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Pulsar GD400BN

Pulsar Products GD400BN Inverter Generator Instruction Manual

Model: GD400BN

Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Pulsar Products GD400BN Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.
The Pulsar GD400BN is a portable, super-quiet, dual-fuel inverter generator designed for versatility and reliability. It offers parallel capability and is RV-ready, making it suitable for various applications from recreational use to emergency home backup.

Key Features

- **Dual Fuel Capability:** Operates on both gasoline (4000 peak watts / 3200 running watts) and propane (3600 peak watts / 2800 running watts).
- **Ultra-Lightweight Design:** Weighs only 47.3 pounds, making it highly portable and ideal for outdoor activities.
- **Super Quiet Operation:** Produces approximately 59dB at half load, ensuring minimal noise disturbance.
- **RV Ready:** Equipped with an RV-ready outlet for convenient power supply to recreational vehicles.
- **Parallel Capability:** Allows connection with another compatible unit for increased power output.
- **Clean Power Output:** Safely powers sensitive electronics such as televisions, cell phones, and laptops.
- **Extended Runtime:** Provides continuous operation for up to 4.5 hours at half load with its 1.1-gallon fuel tank.
- **Powerful Engine:** Features a high-speed 5.5HP 145cc engine for reliable performance.

Setup and First Use

1. Unboxing and Included Accessories

Carefully remove the generator and all accessories from the packaging. Inspect for any shipping damage. The package typically includes:

- Pulsar GD400BN Inverter Generator
- 10W-30 Engine Oil
- Oil Funnel
- RV Adapter Plug (3-prong to RV)
- Propane Hose with Regulator
- Spark Plug Wrench
- Screwdriver



Figure 1: Unboxed Pulsar GD400BN with all standard accessories.

2. Adding Engine Oil

Before first use, the generator must be filled with the provided 10W-30 engine oil. Locate the oil fill cap/dipstick on the side of the generator. Remove it and use the included funnel to carefully pour the entire bottle of oil into the engine. Ensure the generator is on a level surface during this process. Reinsert and tighten the dipstick once filled.



Figure 2: Side panel of the generator where the oil fill cap is located.

Your browser does not support the video tag.

Video 1: Detailed guide on adding oil to the Pulsar GD400BN generator.

3. Connecting Fuel Source (Propane or Gasoline)

The GD400BN supports both gasoline and propane. Choose your desired fuel source.

For Gasoline:

- Ensure the generator is off and cool.
- Open the fuel cap and fill with unleaded gasoline (minimum 87 octane). Do not overfill.
- Securely close the fuel cap.

For Propane:

- Connect the provided propane hose and regulator to a standard propane tank.
- Connect the other end of the hose to the propane inlet on the generator's control panel.
- Slowly open the valve on the propane tank.



Figure 3: Generator connected to a propane tank, demonstrating dual fuel capability.

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Video 2: Overview of the Pulsar GD400BN 4000W Dual Fuel Portable Generator, highlighting its features and fuel options.

4. Starting Procedure

Always operate the generator outdoors in a well-ventilated area, away from windows and doors, to prevent carbon monoxide poisoning.

1. Ensure the generator is on a firm, level surface.
2. Set the "Fuel Source" switch on the control panel to either "Gasoline" or "Propane" depending on the fuel used.
3. Turn the "Multi-Switch" to the "Start (Choke)" position.
4. Pull the recoil start handle firmly and steadily until the engine starts.
5. Once the engine starts, slowly move the "Multi-Switch" to the "Run" position.
6. Allow the generator to run for a few minutes to warm up before connecting any loads.



Figure 4: Close-up of the generator's control panel, showing the multi-switch and fuel source selector.

Operating the Generator

1. Connecting Devices

Once the generator is running smoothly, you can connect your electrical devices. Ensure the total wattage of connected devices does not exceed the generator's running wattage capacity.

- The generator features AC 120V 20A outlets and an AC 120V 30A RV-ready outlet.
- For RV connections, use the provided RV adapter or a compatible RV power cord.
- For sensitive electronics, ensure the "Low Idle" switch is set to "On" for optimal fuel efficiency and quieter operation, as the generator will adjust engine speed based on load.



Figure 5: Front view of the Pulsar GD400BN, showing available power outlets.

2. Parallel Operation (Optional)

To increase your power output, you can connect two Pulsar GD400BN generators using a compatible parallel kit (sold separately). This allows you to combine their power for higher wattage demands, such as running an RV air conditioner.

1. Ensure both generators are off and cool.
2. Connect the parallel cables to the designated parallel connection ports on both generators.
3. Start both generators individually following the standard starting procedure.
4. Once both are running, they will automatically synchronize for combined power output.



Figure 6: Two GD400BN units operating in parallel to provide increased power.

3. RV Use

The GD400BN is designed to be RV-friendly, providing reliable power for your recreational vehicle's needs, including air conditioning units (check your RV's AC starting wattage requirements).



Figure 7: Generator positioned to power an RV, highlighting its RV-ready feature.

Maintenance

Regular maintenance is crucial for the longevity and optimal performance of your generator. Always ensure the generator is off, cool, and disconnected from any fuel source before performing maintenance.

1. Engine Oil Change

Change the engine oil after the first 20 hours of operation, and then every 100 hours or annually, whichever comes first. Use 10W-30 engine oil.

- Place a drain pan beneath the oil drain plug.
- Remove the oil drain plug and oil fill cap/dipstick to allow oil to drain completely.
- Reinstall the drain plug and fill with new oil using the funnel.
- Check the oil level with the dipstick (do not screw in to check).

2. Air Filter Maintenance

Clean the foam filter element with soap every 50 hours of operation, or more frequently in dusty conditions. Replace the paper filter element as needed.

- Locate the air filter cover on the side of the generator.
- Remove the cover and carefully extract the foam and paper filter elements.
- Clean the foam element with warm, soapy water, rinse thoroughly, and allow to air dry completely before reinstallation.
- Reassemble the air filter components and cover.



Figure 8: Maintenance access points for air filter and lubricating oil.

3. Spark Plug Inspection

Inspect the spark plug every 100 hours or annually. Clean or replace if necessary.

- Remove the spark plug cap and use the provided spark plug wrench to remove the spark plug.
- Inspect for carbon buildup or wear. Clean with a wire brush or replace if damaged.
- Ensure the correct gap is maintained (refer to specifications).
- Reinstall the spark plug and cap.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Engine will not start	No fuel or incorrect fuel type selected.	Add fresh fuel; ensure correct fuel source is selected on the switch.
	Low engine oil.	Add engine oil to the proper level.
	Spark plug fouled or damaged.	Clean or replace spark plug.
No power output	Circuit breaker tripped.	Reset the circuit breaker on the control panel.
	Overload condition.	Reduce the electrical load connected to the generator.
Engine runs rough or stalls	Stale fuel or water in fuel.	Drain old fuel and refill with fresh fuel.
	Dirty air filter.	Clean or replace the air filter.

Specifications

Attribute	Detail
Brand	Pulsar
Model Name	GD400BN
Wattage (Gasoline)	4000 Peak Watts / 3200 Running Watts
Wattage (Propane)	3600 Peak Watts / 2800 Running Watts
Fuel Type	Propane, Gasoline
Power Source	Gas-powered
Recommended Uses	RV, Emergency Home Backup, Power Tools, Camping
Item Weight	47.3 Pounds
Voltage	120 Volts (AC)
Engine Type	4 Stroke, 145cc
Ignition System Type	Recoil Start
Tank Volume	1.1 Gallons
Runtime (Half Load)	4.5 hours (Gasoline)
Total Power Outlets	2 (AC 120V 20A), 1 (AC 120V 30A RV)
Frequency	60 Hz

Attribute	Detail
Product Dimensions	18.9"L x 11.4"W x 17.3"H
Material	PVC
Country of Origin	China

Warranty Information

The Pulsar Products GD400BN Inverter Generator comes with a**1-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the warranty card included with your product or visit the official Pulsar Products website.

Customer Support

For technical assistance, troubleshooting, or parts inquiries, please contact Pulsar Products customer support:

- **Website:** Pulsar Products Official Store
- Refer to your product packaging or the official website for phone numbers or email contacts.

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