

**WARNING**

Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust. Do not idle the engine except as necessary, service your equipment in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment. For more information go to www.P65Warnings.ca.gov.

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**DISCLAIMERS:**

All information, illustrations and specifications in this manual are based on the latest information available at the time of publishing. The illustrations used in this manual are intended as representative reference views only. Moreover, because of our continuous product improvement policy, we may modify information, illustrations and/or specifications to explain and/or exemplify a product, service or maintenance improvement. We reserve the right to make any change at any time without notice. Some images may vary depending upon which model is shown.

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**DANGER**

This manual contains important instructions for operating this inverter generator. For your safety and the safety of others, be sure to read this manual thoroughly before operating the generator. Failure to properly follow all instructions and precautions can cause you and others to be seriously hurt or killed.

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**iPro TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Running Watts</th>
<th>Peak Watts</th>
<th>Fuel Tank Size (L/G)</th>
<th>Rated Speed (RPM)</th>
<th>Ignition Type</th>
<th>Spark plug</th>
<th>Engine Disp (cc)</th>
<th>Stroke X Bore</th>
<th>Oil Capacity (L)</th>
<th>Oil Type</th>
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<tr>
<td>iPro2500</td>
<td>2200</td>
<td>2500</td>
<td>3.8/1.0</td>
<td>5500</td>
<td>CDI</td>
<td>E6RTC</td>
<td>98</td>
<td>52X46</td>
<td>0.35</td>
<td>10W30</td>
<td>&lt;5%</td>
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**NOTICE**

This generator is NOT equipped with altitude carburetor modification. Even with a carburetor modification, engine horsepower will decrease about 3.5% for each 300 meter (1,000 foot) increase in altitude. The effect of altitude on horsepower will be greater if no carburetor modification is made. A decrease in engine horsepower will decrease the power output of the generator. Contact our service team to order altitude kits. See page 16 for altitude kit numbers.

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**HAVE QUESTIONS?**

Email us at service@wpowereq.com or call 1-855-944-3571
FOR YOUR RECORDS:

Date of Purchase: ____________________________
Inverter Model Number: _______________________
Purchased from Store/Dealer: ___________________
Inverter Serial Number: _______________________

IMPORTANT: KEEP YOUR PURCHASE RECEIPT TO ENSURE TROUBLE-FREE WARRANTY COVERAGE.

PRODUCT REGISTRATION

To ensure trouble-free warranty coverage, it is important you register your Westinghouse inverter. You can register your generator by either:

1. Filling in the product registration form below and mailing to:

   **Product Registration**
   MWE Investments LLC
   777 Manor Park Drive
   Columbus, Ohio 43228


   To register your generator you will need to locate the following information:

   - **Model Info Decal located on side panel.**
   - **Serial Number which is located on bottom of muffler cover.**

---

**WESTINGHOUSE PRODUCT REGISTRATION FORM**

**PERSONAL INFORMATION**

First Name: ____________________________
Last Name: ____________________________
Street Address: ____________________________
Street Address: ____________________________
City, State, ZIP: ____________________________
Country: ____________________________
Phone Number: ____________________________
E-Mail: ____________________________

**INVERTER INFORMATION**

Model Number: ____________________________
Serial Number: ____________________________
Date Purchased: ____________________________
Purchased From: ____________________________

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SAFETY DEFINITIONS

The words DANGER, WARNING, CAUTION and NOTICE are used throughout this manual to highlight important information. Be certain that the meanings of these alerts are known to all who work on or near the equipment.

This safety alert symbol appears with most safety statements. It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alerts symbol.

DANGER
Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING
Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION
Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE
Indicates a situation which can cause damage to the generator, personal property and/or the environment, or cause the equipment to operate improperly.

NOTE: Indicates a procedure, practice or condition that should be followed in order for the generator to function in the manner intended.

SAFETY SYMBOL DEFINITIONS

<table>
<thead>
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<th>Description</th>
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</tr>
<tr>
<td>![Burn Hazard]</td>
<td>Burn Hazard</td>
</tr>
<tr>
<td>![Burst/Pressure Hazard]</td>
<td>Burst/Pressure Hazard</td>
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<tr>
<td>![Don’t leave tools in the area]</td>
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</tr>
<tr>
<td>![Electrical Shock Hazard]</td>
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<tr>
<td>![Explosion Hazard]</td>
<td>Explosion Hazard</td>
</tr>
<tr>
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<td>![Lifting Hazard]</td>
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<td>![Read Safety Messages Before Proceeding]</td>
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</tr>
<tr>
<td>![Wear Personal Protective Equipment (PPE)]</td>
<td>Wear Personal Protective Equipment (PPE)</td>
</tr>
</tbody>
</table>
SAFETY

GENERAL SAFETY RULES

⚠️ DANGER

Never use the inverter in a location that is wet or damp. Never expose the inverter to rain, snow, water spray or standing water while in use. Protect the inverter from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical circuit.

Never operate the inverter in an enclosed area. Engine exhaust contains carbon monoxide. Only operate the inverter outside and away from windows, doors and vents.

⚠️ WARNING

Voltage produced by the inverter could result in death or serious injury.

• Never operate the inverter in rain or a flood plain unless proper precautions are taken to avoid being subject to rain or a flood.
• Never use worn or damaged extension cords.
• Always have a licensed electrician connect the inverter to the utility circuit.
• Never touch an operating inverter if the inverter is wet or if you have wet hands.
• Never operate the inverter in highly conductive areas such as around metal decking or steel works.
• Always use grounded extension cords. Always use three-wire or double-insulated power tools.
• Never touch live terminals or bare wires while the inverter is operating.
• Be sure the inverter is properly grounded before operating.

⚠️ WARNING

Gasoline and gasoline vapors are extremely flammable and explosive under certain conditions.

• Always refuel the generator outdoors, in a well-ventilated area.
• Never remove the fuel cap with the engine running.
• Never refuel the inverter while the engine is running. Always turn engine off and allow the generator to cool before refueling.
• Only fill fuel tank with gasoline.
• Keep sparks, open flames or other form of ignition (such as match, cigarette, static electric source) away when refueling.
• Never overfill the fuel tank. Leave room for fuel to expand. Overfilling the fuel tank can result in a sudden overflow of gasoline and result in spilled gasoline coming in contact with HOT surfaces. Spilled fuel can ignite. If fuel is spilled on the inverter, wipe up any spills immediately. Dispose of rag properly. Allow area of spilled fuel to dry before operating the inverter.
• Wear eye protection while refueling.
• Never use gasoline as a cleaning agent.
• Store any containers containing gasoline in a well-ventilated area, away from any combustibles or source of ignition.
• Check for fuel leaks after refueling. Never operate the engine if a fuel leak is discovered.

⚠️ WARNING

Never operate the inverter if powered items overheat, electrical output drops, there is sparking, flames or smoke coming from the inverter, or if the receptacles are damaged.

Never use the inverter to power medical support equipment.

Always remove any tools or other service equipment used during maintenance from the inverter before operating.

NOTICE

Never modify the inverter.

Never operate the inverter if it vibrates at high levels, if engine speed changes greatly or if the engine misfires often.

Always disconnect tools or appliances from the inverter before starting.
SAFETY LABELS AND DECALS IPRO2500

SAFETY

NOTICE

- Stop this engine before refueling and clean any spilled fuel.
- Use only spark plug type specified. Refer to your Owner's Manual.
- Spark plug replacement chart can be found in your manual.

DANGER

Using gasoline in an enclosed area CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide, a poison gas you cannot see or smell.

WARNING

Never use inside a home or garage, EVEN IF doors and windows are open.

Only use outside and far away from windows, doors, and vents.

Avoid other generator hazards.

READ MANUAL BEFORE USE.

UNPACKING

Tools required – box cutter or similar device.

1. Carefully cut the packing tape on top of the carton.
2. Remove socket wrench, oil and funnel and save for later.
3. Carefully cut two sides of the carton to remove the inverter.

WHAT COMES IN THE BOX

- Spark Plug Socket Wrench (1)
- Owner Manual (1)
- Quick Start Guide (1)
- Warranty Information (1)
- Funnel (1)
- .37 Qt/.35 L Bottle of 10W-30 Oil (1)

UNPACKING


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FEATURES

BASIC INVERTER FEATURES IPRO2500

1. **Fuel Cap and Vent (vent: iPro2500 only):** Open the vent to run the engine and close the vent when the engine is off.

2. **Control Panel:** Contains the reset breaker, outlets and warning lights.

3. **Spark Plug Access Cover:** Remove the cover to service the spark plug.

4. **Recoil Handle:** Pull to start the engine.

5. **Engine Control Switch:** Sets the choke, turns the fuel on and off.

6. **Engine Service Panel:** Remove the panel to access the engine for maintenance.

7. **Muffler and Spark Arrestor:** Avoid contact until the engine is cooled down. The spark arrestor prevents sparks from exiting the muffler. It must be removed for servicing.

8. **Engine Cooling Vents:** Helps move airflow in unit to regulate engine temperatures.

9. **Recoil Handle Protective Cover:** Prevents pull cord wire from damaging inverter body.
CONTROL PANEL FEATURES IPRO2500

1. **120-Volt, 20-Amp Duplex Outlet (GFCI):** The outlet is capable of carrying a maximum of 20 amps.

2. **USB Duplex:** 5V DC that come in 1 amps and 2.1 amps.

3. **Reset Breaker:** If the inverter is overloaded, the reset breaker will trip. The engine will continue to run, but there will be no output from the inverter. Unplug the devices and reduce the load. Push in the reset breaker to reset it.

4. **Efficiency Mode Switch:** When turned to the ON position, the engine will sense the load needed and run at a slower RPM to save fuel.

5. **Ground Terminal:** The ground terminal is used to externally ground the inverter.

6. **Low Oil LED:** Indicates low oil level.

7. **Overload LED:** Indicates that the inverter is overloaded.

8. **Output Ready LED:** Indicates the inverter is ready to be used.

9. **Engine Control Switch:** Turn position to CHoke to start the engine, and turn to RUN position once the engine is running. Switch to OFF to stop inverter.
BEFORE STARTING THE INVERTER

Location Selection – Before starting the inverter, avoid exhaust and location hazards by verifying:

- You have selected a location to operate the inverter that is outdoors and well ventilated.
- You have selected a location with a level and solid surface on which to place the inverter.
- You have selected a location that is at least 6 feet (1.8 m) away from any building, other equipment or combustible material.
- If the inverter is located close to a building, make sure it is not located near any windows, doors and/or vents.

DANGER

Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.

WARNING

Always operate the inverter on a level surface. Placing the inverter on non-level surfaces can cause the inverter to tip over, causing fuel and oil to spill. Spilled fuel can ignite if it comes in contact with an ignition source such as a very hot surface.

NOTICE

Only operate the inverter on a solid, level surface. Operating the inverter on a surface with loose material such as sand or grass clippings can cause debris to be ingested by the inverter that could:
- Block cooling vents
- Block air intake system

Weather – Never operate your inverter outdoors during rain, snow or any combination of weather conditions that could lead to moisture collecting on, in or around the generator.

Dry Surface – Always operate the inverter on a dry surface free of any moisture.

No Connected Loads – Make sure the inverter has no connected loads before starting it. To ensure there are no connected loads, unplug any electrical extension cords that are plugged into the control panel receptacles.

NOTICE

Starting the inverter with loads already applied to it could result in damage to any appliance being powered off the inverter during the brief start-up period.

Grounding the iPro Inverters

Consult with your local municipalities for your grounding codes.

WARNING

Be sure the inverter is properly connected to earth ground before operating.

High Altitude Operation

Engine power is reduced the higher you operate above sea level. Output will be reduced approximately 3.5% for every 1000ft of increased altitude from sea level. This is a natural occurrence and cannot be adjusted by engine. Increased exhaust emissions can also result due to increased fuel mixture. Other issues include hard starting, increased fuel consumption and spark plug fouling. Contact our service team 1-855-944-3571 for altitude part kits.

High Altitude Carburetor Kit Part Number: 140543
POWER CORD

Using Extension Cords
Westinghouse Portable Power assumes no responsibility for the content within this table. The use of this table is the responsibility of the user only. This table is intended for reference only. The results produced by using this table are not guaranteed to be correct or applicable in all situations as the type and construction of cords are highly variable. Always check with local regulations and a licensed electrician prior to installing or connecting an electrical appliance.

INVERTER PARALLELING OPERATION

DANGER
Never connect the paralleling cord to the inverters with the inverters running. The inverters must not be running and both the paralleling cord switches must be off when connecting the cords.

WARNING
Do not attempt to parallel the Westinghouse inverter with any other manufacturers’ inverters. Do not use the paralleling cord for any application other than inverter paralleling. Do not use this cord on other manufacturers’ inverters.

Always ensure that both ends of the paralleling cord are switched off before connecting the inverters.

### Extension Cord Wire Gauge Size

<table>
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INVERTER PARALLELING OPERATION

1. Using only the Westinghouse paralleling cord (Part No. 260041) with both cord switches set to OFF (O), connect one male plug to one inverter and connect the remaining plug into the other inverter. Either of the receptacles on the inverters can be used.

2. Start one of the inverters and wait until the output ready light is on.

3. Turn both cord switches to ON (I).

4. Start the remaining inverter; wait until the output ready light is on before connecting the load.

5. When power is present, a light will illuminate in the three-prong plug that is plugged into the inverter.

6. To stop the inverters, unplug all connected loads, turn both cord switches to OFF (O) and unplug the cord on each inverter.

7. If during operation the inverters’ output is stopped due to overloading, reduce the connected load by unplugging appliances, and then push the reset button and restart the inverter. When the ready light is on, the load can be reconnected.
INITIAL OIL FILL

BEFORE ADDING ENGINE OIL, REVIEW SAFETY SECTION STARTING ON PAGE 5.

NOTICE

Engine oil must be added when the inverter is on a flat, level surface, or an inaccurate reading may result. Do not overfill. If the engine is overfilled with oil, it can cause serious engine damage.

1. Loosen the screw and remove the engine oil fill/drain plug service panel to access the oil fill/drain plug (see Figure 1).

2. Clean the area around the oil fill/drain plug and remove plug (see Figure 2).

3. Using the supplied funnel and oil, pour the entire bottle of oil into the engine (see Figure 3).

4. Do not overfill, if oil level is too high, oil will drain out through the fill plug. See correct oil level in Figure 4.
Before starting the inverter, always check the level of:

- Engine oil
- Gasoline in the fuel tank

Once the inverter is started and the engine gets warm, it is not safe to add gasoline to the fuel tank or engine oil to the engine while the engine is running or the engine and muffler are hot.

**CHECKING AND / OR ADDING ENGINE OIL**

**WARNING**

Internal pressure can build in the engine crankcase while the engine is running. Removing the oil fill plug/dipstick while the engine is hot can cause extremely hot oil to spray out of the crankcase and can severely burn skin. Allow engine oil to cool for several minutes before removing the oil fill plug/dipstick.

The unit as shipped does not contain oil in the engine. You must add engine oil before starting the inverter for the first time. See Initial Oil Fill on page 12 for instructions on checking engine oil level and the procedure for adding engine oil.

**NOTICE**

The engine does not contain engine oil as shipped. Attempting to start the engine without adding engine oil will permanently damage internal engine components.

The engine is equipped with a low oil shutdown switch. If the oil level becomes low, the engine may shut down and not start until the oil is filled to the proper level.

The owner of the inverter is responsible to ensure the proper oil level is maintained during the operation of the generator. Failure to maintain the proper oil level can result in engine damage.

**ADDING GASOLINE TO THE FUEL TANK**

**WARNING**

Never refuel the inverter while the engine is running.

Always turn the engine off and allow the inverter to cool before refueling.

**CAUTION**

Avoid prolonged skin contact with gasoline. Avoid prolonged breathing of gasoline vapors.

**Required Gasoline** – Only use gasoline that meets the following requirements:
- Unleaded gasoline only
- Gasoline with maximum 10% ethanol added
- Gasoline with an 87 octane rating or higher

**Filling the Fuel Tank** – Follow the steps below to fill the fuel tank:

1. Shut off the inverter.
2. Allow the inverter to cool down so all surface areas of the muffler and engine are cool to the touch.
3. Move the inverter to a flat surface.
4. Clean area around the fuel cap.
5. Remove the fuel cap by rotating counterclockwise.
6. Slowly add gasoline into the fuel tank. Be very careful not to overfill the tank. The gasoline level should NOT be higher than the red ring (see Figure 5).
7. Install the fuel cap by rotating clockwise.

**NOTICE**

Do not overfill the fuel tank. Spilled fuel will damage some plastic parts.
OPERATION

STARTING THE INVERTER

BEFORE STARTING THE INVERTER, REVIEW SAFETY SECTION STARTING ON PAGE 5.

For proper starting and operation of the inverter, make sure you review the inverter features and their descriptions starting on page 8.

Before attempting to start the inverter, verify the following:

• The engine is filled with engine oil (see Figure 4: Engine Oil Correct Level on page 12).

• The inverter is situated in a proper location (see Location Selection on page 10).

• The inverter is on a dry surface (see Weather and Dry Surface on page 10).

• All loads are disconnected from the inverter (see No Connected Loads on page 10).

• The inverter is properly grounded (see Grounding the Inverter on page 10).

DANGER

Never use the inverter in a location that is wet or damp. Never expose the inverter to rain, snow, water spray or standing water while in use. Protect the inverter from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical circuit.

Never operate the inverter in an enclosed area. Engine exhaust contains carbon monoxide. Only operate the inverter outside and away from windows, doors and vents.

Starting iPro2500

1. Check oil levels. If it is the first time starting make sure to add oil (see Initial Oil Fill on page 12).

2. Turn the engine/fuel control switch to the CHOKE position (see Figure 7).

3. Firmly grasp and pull the recoil handle slowly until you feel increased resistance. At this point, apply a rapid pull while pulling out from the inverter (see Figure 8).

4. As the engine starts and stabilizes, turn the choke switch back in to the RUN position (see Figure 9).
RESETTING THE RESET BREAKER
The inverter will trip the breaker and automatically disconnect from the load when the controls sense a predetermined overload condition. The inverter engine will continue to run, but there will not be any electrical output.

1. Turn off all devices and unplug them from the inverter.
2. Determine the wattage required from the devices being powered by the inverter. Make sure the wattage required does not exceed the maximum output of the inverter.
3. Press in the reset breaker to reset it (see Figure 11).

**STOPPING THE INVERTER**

**Normal Operation**
During normal operation, use the following steps to stop your inverter:

1. Remove any connected loads from the control panel receptacles.
2. Allow the inverter to run at “no load” to reduce and stabilize engine and alternator temperatures.
3. Move the engine control switch to the **OFF** position (see Figure 10).

**Figure 10: Turn Engine/Fuel Switch to OFF Position**

During an Emergency
If there is an emergency and the inverter must be stopped quickly, move the engine control switch to the **OFF** position immediately (see Figure 10).

**USING EFFICIENCY MODE**
The inverter is equipped with an efficiency mode switch to minimize fuel consumption. In efficiency mode, the inverter will sense the load and adjust the engine RPM to the current load requirements. Efficiency mode should be used only after the inverter has been warmed up to operating temperature.

1. To turn on the efficiency mode, press the switch to the **ON** position.
2. If no load is present, the inverter RPM will drop down to an idle speed.
3. As a load is applied, the inverter will sense the load and engine RPM will increase according to the load applied.
4. To run the inverter at maximum power and RPM, press the efficiency mode switch to the **OFF** position.
5. Plunge the devices into the inverter.

**Figure 11: Press in reset breaker**
MAINTENANCE

BEFORE PERFORMING MAINTENANCE ON THE INVERTER, REVIEW THE SAFETY SECTION STARTING ON PAGE 5, AS WELL AS THE FOLLOWING SAFETY MESSAGES.

⚠️ WARNING
Avoid accidentally starting the inverter during maintenance by removing the spark plug boot from the spark plug. For electric start inverters, also disconnect the battery cables from the battery (disconnect the black negative (-) cable first) and place the cables away from the battery posts to avoid arcing.

Allow hot components to cool to the touch prior to performing any maintenance procedure.

Internal pressure can build in the engine crankcase while the engine is running. Removing the oil fill plug/dipstick while the engine is hot can cause extremely hot oil to spray out of the crankcase and can severely burn skin. Allow engine oil to cool for several minutes before removing the oil fill plug/dipstick.

Always perform maintenance in a well-ventilated area. Gasoline fuel and fuel vapors are extremely flammable and can ignite under certain conditions.

⚠️ CAUTION
Avoid skin contact with engine oil or gasoline. Prolonged skin contact with engine oil or gasoline can be harmful. Frequent and prolonged contact with engine oil may cause skin cancer. Take protective measures and wear protective clothing and equipment. Wash all exposed skin with soap and water.

⚠️ WARNING
Failure to perform periodic maintenance or not following maintenance procedures can cause the inverter to malfunction and could result in death or serious injury.

NOTICE
Periodic maintenance intervals vary depending on inverter operating conditions. Operating the inverter under severe conditions, such as sustained high-load, high-temperature, or unusually wet or dusty environments, will require more frequent periodic maintenance. The intervals listed in the maintenance schedule should be treated only as a general guideline.

Following the maintenance schedule is important to keep the inverter in good operating condition. The following is a summary of maintenance items by periodic maintenance intervals.

TABLE 1: MAINTENANCE SCHEDULE - OWNER PERFORMED

<table>
<thead>
<tr>
<th>Maintenance Item</th>
<th>Before Every Use</th>
<th>After First 20 Hours or First Month of Use</th>
<th>After 50 Hours of Use or Every 6 Months</th>
<th>After 100 Hour of Use or Every 6 Months</th>
<th>After 300 Hours of Use or Every Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Oil</td>
<td>Check Level</td>
<td>Change</td>
<td>Change</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cooling Features</td>
<td>Check/Clean</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Air Filter</td>
<td>Check</td>
<td>-</td>
<td>Clean*</td>
<td>-</td>
<td>Replace</td>
</tr>
<tr>
<td>Spark Plug</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Check/Clean</td>
<td>Replace</td>
</tr>
<tr>
<td>Spark Arrestor</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Check/Clean</td>
<td>-</td>
</tr>
</tbody>
</table>

*Service more frequently if operating in dry and dusty conditions
ENGINE OIL MAINTENANCE

Engine Oil Specification

1. Only use the engine oil specified in Figure 12.
2. Only use 4-stroke/cycle engine oil. NEVER USE 2-STROKE/CYCLE OIL. Synthetic oil is an acceptable substitute for conventional oil.

CHECKING ENGINE OIL

NOTICE
Always maintain proper engine oil level. Failure to maintain proper engine oil level could result in severe damage to the engine and/or shorten the life of the engine.
Always use the specified engine oil. Failure to use the specified engine oil can cause accelerated wear and/or shorten the life of the engine.

Engine oil level should be checked before every use.

1. Always operate or maintain the inverter on a flat surface.
2. Stop engine if running.
3. Let engine sit and cool for several minutes (allow crankcase pressure to equalize).
4. Remove the engine service panel to access the oil fill/drain plug.
5. With a damp rag, clean around the oil fill/drain plug.
6. Remove the oil fill/drain plug.
7. Check oil level: When checking the engine oil, remove the oil fill/drain plug.
   • The oil level is acceptable if oil is visible at the bottom of the threads of the oil fill plug.
   • If oil level is low, add to the correct level using the supplied oil fill bottle. Do not overfill the oil crankcase.

ADDING ENGINE OIL

1. Always operate or maintain the inverter on a flat surface.
2. Stop engine if running.
3. Let engine sit and cool for several minutes (allow crankcase pressure to equalize).
4. Remove the engine service panel to gain access to the oil fill/drain plug.
5. Thoroughly clean around the oil fill/drain plug.
6. Remove the oil fill/drain plug.
7. Select the proper engine oil as specified in Figure 12.
8. Using the supplied oil funnel, slowly add engine oil to the engine. Stop frequently to check the oil level and avoid overfilling.
9. Continue to add oil until the oil is at the correct level.
MAINTENANCE

CHANGING ENGINE OIL

1. Stop the engine.
2. Let engine sit and cool for several minutes (allow crankcase pressure to equalize).
3. Remove the engine service panel to gain access to the oil fill/drain plug.
4. Place oil pan (or suitable container) under the oil fill/drain plug (see Figure 13).
5. With a damp rag, thoroughly clean around the oil fill/drain plug.
6. Tilt the inverter so the oil drains down the through into the container.
7. Allow oil to completely drain.
8. Fill crankcase with oil following the steps outlined in Adding Engine Oil on page 17.
9. Dispose of used engine oil properly.

NOTICE
Never dispose of used engine oil by dumping the oil into a sewer, on the ground, or into groundwater or waterways. Always be environmentally responsible. Follow the guidelines of the EPA or other governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

AIR FILTER MAINTENANCE

WARNING
Never use gasoline or other flammable solvents to clean the air filter. Use only household detergent soap to clean the air filter.

Cleaning the Air Filter
The air filter must be cleaned after every 50 hours of use or 3 months (frequency should be increased if inverter is operated in a dusty environment).

1. Turn off the inverter and let it cool for several minutes if running.
2. Remove the engine service panel to gain access to the air filter.
3. Unscrew the air cleaner cover and tip the cover down (see Figure 15).
4. Remove the foam element from the air cleaner housing.

Figure 13: Place oil pan under oil fill/drain plug

Figure 14: Carefully tip inverter so oil flows into oil pan

Figure 15: Unscrew air cleaner cover
5. Wash the foam air filter element by submerging the element in a solution of household detergent soap and warm water. Slowly squeeze the foam to thoroughly clean.

**NOTICE**

NEVER twist or tear the foam air filter element during cleaning or drying. Only apply slow but firm squeezing action.

6. Rinse in clean water by submerging the air filter element in fresh water and applying a slow squeezing action (see Figure 16).

7. Dispose of used soap cleaning solution properly.

8. Dry the air filter element by again applying a slow firm squeezing action.

9. Return the air filter element to its position in the air cleaner housing.

10. Install the air cleaner cover, making sure the tabs lock into place.

11. Install the engine service panel.

### DRAINING THE FLOAT BOWL

1. Remove the engine service panel to access the carburetor.

2. Locate the clear plastic hose from the float that is exiting out the bottom of the inverter, and place a suitable container under it to catch the drained fuel (see Figure 17).

3. Loosen the float bowl drain screw (see Figure 18), until fuel is seen draining from the float bowl.

4. Allow fuel to drain into the container, and then tighten the float bowl drain screw.

**NOTICE**

Never dispose of fuel by dumping fuel into a sewer, on the ground, or into groundwater or waterways. Always be environmentally responsible. Follow the guidelines of the EPA or other governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

5. Install the engine service panel.
SPARK PLUG MAINTENANCE

The spark plug must be checked and cleaned after every 100 hours of use or 6 months and must be replaced after 300 hours of use or every year.

1. Stop the inverter and let it cool for several minutes if running.
2. Move the inverter to a flat, level surface.
3. Slide the spark plug access cover off the housing (see Figure 19).
4. Remove the spark plug boot by firmly pulling the plastic spark plug boot handle directly away from the engine.
5. Clean area around the spark plug.
6. Using the spark plug socket wrench provided, remove the spark plug from the cylinder head (see Figure 20).
7. Place a clean rag over the opening created by the removal of the spark plug to make sure no dirt can get into the combustion chamber.
8. Inspect the spark plug for:
   - Cracked or chipped insulator
   - Excessive wear
   - Spark plug gap of 0.032 in. (0.80 mm).
   If the spark plug fails any one of the conditions listed above, replace the plug.
9. Install the spark plug by carefully following the steps outlined below:
   a. Carefully insert the spark plug back into the cylinder head. Hand-thread the spark plug until it bottoms out.
   b. Using the spark plug socket wrench provided, turn the spark plug to ensure it is fully seated.
   c. Replace the spark plug boot, making sure the boot fully engages the spark plug’s tip.
   d. Install the spark plug access cover.

Recommended Spark Plug Replacement:

<table>
<thead>
<tr>
<th>Westinghouse Model Number</th>
<th>Torch Spark Plug</th>
<th>Champion</th>
<th>Bosch</th>
<th>Autolite</th>
</tr>
</thead>
<tbody>
<tr>
<td>iPro2500</td>
<td>E6RTC</td>
<td>RL12Y</td>
<td>W6B</td>
<td>284</td>
</tr>
</tbody>
</table>

NOTICE

Never apply any side load or move the spark plug laterally when removing the spark plug. Applying a side load or moving the spark plug laterally may crack and damage the spark plug boot.

![Figure 19: Slide off spark plug cover](image1)

![Figure 20: Remove spark plug with socket wrench](image2)
MAINTENANCE

CLEANING THE SPARK ARRESTER
Check and clean the spark arrestor after every 100 hours of use or 6 months.

1. Stop the inverter and let it cool for several minutes if running.
2. Move the inverter to a flat, level surface.
3. Remove the screws holding the muffler cover in place (see Figure 21).
4. Loosen the clamp holding the spark arrestor onto the muffler.
5. Slide the spark arrestor band clamp off the spark arrestor screen.
6. Pull the spark arrestor screen off the muffler exhaust pipe.
7. Using a wire brush, remove any dirt and debris that may have collected on the spark arrestor screen.
8. If the spark arrestor screen shows signs of wear (rips, tears or large openings in the screen), replace the spark arrestor screen.
9. Install the spark arrestor components in the following order:
   a. Place spark arrestor screen over the muffler exhaust pipe. Push on the screen until it fully bottoms out.
   b. Place the spark arrestor band clamp over the screen and tighten with a flathead screwdriver
10. Replace the discharge gate.

CHECKING AND ADJUSTING VALVE LASH

CAUTION
Checking and adjusting valve lash must be done when the engine is cold.

1. Remove the rocker arm cover and carefully remove the gasket. If the gasket is torn or damaged, it must be replaced.
2. Remove the spark plug so the engine can be rotated more easily.
3. Rotate the engine to top dead center (TDC) of the compression stroke. Looking through the spark plug hole, the piston should be at the top.
4. Both the rocker arms should be loose at TDC on the compression stroke. If they are not, rotate the engine 360°.
5. Insert a feeler gauge between the rocker arm and the push rod and check for clearance (see Figure 22). See Table 2 for valve lash specifications

![Figure 21: Remove screws holding muffler cover](image)

![Figure 22](image)

(1) Push Rod, (2) Feeler Gauge Area
(3) Rocker Arm, (4) Jam Nut, (5) Adjusting Nut

Table 2: Standard Valve Lash

<table>
<thead>
<tr>
<th>Valve Lash</th>
<th>Intake Valve</th>
<th>Exhaust Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>.0023-.0039in</td>
<td>(.06-.10mm)</td>
<td>.0031-.0048in</td>
</tr>
</tbody>
</table>

6. If an adjustment is required, hold the adjusting nut and loosen the jam nut.
7. Turn the adjusting nut to obtain the correct valve lash. When the valve lash is correct, hold the adjusting nut and tighten the jam nut to 106 in-lb (12 N-m).
8. Recheck the valve lash after tightening the jam nut.
9. Perform this procedure for both the intake and exhaust valves.
10. Install the rocker arm cover, gasket and spark plug.

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TESTING GFCI OUTLETS

1. Start the generator and allow it to warm up.
2. Press the test button on the GFCI outlet.

3. The reset button should pop out and there will be no power from the outlets. If the reset button does not pop out, the GFCI outlet is not working correctly and must be repaired before the generator can be operated.
4. Press the reset button to restore power to the outlet.

CLEANING THE INVERTER

It is important to inspect and clean the inverter before every use.

Clean All Engine Air Inlet and Outlet Ports – Make sure all engine air inlet and outlet ports are clean of any dirt and debris to ensure the engine does not run hot.

STORAGE

**WARNING**

Never store an inverter with fuel in the tank indoors or in a poorly ventilated area where the fumes can come in contact with an ignition source such as a: 1) pilot light of a stove, water heater, clothes dryer or any other gas appliance; or 2) spark from an electric appliance.

**NOTICE**

Gasoline stored for as little as 60 days can go bad, causing gum, varnish and corrosive buildup in fuel lines, fuel passages and the engine. This corrosive buildup restricts the flow of fuel, preventing an engine from starting after a prolonged storage period.

Proper care should be taken to prepare the inverter for any storage

1. Clean the inverter as outlined in *Cleaning the Inverter*.
2. Siphon all gasoline from the fuel tank as best as possible.
3. Start the engine and allow the inverter to run until all the remaining gasoline in the fuel lines and carburetor is consumed and the engine shuts off.
4. Drain any remaining fuel from the float bowl. See *Draining the Float Bowl* on page 20.
5. Change the oil (see *Changing Engine Oil* on page 19).
6. Remove the spark plug (see *Spark Plug Maintenance* on page 21) and place about 1 tablespoon of oil in the spark plug opening. While placing a clean rag over the spark plug opening, slowly pull the recoil handle to allow the engine to turn over several times. This will distribute the oil and protect the cylinder wall from corroding during storage.
7. Replace the spark plug (see *Spark Plug Maintenance* on page 21).
8. Move the inverter to a clean, dry place for storage.
**WARNING**

Before attempting to service or troubleshoot the generator, the owner or service technician must first read the owner's manual and understand and follow all safety instructions. Failure to follow all instructions may result in conditions that can lead to voiding of the EPA certification or product warranty, serious personal injury, property damage or even death.

### TROUBLESHOOTING

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POTENTIAL CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine is running, but no electrical output.</td>
<td>1. Reset breaker is tripped.</td>
<td>1. Reset the reset breaker (see page 15).</td>
</tr>
<tr>
<td></td>
<td>2. The power cord's plug connector is not fully engaged in the inverter's outlet.</td>
<td>2. Verify plug connector is firmly engaged in the inverter's outlet.</td>
</tr>
<tr>
<td></td>
<td>3. Faulty or defective power cord</td>
<td>3. Replace power cord.</td>
</tr>
<tr>
<td></td>
<td>4. Faulty or defective electrical appliance</td>
<td>4. Try connecting a known good appliance to verify the inverter is producing electrical power.</td>
</tr>
<tr>
<td>Engine will not start or remain running while trying to start.</td>
<td>1. Inverter is out of gasoline.</td>
<td>1. Add gasoline to the inverter (see page 14).</td>
</tr>
<tr>
<td></td>
<td>2. Fuel flow is obstructed.</td>
<td>2. Inspect and clean fuel delivery passages.</td>
</tr>
<tr>
<td></td>
<td>3. Dirty air filter</td>
<td>3. Check and clean the air filter (see page 17).</td>
</tr>
<tr>
<td></td>
<td>4. Low oil level shutdown switch is preventing the unit from starting.</td>
<td>4. Check oil level and add oil if necessary (see page 18).</td>
</tr>
<tr>
<td></td>
<td>5. Spark plug boot is not fully engaged with the spark plug tip.</td>
<td>5. Firmly push down on the spark plug boot to ensure the boot is fully engaged.</td>
</tr>
<tr>
<td></td>
<td>6. Spark plug is faulty.</td>
<td>6. Remove and check the spark plug. Replace if faulty (see pages 20).</td>
</tr>
<tr>
<td></td>
<td>7. Dirty/plugged spark arrestor</td>
<td>7. Check and clean the spark arrestor (see page 21).</td>
</tr>
<tr>
<td>Inverter suddenly stops running.</td>
<td>1. Inverter is out of fuel.</td>
<td>1. Check fuel level (see page 13). Add fuel if necessary.</td>
</tr>
<tr>
<td></td>
<td>2. The low oil shut down switch has stopped the engine.</td>
<td>2. Check oil level and add oil if necessary (see page 17).</td>
</tr>
<tr>
<td></td>
<td>3. Too much load</td>
<td>3. Restart the inverter and reduce the load.</td>
</tr>
<tr>
<td>Engine runs erratic; does not hold a steady RPM.</td>
<td>1. Choke was left in the <strong>CHOOSE</strong> position.</td>
<td>1. Move choke to the <strong>RUN</strong> position</td>
</tr>
<tr>
<td></td>
<td>2. Dirty air filter</td>
<td>2. Clean the air filter (see page 18).</td>
</tr>
<tr>
<td></td>
<td>3. Applied loads maybe cycling on and off</td>
<td>3. As applied loads cycle, changes in engine speed may occur; this is a normal condition.</td>
</tr>
</tbody>
</table>
### iPro2500 EXPLODED VIEW

<table>
<thead>
<tr>
<th>No</th>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100509</td>
<td>Discharge Grate</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>100514</td>
<td>J Clip</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>130500</td>
<td>DC Regulator</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>120500</td>
<td>Inverter Module</td>
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</tr>
<tr>
<td>5</td>
<td>170507</td>
<td>Starter Grip</td>
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</tr>
<tr>
<td>6</td>
<td>100519</td>
<td>Intake Grate</td>
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</tr>
<tr>
<td>7</td>
<td>130515</td>
<td>Control Panel</td>
<td>1</td>
</tr>
<tr>
<td>7A</td>
<td>130516</td>
<td>Control Panel</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>100503</td>
<td>Enclosure Side</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>100507</td>
<td>Shoulder Bolt</td>
<td>6</td>
</tr>
<tr>
<td>10</td>
<td>100517</td>
<td>E Clip</td>
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<tr>
<td>11</td>
<td>100513</td>
<td>Inspection Cover</td>
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</tr>
<tr>
<td>12</td>
<td>100520</td>
<td>Rubber Foot</td>
<td>4</td>
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<tr>
<td>13</td>
<td>150504</td>
<td>Splash Guard</td>
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<tr>
<td>14</td>
<td>150509</td>
<td>Fuel Fill Marker</td>
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<td>150503</td>
<td>Fuel Cap</td>
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<td>170505</td>
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<td>170508</td>
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<tr>
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<td>100502</td>
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<tr>
<td>22</td>
<td>100501</td>
<td>Side Panel</td>
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## iPro2500 ENGINE VIEW

<table>
<thead>
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<tbody>
<tr>
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iPro2500 SCHEMATICS

[Diagram of electrical schematic]