

# DuroMax<sup>®</sup> XP15000HXT

## USER MANUAL



REV: XP15000HXT-12012023

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.

5800 Ontario Mills Pkwy  
Ontario, CA 91764 USA  
[www.duromaxpower.com](http://www.duromaxpower.com)

Call our Customer Care Team Toll Free 8-5pm PST Mon-Fri  
**844-DUROMAX**







# CONTENTS

|           |   |    |
|-----------|---|----|
| <b>1.</b> | <b>Introduction</b>                             |    |
|           | Introduction .....                              | 6  |
|           | General Safety Procedures .....                 | 8  |
|           | Carbon Monoxide Safety .....                    | 14 |
|           | Unit and Purchase Information .....             | 16 |
| <b>2.</b> | <b>Generator Components</b>                     |    |
|           | Generator Components .....                      | 18 |
|           | Package Contents .....                          | 20 |
| <b>3.</b> | <b>Generator Setup</b>                          |    |
|           | Unpack the Generator .....                      | 23 |
|           | Wheel Kit Installation.....                     | 24 |
|           | Connect the Battery .....                       | 26 |
|           | Adding Oil .....                                | 27 |
|           | Adding Gasoline .....                           | 28 |
|           | Grounding the Generator .....                   | 29 |
|           | Attach Quick Connect Inlet .....                | 30 |
|           | High Altitude Operation .....                   | 30 |
| <b>4.</b> | <b>Starting the Generator</b>                   |    |
|           | Checking the Oil .....                          | 32 |
|           | Check the Gas Level .....                       | 33 |
|           | Starting the Generator Using Gasoline .....     | 34 |
|           | Starting the Generator Using Propane.....       | 36 |
|           | Starting the Generator Using Natural Gas.....   | 40 |
|           | Starting the Generator Using Recoil Start ..... | 44 |
|           | Starting the Generator Using Remote Start ..... | 46 |
| <b>5.</b> | <b>Using the Generator</b>                      |    |
|           | AC Usage .....                                  | 50 |
|           | Connecting the Generator to a Home.....         | 53 |
|           | Connecting a Load to the Generator .....        | 54 |
|           | Choosing the Right Power Cord .....             | 55 |
|           | Using the Digital Multimeter .....              | 56 |
|           | Idle Control Usage .....                        | 57 |



## 6.

### Stopping the Generator

|  |    |
|--|----|
| Shutting Down the Generator On Gasoline.....     | 60 |
| Shutting Down the Generator On Propane.....      | 61 |
| Shutting Down the Generator With the Remote..... | 62 |
| Shutting Down the Generator On Natural Gas ..... | 63 |

## 7.

### Maintenance and Care

|   |    |
|---|----|
| Maintenance Schedule.....                           | 66 |
| Break-In Period .....                               | 67 |
| Maintenance Log .....                               | 67 |
| Checking the Oil .....                              | 68 |
| Changing the Oil.....                               | 69 |
| Cleaning the Air Filter .....                       | 70 |
| Spark Plug Maintenance .....                        | 72 |
| Emptying the Gas Tank .....                         | 74 |
| Transporting the Generator .....                    | 76 |
| Storing the Generator for Use Within 30 Days.....   | 77 |
| Storing the Generator for Longer than 30 Days ..... | 78 |
| Specifications.....                                 | 80 |

## 8.

### Troubleshooting

|  |    |
|--|----|
| Basic Troubleshooting .....                  | 82 |
| Changing/Inspecting the Carbon Brushes ..... | 83 |
| Wiring Diagram .....                         | 85 |

## 9.

|                       |    |
|-----------------------|----|
| <b>Warranty</b> ..... | 86 |
|-----------------------|----|

## 10.

|                                  |    |
|----------------------------------|----|
| <b>Contact Information</b> ..... | 91 |
|----------------------------------|----|

**For more information and resources on this model scan the QR code below to link to our website product information page.**





**Duro Max**



# DuroMax

## THE DUROMAX WAY

The DuroMax Way is more than just a brand, it is our understanding and appreciation of just how important power can be to someone without it...



### DUROMAX FOR HOME

Electricity in our home not only provides comfort but safety as well. From keeping the heat or A/C on to keeping our food cold, power is essential to our daily lives. Inevitably when disaster strikes and we are left without power for a prolonged period of time, our way of life is put at risk. This is by far the most critical time for reliable portable power.



### DUROMAX FOR WORK

On the job site, portable power allows you the ability to get work done in remote locations when traditional power sources are usually unavailable. Equipment like table saws, sanders, and work lights are a necessity and portable power can play a critical role in getting a job done successfully and efficiently.



### DUROMAX FOR PLAY

Camping outdoors in a remote location can get one in touch with nature and allow them to forget the stress of the day to day grind. Here portable power can provide comfort as well as safety. With portable power, you can keep your cell phone charged, light up your campsite, or even brew a cup of coffee, all while being miles from civilization.

**The DuroMax Way is a commitment to excellence.** This vision is focused on the quality, reliability, and durability of our products combined with outstanding customer service. We understand that having dependable power whenever and wherever you need it provides comfort, safety, and peace of mind. It is through this philosophy that DuroMax achieves our vision of...

# POWERING EVERYONE... **ANYWHERE!**



# INTRODUCTION

DuroMax Power Equipment is headquartered in Ontario, California and is the industry's leader in Dual Fuel portable generator technology. In addition to a full assortment of portable generators ranging from digital inverters to large 15,000-watt portable standby units, their product line includes pressure washers, engines, pumps, and accessories.

The foundation of our company is built on quality, reliability, durability, and customer service. At DuroMax our vision is simple, we are committed to Powering Everyone... Anywhere!



## 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**, **WARNING**, or **CAUTION**) to alert you of hazards. Please pay attention to these hazard notices both in this manual and on the engine.

### 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 for several minutes after use before touching engine or areas which heat during use.





**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 gasoline.

- Do not operate near an open flame.
- Do not smoke near the generator.
- Always operate on a firm, level surface.
- Always turn the generator off before refueling.
- Allow generator to cool for at least 2 minutes before removing the fuel cap. Loosen cap slowly to relieve pressure in the tank.
- Do not overfill the 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 the 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).
- The 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 back-flow 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 steelwork. 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.



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# GENERAL SAFETY PROCEDURES (CONTINUED)

## ⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH** of **CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



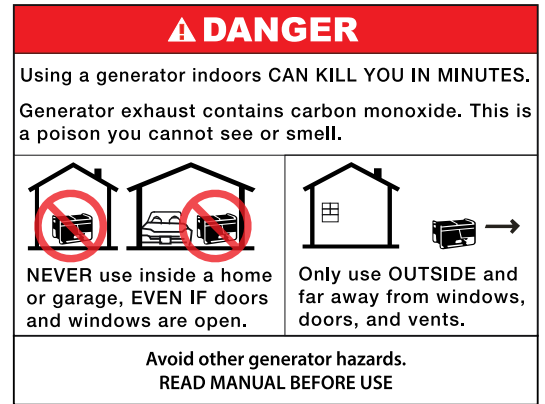
su4855

### MODEL: 3V CR2016, 3V CR2450 Non-replaceable

1. Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. **DO NOT** dispose of batteries in household trash or incinerate.
2. Even used batteries may cause severe injury or death.
3. Call a local poison control center for treatment information.
4. Non-rechargeable batteries are not to be recharged.
5. Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
6. Ensure the batteries are installed correctly according to polarity (+ and -).
7. Do not mix old and new batteries, brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
8. Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
9. Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.



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









# CARBON MONOXIDE SAFETY

## Carbon Monoxide



Generators are convenient, but they can also be dangerous. All fuel-burning appliances and equipment release a poisonous gas called carbon monoxide.

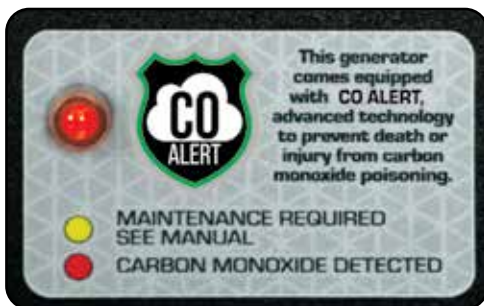
Carbon monoxide (also known as CO) can be dangerous for humans and pets, even in small amounts, because it blocks oxygen from getting into your body. Carbon monoxide poisoning can lead to death in a very short time. It is odorless, tasteless and invisible, so you may be exposed without knowing it. That is why carbon monoxide is sometimes called “the silent killer.”

## CO ALERT



### Description

The DuroMax CO ALERT system was created to protect our customers and their families from dangerous carbon monoxide. Just like the detector for your home the CO ALERT tests the air for to keep you safe and healthy.



### CO detected

If dangerous carbon monoxide levels are detected:

- The indicator will light red.
- The engine will shutdown.
- The engine will not restart for 5 minutes.



### Maintenance required

If an error in the CO ALERT system is detected the indicator will light yellow. Please contact DuroMax service at 844-DUROMAX for assistance.





**ALWAYS READ THE  
OWNER'S MANUAL FIRST**

## **KNOW THE SYMPTOMS**

- HEADACHE
- NAUSEA
- SHORTNESS OF BREATH
- DIZZINESS
- FATIGUE

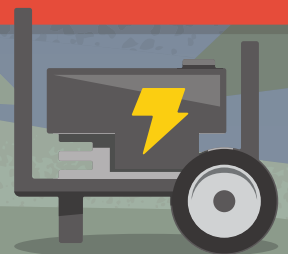


**IF YOU FEEL SYMPTOMS,  
LEAVE RIGHT AWAY**

**STAY ALERT WITH CARBON  
MONOXIDE DETECTORS**

**POINT FUMES AWAY  
FROM NEARBY PEOPLE**

**KEEP IT OUTSIDE AND AWAY  
FROM DOORS AND WINDOWS**



**PGMA**  
Portable Generator Manufacturers Association

As the only safe way to use a portable generator, taking your generator outside is absolutely mandatory to keep your family safe from carbon monoxide. But there's even more you can do. By educating yourself about all carbon monoxide risks, you'll be better prepared to protect your family from this colorless, odorless threat. Visit [takeyourgeneratoroutside.com](https://takeyourgeneratoroutside.com) for more information.

**TAKE IT  
OUTSIDE™**

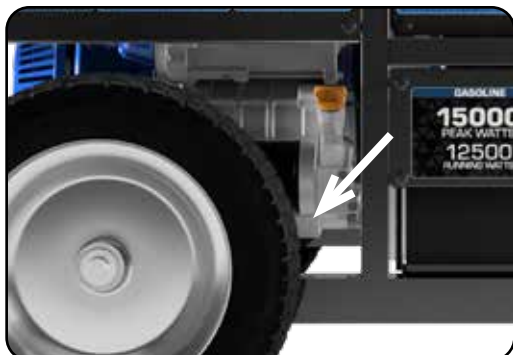


**CARBON MONOXIDE KILLS**



# UNIT AND PURCHASE INFORMATION

## Serial Number



### Serial number

The serial number is located on the engine block, above and to the left of the oil fill.



### Serial number format

The serial number will be shown in two parts. The engine model, followed by the serial number.

Engine Model: \_\_\_\_\_

Serial Number: \_\_\_\_\_

## STAPLE RECEIPT HERE

A purchase receipt may be necessary for warranty parts or service in the future. If you have a paper receipt staple it here for easy reference.

If you purchased the unit online, save the email receipt where you can access it, and record your details here for convenience in the future.

Purchase Date: \_\_\_\_\_

Order Number: \_\_\_\_\_

Retailer Name: \_\_\_\_\_





# GENERATOR COMPONENTS

To help you get familiar with your new DuroMax generator, please see this component section for easy reference on all the generator's individual features.

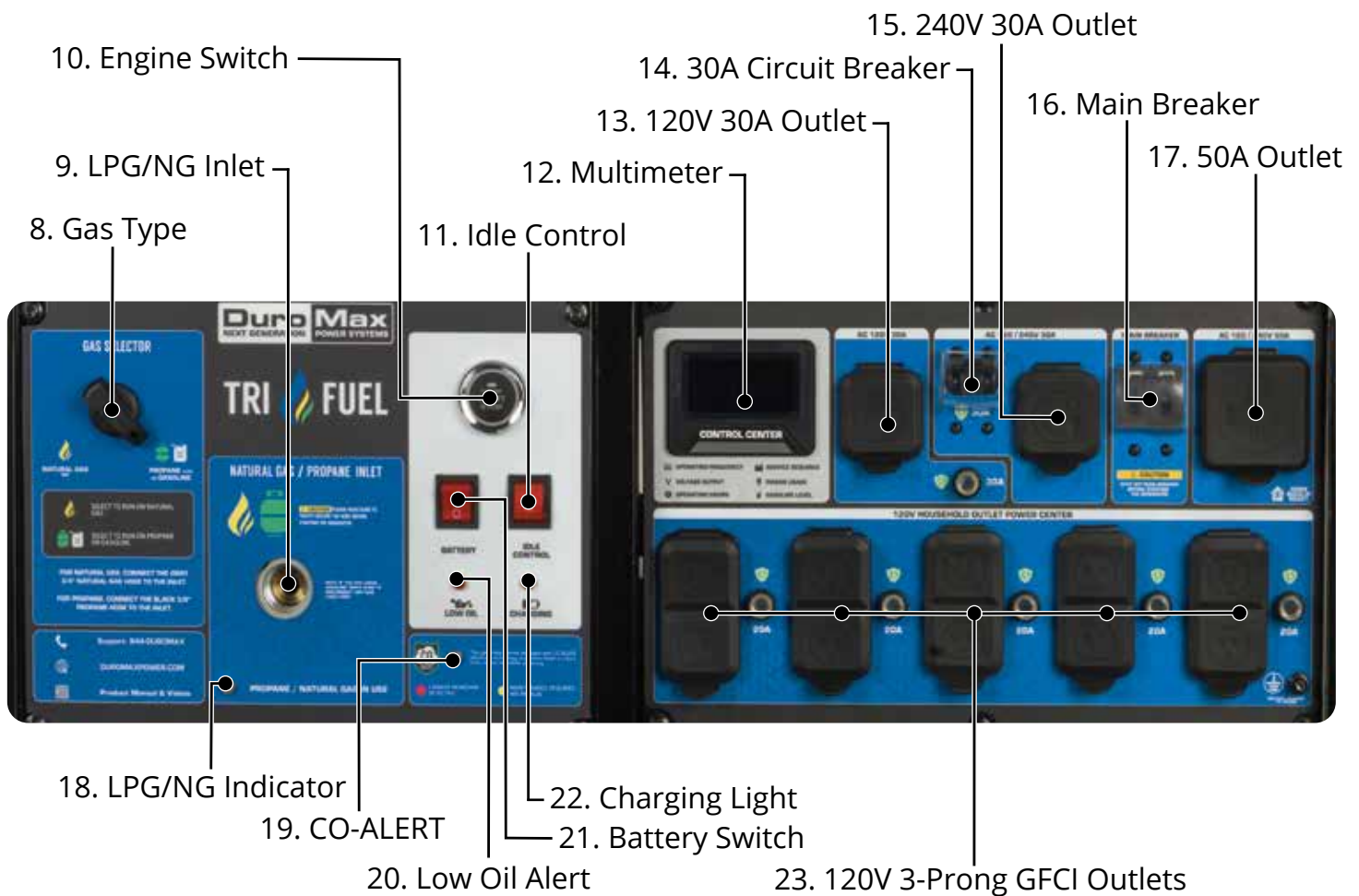


## GENERATOR COMPONENTS



1. **Recoil Start** – Easy pull recoil start to start the engine without the electric start.
2. **Air Cleaner** - A removable, cleanable, oiled, element that cleans the air going into the engine.
3. **Fuel Valve** - ON/OFF valve that allows gasoline to the fuel switch.
4. **Fuel Tank** - All metal 13.2 gallon gasoline fuel tank.
5. **Handles** - Longest handles of any DuroMax model allow easy movement across any surface.
6. **Battery** - 12V DC battery that powers the electric start system.
7. **Oil Fill and Dipstick** - Use to add or check the oil.
8. **Gas Type** - Fuel selection switch to choose Gas/Propane, or Natural Gas.
9. **LPG/NG Inlet** - Provides a regulated LPG/NG fuel supply to the engine.
10. **Engine Switch** – Push button start switch. Press for 2 seconds to start the generator. Hold for 2 seconds to stop the generator.
11. **Idle Control** - Slows the engine to save fuel and lower noise when no load.
12. **Multimeter** – Displays voltage, hertz, and time running.
13. **120V 30A Outlet** - Use to connect electrical devices that run 120 Volt, 60 Hz, single-phase, AC current (NEMA L5-30).





- 14. **30A Circuit Breaker** - A 30A double pole breaker that protects the 240V 30A outlet from overloads or short circuits.
- 15. **240V 30A Outlet** - Use to connect electrical devices that run 120 or 240 Volt, 60 Hz, single-phase, AC current (NEMA L14-30).
- 16. **Main Breaker** - The main breaker that protects the panel from overloads and short circuits.
- 17. **50A Outlet** - Use to connect electrical devices that run 120 or 240 Volt, 60 Hz, single-phase, AC current (NEMA 14-50).
- 18. **LPG/NG Indicator** - An indicator light that lets you know when the fuel system has switched to propane or natural gas operation.
- 19. **CO-ALERT** - Shuts down the engine in the event of CO buildup.
- 20. **Low Oil Alert** - Will light only if the generator shuts down due to low oil.
- 21. **Battery Switch** - Prevents battery discharge during storage.
- 22. **Charging Light** - Will light when the generator is charging the on-board battery.
- 23. **120V 3-Prong GFCI Outlets** - Use to connect electrical devices that run 120 Volt, 60 Hz, single-phase, AC current (NEMA 5-20).



# 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. 10mm/12mm, 13mm/15mm, and 17mm/19mm.



## 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.



## Remote Control

Used to remotely start the generator.



## Plug Ends

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



## Propane Regulator w/ Hose

Used to provide a regulated propane supply to the propane inlet.



## Natural Gas Hose

Used to provide a natural gas supply to the natural gas inlet.

- 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.



**Duro Max**



# GENERATOR SETUP

## Step 1 - Unpack the Generator



### 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.



# GENERATOR SETUP (CONTINUED)

## Step 2 - Wheel Kit Installation (Optional)



### 1. Install axle

- a. Insert axle bolt through frame.



### 2. Install axle pin

- a. Secure axles to frame with retaining pins.
- b. Secure wheels with retaining pins.



### 3. Install wheel washers

- a. Place one of the washers onto each of the axles.



### 4. Install wheel and washer

- a. Place the wheels onto the axles.
- b. Place the outside washers onto each of the axles.





## 5. Install cotter pins

- a. Place the cotter pin through the hole at the end of each axle to secure the wheels.



## 6. Install support legs

- a. Secure the support legs to the frame with the provided bolts.



## 7. Install handles

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



**CAUTION:** Do not over-tighten the handles, it will prevent free movement.



## 8. Remove generator from pallet

- a. Move the assembled generator off the pallet.



# GENERATOR SETUP (CONTINUED)

## Step 3 - Connect the Battery



### 1. Remove the battery cover

- a. Remove the battery cover plate using the wrench from the toolkit.



### 2. Locate the negative cable

- a. Locate the negative battery cable above and behind the battery. One side is connected to ground and the other end needs to be connected to the battery.
- b. Route the free end to the negative battery terminal.



### 3. Connect the negative cable

- a. Push the black rubber boot up the wire to expose the connector.
- b. Securely connect the free end of the battery cable to the negative battery terminal using the screw and nut from the battery with the screwdriver and wrench from the toolkit.



### 4. Reinstall the battery plate

- a. Cover the connected terminal with the black rubber boot.
- b. Reinstall the battery cover plate using the wrench from the toolkit.



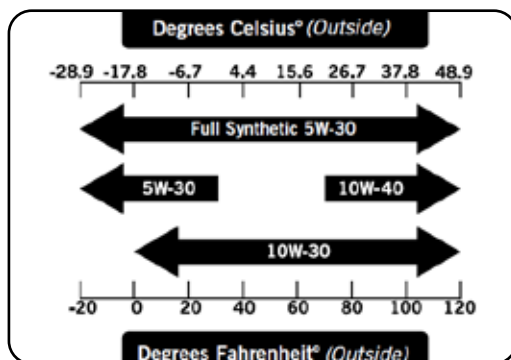
## Step 4 - Adding Oil

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:

|                            |                     |
|----------------------------|---------------------|
| <b>Model Number</b>        | XP15000HXT          |
| <b>Engine Oil Capacity</b> | 57.5 fl. oz (1.7 L) |



**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.

\* Synthetic oil may be used after the 8 hour initial break-in period. Using synthetic oil does not increase the recommended oil change interval. Full synthetic 5W-30 oil will aid in starting in cold temperatures <5°C (41°F).

## 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 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.
- Slowly pull the recoil to cycle the oil.
- Check dipstick again and add oil as needed.
- Replace oil filler cap.



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





# GENERATOR SETUP (CONTINUED)

## Step 5 - Adding Gasoline (Optional)



### 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. 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.

|                   |                     |
|-------------------|---------------------|
| Model Number      | XP15000HXT          |
| Gas Tank Capacity | 13.2 US gal. (50 L) |



**WARNING:** Gas can expand. Do not fill the gas tank to the very top. Leave a minimum of 1.5 in open space. Gasoline and gas fumes are highly flammable. Do not fill the tank near an open flame. Always check for fuel spills.

### IMPORTANT:

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



## Step 6 - Grounding the Generator



### 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.



**NOTE:** If the generator is connected to a home, then it won't be necessary to attach the separate grounding wire and you can opt to use your home ground instead. Please see a certified electrician for further options with grounding your generator.



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



# GENERATOR SETUP (CONTINUED)

## Step 7 - Attach Quick Connect Inlet



### Attach quick connect inlet

- a. Remove the shipping cap from the inlet port in the center of the left hand panel.
- b. Use Teflon pipe tape around the threads of the quick connect.
- c. Securely thread the included right angle quick connect to the inlet port.
- d. Quick connect inlet should face to the left side when tightened.
- e. It is suggested to have your natural gas plumber assemble and test the quick connect for leaks before use.

## High Altitude Operation

At high altitudes, the standard carburetor air/fuel mixture will be too rich. The 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 3,000 feet (900 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 by 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 3,000 feet (900 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



### 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:

- Make sure the generator is on a level surface.
- Unscrew the oil filler/dipstick cap.
- With a dry cloth, wipe the oil off of the stick on the inside of the cap.
- Insert the dipstick as if you were replacing the cap and then remove it 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).
- Be sure to replace the cap when finished checking oil.



|                            |                     |
|----------------------------|---------------------|
| <b>Model Number</b>        | XP15000HXT          |
| <b>Engine Oil Capacity</b> | 57.5 fl. oz (1.7 L) |



## Step 2 - Check the Gas Level (Optional)



### Check fuel level

If running the engine on gasoline 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 the tank near an open flame.
- Always allow the engine to cool for several minutes before refueling.
- DO NOT overfill the 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



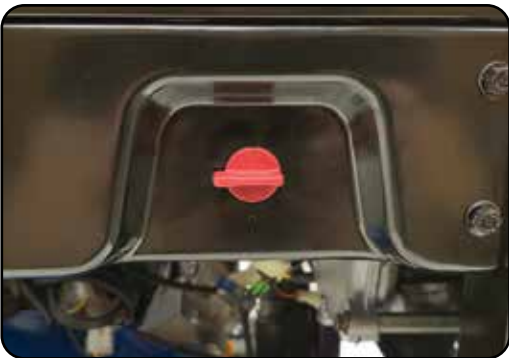
### 1. Shut main breaker OFF

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 selector to Gasoline

The fuel switch is located on the left front panel. Rotate the switch to the PROPANE/GASOLINE position to turn on the gas supply.



### 3. Turn gas valve ON

The gas valve is located above the recoil starter. Rotate the valve counter-clockwise to the horizontal position to turn on the gas supply.



### 4. Turn battery switch ON

The battery switch is located below the start button on the generator panel. Turn the switch "ON" to allow power to the push-button start.





## 5. Turn idle control OFF

The idle control is located below the start button on the generator panel. Turn the switch "OFF" to prevent the unit from trying to idle down before the engine is warmed up.



## 6. Start the generator

The push-button start is located on the left side panel. Press the button for 2 seconds and release to start the generator.



## 7. Turn breaker ON/ Connect

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



**CAUTION:** LPG must be shut off when using gasoline!



**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.



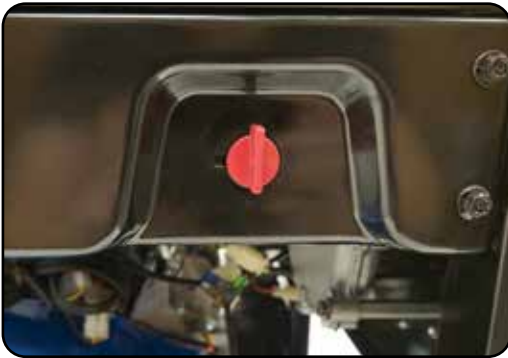
# STARTING THE GENERATOR (CONTINUED)

## Starting the Generator Using Propane



### 1. Shut main 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 starter. Rotate the valve clockwise to the vertical position to stop the flow of gasoline to the carburetor.



### 3. Turn gas selector to Propane

The fuel switch is located on the left front panel. Rotate the switch to the PROPANE/GASOLINE position to turn on the gas supply.



### 4. Connect propane hose

The propane inlet is located on the left-hand front panel to the left of the battery switch. Securely connect the propane hose to the inlet.





## 5. Connect propane tank

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



## 6. Turn battery switch ON

The battery switch is located below the start button on the generator panel. Turn the switch "ON" to allow power to the push-button start.



## 7. Turn idle control OFF

The idle control is located below the start button on the generator panel. Turn the switch "OFF" to prevent the unit from trying to idle down before the engine is warmed up.



## 8. Start the generator

The push-button start is located on the left side panel. Press the button for 2 seconds and release to start the generator.



## Starting the Generator Using Propane



### 9. Turn breaker ON/ Connect

The breaker is located on the right side of the front power panel. Flip the breaker up to allow the 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 the generator ONLY after the engine runs smoothly. (There may be remnant gasoline in the carburetor; and 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 battery switch to the "OFF" position.



**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, wait 10 seconds before operating the starter again.



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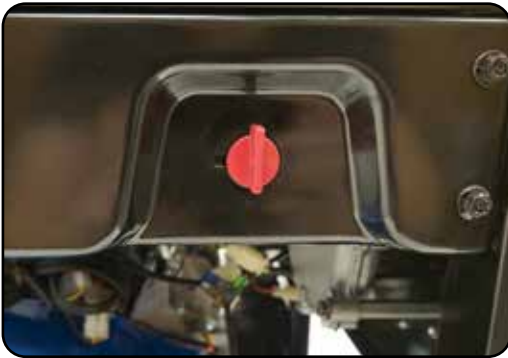
# STARTING THE GENERATOR (CONTINUED)

## Starting the Generator Using Natural Gas



### 1. Shut main 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 starter. Rotate the valve clockwise to the vertical position to stop the flow of gasoline to the carburetor.



### 3. Turn gas selector to Natural Gas

The fuel switch is located on the left front panel. Rotate the switch to the NATURAL GAS position to turn on the gas supply.



### 4. Connect natural gas hose

The quick connect inlet is located on the left-hand front panel to the left of the battery switch. Securely connect the hose to the inlet.





## 5. Connect to supply

Connect the quick connect on the hose to your natural gas supply and turn on your valve.



## 6. Turn battery switch ON

The battery switch is located below the start button on the generator panel. Turn the switch "ON" to allow power to the push-button start.



## 7. Turn idle control OFF

The idle control is located below the start button on the generator panel. Turn the switch "OFF" to prevent the unit from trying to idle down before the engine is warmed up.



## 8. Start the generator

The push-button start is located on the left side panel. Press the button for 2 seconds and release to start the generator.



## Starting the Generator Using Natural Gas



### 9. Turn breaker ON/ Connect

The breaker is located on the right side of the front power panel. Flip the breaker up to allow the 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 NG, MAKE SURE THERE IS NO POSSIBLE IGNITION SOURCE CLOSE TO THE GENERATOR.

1. Before using, make sure all of the NG connectors and hoses are well connected and sealed.
2. Connect electrical devices to the generator ONLY after the engine runs smoothly. (There may be remnant gasoline in the carburetor; and this can cause unsteady engine performance for several minutes)
3. If the natural gas leaks, shut off the NG 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 NG supply. After the engine has stopped turn the battery switch to the "OFF" position.



**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, wait 10 seconds before operating the starter again.



# Natural Gas Requirements



## Installation



**WARNING:** Consult a licensed professional natural gas plumber for proper installation.

### TO THE INSTALLER:

The generator will require at least a 3/4" quick connect to operate properly.



**Note:** Fuel pipe must be sized for full load. Required fuel pressure to generator fuel inlet at all load ranges 6.0 - 9.0 in. water column for Natural Gas. BTU Content: 278,000 BTU at full load.

- Install the fuel supply system according to NFPA 37 and other applicable fuel-gas codes.
- Before placing the generator into service, the fuel system lines must be properly purged and leak tested.
- NO leakage is permitted.
- DO NOT operate engine if smell of fuel is present.
- The piping material must conform to federal and local codes, be rigidly mounted, and be protected against vibration.
- Piping should be protected from physical damage, especially where it passes through flower beds, shrub beds, and other cultivated areas where damage can occur.
- For vapor fuels only: Where the formation of hydrates or ice is known to occur, piping should be protected against freezing. The termination of hard piping must include a sediment trap where condensate is not likely to freeze.
- A minimum of one accessible, approved manual shutoff valve shall be installed in the fuel supply line within 6 ft (180 cm) of the generator.
- You must install a manual fuel shut-off valve in the interior of the building.
- Where local conditions include earthquake, tornado, unstable ground, or flood hazards, special consideration shall be given to increase strength and flexibility of piping supports and connections.
- Piping must be of the correct size to maintain the required supply pressures and volume flow under varying generator load conditions with all gas appliances connected to the fuel system turned on and operating.
- Use a pipe sealant or joint compound approved for use with NG/LP on all threaded fittings to reduce the possibility of leakage.



**NOTICE:** Keep thread sealant out of the gas piping to prevent component part damage. Installed piping must be properly purged and leak tested, in accordance with applicable codes and standards.



# STARTING THE GENERATOR (CONTINUED)

## Starting the Generator Using Recoil Start



### 1. Shut main 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. Select your fuel

If using gasoline, see step 2 on pg. 34. If using propane see steps 2 - 4 on pg. 36. If using natural gas see steps 2 - 5 on pg. 40.

**Note:** Starting on LPG/NG will be difficult using the recoil start.



### 3. Turn battery switch ON

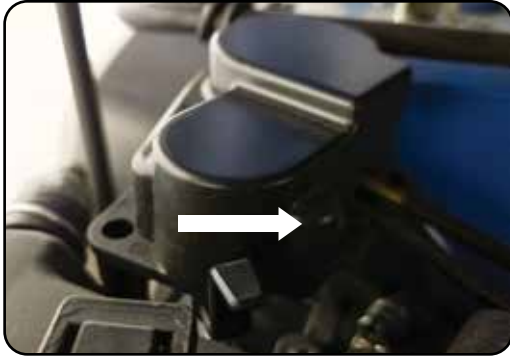
The battery switch is located below the start button on the generator panel. Turn the switch "ON" to allow power to the push-button start.



### 4. Turn idle control OFF

The idle control is located below the start button on the generator panel. Turn the switch "OFF" to prevent the unit from trying to idle down before the engine is warmed up.





## 5. Close choke

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

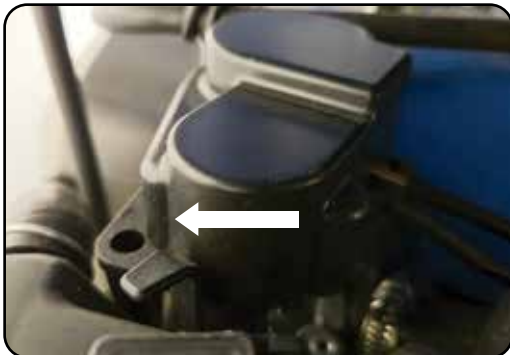


## 6. Pull the recoil start

The recoil start is located on the left side panel next to the air filter. Pull the recoil handle slowly until resistance is felt, then quickly pull the recoil handle until fully extended.



**CAUTION:** Release the recoil handle only after the cord has retracted. Releasing the recoil handle while extended may cause harm to yourself or your equipment.



## 7. Open choke

After the engine has started, push the choke left to the OPEN position as the engine warms up.



## 8. Turn breaker ON/ Connect

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



### 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. Select your fuel

If using gasoline, see step 2 on pg. 34. If using propane see steps 2 - 5 on pg. 36. If using natural gas see steps 2 - 5 on pg. 40.



### 3. Turn battery switch ON

The battery switch is located below the start button on the generator panel. Turn the switch "ON" to allow power to the push-button start.



### 4. Turn idle control OFF

The idle control is located below the start button on the generator panel. Turn the switch "OFF" to prevent the unit from trying to idle down before the engine is warmed up.





## 5. Push the start button

The remote start has two buttons: start and stop. Press the start button two times in succession to start the generator.



## 6. Turn breaker ON/ Connect

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



## 7. Syncing the remote

If the remote control loses connection to the generator:

A. Quickly press the push start button on the left panel 5 times for less than 2 seconds on each push, and the interval should not exceed 5 seconds each time.

B. Press the STOP button on the remote. The red light will blink indicating the prior controller settings were cleared.

C. Press the START button on the remote. The red light will blink indicating that the controller is now synced.

D. Press and hold the push button on the left panel for 5 seconds until the red light turns off to end sync mode.

**Note: The entire sync process needs to be completed within 1 minute of starting the sync or the process will need to be started over again.**



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# 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    | 12,000                  | 15,000               |
| Propane     | 11,400                  | 14,250               |
| Natural Gas | 10,260                  | 12,825               |

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.*





DUAL FUEL XP13000HX

DuroMaxx  
POWER SYSTEMS

Features and specifications for the generator, including safety warnings and performance data.

CONTROL CENTER

Includes a digital display, various switches, and outlets for power distribution.

| GASOLINE               | PROPANE               |
|------------------------|-----------------------|
| 13000<br>PEAK WATTS    | 1235<br>PEAK WATT     |
| 10500<br>RUNNING WATTS | 9975<br>RUNNING WATTS |



# Connecting the Generator to a Home



## Extension cords

- The most straightforward and affordable option.
- Zero commitment, no installation needed: Simply plug in your appliances and go!
- Perfect for renters, RV/camping trips, and power on the job-site.



## Transfer switch

- The safest, most effortless way to power your home.
- Automatically switches power over to your generator during an outage. Requires an electrician to install.
- Once you choose which circuits you want to power, you're locked into your configuration.



## Interlock kit

- Choose what circuits you want to run.
- Requires an electrician to install, but you have the flexibility of switching up your circuits depending on your power needs.
- More hands-on, and some electrical knowledge is needed so you don't overload the generator.



# 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 to the 240V receptacle.



**CAUTION:** Do not connect 50 Hz 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 the 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 | 12  | 10  |
| 15                    | 1800/3600        | 14                                  | 14 | 12 | 12  | 10  |
| 20                    | 2400/4800        | 12                                  | 12 | 12 | 10  | 10  |
| 25                    | 3000/6000        | 12                                  | 10 | 10 | 10  | 8   |
| 30                    | 3600/7200        | 10                                  | 10 | 10 | 8   | NR  |
| 40                    | 4800/9600        | 8                                   | 8  | 6  | 6   | NR  |
| 50                    | 6000/12000       | 6                                   | 6  | 6  | NR  | NR  |
| *NR = NOT RECOMMENDED |                  | *Gauge based on twisted copper wire |    |    |     |     |

From home back up to just running your electric edger and everything in-between DuroMax has the power cord for you. All DuroMax cords are 100% twisted copper wire for maximum life and reliability.

| Length | 120V 15A      |               |               |               |               | 240V 30A            | 240V 50A          |
|--------|---------------|---------------|---------------|---------------|---------------|---------------------|-------------------|
|        | 14 Gauge      | 12 Gauge      |               | 10 Gauge      |               | L14-30P/<br>L14-30R | 14-50P/<br>CS6364 |
|        | Single Outlet | Single Outlet | Triple Outlet | Single Outlet | Triple Outlet |                     |                   |
| 10 ft  |               |               |               |               |               | XP3010GC            |                   |
| 15 ft  |               |               |               |               |               |                     | XP5015GC          |
| 25 ft  | XPC14025A     | XPC12025A     | XPC12025C     | XPC10025A     | XPC10025C     | XP3025GC            | XP5025GC          |
| 50 ft  |               |               | XPC12050C     | XPC10050A     | XPC10050C     | XP3050GC            | XP5050GC          |
| 100 ft |               | XPC12100A     | XPC12100C     | XPC10100A     | XPC10100C     |                     |                   |



# USING THE GENERATOR (CONTINUED)

## Using the Digital Multimeter



1. **Gas Gauge** – The gasoline fuel level in the fuel tank is shown on the left side of the control center.
2. **Load Gauge** – The amount of power currently being used is shown on the right hand side of the control center.
3. **V/F/T Display** - The display rotates between: Voltage - The voltage currently produced by the generator in volts; Frequency - The frequency currently produced by the generator in Hz; and Time - The number of hours the engine has been run.



## Idle Control Usage



### Idle control

The idle control feature lowers the RPM of the generator when there is no load to save gas and decrease engine noise.

When a load is applied, the engine will resume normal speed to provide usable power.

Turn on the idle control when using intermittent loads like power tools and air compressors.

The idle control feature is designed for gasoline only use.



**WARNING:** Power is unusable when idle control is engaged.

- DO NOT use the idle control function when using the generator for backup house power.
- Idle control function will cause massive fluctuations in voltage and hertz.
- Low amperage loads may not trigger the idle up function.



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# STOPPING THE GENERATOR

This section will cover the recommended shut off procedure for stopping the generator on various fuels.



# STOPPING THE GENERATOR

## Shutting Down the Generator On Gasoline



### 1. Flip the main breaker OFF

Move the main breaker to the OFF position.



### 2. Run the generator

Allow the generator to run for 3-5 minutes.



### 3. Hold push button to stop

Hold push button for 3 seconds to shut the generator down.



### 4. Turn battery switch OFF

Turn the battery switch to the OFF position.



## Shutting Down the Generator On Propane



### 1. Turn OFF the main breaker

Move the main breaker to the OFF position.



### 2. Run the generator

Allow the generator to run for 3-5 minutes.



### 3. Hold push button to stop

Hold push button for 3 seconds to shut the generator down.



### 4. Close tank valve and turn off

Turn your propane tank valve to the CLOSE position and shut the battery switch OFF.



# STOPPING THE GENERATOR (CONTINUED)

## Shutting Down the Generator With the Remote



### 1. Turn OFF the main breaker

Move the main breaker to the OFF position.



### 2. Run the generator

Allow the generator to run for 3-5 minutes.



### 3. Hold the stop button

Hold the STOP button to shut off the generator.



### 4. Turn start switch OFF

Turn the start switch to the OFF position.



## Shutting Down the Generator On Natural Gas



### 1. Turn OFF the main breaker

Move the main breaker to the OFF position.



### 2. Run the generator

Allow the generator to run for 3-5 minutes.



### 3. Hold push button to stop

Hold push button for 3 seconds to shut the generator down.



### 4. Shut off gas valve and turn off

Turn your gas valve to the OFF position and shut the battery switch OFF.



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# 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, 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               | EVERY USE | 1ST MO. OR<br>8 HRS.<br>(BREAK IN) | EVERY 3 MO. OR<br>50 HRS. OF<br>HEAVY USE | EVERY 6 MO.<br>OR 100 HRS. OF<br>NORMAL USE | EVERY 12 MO. OR<br>300 HRS. | EVERY 3 YRS. OR<br>500 HRS. |
|-----------------------|-----------|------------------------------------|---|---|-----------------------------|-----------------------------|
| ENGINE OIL            | CHECK     | CHANGE                             | CHANGE                                    | CHANGE                                      |                             |                             |
| OIL FILTER            |           |                                    | CHANGE                                    | CHANGE                                      |                             |                             |
| AIR CLEANER           | CHECK     | CHECK                              | CHANGE                                    | CHANGE                                      |                             |                             |
| SEDIMENT<br>CUP       |           |                                    | CLEAN                                     | CLEAN                                       |                             |                             |
| SPARK PLUG            |           |                                    | CLEAN /<br>ADJUST                         | CLEAN /<br>ADJUST                           |                             |                             |
| SPARK<br>ARRESTOR     | CHECK     |                                    |   |   | CLEAN                       |                             |
| IDLE SPEED            |           |                                    |   |   | CHECK /<br>ADJUST           |                             |
| VALVE<br>CLEARANCE    |           |                                    |   |   | CHECK /<br>ADJUST           |                             |
| FUEL TUBE             | CHECK     |                                    |   |   | CHECK /<br>REPLACE          |                             |
| FUEL TANK /<br>FILTER |           |                                    |   |   | CLEAN                       |                             |
| COMBUSTION<br>CHAMBER |           |                                    |   |   |                             | CLEAN                       |



## Break-In Period

As the best practice for any new combustion motor it's recommended to perform the break in procedure as follows:

- Run the generator for the first 6-8 hours on conventional oil, then change the oil. After the break-in period synthetic oil may be used.
- During the break in period of the first 6-8 hours keep the generator load under 50% for optimal results.
- Check and clean the air filter if necessary after the break-in period.

## Maintenance Log

As a best practice it's recommended to keep a log of the generator hours and maintenance to ensure your generator is always operating to its full potential.

| Date | Generator Hours | Maintenance Performed |
|------|-----------------|-----------------------|
|      |                 |                       |
|      |                 |                       |
|      |                 |                       |
|      |                 |                       |
|      |                 |                       |
|      |                 |                       |
|      |                 |                       |
|      |                 |                       |
|      |                 |                       |
|      |                 |                       |



## Checking the Oil



### 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:

- Make sure the generator is on a level surface.
- Unscrew the oil filler/dipstick cap.
- With a dry cloth, wipe the oil off of the stick on the inside of the cap.
- Insert the dipstick as if you were replacing the cap and then remove it 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.
- Be sure to replace the cap when finished checking oil.

|                            |                     |
|----------------------------|---------------------|
| <b>Model Number</b>        | XP15000HXT          |
| <b>Engine Oil Capacity</b> | 57.5 fl. oz (1.7 L) |



# Changing the Oil



**CAUTION:** 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.



## 1. Remove drain plug and drain oil

Using a 16 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 into an approved oil disposal container. Contact your local auto parts store for information on oil disposal.



## 2. Remove and change oil filter

After the oil has been fully drained, unscrew the old oil filter, then install new filter.

Note: During installation of new oil filter place a small amount of oil around the oil filter gasket before screwing the new filter on.



## 3. Replace drain plug and add oil

Replace the oil drain plug and tighten with 16 mm hex wrench, then add 57.5 fl. oz of new oil.



## Cleaning the Air Filter

### MAINTAIN AIR FILTER

Clean air filter after every 50 hours of use  
(every 10 hours in unusually dusty conditions)

Wash filter element with household detergents.  
Wipe out dust from air filter housing before  
replacing filter element.

Never clean with a brush

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.



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



### 1. Remove the filter cover screws

Remove the filter cover screws.



### 2. Remove filter cover

Remove the filter cover and the sponge-like element from the casing.



### 3. Clean out filter 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**

Pat dry on a dry cloth and 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.



## 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.



**CAUTION:** 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 it with a new spark plug. We recommend using an F7RTC spark plug such as NGK BPR7ES.





## 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. Install 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.



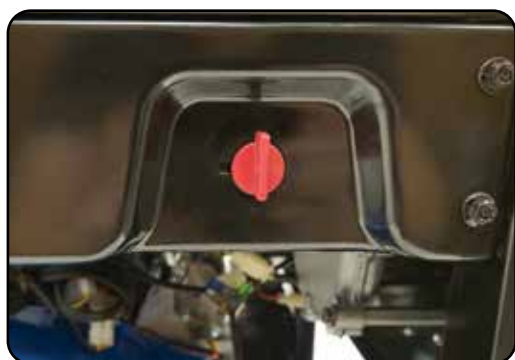
## Emptying the Gas Tank



If you have been using gasoline in your generator, before storing your generator for extended periods of time you should drain your generator fuel tank 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. Turn gas valve OFF

The gas valve is located above the recoil starter. Rotate the valve clockwise to the vertical position to stop the flow of gasoline to the carburetor.



### 2. Remove carburetor drain bolt

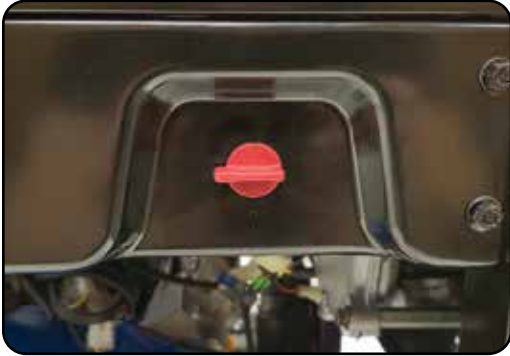
Remove the outward angled bolt that is located on the bottom of the carburetor.



### 3. Place funnel below drain port

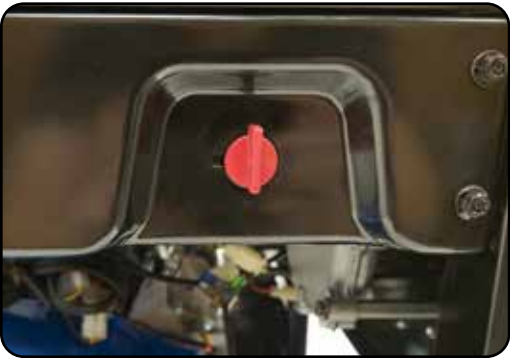
Place funnel with container to catch the gasoline under the drain port location.





#### **4. Turn fuel valve ON and drain**

Turn the fuel valve to "ON" and allow gasoline to drain into the container until the gas tank is empty.



#### **5. Shut fuel valve OFF**

Once the gasoline is fully drained, move the fuel valve back to the "OFF" position.



#### **6. Replace carburetor drain bolt**

Reinstall the carburetor drain bolt.



#### **7. Store emptied gasoline**

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



## Transporting the Generator



### 1. Empty the gas tank

Fully drain your gas tank as shown in “Emptying the Gas Tank” on page 74-75.



### 2. Disconnect the spark plug cap

Pull on spark plug cap to disconnect spark plug from ignition wire.



**CAUTION:** Do not obstruct any ventilation openings and keep the generator in a cool dry area.



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

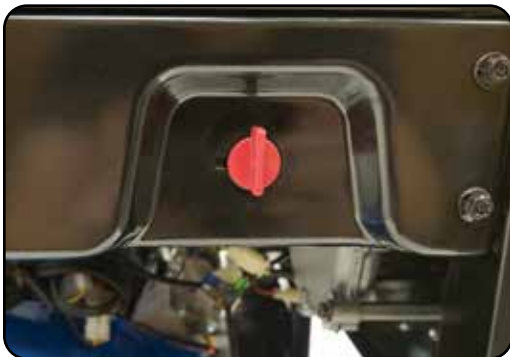


## Storing the Generator for Use Within 30 Days



### 1. Turn breaker OFF and run

Turn OFF the main breaker and allow the generator to run for 3-5 minutes.



### 2. Shut fuel valve OFF and run dry

Shut the fuel valve "OFF" and allow generator to run until it stalls out.



### 3. Turn the battery switch OFF

Turn the battery switch to the "OFF" position.



### 4. Add fuel stabilizer and store

Add fuel stabilizer to gas remaining in tank, and store generator.

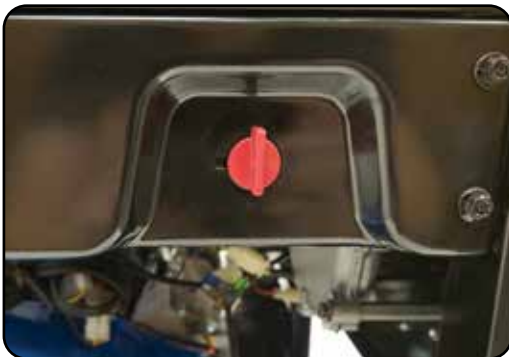


## Storing the Generator for Longer Than 30 Days



### 1. Turn breaker OFF and run

Turn OFF the main breaker and allow the generator to run for 3-5 minutes.



### 2. Shut fuel valve OFF and run dry

Shut the fuel valve "OFF" and allow generator to run until it stalls out.



### 3. Turn the battery switch OFF

Turn the battery switch to the "OFF" position.



### 4. Empty the gas tank

Fully drain your gas tank as shown in "Emptying the Gas Tank" on page 74-75.





## 5. Drain the carburetor

Remove drain bolt from carburetor and drain small amount of fuel in carburetor bowl.



## 6. Remove spark plug

Remove spark plug as shown in "Spark Plug Maintenance" on page 72.



## 7. Add oil to cylinder

Add 2 tablespoons of 10W-30 motor oil directly into the spark plug hole, and pull the recoil to lubricate cylinder. After lubricating cylinder reinstall the spark plug.



## 8. Remove battery and charge

Remove the generator battery and place it on a 12V battery tender indoors.



# SPECIFICATIONS

|                                       |                        |
|---------------------------------------|------------------------|
| <b>Model Number</b>                   | XP15000HXT             |
| <b>AC Rated Wattage (Gasoline)</b>    | 12,000 W               |
| <b>AC Rated Wattage (Propane)</b>     | 11,400 W               |
| <b>AC Rated Wattage (Natural Gas)</b> | 10,260 W               |
| <b>AC Surge Wattage (Gasoline)</b>    | 15,000 W               |
| <b>AC Surge Wattage (Propane)</b>     | 14,250 W               |
| <b>AC Surge Wattage (Natural Gas)</b> | 12,825 W               |
| <b>AC Rated Voltage</b>               | 120/240V               |
| <b>Dimensions</b>                     | 42"L x 28"W x 29"H     |
| <b>Weight</b>                         | 410 lbs                |
| <b>Recommended Oil</b>                | 10W-30                 |
| <b>Engine Displacement</b>            | 670 cc                 |
| <b>Gasoline Capacity</b>              | 13.2 gal               |
| <b>Oil Capacity</b>                   | 57.5 fl. oz. (1.7 L)   |
| <b>Bore</b>                           | 99 mm                  |
| <b>Stroke</b>                         | 87 mm                  |
| <b>Engine Speed</b>                   | 3600 rpm $\pm$ 100 rpm |
| <b>Oil Cooling Type</b>               | Pressure and splash    |
| <b>Cylinder Sleeve</b>                | Cast iron sleeve       |
| <b>Fuel Delivery System</b>           | Carburetor             |
| <b>Valve Type</b>                     | OHV                    |
| <b>Engine Type</b>                    | 4-Stroke               |
| <b>Engine Cooling Type</b>            | Forced air             |
| <b>Run Time @ 50% (Gasoline)</b>      | 12 hr.                 |
| <b>Run Time @ 50% (Propane)</b>       | 8.5 hr. (60 lb.)       |
| <b>Starting Type</b>                  | Electric/Recoil        |
| <b>Noise Level</b>                    | 78 dB                  |
| <b>Neutral System</b>                 | Bonded                 |
| <b>AC Rated Frequency</b>             | 60 Hz                  |
| <b>AC Phase</b>                       | Single                 |
| <b>Winding Material</b>               | 100% copper windings   |
| <b>Suggested Propane Tank Size</b>    | 60 lbs. minimum        |





# TROUBLESHOOTING

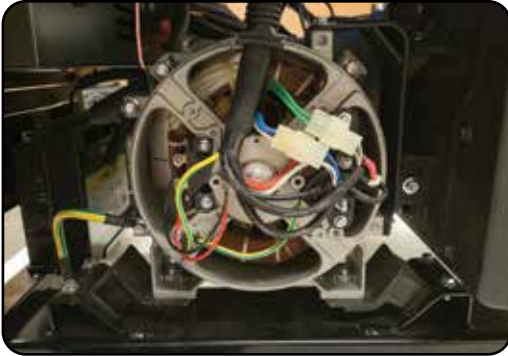
This section of the manual is to help you troubleshoot problems with your generator.



| Mode   | Description                                     | Solution                                      |
|--|---|---|
| <b>Engine will not start</b>   | Engine switch is "OFF"                          | Set engine switch to "ON"                     |
|  | 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                              |
| <b>Engine runs, but there is no electrical output</b>                        | 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              |
| <b>Generator runs, but does not support all electrical devices connected</b> | 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 bolts from brush

Remove the bolts holding the carbon brush.



### 3. Disconnect AVR wires

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



### 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.

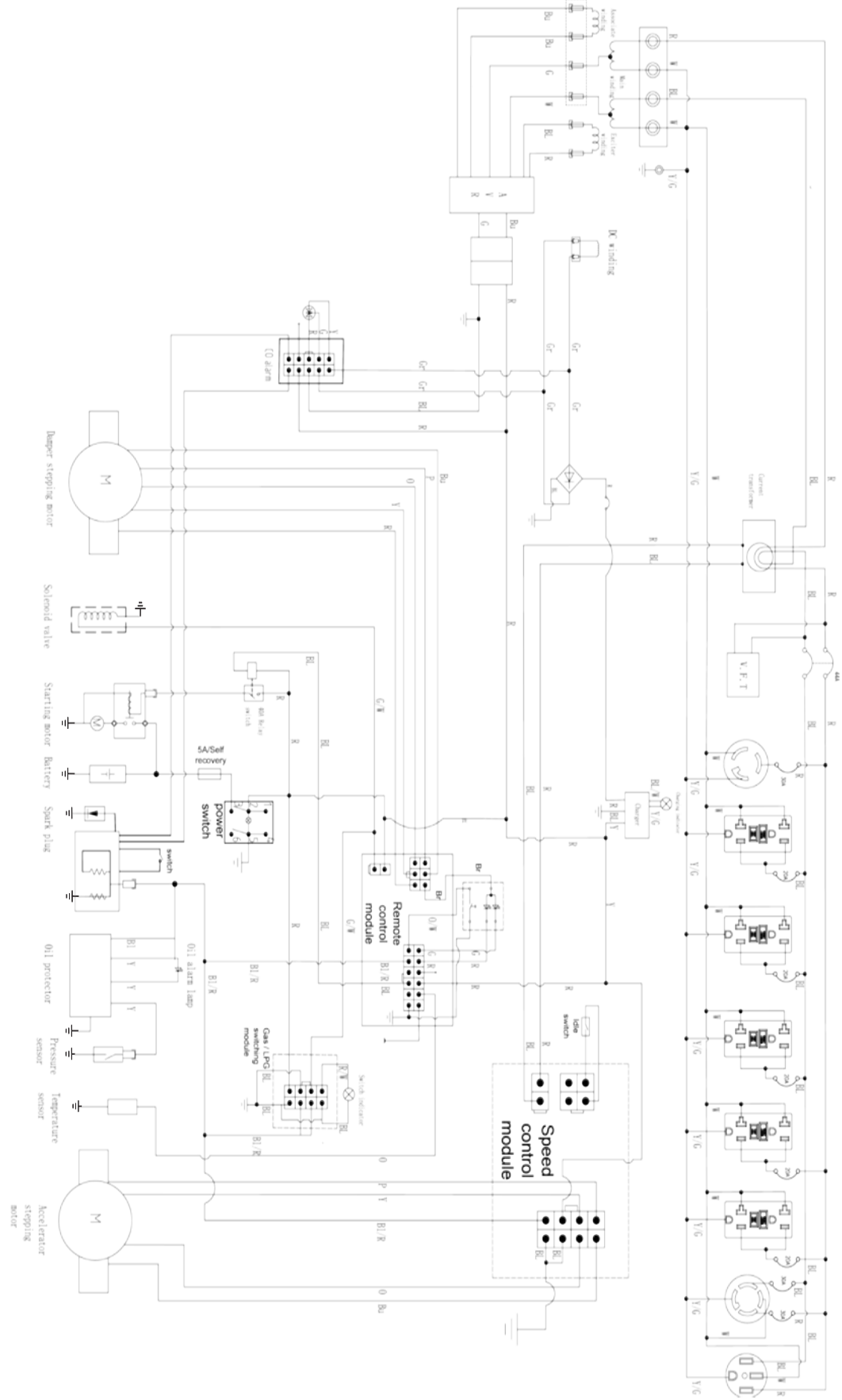


#### 6. Replace generator cover

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



# WIRING DIAGRAM





# WARRANTY

## 5-year Warranty

All DuroMax Power Equipment warrant the original purchasers to a 5-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 is the responsibility of the equipment owner. This warranty is non-transferable and only valid to the original purchaser.

## Warranty Exclusions

The DuroMax 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 Power Equipment does not claim or hold any obligation to loss of time, freight charges, use of the 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. FEDERAL AND CALIFORNIA EMISSIONS CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS**

The U.S. Environmental Protection Agency (EPA), California Air Resources Board, and DuroMax Power Equipment are pleased to explain the emissions control system's warranty on your 2023/2024 small off-road engine.

In California, new 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 small off-road engine leading to the failure of the emission control system.

Your emissions control system may include parts such as: carburetors or the fuel injection system, ignition system, catalytic converters, fuel tanks, fuel lines (for liquid fuel and fuel vapors), fuel caps, valves, filters, clamps, connectors, and other associated components. Also, included may be hoses, belts, 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 small off-road engine 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 coverage 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 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 shall 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 844-387-6629 or email [support@duromaxpower.com](mailto:support@duromaxpower.com).



# WARRANTY (CONTINUED)

## **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 DuroMax Power Equipment according to Subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for a time not less than 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" shall advise owners of the warranty coverage for emission related parts. Replacement within the warranty period is covered by the warranty and will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for a time not less than 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 a time not less than 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 emission control system's warranty period stated above, the manufacturer must maintain a supply of warranted parts sufficient to meet the expected demand for such parts and must obtain additional parts if that supply is exhausted.

9. Manufacturer-approved replacement parts that do not increase the exhaust or evaporative emissions of the engine or emissions control system must be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of DuroMax Power Equipment.

10. Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts will be grounds for disallowing a warranty claim made in accordance with this Article. DuroMax Power Equipment will not be liable under this Article to warrant failures of warranted parts caused by the use of an add-on or modified part.

11. DuroMax Power Equipment shall provide any documents that describe warranty procedures or policies within five working days of request by the Executive Officer.

#### **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.
- ii. Thermal reactor.
- iii. 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.

#### **Evaporative Emission Warranty Part List**

##### **1. Fuel Tank**

##### **2. Fuel Cap**

##### **3. Fuel Line (for liquid fuel and fuel vapors)**

##### **4. Fuel Line Fittings**



# WARRANTY (CONTINUED)

- 5. Clamps\*
- 6. Pressure Relief Valves\*
- 7. Control Valves\*
- 8. Control Solenoids\*
- 9. Electronic Controls\*
- 10. Vacuum Control Diaphragms\*
- 11. Control Cables\*
- 12. Control Linkages\*
- 13. Purge Valves\*
- 14. Gaskets\*
- 15. Liquid/Vapor Separator
- 16. Carbon Canister
- 17. Canister Mounting Brackets
- 18. Carburetor Purge Port Connector

\* 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



# CUSTOMER SERVICE DEPARTMENT

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 Mon-Fri

Website: [www.duromaxpower.com](http://www.duromaxpower.com)  
Email: [customer\\_service@duromaxpower.com](mailto:customer_service@duromaxpower.com)

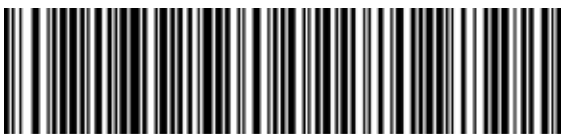






5800 Ontario Mills Parkway  
Ontario, CA 91764  
United States

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XP15000HXT-MANUAL

REV: XP15000HXT-12012023