DUAL FUEL

XP2300IH INVERTER GENERATOR

User Manual

REV: XP2300iH-02032021

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

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CONTENTS

1. **Introduction**

- Introduction 6
- General Safety Procedures 8
- Quick Start Guide (Gasoline) 14
- Quick Start Guide (Propane) 16
- Generator Components 18
- Package Contents 20

2. **Generator Setup**

- Adding Oil 22
- Adding Gasoline 23
- Grounding the Generator 24
- High Altitude Operation 24

3. **Starting the Generator**

- Checking the Oil 26
- Check the Gas Level 27
- Starting the Generator Using Gasoline 28
- Starting the Generator Using Propane 30

4. **Using the Generator**

- AC Usage 34
- Connecting a Load to the Generator 36
- Parallel Usage 38

CONTENTS

5. **Maintenance and Care**

- Maintenance Schedule 40
- Maintenance Log 41
- Checking the Oil 42
- Changing the Oil 43
- Cleaning the Air Filter 44
- Spark Plug Maintenance 46
- Storage and Transportation 48
- Specifications 49

6. **Troubleshooting**

- Basic Troubleshooting 52

7. **Warranty** 54

8. **Contact Information** 58

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. Inevitability 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!

DuroMax NEXT GENERATION POWER SYSTEMS

DUAL FUEL

Notice Regarding Emissions

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

GENERAL SAFETY PROCEDURES

SAFETY ALERT SYMBOL

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

Please familiarize yourself with the following safety symbols and words:

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

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

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

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

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

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

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. GFCls 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.

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: _____

ALWAYS READ THE OWNER'S MANUAL FIRST

KNOW THE SYMPTOMS

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

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** for more information.

TAKE IT OUTSIDE™

CARBON MONOXIDE KILLS

POWERING EVERYONE...
ANYWHERE!

QUICK START

The quick start of your generator is the minimum necessary setup that will get you going as soon as possible. Be sure to read the instructions for full setup instructions.

QUICK START GUIDE (GASOLINE)

1. Add oil

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

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. Select gasoline fuel

The fuel selector is located on the top of the fuel selection panel. Turn the selector counterclockwise to select gasoline.

4. Turn gas valve on

The gas valve is located on the gas cap. Rotate the valve clockwise to the ON position.

5. Pull out choke

Pull out the choke lever to allow more fuel into the engine for starting.

6. Turn start switch on

The start switch is located on the left side of the front power panel next to the low Idle. Press the switch up to the start position to allow the generator to start.

7. Turn low idle off

The low Idle is located on the left side of the front power panel, next to the parallel outlet. Flip the switch down to disable eco mode when starting the generator.

8. Pull the recoil start

The recoil start is located above the fuel panel. Pull the recoil start briskly to start the generator.

9. Push in choke

Push in the choke lever to allow the engine to get more air for normal operation.

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

2. Connect propane hose

The LPG Inlet is located on the bottom of the fuel selection panel. Connect the propane hose to both the inlet and the propane tank. Open the propane tank.

3. Select LPG fuel

The fuel selector is located on the top of the Fuel Selection Panel. Turn the selector clockwise to select propane.

4. Turn gas valve off

The gas valve is located on the gas cap. Rotate the valve counter clockwise to the OFF position.

5. Turn start switch on

The start switch is located on the left side of the front power panel next to the low Idle. Press the switch up to the start position to allow the generator to start.

6. Turn low idle off

The low idle is located on the left side of the front power panel, next to the parallel outlet. Flip the switch down to disable eco mode when starting the generator.

7. Decompress

The decompression valve is located on the propane hose. Press the button for 3 - 5 seconds to release any air in the line.

8. Pull the recoil start

The recoil start is located above the fuel panel. Pull the recoil start briskly to start the generator.

9. Connect devices

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

GENERATOR COMPONENTS

1. **Wheels** - Solid wheels allow for easy transportation over any terrain.
2. **Choke** - Assist the generator when starting on gasoline.
3. **Fuel Switch** - GAS/LPG Valve that changes the fuel into the engine.
4. **Recoil Start** - Pull the recoil start handle to spin the engine during start-up.
5. **Fuel Cap -** Allows access to fill the gasoline tank.
6. **Fuel Valve -** Open to allow gasoline into the engine, close to transport or run with propane.
7. **Handle** - Allow for easy steering during transportation.
8. **Power Panel** - Allows access to fill the gasoline tank.
9. **LPG Inlet** – Connects the LPG Inlet to the LPG Hose/Regulator.
10. **Low Idle** - Lowers the engine speed to match the load to save on fuel and reduce noise levels.
11. **Start Switch** - Allows power to the starter and panel. Prevents accidental starting.
12. **USB Outlets** – 5v DC Output in USB-A and USB-C for charging batteries or running USB powered items.

13. **Multimeter** - Provides information of Hours Run, Voltage, Hertz, current load on the generator measured in kW, and the amount of gasoline in the gas tank.
14. **Breaker** - Resettable switch that protects the generator from electrical overload.
15. **Ground Lug** - Grounds the generator to the earth. (may be required by code)
16. **120v Receptacle** - Use to connect electrical devices that run 120 Volt, 60 Hz, single phase AC current (NEMA 5-20).
17. **120v 3-Prong Twist Lock** - Use to connect electrical devices that run 120 Volt, 60 Hz, single phase, AC current (L5-30).
18. **Parallel Ports** – Allow you to combine the output of two generators for maximum 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.

Double Sided Screw Driver

Phillips and slot blade screwdriver used for generator maintenance.

Oil Funnel w/ hose

Used to add oil to the generator without messy spills.

Spark Plug Wrench

Used in spark plug maintenance, inspection, and installation.

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

GENERATOR SETUP

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

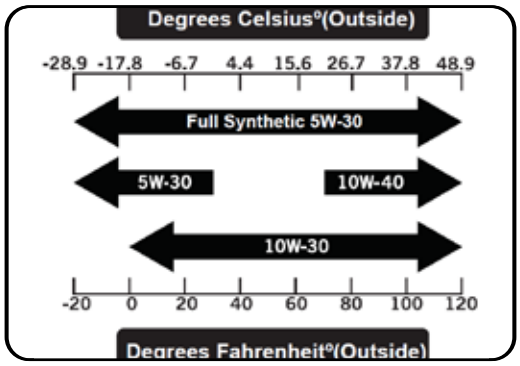
GENERATOR SETUP (CONTINUED)

Step 1 - Adding Oil

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

Model Number	XP2300iH
Engine Oil Capacity	13 fl. oz (0.4L)

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.

Add oil

a. Make sure the generator is on a level surface.

b. Remove the oil fill cover

c. Unscrew the oil filler/dipstick cap from the engine.

d. Using a funnel, add the appropriate amount of oil into the crankcase. You will know the crankcase is full when the oil level has reached the lower lip of the opening you have just poured the oil into.

e. Replace the oil filler cap.

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

Step 2 - Adding Gasoline (Optional)

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. The fuel gauge on the digital display indicates how much gasoline is in the generator's gas tank.

d. Replace fuel cap and wipe up any spilled gasoline with a dry cloth.

Model Number	XP2300iH
Gas Tank Capacity	1.1 US Gal. (4.2L)

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 4 - Grounding the Generator

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 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.

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:

a. Make sure the generator is on a level surface.

b. Remove the oil cover.

c. Unscrew the oil filler/dipstick cap.

d. With a dry cloth, wipe the oil off of the stick on the inside of the cap.

e. 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).

f. Be sure to replace the cap when finished checking oil.

Model Number	XP2300iH
Engine Oil Capacity	13 fl. oz (0.4L)

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 the digital display will indicate how much fuel is in the gas tank.

WARNING: Gasoline and gasoline fumes are highly flammable.

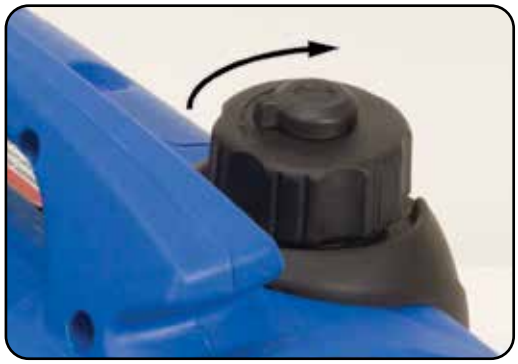
- Do not fill the tank near an open flame.
- Always allow the engine to cool for several minutes before refueling.
- DO NOT overfill the fuel tank. Fuel expands when shaken or heated. ALWAY leave $1^1/_2$“ space or more at the top of the tank.
- ALWAYS use fresh fuel or stabilized fuel. Old gasoline (older than 30 days) can cause permanent damage to the fuel system.
- Always check for fuel spills.

STARTING THE GENERATOR

Starting the generator using gasoline

1. Select gasoline fuel

The fuel selector is located on the top of the fuel selection panel. Turn the selector counterclockwise to select gasoline.



2. Turn gas valve on

The gas valve is located on the gas cap. Rotate the valve clockwise to the ON position.

3. Pull out choke

Pull out the choke lever to allow more fuel into the engine for starting.

4. Turn start switch on

The start switch is located on the left side of the front power panel next to the low idle. Press the switch up to the start position to allow the generator to start.

5. Turn low idle off

The low idle is located on the left side of the front power panel. Flip the switch down to disable eco mode when starting the generator.

6. Pull the recoil start

The recoil start is located above the fuel panel. Pull the recoil start briskly to start the generator.

7. Push in choke

Push in the choke lever to allow the engine to get more air for normal operation.

8. Connect devices

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

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. Connect propane hose

The LPG inlet is located on the bottom of the fuel selection panel. Connect the propane hose to both the inlet and the propane tank. Open the propane tank.

2. Select LPG fuel

The fuel selector is located on the top of the fuel selection panel. Turn the selector clockwise to select propane.

3. Turn gas valve off

The gas valve is located on the gas cap. Rotate the valve counter clockwise to the OFF position.

4. Turn start switch on

The start switch is located on the left side of the front power panel next to the low idle. Press the switch up to the start position to all the generator to start.

5. Turn low idle off

The low idle is located on the left side of the front power panel. Flip the switch down to disable eco mode when starting the generator.

6. Decompress

The decompression valve is located on the propane hose. Press the button for 3 - 5 seconds to release any air int he line.

7. Pull the recoil start

The recoil start is located above the fuel panel. Pull the recoil start briskly to start the generator.

8. Connect devices

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

STARTING THE GENERATOR (CONTINUED)

Starting the Generator Using Propane

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

1. Before using, make sure all of the LPG connectors and hoses are well connected and sealed.
2. Connect electrical devices to the 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 Battery Switch to the “OFF” position.

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

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 to 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	1800	2300
Propane	1700	2150

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.

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.

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.

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

1. Plug in devices

Plug in devices to the appropriate receptacle.

2. 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.

DEVICE REQUIREMENTS		WIRE GAUGE BY LENGTH (ft.)				
AMPS	**WATTS (120/240V)**	**10**	**25**	**50**	**100**	**150**
5	**600/1200**	18	16	14	14	14
10	**1200/2400**	16	16	14	14	12
15	**1800/3600**	14	14	12	12	10
20	**2400/4800**	14	12	12	12	10
25	**3000/6000**	12	12	10	10	8
30	**3600/7200**	12	10	10	10	8
40	**4800/9600**	10	8	8	NR	NR
50	**6000/12000**	8	6	6	NR	NR
***NR = NOT RECOMMENDED**						

Parallel Usage

1. Connect Ground

Connect one side of the green cable to the ground bolt found in the lower right corner of the panel of generator 1.

2. Connect Positive

Connect the corresponding red cable to the red parallel port on the front panel of generator 1.

3. Connect Negative

Connect the corresponding black cable to the black parallel port on the front panel of generator 1.

4. Repeat on Generator 2

Repeat steps 1 - 3 on generator 2. Combined power will be available from either 30A 120v receptacle.

CAUTION: Do not connect red (positive) cable to the black (negative) receptacle. Damage to the generator may occur.

MAINTENANCE AND CARE

Proper maintenance and storage of your generator are 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 smoothly and efficiently 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.

	Before each use	After 1st month or 20 hours	Every 3 months or 50 hours	Every 6 months or 100 hours	Every year or after 300 hours
Check Engine oil	●				
Change Engine oil		●		●	
Check Air Filter	●				
Clean Air Filter			●		
Change Air Filter					●
Check/Adjust Spark Plug				●	
Replace Spark Plug					●
Check/Adjust Idle Speed					●
Clean Fuel Tank & Filter				●	
Check Fuel Hose	●				
Fuel Filter	**Inspect**				**Replace**
Check/Adjust Valve Clearance					●
Clean Spark Arrester				●	

MAINTENANCE LOG

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:

a. Make sure the generator is on a level surface.

b. Unscrew the oil filler/dipstick cap.

c. With a dry cloth, wipe the oil off of the stick on the inside of the cap.

d. Insert the dipstick as if you were replacing the cap and then remove 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).

e. The oil will be visible in the oil fill spout when full.

f. Be sure to replace the cap when finished checking oil.

Model Number	XP2300iH
Engine Oil Capacity	13 fl. oz (0.4L)

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.

1. Remove drain cover

Remove the oil drain covers and dipstick.

2. Drain oil

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

3. Replace dipstick

Replace the oil dipstick.

Cleaning the air filter

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. Remove the filter cover

Release the clips on the top and bottom of the cover and move the filter cover to allow access to the element.

2. Remove filter

Remove the sponge-like elements from the casing.

3. Wash cleaner element

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

4. Dry cleaner element

Pat dry on a dry cloth and allow the elements to dry completely.

5. Add engine oil to elements

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

6. 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.

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 F6RTC spark plug such as NGK BPR6ES.

4. Measure plug gap

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

5. Clean and re-gap

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

6. 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.

Storage and Transportation

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

When transporting your generator:

- Disconnect the spark plug.
- Do not obstruct any ventilation openings & keep the generator in a cool dry area.

Storage Period	Storage Preparation
If you plan on starting the same day.	1. Allow the unit to run 3 - 5 minutes. 2. Turn off the start switch. 3. Store.
If you plan on starting the unit again within 30 days.	1. Allow the unit to run 3 - 5 minutes. 2. Turn off the fuel valve. 3. Allow the unit to stall out. 4. Turn off the start switch. 5. Add fuel stabilizer to the gas remaining in the tank. 6. Store.
If you do not plan to start the unit for longer than 30 days.	1. Turn off the main breaker. 2. Allow the unit to run 3 - 5 minutes. 3. Turn off the fuel valve. 4. Allow the unit to stall out. 5. Turn off the start switch. 6. Drain the fuel tank (See “Emptying the Gas Tank” in the “Maintenance” section) 7. Drain the carburetor a. Remove the drain bolt from the carburetor. b. Drain the small amount of remaining fuel from the carburetor bowl. 8. Oil the cylinder a. Remove the spark plug. b. Put 2 tbsp. of 10w30 motor oil directly into the spark plug hole c. Pull the recoil start one time. d. Replace the plug. 9. Remove the battery and place on tender indoors.

SPECIFICATIONS

AC Rated Wattage (Gasoline)	1800W
AC Rated Wattage (Propane)	1700W
AC Surge Wattage (Gasoline)	2300W
AC Surge Wattage (Propane)	2150W
AC Rated Voltage	120V
AC Rated Frequency	60 Hz
AC Phase	Single
DC Voltage	5V
DC Amperage	3A
Engine Type	4-Stroke OHV Forced-Air
Ignition System	Non-Contact Transistor
Displacement	79.8cc
Starting Type	Electric
Fuel Tank Capacity	1.1 US Gal.
Oil Capacity	13 fl. oz. (0.4L)
Run Time @ 50% (Gasoline)	11 hr.
Run Time @ 50% (Propane)	8 hr. (5 Gallon)
Noise Level	<65db

POWERING EVERYONE...
ANYWHERE!

TROUBLESHOOTING

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

TROUBLESHOOTING

Mode	Description	
Will not start	Engine switch is in the OFF position.	Turn engine switch to the ON position.
	Stale gasoline or water in gasoline.	Drain entire system and refill with fresh fuel.
	Engine is out of fuel	Add fuel
	Fuel is old or contaminated	Change fuel
	Spark Plug is dirty	Clean spark plug
	Spark Plug is broken	Replace spark plug
	Generator is not level	Move generator to a level surface
	Oil is low.	Add / change oil
Engine runs, but there is no electrical output	Wiring connection is bad	Replace extension cord(s)
	Device connected to generator is malfunctioning	Disconnect malfunctioning device
Generator runs, but does not support all electrical devices connected	Generator is overloaded	Disconnect 1 or more items to reduce the load
	Device connected to generator is bad	Disconnect malfunctioning device
	Air Cleaner is dirty.	Clean / replace the air filter

POWERING EVERYONE...
ANYWHERE!

WARRANTY

3-year Warranty

All DuroMax 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 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 EPA AND CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT
YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board, The United States Environmental Protection Agency (US EPA) and DuroMax Power Equipment, are pleased to explain the emission control system warranty on your 2021-2022 year small off-road engine. In the United States and 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 emission control system on your small off-road engine for the periods of time listed below provided there has been no abuse neglect or improper maintenance of your small off-road engine.

Your emission control system may include parts such as the carburetor or fuel injection system, the ignition system, and a catalytic converter. Also included may be hoses, belts, connectors, 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:

As the small off-road engine owner, you are responsible for the 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 for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine owner, you should, however, be aware that DuroMax Power Equipment may deny you warranty coverage if your small off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine to a DuroMax Power Equipment distribution center as soon as a 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 rights and responsibilities, contact DuroMax Power Equipment authorized warranty service facility:

TEL: 1-844-387-6629
WEBSITE: www.DuroMaxpower.com
ADDRESS: 5800 Ontario Mills Pkwy, Ontario CA 91764

This telephone number is only for the engines which the company name "DuroMax Power Equipment" on the emission label.

DEFECTS WARRANTY REQUIREMENTS:

(a) The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser.

(b) General Emissions Warranty Coverage. DuroMax Power Equipment warrants to the ultimate purchaser and each subsequent owner that the engine or equipment is:

(1) Designed, built, and equipped so as to conform with all applicable regulations adopted by US EPA & 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.

(c) The warranty on emissions-related parts will be interpreted as below:

(1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions required by subsection (d) must be warranted for the warranty period defined in Subsection(b)(2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by DuroMax Power Equipment according to

WARRANTY (CONTINUED)

Subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for the remaining warranty period.

(2) Any warranted part that is scheduled only for regular inspection in the written instructions required by subsection(d)must be warranted for the warranty period defined in Subsection(b)(2). A statement in such written instructions to the effect of “repair or replace as necessary” will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for the remaining warranty period.

(3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions required by subsection (d) must be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part must be repaired or replaced by DuroMax Power Equipment 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 DuroMax Power Equipment 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) DuroMax Power Equipment is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part.

(8) Throughout the emissions warranty period defined in Subsection (b)(2), DuroMax Power Equipment must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

(9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner such use will not reduce the warranty obligations of 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. DuroMax Power Equipment will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

(11) DuroMax Power Equipment issuing the warranty shall provide any documents that describe that manufacturer’s warranty procedures or policies within five working days of a request by the US EPA & 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.
- (iv) Fuel tank.

(2) Air induction system
- (i) Controlled hot air intake system.
- (ii) Intake manifolds.
- (iii) Air filter.

(3) Ignition System
- (i) Spark Plugs.
- (ii) Magneto or electronic ignition system.
- (iii) Spark advance/retard system.

(4) Exhaust Gas Recirculation (EGR) System
- (i) EGR valve body, and carburetor spacer if applicable.
- (ii) EGR rate feedback and control system.

(5) Air Injection System
- (i) An air pump or pulse valve.
- (ii) Valves affecting the distribution of flow.
- (iii) Distribution manifold.

(6) Catalyst or Thermal Reactor System
- (i) Catalytic converter.
- (ii) Thermal reactor.
- (iii) Exhaust manifold.

(7) Particulate Controls
- (i) Traps, filters, precipitators, and any other device used to capture particulate emissions.

(8) Miscellaneous Items Used in Above Systems
- (i) Electronic controls
- (ii) Vacuum, temperature, and time-sensitive valves and switches.
- (iii) Hoses, belts, connectors, and assemblies.

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

CUSTOMER SERVICE

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: 8-5 pm PST

Website: www.DuroMaxpower.com
Email: customerservice@DuroMaxpower.com

5800 Ontario Mills Parkway
Ontario, CA 91764
United States

844-DuroMax

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