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AIVOLT AT20-2100001E

AIVOLT AT20-2100001E Dual Fuel Portable Inverter Generator Instruction Manual

Model: AT20-2100001E | Brand: AIVOLT

1. Introduction

Thank you for choosing the AIVOLT AT20-2100001E Dual Fuel Portable Inverter Generator. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your generator. Please read this manual thoroughly before operating the unit and keep it for future reference.

2. Safety Information

WARNING: Operating a generator can be dangerous. Failure to follow safety instructions may result in serious injury or death. Always operate the generator outdoors in a well-ventilated area, away from windows, doors, and vents to prevent carbon monoxide poisoning.

- **Carbon Monoxide (CO) Alert:** This generator is equipped with CO Alert technology, which automatically shuts down the generator if unsafe levels of carbon monoxide are detected.
- **Low Oil Shutoff:** The generator will automatically shut down if the oil level is too low to protect the engine from damage.
- **Overload Protection:** Built-in overload protection and indicator lights safeguard both the generator and connected electronics.
- **Outdoor Use Only:** Never operate the generator indoors or in enclosed areas.
- **Fuel Handling:** Handle fuel with care. Gasoline is highly flammable. Store fuel in approved containers in a well-ventilated area.

3. Setup

3.1 Unboxing and Assembly

Carefully remove the generator and all components from the packaging. Inspect for any damage. The generator comes with wheels and handles for easy portability.



Figure 3.1: Unboxed AIVOLT generator with wheels and handle components ready for assembly. The image shows the generator body, two wheels, a handle, and various small parts in a styrofoam tray.

Attach the wheels and handles using the provided tools and hardware. Ensure all connections are secure.



Figure 3.2: The AIVOLT generator fully assembled with its handle extended and wheels attached, ready for transport. The generator is blue and black, with an orange control panel.

3.2 Battery Connection

The generator's battery is disconnected for safety during shipping. Reconnect the battery terminals to enable the electric start function.

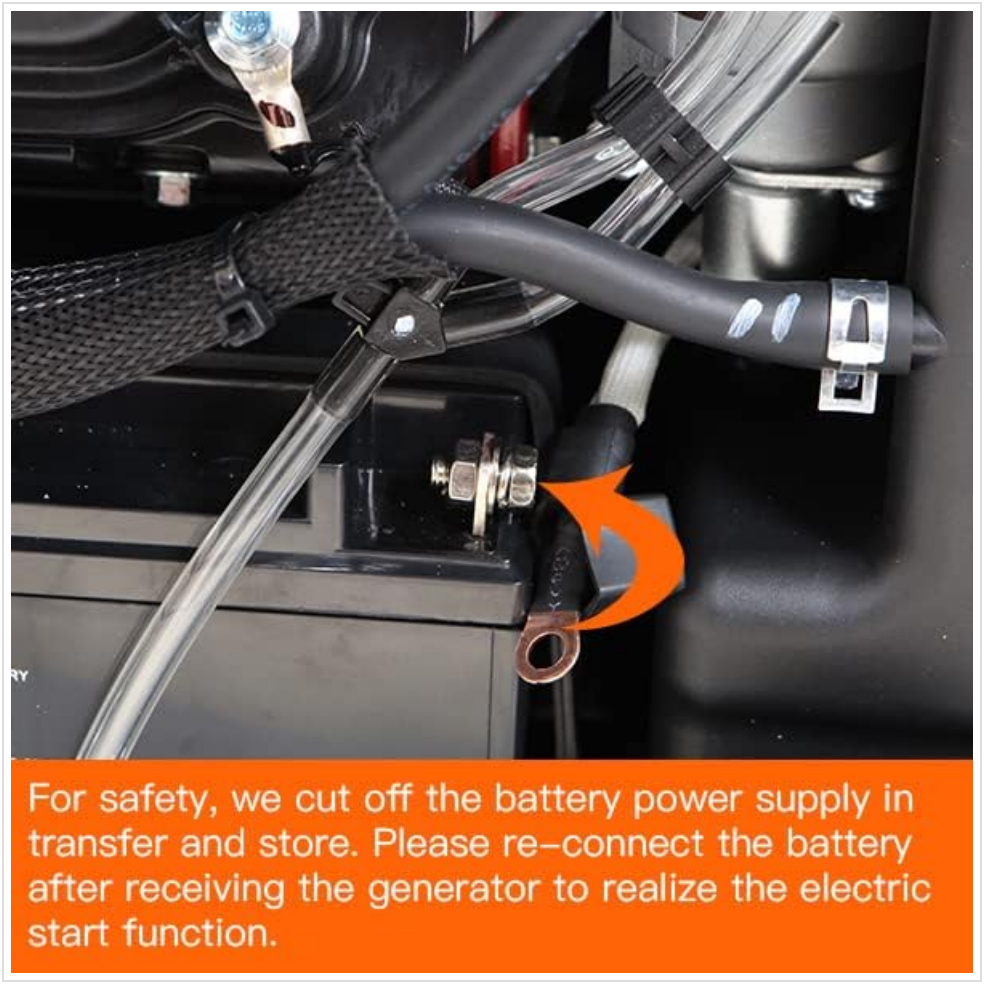


Figure 3.3: A close-up view showing a hand connecting the negative terminal of the generator's battery. The image highlights the importance of reconnecting the battery for electric start functionality.

3.3 Add Engine Oil

The generator is shipped without oil. Before operation, add approximately 37.2 fl.oz (1.1 L) of 10W-30 engine oil using the provided oil funnel. Do not overfill.

3.4 Add Fuel

This dual fuel generator can operate on either gasoline or propane. Ensure the generator is placed on a level surface before adding fuel.

- **For Gasoline:** Use clean, fresh regular unleaded gasoline with a minimum 87 octane. Do not store fuel in the generator for extended periods.
- **For Propane (LPG):** Connect the LPG hose with regulator to a propane tank and to the generator's LPG inlet.

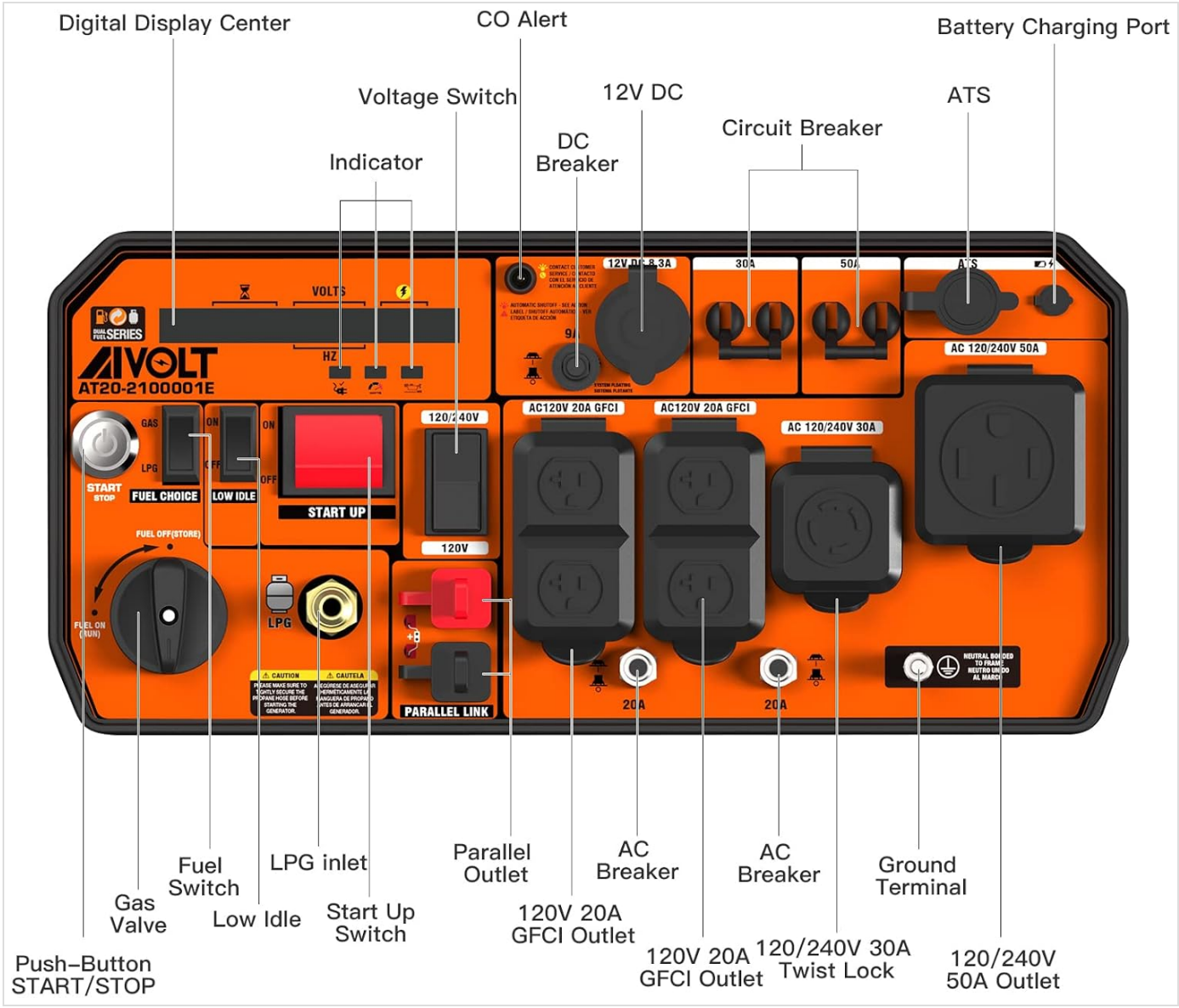


Figure 3.4: The AIVOLT generator positioned next to a red gasoline can and a blue propane tank, illustrating its dual-fuel capability. The image shows the generator ready for fuel input.

4. Operating Instructions

4.1 Control Panel Overview

The control panel provides access to all operational functions and monitoring displays.



Figure 4.1: A detailed diagram of the AIVOLT generator's control panel, highlighting various outlets, switches, and the digital display center. Key components include the fuel switch, start/stop button, various AC outlets (120V 20A GFCI, 120V/240V 30A Twist Lock, 120V/240V 50A Industrial), DC cigarette outlet with USB adapter, ATS outlet, and circuit breakers.

4.2 Starting the Generator

The AIVOLT generator offers multiple starting methods: electric start, remote start, and recoil start.

1. **Turn on the Fuel Valve:** Rotate the fuel valve to the 'ON' position.
2. **Select Fuel Source:** Use the fuel choice switch to select either 'GAS' or 'LPG' based on the fuel you are using.
3. **Start Up Switch:** Move the Start Up Switch to the 'ON' position.
4. **Low Idle Switch:** Ensure the Low Idle Switch is in the 'OFF' position for starting.
5. **Electric Start:** Press and hold the ENGINE START/STOP button for 5 seconds until the engine starts.
6. **Remote Start:** Use the provided remote controller to start the generator from a distance.
7. **Recoil Start:** If electric start is not available, pull the starter cord until resistance is felt, then pull rapidly to start the engine.

Operation Video: For a visual guide on starting and operating your generator, please refer to the official operation video below.

Video 4.1: Official operation video for the AIVOLT AT20-2100001E generator, demonstrating the startup procedure and key features of the control panel.

4.3 Stopping the Generator

To stop the generator, first remove all loads. Then, press and hold the ENGINE START/STOP button until the engine shuts off. If using propane, close the valve on the propane tank.

4.4 Eco Mode

The Eco Mode switch allows the generator to adjust engine speed to match the load, improving fuel efficiency and reducing noise. For starting, ensure this switch is in the 'OFF' position.

4.5 Outlets and Parallel Capability

The generator features a multifunction control panel with various outlets to meet different power requirements:

- 4 x 120V 20A GFCI outlets
- 1 x 120V/240V 30A Twist Lock outlet
- 1 x 120V/240V 50A Industrial outlet
- 1 x 12V DC cigarette outlet with a dual USB adapter
- 1 x ATS outlet for connecting to your home's electrical system

With a 240V parallel kit (not included), you can connect two AIVOLT 10000-watt inverter generators to double your power output.

5. Maintenance

Regular maintenance is crucial for the longevity and optimal performance of your generator. Always refer to the full user manual for detailed maintenance schedules and procedures.

- **Oil Changes:** Check oil levels before each use. Change oil after the first 20 hours of operation, then every 100 hours or annually thereafter.
- **Air Filter:** Inspect and clean the air filter regularly, especially in dusty conditions. Replace if damaged.
- **Spark Plug:** Inspect and clean the spark plug every 100 hours or annually. Replace if necessary.
- **Spark Arrestor:** Clean the spark arrestor every 50 hours or annually to prevent carbon buildup.

6. Troubleshooting

If your generator experiences issues, consult the full user manual for a comprehensive troubleshooting guide. Here are some common tips:

- **Generator will not start:** Check fuel level, oil level, battery connection, and spark plug. Ensure the correct fuel source is selected.
- **No power output:** Check circuit breakers, ensure the generator is not overloaded, and verify all connections.
- **Engine runs rough:** Check fuel quality, air filter, and spark plug.

7. Specifications

Brand	AIVOLT
Model Name	AIVOLT Dual Fuel Portable Inverter Generator

Item Model Number	AT20-2100001E
Starting Wattage (Gasoline)	10000 Watts
Running Wattage (Gasoline)	8000 Watts
Starting Wattage (Propane)	9000 Watts
Running Wattage (Propane)	7200 Watts
Engine Type	4-Stroke OHV Air-Cooled
Engine Displacement	459cc
Fuel Type	Dual Fuel (Gasoline/Propane)
Tank Volume	6.6 Gallons
Noise Level	61 dBA (at 23 feet)
Total Power Outlets	8
Product Dimensions	30.63"L x 24.8"W x 29.45"H
Item Weight	299 pounds
Ignition System Type	Electric Start
Special Feature	Super Quiet, CO Protect

8. Accessories

The generator comes with the following practical accessories:

- Two Remote Controllers
- Dual 2.4A USB Adapter
- LPG Hose with Regulator
- Battery Charger
- Oil Funnel
- Tool Kits

9. Warranty and Support

Please refer to the warranty information provided with your generator at the time of purchase. For technical support or service inquiries, contact AIVOLT customer service.

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