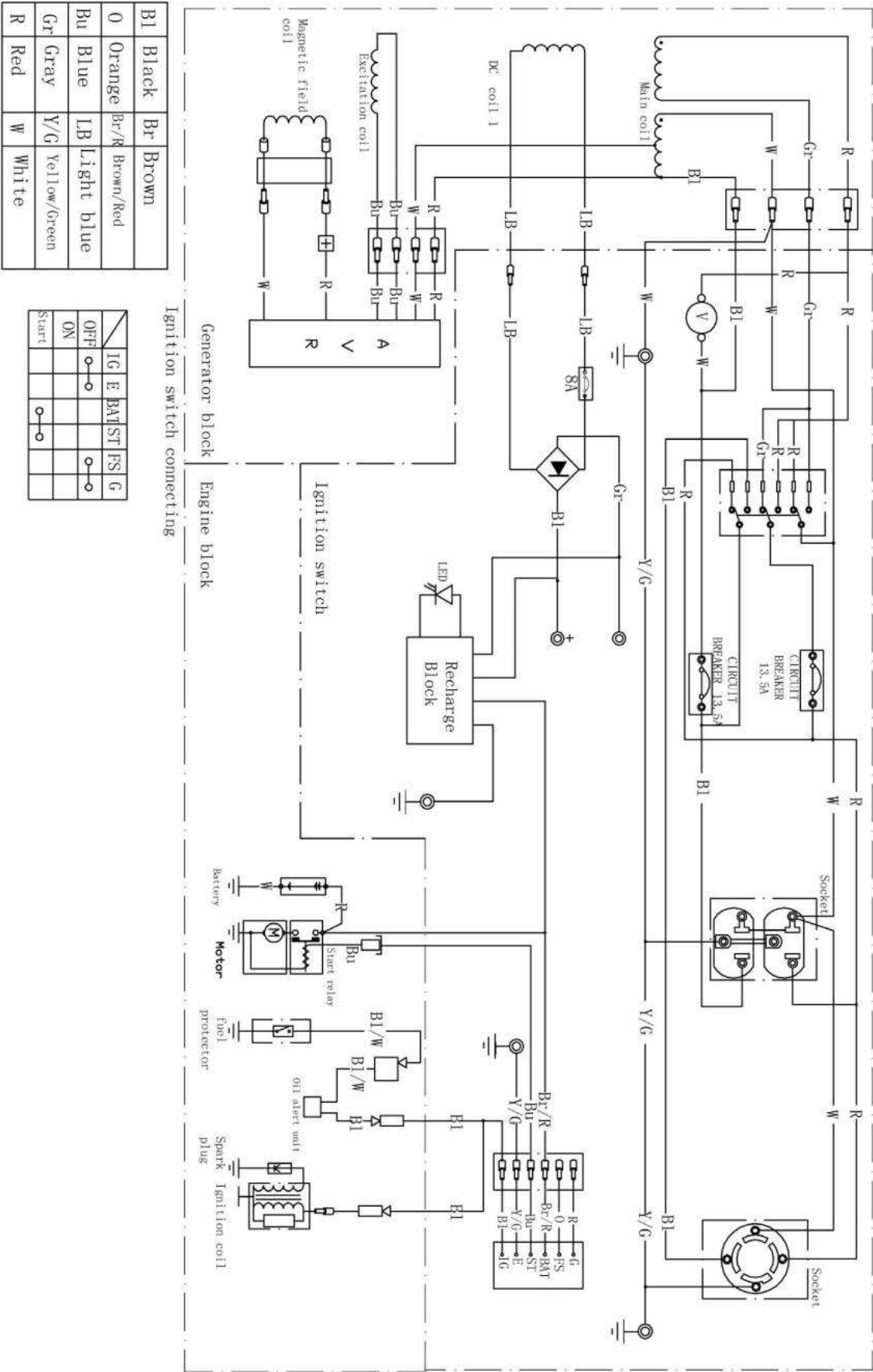
Insert and connect the 2 wires from the AVR, be sure to connect + and - correctly.



8. Replace generator cover

Replace the back cover of the generator and secure with the 2 bolts.

WIRING DIAGRAM



WIRING DIAGRAM OF 120V/240V GENERATOR SET

WARRANTY

3-year Warranty

All DuroMax/DuroStar Power Equipment warrant the original purchasers to a 3-year Parts Warranty (Residential Use ONLY: Unusually heavy or commercial use is covered for a period of 1-year) in the event of failure due to defects in electrical or mechanical components. Freight on any items submitted for replacement or repair under the Warranty are the responsibility of the equipment owner. This warranty is non-transferable and only valid to the original purchaser.

Warranty Exclusions

The DuroMax/DuroStar Power Equipment warranty does not cover repairs or returns when the fault is: Normal Wear and Tear, Installation Use or Maintenance Services, Cosmetic defects, Accessories, Failures due to acts of God or Natural Disasters, or problems related to/from aftermarket or non-OEM parts.

Warranty Limitations

DuroMax/DuroStar Power Equipment does not claim or hold any obligation to loss of time, freight charges, use of product, or any incidental damages from the use of this product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED.

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

The U.S. Environmental Protection Agency (EPA), California Air Resources Board, and Imperial Industrial Supply Co. LTD. / DuroMax Power Equipment are pleased to explain the emissions control system's warranty on your 2018 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. DuroMax Power Equipment must warrant the emissions control system on your small off-road 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 the 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, DuroMax Power Equipment 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 DuroMax Power Equipment.

OWNER'S WARRANTY RESPONSIBILITIES:

- As the small off-road engine owner, you are responsible for performance of the required maintenance listed in your owner's manual. DuroMax Power Equipment recommends that you retain all receipts covering maintenance on your small off-road engine, but DuroMax Power Equipment 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 engine owner, you should however be aware that the DuroMax Power Equipment may deny you warranty coverage if your small off-road 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 engine to a DuroMax Power Equipment distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.
- If you have any questions regarding your warranty coverage, contact us at 800-629-4329 or email support@duromaxpowerequipment.com.

DEFECTS WARRANTY REQUIREMENTS:

The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser and extends for a period of Two Years.

GENERAL EMISSIONS WARRANTY COVERAGE:

DuroMax Power Equipment warrants to the ultimate purchaser and each subsequent owner that the engine or equipment is:

1. Designed, built, and equipped to conform with all applicable regulations adopted by the Air Resources Board; and
2. Free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.

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 Owner's Manual must be warranted for the warranty period stated above. If any such part fails during the period of warranty coverage, it must be repaired or replaced by the manufacturer according to Subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for the remaining warranty period.

WARRANTY (CONTINUED)

1. Any warranted part that is scheduled only for regular inspection in the Owner's Manual must be warranted for the warranty period stated above. 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.
2. Any warranted part that is scheduled for replacement as required maintenance in the Owner's Manual must be warranted for the period 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 the engine manufacturer 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.
3. Repair or replacement of any warranted part under the warranty must be performed at no charge to the owner at a warranty station.
4. Notwithstanding the provisions of Subsection (4) above, warranty services or repairs must be provided at all manufacturer distribution centers that are franchised to service the subject engines.
5. 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.
6. The manufacturer is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part.
7. Throughout the emissions warranty period stated above, the manufacturer must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
8. Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner.
 - a. Such use will not reduce the warranty obligations of the manufacturer.
9. Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any nonexempt add-on or modified parts will be grounds for disallowing a warranty claim. The manufacturer will not be liable to warrant failures of warranted parts caused using a nonexempt add-on or modified part.
10. 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.

Exhaust 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.
2. Air Induction System
 - i. Controlled hot air intake system.
 - ii. Intake manifold.
3. Ignition System
 - i. Spark Plugs.
 - ii. Magneto or electronic ignition system.
 - iii. Spark advance/retard system.
4. Air Injection System
 - i. Air pump or pulse valve.
 - ii. Valves affecting distribution of flow.
 - iii. Distribution manifold.
5. Catalyst or Thermal Reactor System (i) Catalytic converter.
 - i. Thermal reactor.
 - ii. Exhaust manifold.
6. Particulate Controls
7. Traps, filters, precipitators, and any other device used to capture particulate emissions.
8. Electronic controls.
9. Vacuum, temperature, and time sensitive valves and switches.

10. Hoses, belts, connectors, and assemblies.

11. Evaporative Emission Warranty Part List

- i. Fuel Tank*
- ii. Fuel Cap
- iii. Fuel Line
- iv. Fuel Line Fittings
- v. Clamps**
- vi. Pressure Relief Valves**
- vii. Control Valves**
- viii. Control Solenoids**
- ix. Electronic Controls**
- x. Vacuum Control Diaphragms**
- xi. Control Cables**
- xii. Control Linkages**
- xiii. Purge Valves
- xiv. Vapor Hoses
- xv. Liquid/Vapor Separator
- xvi. Carbon Canister
- xvii. Canister Mounting Brackets
- xviii. Carburetor Purge Port Connector

*Note: The parts list for equipment less than or equal to 80 cc only includes the fuel tank.

**Note: As they relate to the evaporative emission control system.

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

CUSTOMER SERVICE

DuroStar Power Equipment is committed to ensuring that our products perform when they need to. Our generators are your lifeline in the event of an emergency. Should you have any problems, please contact our customer service department:

DUROSTAR POWER EQUIPMENT
5800 Ontario Mills Parkway
Ontario, CA 91764

Customer Service: 844-DuroMax
Customer Service Hours: 8-5pm PST

Website: www.DuroMaxpower.com
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