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.
## CONTENTS

### 5. Maintenance and Care
- Maintenance Schedule ................................................................. 38
- Maintenance Log ........................................................................ 39
- Checking the Oil ......................................................................... 40
- Changing the Oil ......................................................................... 41
- Cleaning the Air Filter ................................................................. 42
- Spark Plug Maintenance ............................................................... 44
- Storage and Transportation ......................................................... 46
- Specifications ............................................................................ 57

### 6. Troubleshooting
- Basic Troubleshooting ............................................................... 50
- Changing / Inspecting the Carbon Brushes ................................ 51
- Changing / Inspecting the AVR .................................................. 53

### 7. Warranty .................................................................................. 58

### 8. Contact Information ................................................................. 62
INTRODUCTION

DuroMax 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, DuroMax 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

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).

Notice Regarding Emissions

Duromax representatives are ready to help you with any questions, concerns, or issues about your new product. We can guide you through assembly, start up, and how to operate your new generator. We want you to be able to put your new generator to use right away!

CALL US BEFORE YOU CONSIDER RETURNING THE PRODUCT!

TOLL FREE
1-844-DUROMAX
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.
In addition to the above safety notices, please familiarize yourself with the safety and hazard markings on the generator.
QUICK START GUIDE (GASOLINE)

1. **Add oil**
   The oil fill cap is located on the engine head cover. Remove the oil fill cap and fill with 54oz of 10w30 oil.

2. **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.

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 on**
   The gas valve is located to the left of the front panel. Rotate the valve counter clockwise to the horizontal position to turn on the gas supply.

5. **Close choke**
   The choke lever is located to the left of the panel. Pull out to cut the air supply and allow more gas into the engine to start.
6. **Check fuel switch**

Make sure the fuel select switch is set to GAS.

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 to the left of the panel. Push in 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. **Add oil**
   
The oil fill cap is located on the engine head cover. Remove the oil fill cap and fill with 54oz of 10w30 oil.

2. **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.

3. **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.

4. **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.

5. **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.
6. **Check fuel switch**

Make sure the fuel select switch is set to LPG.

7. **Adjust choke**

The choke lever is located to the left of the panel. Push in 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.
1. **Propane Connector** – Connects the LPG tank to the LPG Regulator.
2. **Engine Switch** – 3 Position Switch to “Start”, “Run”, or turn “Off” the generator.
3. **120v 3-Prong Twist Lock** - Use to connect electrical devices that run 120 Volt, 60 Hz, single phase, AC current (L5-30).
4. **Fuel Select Switch** - Use to select generator fuel source.
5. **120v 3-Prong Receptacle** - Use to connect electrical devices that run 120 Volt, 60 Hz, single phase, AC current (NEMA 5-20).
6. **Digital Volt Meter/Hour Meter** - Provides reading of voltage output and tracks operating hours.
7. **Circuit Breaker** - Resettable switch that protects the generator from electrical overload.
8. **120/240v 4-Prong Receptacle** - Use to connect electrical devices that run 120 or 240 Volt, 60Hz, single phase, AC current (NEMA 14-50).
9. **Ground Terminal** - Connect a ground wire here to properly ground the generator.
10. **120/240v 4-Prong Twist Lock** - Use to connect electrical devices that run 120 or 240 Volt, 60Hz, single phase, AC current (NEMA L14-30).
11. **Battery** - 12V DC 7ah Battery that powers the Electric Start System.
12. **Choke** - Allows the airflow into the carburetor to be restricted to assist in starting the engine.
13. **Fuel Valve** - Controls the flow of fuel from the gas tank to the generator.
14. **Oil Fill & Dipstick** - Opening where you add oil to the generator.
15. **Fuel Gauge** - Indicates the amount of fuel in the gasoline tank.
16. **Hoist Bar** - Used to lift via crane into trucks and docks.
17. **Muffler** - Quiets the motor and reduces pollution.
18. **Motor Mounts** - Reduces vibration to decrease noise as well as wear and tear.
19. **AVR** - Automatic Voltage Regulator provides stable AC power.
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.

Spark Plug Wrench
Used in spark plug maintenance, inspection, and installation.

Oil Funnel
Used to add oil to the generator without messy spills.

Engine Keys
Used to start the generator.

Propane Hose
Connects generator to propane tank.

- 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.
1. Unpack
   a. Cut the strapping on the box
   b. Slide the top of the box off the generator.
   c. Continue with the following steps BEFORE taking the generator off the pallet.
Step 2 - Wheel Kit Installation (Optional)

1. **Install wheels**
   a. Insert wheel bolt through frame and secure with provided nut.
   b. Slide one wheel over each axle end and secure with the provided retaining pins.

3. **Install Handle Pins**
   Loop the pin strap around the generator frame next to the handles and then pass the pin through the strap to secure it to the frame.
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:

<table>
<thead>
<tr>
<th>Model Number</th>
<th>XP15000EH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Oil Capacity</td>
<td>54 fl. oz (1.6L)</td>
</tr>
</tbody>
</table>

**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**

   a. Make sure the generator is on a level surface.
   b. Unscrew the oil filler cap from the engine.
   c. Using a funnel, add the appropriate amount of oil into the crankcase. You can check the oil level of the generator with the dipstick located below the oil filler cap. Simply pull the dipstick out and the indicated oil level is on the end of the stick.
   d. Replace oil filler cap.

**WARNING:** **DO NOT** overfill the crankcase. This may damage the motor and shorting 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**

   a. Make sure the generator is on a level surface.
   b. Unscrew gas cap and set aside (NOTE: the gas cap may be tight and hard to unscrew).
   c. 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.
   d. 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.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>XP15000EH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Tank Capacity</td>
<td>10.3 US Gallons (40L)</td>
</tr>
</tbody>
</table>
Step 5 - Grounding the Generator

1. Attach grounding wire
   
a. Ground the generator by tightening the grounding nut against a grounding wire.

b. 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.
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. Remove dipstick.
   c. With a dry cloth, wipe the oil off of the stick.
   d. Insert the dipstick completely back into its hole in the engine case. Pull it out 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 dipstick when finished checking oil.

**NOTE:** The oil capacity for your generator can be found in the “Specifications” section of this manual.
25

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 1 1/2” 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.
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 to the left of the front panel. Rotate the valve counter clockwise to the horizontal position to turn on the gas supply.

3. **Close choke**

The choke lever is located to the left of the panel. Pull out to cut the air supply and allow more gas into the engine to start.

4. **Check fuel select**

Make sure the fuel select switch is set to GAS.
4. **Turn engine switch to 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.

5. **Turn engine switch to ON**

When the engine starts, allow the engine switch to return to the ON position.

6. **Open choke**

The choke lever is located to the left of the panel. Push in to open the choke and increase air into the carburetor for normal running.

---

**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.**
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 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 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.

4. **Connect propane tank**

There 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.
5. **Check fuel select**

Make sure the fuel select switch is set to LPG.

---

6. **Open choke**

The choke lever is located to the left of the panel. Push in to open the choke and increase air into the carburetor for normal running.

---

7. **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 on position once started.

---

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.
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.

<table>
<thead>
<tr>
<th>Fuel Source</th>
<th>Rated (Running Wattage)</th>
<th>Surge (Peak) Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasoline</td>
<td>12500</td>
<td>15000</td>
</tr>
<tr>
<td>Propane</td>
<td>11500</td>
<td>14000</td>
</tr>
</tbody>
</table>

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

**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.
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.
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.

<table>
<thead>
<tr>
<th>AMPS</th>
<th>WATTS (120/240V)</th>
<th>10</th>
<th>25</th>
<th>50</th>
<th>100</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>600/1200</td>
<td>18</td>
<td>16</td>
<td>14</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>1200/2400</td>
<td>16</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>15</td>
<td>1800/3600</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>20</td>
<td>2400/4800</td>
<td>12</td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>25</td>
<td>3000/6000</td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>30</td>
<td>3600/7200</td>
<td>8</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>NR</td>
</tr>
<tr>
<td>40</td>
<td>4800/9600</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>NR</td>
<td>NR</td>
</tr>
<tr>
<td>50</td>
<td>6000/1200</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>NR</td>
<td>NR</td>
</tr>
</tbody>
</table>

*NR = NOT RECOMMENDED
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.

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>REGULAR SERVICE PERIOD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BEFORE EACH USE</td>
</tr>
<tr>
<td>ENGINE OIL</td>
<td>CHECK</td>
</tr>
<tr>
<td></td>
<td>CHANGE</td>
</tr>
<tr>
<td>AIR CLEANER</td>
<td>CHECK</td>
</tr>
<tr>
<td></td>
<td>CHANGE</td>
</tr>
<tr>
<td>SEDIMENT CUP</td>
<td>CLEAN</td>
</tr>
<tr>
<td>SPARK PLUG</td>
<td>CLEAN-ADJUST</td>
</tr>
<tr>
<td></td>
<td>REPLACE</td>
</tr>
<tr>
<td>SPARK ARRESTOR</td>
<td>CLEAN</td>
</tr>
<tr>
<td>IDLE SPEED</td>
<td>CHECK / ADJUST</td>
</tr>
<tr>
<td>VALVE CLEARANCE</td>
<td>CHECK-ADJUST</td>
</tr>
<tr>
<td>COMBUSTION CHAMBER</td>
<td>CLEAN</td>
</tr>
<tr>
<td>FUEL TANK / FILTER</td>
<td>CLEAN</td>
</tr>
<tr>
<td>FUEL TUBE</td>
<td>CHECK</td>
</tr>
</tbody>
</table>

TO BE PERFORMED AT EVERY MONTH INDICATED OR HOUR INTERVAL WHICH EVER COMES FIRST
## MAINTENANCE LOG

<table>
<thead>
<tr>
<th>Date</th>
<th>Generator Hours</th>
<th>Maintenance Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
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. Remove dipstick.
c. With a dry cloth, wipe the oil off of the stick.
d. Insert the dipstick completely back into its hole in the engine case. Pull it out 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 dipstick 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.
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. **Unclip filter cover**

Unhinge the four clasps of the air filter cover. There are two clips on each side of the cover.

2. **Remove filter cover**

Remove the plastic air filter cover by sliding it out underneath the generator's frame.

3. **Remove filter**

Remove the filter from on top of the engine. This filter is paper and is not reusable. Please call 1-844-DUROMAX to order a replacement filter for your generator.
4. **Replace new filter**
Insert the filter, paper side down into the air filter compartment on top of the engine.

5. **Replace filter cover**
Slide the filter cover back in place between the frame and the engine.

6. **Secure filter cover**
Fasten the filter cover to the engine with the clips found on each side of the cover.
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. The V-Twin engine in this generator has two spark plugs, one on each side. Both plugs are located just underneath the OHV covers.

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 F6RTC spark plug such as NGK BPR5ES.
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.
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.

<table>
<thead>
<tr>
<th>Storage Period</th>
<th>Storage Preparation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>If you plan on starting the same day.</strong></td>
<td>1. Turn off the main breaker.</td>
</tr>
<tr>
<td></td>
<td>2. Allow the unit to run 3 - 5 minutes.</td>
</tr>
<tr>
<td></td>
<td>3. Turn off the key.</td>
</tr>
<tr>
<td></td>
<td>4. Store.</td>
</tr>
<tr>
<td><strong>If you plan on starting the unit again within 30 days.</strong></td>
<td>1. Turn off the main breaker.</td>
</tr>
<tr>
<td></td>
<td>2. Allow the unit to run 3 - 5 minutes.</td>
</tr>
<tr>
<td></td>
<td>3. Turn off the fuel valve.</td>
</tr>
<tr>
<td></td>
<td>4. Allow the unit to stall out.</td>
</tr>
<tr>
<td></td>
<td>5. Turn off the key.</td>
</tr>
<tr>
<td></td>
<td>6. Add fuel stabilizer to the gas remaining in the tank.</td>
</tr>
<tr>
<td></td>
<td>7. Store.</td>
</tr>
<tr>
<td><strong>If you do not plan to start the unit for longer than 30 days.</strong></td>
<td>1. Turn off the main breaker.</td>
</tr>
<tr>
<td></td>
<td>2. Allow the unit to run 3 - 5 minutes.</td>
</tr>
<tr>
<td></td>
<td>3. Turn off the fuel valve.</td>
</tr>
<tr>
<td></td>
<td>4. Allow the unit to stall out.</td>
</tr>
<tr>
<td></td>
<td>5. Turn off the key.</td>
</tr>
<tr>
<td></td>
<td>6. Drain the fuel tank (See “Emptying the Gas Tank” in the “Maintenance” section)</td>
</tr>
<tr>
<td></td>
<td>7. Drain the carburetor</td>
</tr>
<tr>
<td></td>
<td>a. Remove the drain bolt from the carburetor.</td>
</tr>
<tr>
<td></td>
<td>b. Drain the small amount of remaining fuel from the carburetor bowl.</td>
</tr>
<tr>
<td></td>
<td>8. Oil the cylinder</td>
</tr>
<tr>
<td></td>
<td>a. Remove the spark plug.</td>
</tr>
<tr>
<td></td>
<td>b. Put 2 tbsp. of 10w30 motor oil directly into the spark plug hole</td>
</tr>
<tr>
<td></td>
<td>c. Pull the recoil start one time.</td>
</tr>
<tr>
<td></td>
<td>d. Replace the plug.</td>
</tr>
<tr>
<td></td>
<td>9. Remove the battery and place on tender indoors.</td>
</tr>
<tr>
<td>Specification</td>
<td>Value</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>AC Rated Wattage (Gasoline)</td>
<td>12500W</td>
</tr>
<tr>
<td>AC Rated Wattage (Propane)</td>
<td>11500W</td>
</tr>
<tr>
<td>AC Surge Wattage (Gasoline)</td>
<td>15000W</td>
</tr>
<tr>
<td>AC Surge Wattage (Propane)</td>
<td>14000W</td>
</tr>
<tr>
<td>AC Rated Voltage</td>
<td>120/240V</td>
</tr>
<tr>
<td>AC Rated Frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>AC Phase</td>
<td>Single</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
</tr>
<tr>
<td>LENGTH</td>
<td>35 in.</td>
</tr>
<tr>
<td>WIDTH</td>
<td>24.5 in.</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>38 in.</td>
</tr>
<tr>
<td>Engine Type</td>
<td>Fuel Injected V-Twin 4 Stroke OHV</td>
</tr>
<tr>
<td>Ignition System</td>
<td>Non-Contact Transistor</td>
</tr>
<tr>
<td>Displacement</td>
<td>713cc</td>
</tr>
<tr>
<td>Starting Type</td>
<td>Electric</td>
</tr>
<tr>
<td>Fuel Tank Capacity</td>
<td>10.3 US Gal. (40L)</td>
</tr>
<tr>
<td>Oil Capacity</td>
<td>54 fl. oz. (1.6L)</td>
</tr>
<tr>
<td>Run Time @ 50% (Gasoline)</td>
<td>8 hr.</td>
</tr>
<tr>
<td>Noise Level</td>
<td>78db</td>
</tr>
</tbody>
</table>
TROUBLESHOOTING

This section of the manual is to help you troubleshoot problems with your generator.
<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engine will not start</strong></td>
<td></td>
</tr>
<tr>
<td>Engine Switch is “Off”</td>
<td>Set engine switch to “run”</td>
</tr>
<tr>
<td>Fuel Valve is “Closed”</td>
<td>Turn fuel valve to “open”</td>
</tr>
<tr>
<td>Choke is open</td>
<td>Close the choke</td>
</tr>
<tr>
<td>Engine is out of fuel</td>
<td>Add fuel</td>
</tr>
<tr>
<td>Fuel is old or contaminated</td>
<td>Change fuel</td>
</tr>
<tr>
<td>Spark Plug is dirty</td>
<td>Clean spark plug</td>
</tr>
<tr>
<td>Spark Plug is broken</td>
<td>Replace spark plug</td>
</tr>
<tr>
<td>Generator is not level</td>
<td>Move generator to a level surface</td>
</tr>
<tr>
<td>Oil is low</td>
<td>Add / change oil</td>
</tr>
<tr>
<td><strong>Engine runs, but there is no electrical output</strong></td>
<td></td>
</tr>
<tr>
<td>Circuit breaker is “Off”</td>
<td>Turn “on” circuit breaker</td>
</tr>
<tr>
<td>Wiring connection is bad</td>
<td>Replace extension cord(s)</td>
</tr>
<tr>
<td>Device connected to generator is malfunctioning</td>
<td>Disconnect malfunctioning device</td>
</tr>
<tr>
<td><strong>Generator runs, but does not support all electrical devices connected</strong></td>
<td></td>
</tr>
<tr>
<td>Generator is overloaded</td>
<td>Disconnect 1 or more items to reduce the load</td>
</tr>
<tr>
<td>Device connected to generator is bad</td>
<td>Disconnect malfunctioning device</td>
</tr>
<tr>
<td>Air Cleaner is dirty</td>
<td>Clean / replace the air filter</td>
</tr>
</tbody>
</table>
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.
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. **Unbolt the AVR**

Remove the 2 bolts of the AVR, located behind the power panel.

2. **Cut zipties**

Remove the back cover (see step 1 on page 53). Cut the zip ties connecting the AVR to the brush system.

3. **Disconnect AVR wire clip**

Disconnect the wire clip.
4. **Reconnect AVR**

Reconnect AVR wire to brush system.

5. **Replace cover**

Replace the rear cover of the generator.

6. **Replace new AVR**

Bolt the new replacement AVR onto the back of the power panel.
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 2017 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 844-DUROMAX or email support@duromaxpower.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.
2. 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.

3. 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.

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 manufacturer distribution centers that are franchised to service the subject engines.

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 stated above, 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.
   a. Such use will not reduce the warranty obligations of the manufacturer.

10. 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.

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.
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.

*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.

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

DUROMAX POWER EQUIPMENT
5800 Ontario Mills Parkway
Ontario, CA 91764

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

Website: www.duromaxpower.com
Email: customer_service@duromaxpower.com