Failure to properly follow the instructions and precautions in this manual can result in property damage, serious injury or DEATH!

For your nearest Polaris supplier, call 0393945610 or visit www.polarispower.com.au
Polaris Sales Australia Pty Ltd., (ABN 62088081949) of Locked Bag 2006, Sunshine Post Shop, Sunshine, Victoria, 3020 Australia

Part No. 9925472 Rev 02
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>2</td>
</tr>
<tr>
<td>Safety</td>
<td>6</td>
</tr>
<tr>
<td>Controls and features</td>
<td>16</td>
</tr>
<tr>
<td>First Use Instructions</td>
<td>22</td>
</tr>
<tr>
<td>Pre-Operation Inspection</td>
<td>26</td>
</tr>
<tr>
<td>Operation</td>
<td>27</td>
</tr>
<tr>
<td>Maintenance</td>
<td>43</td>
</tr>
<tr>
<td>Transportation and Storage</td>
<td>58</td>
</tr>
<tr>
<td>Specifications</td>
<td>64</td>
</tr>
<tr>
<td>Wiring Diagram</td>
<td>66</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>67</td>
</tr>
<tr>
<td>Warranty</td>
<td>72</td>
</tr>
<tr>
<td>Maintenance Log</td>
<td>77</td>
</tr>
<tr>
<td>Index</td>
<td>78</td>
</tr>
</tbody>
</table>
INTRODUCTION
Welcome

Thank you for purchasing a POLARIS POWER™ Generator, and welcome to our world-wide family of POLARIS owners.

Here at POLARIS we proudly produce an exciting line of utility and recreational products.

- Snowmobiles
- All-terrain vehicles (ATVs)
- RANGER® utility vehicles
- RZR® sport vehicles
- VICTORY® Motorcycles
- INDIAN® Motorcycle
- GEM® electric vehicles
- POLARIS POWER™ Generator

We believe POLARIS sets a standard of excellence for all utility vehicles, recreational vehicles, and power equipment manufactured in the world today. Many years of experience have gone into the engineering, design, and development of your POLARIS machine.

For safe and enjoyable operation of your generator, be sure to follow the instructions and recommendations in this owner’s manual. Your manual contains instructions for minor maintenance, but information about major repairs is outlined in the POLARIS Service Manual and should be performed only by a factory certified technician.

For all technical questions visit www.polarispower.com.au.
**Intended Use**

The POLARIS Power Generator is intended to supply power for appliances.

Appliances that use more than 2800 Watts of combined power consumption should not be connected to this generator.

**Safety Precautions**

⚠️ **WARNING**

Failure to follow recommended precautions and procedures could result in severe injury or death. Always heed all safety warnings on the product, and follow all operation, inspection, and maintenance procedures outlined in this manual.

Please read the entire Owner’s Manual. This manual contains information essential to safe operation and proper maintenance of the generator. Anyone who operates the generator must read the owner’s manual before operating the generator.

Read and understand the information found in the safety section starting on page 6 of this manual, and have the manual on hand when operating the generator. Following the safety precautions and procedures will ensure a safe operating experience.

Understand and follow all inspection and maintenance procedures outlined in this manual starting on page 26. Following these procedures will ensure that the generator remains in safe operating conditions at all times.
INTRODUCTION

Warnings, Cautions and Notices

Signal Words and Safety Terms

The following signal words and symbols appear throughout this manual. Your safety, and the safety of others, is involved when these words and symbols are used. Become familiar with their meaning before reading the manual.

⚠️ WARNING
A safety alert warning indicates a hazardous situation which, if not avoided, may result in death or serious injury.

⚠️ CAUTION
A safety alert caution indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE
A notice is used to address practices not related to physical injury.

IMPORTANT: Key reminders during assembly, disassembly, and inspection of components.

Note: Key information to clarify instructions.

⚠️ WARNING

ALCOHOL OR DRUG USE
Operating the generator after consuming alcohol or drugs could adversely affect operator judgement. Never consume alcohol or drugs before or while operating the generator.
Identification Numbers and Locations

Record your generator’s identification numbers in the space provided. The model and serial number decal is located inside the service door.

MODEL NUMBER: _______________________________________________________

SERIAL NUMBER: _______________________________________________________

PURCHASE DATE: _______________________________________________________

PURCHASE LOCATION: __________________________________________________
SAFETY
Safety Warnings and Precautions

IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.

⚠️ WARNING
Failure to follow recommended precautions and procedures could result in severe injury or death. Always read all safety precautions and follow all operation, inspection, and maintenance procedures outlined in this manual.

General

- Read and understand all of the safety and operating information in this manual and on the product before using the machine. Use the generator only as described in this manual.
- Understand and follow all inspection and maintenance procedures outlined in this manual. Following these procedures will ensure that the generator remains in safe operating condition.
- Turn the Engine switch to the OFF position. Turn off the petrol valve when the generator is not in use for a long time.
SAFETY

Safety Warnings and Precautions

⚠️ WARNING
It is the responsibility of the owner to ensure that all users of this genera-
tor are fully informed of the safety and operating information prior to use.

Before and During Operation

• Perform all Pre-Operation Inspection activities as shown on page 26 of this manual. Inspect and tighten all parts before each use. Ensure the generator does not have any damaged, loose, or missing parts before use. All defects should be corrected before use. Do not operate the generator if it has been dropped or damaged until all defective parts have been repaired.

• Do not place any flammable materials near the generator.

• Never start the generator or let it run in an enclosed area. Exhaust vapors are poisonous and can cause loss of consciousness or death in a short time. Keep the generator away from buildings and other equipment during operation.

• Do not operate the generator in exposed locations where it will be subjected to wet conditions.

• Do not touch the generator with wet hands, as this may cause severe electric shocks.

• Do not pour water directly over the generator or wash it.

• Do not use or store the generator in the rain or snow.

• Do not cover the generator when in use.

• Always operate the generator on a firm, flat, and level surface, as the generator will vibrate on an irregular surface. If the generator is tilted, fuel may spill or the generator may tip over, causing a hazardous situation. Lock the wheels before using.
SAFETY
Safety Warnings and Precautions
Before and During Operation

• Do not connect the generator to another power supply source.
• The engine becomes extremely hot during and immediately after it has been in use. Be careful not to touch any parts of the hot engine, especially the muffler or muffler cover, or serious burns may result.
• Do not connect external equipment to the generator before starting the engine.
• Do not use for life support, or life sustaining systems.
• The output of this generating set is potentially lethal. The set should not be connected to a fixed electrical installation except by an appropriately licensed person.
• Do not operate in a hazardous location, e.g. where there may be a risk of explosion of petrol fumes, leaking gas or explosive dusts.
• Do not operate in a confined area where exhaust gases, smoke or fumes could reach dangerous concentrations.
• Do not refuel while engine is running.
• Make sure to push two universal wheels to "lock" position when the generator is running, in transportation and storage.
Safety Warnings and Precautions

Operator Safety

**WARNING**
Operating the generator with worn, damaged, or malfunctioning components could result in serious injury or death. Never start the engine without checking all of the generator components to be sure of proper operation.

- Read and understand all of the safety and operating information in this manual and on all warning labels before using the generator. Use the generator only as described in this manual.
- Know how to stop the generator quickly in case of emergency, see page 31 for information on stopping the unit quickly.
- Keep children, pets, and bystanders at a safe distance from the generator.
- Review and understand the use of all generator controls.
- Be sure that anyone who operates the generator receives proper instruction and reads this manual completely. Do not let children operate the generator.
- Use the generator only for intended purposes.
- Turn off the generator immediately if the unit begins to operate abnormally. After the generator has cooled, disconnect the generator and call your authorized POLARIS supplier.
- While operating the generator, if you experience headache, fatigue, nausea / vomiting, confusion, or seizures, immediately get to fresh air. Do not delay and do not attempt to shut down the unit.
- Run the generator on flat, dry surfaces only. The generator can only be run while stationary. Do not run the generator on any moving vehicle or objects.
SAFETY
Safety Warnings and Precautions
Fuel Safety

⚠️ WARNING
Petrol is highly flammable and explosive under certain conditions. Always use caution when handling petrol.

• Petrol is extremely flammable, and petrol vapor can explode. Before refueling allow the engine to cool completely if the generator has been in operation.

• Always store petrol in an approved container.

• Always refuel outdoors or in a well-ventilated area away from any combustible materials.

• Do not smoke or allow open flames or sparks in or near the area where refueling is performed or where petrol is stored.

• Never permit children to handle petrol.

• Never refuel around bystanders, pets, and flammable objects.

• Loosen the fuel cap slowly to relieve pressure in the tank.

• Take care not to overfull or spill any fuel on the generator or muffler when refueling.

• If petrol spills on skin or clothing, immediately wash it off with soap and water and change clothing.

• Do not use the generator if you observe leaking petrol. Have the generator serviced immediately and before using it again.

• When operating or transporting the generator, be sure it is kept upright. If it tilts, fuel may leak. Be sure the fuel tank cap is tightened when transporting the generator.

• Do not refuel using petrol station pumps.

• Remove fuel from the generator before transporting in a vehicle.

⚠️ WARNING
Do not swallow petrol, inhale petrol vapors, or spill petrol. If you swallow petrol, inhale more than a few breaths of petrol vapor, or splash petrol in your eyes, see a physician immediately. If petrol spills on skin or clothing, immediately wash it off with soap and water and change clothing.
Safety Warnings and Precautions

Carbon Monoxide Safety

⚠️ WARNING ⚠️
Generator exhaust contains Carbon Monoxide (CO) vapors. Exposure to Carbon Monoxide by people or pets can result in SEVERE INJURY or DEATH. ALWAYS operate generator according to guidelines in labels and this manual.

- This portable generator runs on petrol. The generator exhaust vapor contains carbon monoxide (CO).
- Carbon monoxide is odorless. You cannot smell it.
- Carbon monoxide is colorless. You cannot see it.
- Never run an engine in an enclosed area. Exhaust contains poisonous carbon monoxide vapor that can cause loss of consciousness or death. Operate the engine in an open, and well ventilated area. The generator is for outdoor use only.
- Do not use the generator indoors in garages, basements, crawl spaces, sheds, portable buildings, or similar areas even if doors and / or windows are open or if ventilating fans are used to circulate air.
- Do not use the generator near windows, doors, vents or any other building openings even if they are closed. Poor seals on a door, as just one example, could still permit high levels of carbon monoxide to infiltrate the living area of a home.
- Be sure to install approved carbon monoxide detectors in your home that have battery back-up systems that will continue to detect the presence of carbon monoxide during electric-power outages. Test these devices and replace batteries as recommended by their respective manufacturers.
- If you experience headache, fatigue, nausea / vomiting, confusion, or seizures, immediately get to fresh air and away from the unit. Do not delay for any reason.
- Do not run the generator directly on grass or with the exhaust pipe close to plants or grass. Exhaust gas temperature will be high.
SAFETY

Safety Warnings and Precautions

Electrical Safety

⚠️ WARNING
This generator produces high voltage electricity.
- The generator produces enough electric power to cause serious shock or electrocution if misused.
- Always connect the generator to a suitable ground circuit.
- When servicing the generator, disconnect the spark plug wire and place it where it cannot contact the plug. Turn the engine switch to the OFF position.
- Do not check for a spark with the plug removed. Use only approved spark plug testers.
- Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution. Keep the generator dry and away from all sources of moisture.
- If the generator is stored outdoors, unprotected from the weather, check all of the electrical components on the control panel before each use. Moisture or ice can cause a malfunction or short circuit in electrical components that could result in electrocution.
- Do not connect the generator to a building’s electrical system unless an isolation switch has been installed that meets applicable electrical codes and regulations.
- To avoid overloading the generator, ensure that the load is kept within the rated power range stated on the generator. Overloading will damage the unit and / or shorten its operating lifespan.
- Do not attempt to connect P3000iE generators in parallel.

Fire Safety

⚠️ WARNING
Generator exhaust system gets hot enough to ignite some materials and burn skin if touched.
- Keep the generator away from buildings, other equipment, and combustible materials during operation.
- Do not enclose the generator in any structure.
- Keep children and pets away from generator.
SAFETY

Safety Warnings and Precautions

Fire Safety

• Exhaust system components are very hot during and after use. Hot components can cause burns and fire. Do not touch the hot exhaust system components. Always keep combustible materials away from the exhaust system.

• Ensure that any spilled fuel is properly wiped up prior to using the generator as fuel vapors are flammable.

Extension Cord Information

• Read the manufacturer starting and running wattage details and operating instructions for the device(s) and appliance(s) that will be used. Often this information can be found in the owner's manual or on specification decals on the device or appliance.

• POLARIS recommends using only U.L. (Underwriters Laboratories, Inc.) approved extension cords labeled with the use, size, and wattage rating. Only use heavy-duty extension cords with a three-prong (grounded) plug for your safety. Decide on what length extension cord is required as cord length determines the extension cord gauge. Remember, as the cord gets longer, the current capacity of the cord decreases.

• Never use an extension cord designated as “indoor use only” outdoors.

• Store all extension cords indoors when not in use. Outdoor conditions can deteriorate a cord over time.

• Never keep an extension cord plugged in when not in use. The cord will still conduct electricity until it is unplugged from the outlet.

• Before plugging an extension cord or power cord into the generator, check the cord for any signs of damage.

Equipment Modifications

Modifying the generator by adding or removing any parts, components, or any modifications not approved by POLARIS may void the warranty. Such modifications may make the generator unsafe to operate and could result in severe injury to operators and/or bystanders, as well as damage to the generator. Some modifications may not be legal in your area. If in doubt, contact your authorized POLARIS supplier.
SAFETY

Safety Labels and Locations

Safety and warning decals have been placed on the generator for your protection. Read and follow the instructions of the decals and warnings on the generator carefully. If any of the decals depicted in this manual differ from the decals on your generator, always read and follow the instructions of the decals on the generator.

Carbon Monoxide Warning

⚠️ DANGER

Using a generator indoors CAN KILL YOU IN MINUTES.

The carbon monoxide warning is located on top of the generator.

Outdoor Use ONLY Danger Label

Generator Exhaust contains carbon monoxide. This is a poison you cannot see or smell.

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.

Hot Exhaust Caution

⚠️ CAUTION

The hot exhaust caution is located on the muffler cover.

Contacting a hot exhaust system can cause serious burns.

Do not touch if generator is or has been running.
Safety Labels and Locations

⚠️ WARNING ⚠️

Improper Generator use can result in SEVERE INJURY or DEATH. Read the OWNER’S MANUAL. Follow all Instructions and Warnings.

Petrol is flammable and explosive. Severe burns can result. ALWAYS stop the engine and let cool down before refueling. ALWAYS check for fuel leaks and wipe up any spills. ALWAYS turn the fuel to OFF when not in use. NEVER handle petrol indoors. NEVER overfill the fuel tank.

Generator exhaust contains poisonous Carbon Monoxide (CO) vapors. ALWAYS operate in a well-ventilated area. NEVER operate in a home, garage, enclosed area or near windows, doors, or people. NEVER operate near flammable objects.

Electrocution can result from using generator in rain, snow, near water, with wet hands, or with improper connections. ALWAYS keep generator and surrounding area dry. NEVER connect generator to any building without electrical-isolation protection that meets applicable codes and regulations.
# CONTROLS AND FEATURES

**Generator Components:**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>NOMENCLATURE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Choke Knob</td>
<td>Provides proper starting mixture when engine is cold.</td>
</tr>
<tr>
<td>B</td>
<td>Indicator Panel</td>
<td>Low Oil, Overload, and Output LEDs</td>
</tr>
<tr>
<td>C</td>
<td>Fuel Valve Lever</td>
<td>Turns fuel supply to carburetor on and off.</td>
</tr>
<tr>
<td>D</td>
<td>SMART Throttle Switch</td>
<td>Automatically reduces engine speed when loads are shut off or disconnected.</td>
</tr>
<tr>
<td>E</td>
<td>Ignition Switch</td>
<td>Controls the ignition system functions On, Off and operates electric start</td>
</tr>
<tr>
<td>F</td>
<td>DC Receptacle DC Circuit Breaker</td>
<td>Charges 12V DC automotive-type batteries.</td>
</tr>
</tbody>
</table>

![Generator Diagram](image_url)
## CONTROLS AND FEATURES

### Generator Components:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>NOMENCLATURE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>Ground Terminal</td>
<td>Provides ground for non-conductive metal parts and receptacle ground terminals.</td>
</tr>
<tr>
<td>I</td>
<td>240V AC Receptacle</td>
<td>Provide two connections for properly rated, AC appliances.</td>
</tr>
<tr>
<td>J</td>
<td>Fuel Level Indicator</td>
<td>Provides indication of fuel level.</td>
</tr>
<tr>
<td>K</td>
<td>Starter Grip</td>
<td>Causes the recoil starter to crank the engine when pulled.</td>
</tr>
<tr>
<td>L</td>
<td>AC Power Output Switch</td>
<td>Left AC power switch is for left AC power receptacle, right AC power switch is for right AC power receptacle. Make sure to turn the AC switch to &quot;ON&quot; position. Otherwise, there will be no AC power output from AC receptacles.</td>
</tr>
<tr>
<td>M</td>
<td>Battery</td>
<td>Provides electricity for the starting system</td>
</tr>
<tr>
<td>N</td>
<td>Air Filter</td>
<td>Cleans the air going into the engine to reduce ware on internal components</td>
</tr>
<tr>
<td>O</td>
<td>Fuel Filler Cap</td>
<td>Provides access to the fuel tank</td>
</tr>
<tr>
<td>P</td>
<td>Fuel Tank</td>
<td>Fuel tank</td>
</tr>
<tr>
<td>Q</td>
<td>Air Exhaust</td>
<td>Dispels exhaust air from cooling the engine</td>
</tr>
<tr>
<td>R</td>
<td>Muffler</td>
<td>Reduces noise and emissions from engine combustion</td>
</tr>
<tr>
<td>S</td>
<td>Service Door</td>
<td>Provides access to the working components of the generator</td>
</tr>
<tr>
<td>T</td>
<td>Oil Dipstick</td>
<td>Accesses oil fill and measures amount of oil in engine</td>
</tr>
<tr>
<td>U</td>
<td>Spark Plug</td>
<td>Provides ignition of fuels in the combustion chamber</td>
</tr>
<tr>
<td>W</td>
<td>Air Intake</td>
<td>Provides air to cool the engine</td>
</tr>
<tr>
<td>X</td>
<td>Overload Restart</td>
<td>Resets an overload condition</td>
</tr>
</tbody>
</table>
CONTROLS AND FEATURES

Choke Knob
By moving to the CLOSE position, the choke knob (A) provides proper starting mixture when the engine is cold. Operates by being placed in the OPEN or CLOSE position.

Indicator Panel

Low Oil Indicator
The low oil alarm system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase falls below a safe limit, the low oil alarm system will automatically shut down the engine (the engine switch will remain in the ON position).
If the low oil alarm system shuts down the engine the red low oil alarm indicator light will come on when you operate the starter, and the engine will not run. If this occurs, search for any oil leaks. Add engine oil to resume normal operation.

Overload Indicator
If the generator is overloaded to the point that the max power rating of 25 amps is exceeded or if there is a short in the connected appliance the output indicator will go out and the overload indicator will go on and current to the connected appliance will be shut off. Stop the engine if the overload indicator light comes ON and investigate the overload source.

Output Indicator
The green output indicator light will remain on during normal operating conditions. If the generator is overloaded to the point that the max power rating of 25 amps is exceeded or if there is a short in the connected appliance the output indicator will go out.
CONTROLS AND FEATURES

Fuel Valve Lever
When the engine is well-cooled and not in use, the fuel valve (C) must be placed in the OFF position to reduce the possibility of fuel leakage. It must be in the ON position to allow the engine to operate.

SMART Throttle Switch
When the SMART throttle is placed in the on position, engine speed is kept at idle automatically when the electrical load is disconnected and returns to the proper speed required by the electrical load when the load is reconnected. The engine speed varies according to the amount of load applied to the generator. Placing the smart throttle in the on position is recommended to minimize fuel consumption and engine noise while in operation. When high electrical load appliances are connected simultaneously, turn the SMART throttle switch to the OFF position to reduce voltage fluctuation. The SMART throttle system does not operate efficiently if the electrical appliance will be used in a rapid on-off or low to high rpm mode. When the smart throttle is in the off position, the engine runs at rated load RPM.

Ignition Switch
The ignition switch (F) must be in the ON / RUN position for the generator to operate. Turn the switch to the START position to start the engine.
CONTROLS AND FEATURES

DC Receptacle and Fuse

The DC receptacle is protected from an overload with a fuse. If the DC circuit is overloaded, the 5 amp fuse (F1) will blow and power to the DC receptacle will cease. The red light on the DC panel will illuminate. The fuse is located to the left of the receptacle and is accessed by snapping open the access door. Replace the fuse with one of the same capacity. Using a higher rated fuse may cause damage to the generator alternator.

The DC receptacle (F2) may be used for charging 12 volt automotive-type batteries only. It is not designed to operate DC motors. Output voltage is 15-30V. DC output will vary according to the position of the Smart throttle switch.

AC Receptacles

Two AC receptacles (I) provide two connections for properly rated AC appliances. The two AC receptacles are rated at 20 amps.
CONTROLS AND FEATURES

Ground Terminal

Ground terminal (H) connects to the frame of the generator metal parts that do not conduct current, and grounds terminals of each receptacle. Consult a qualified electrician, electrical inspector, or local agency having jurisdiction for local codes or ordinances for the intended use of the generator before using the ground terminal.

Fuel Volume Indicator

Fuel Volume Indicator (J) provides an indication of fuel quantity.

Starter Recoil Grip

NOTICE

Do not allow starter grip to snap back against the generator. Return it gently to prevent damage to the starter.

Starter grip (K) causes the recoil starter to crank the engine when pulled.
FIRST USE INSTRUCTIONS
Adding Engine Oil

**NOTICE**

Failure to use the recommended 4-stroke engine oil may result in engine damage, see page 64 for recommended oil and capacity.

1. Place the generator on a flat, level surface. Open the service door. See page 46.
2. Remove the oil filler cap / dipstick (A).
3. Fill the engine crankcase with the specified amount (20.3 ounces / 0.6 liters) of engine oil.
4. Insert the dipstick in the filler hole and tighten the dipstick.
5. Remove the dipstick and verify that the oil level is at the upper limit (B). Add additional oil and inspect the level as needed until the upper limit has been reached.
6. Re-install the dipstick (A). Use a clean shop rag to clean any spilled oil.
7. Close the service door.
FIRST USE INSTRUCTIONS

Fuel Recommendation

POLARIS recommends the use of 91 octane fuel or higher. Do not use fuel containing more than 10% ethanol. Do not use fuel with lower than 91 octane rating.

IMPORTANT: Operating the generator with an obstructed fuel system will result in serious engine damage. Perform maintenance as recommended.

IMPORTANT: Thoroughly read “Safety” section and all safety information when handling fuel.

⚠️ WARNING

Petrol is highly flammable and explosive and can cause serious injury. Stop the engine and keep heat, sparks, and flame away. Handle fuel only outdoors. Wipe up spills immediately.

⚠️ CAUTION

Do not spill fuel when filling the fuel tank. Damage caused by spilled fuel is not covered under warranty. Spilled fuel is a fire hazard, causes environmental damage, and can damage paint and plastic. Wipe up spills immediately. Do not fill above bottom of strainer.

Refuel in a well ventilated area before starting the engine. If the engine has been running, allow it to cool.

Never refuel the engine inside a building where vapors may reach flames or sparks. Keep fuel vapors away from electrical appliances.
FIRST USE INSTRUCTIONS

Adding Fuel

1. Remove the fuel tank cap (A).

2. Fill carefully to avoid spilling fuel on the fuel tank strainer (B). Do not overfill the fuel tank (there should be no fuel above the upper limit mark).

3. Tighten fuel tank cap (A) securely until it clicks.

4. Position fuel valve lever OFF for storage or ON to operate the generator.

5. Move generator away from fueling source and site before starting engine.
Wheel Kit Installation

The unit comes with the rubber mounting feet installed. If you wish to install the wheel kit, please perform the following procedure.

1. Axle assembly (1)
2. Locking swivel wheel (2)
3. Bolt M8X16 (4)
4. Wheel (2)
5. Bolt M6X16 (8)

Wheel assembly

First remove all four rubber mounting feet.

Put a washer on each side of the wheel then slide them on the axle securing with a lock pin.

1. Wheel (2)
2. Axle (1)
3. Lock pin (2)
4. Washer (4)

Locking swivel wheel

Secure each locking swivel wheel with 4 M6X16 bolts.

1. Locking swivel wheel
2. Bolt M6X16

Note: Make sure to push two universal wheels to "lock" position when the generator is running, in transportation and storage.
PRE-OPERATION INSPECTION

Note: Always perform the recommended pre-operation inspections before each use. Always perform the inspections at the beginning of a project and when removing the generator from storage.

⚠️ CAUTION

Failure to perform the recommended pre-operation inspections could result in minor or moderate injury or property damage. When inspection reveals the need for adjustment, replacement, or repair, perform service promptly or visit your authorized POLARIS supplier for assistance.

Pre-Operation Checklist

Open the service door to expose the generator inner components. See page 46.

Engine Oil

Perform “Oil Level Inspection”. Add oil as needed. See page 49.

Fuel Line

⚠️ WARNING

Petrol is highly flammable and explosive and can cause serious injury. Stop the engine and keep heat, sparks, and flame away. Handle fuel only outdoors. Wipe up spills immediately.

Inspect the fuel hose for cracks or damage. Replace as needed.

Fuel Level

Check the fuel level and refuel as needed. See page 27.

Exhaust System

⚠️ CAUTION

If the engine has been running, the muffler will be very hot. Allow the muffler to cool before servicing.

Inspect the exhaust system for leakage. Tighten or replace the gasket as needed.

Carburetor

Inspect the choke knob operation.

Air Filters

Inspect the air filters. Clean or replace as needed. See page 52.
Safe Operating Precautions
Fuel Recommendations

The P3000iE engine is certified to operate on regular unleaded petrol with a pump octane rating of 91 or higher.

Never use stale or contaminated petrol or an oil /petrol mixture. Avoid getting dirt or water in the fuel tank.

The use of regular unleaded petrol containing no more than 10% ethanol (E10). If the content of ethanol exceeds the specified limits, it may cause starting or performance problems. It may also damage metal, rubber, and plastic parts of the fuel system. Do not use any petrol containing methanol. Damage due to ethanol or methanol is not covered under warranty.

Refueling

IMPORTANT: Thoroughly read the “Safety” section and all warnings and cautions when handling fuel.

⚠️ WARNING

Petrol is highly flammable and explosive and can cause serious injury. Stop the engine and keep heat, sparks, and flame away. Handle fuel only outdoors. Wipe up spills immediately.

⚠️ CAUTION

Do not spill fuel when filling the fuel tank. Damage caused by spilled fuel is not covered under warranty. Spilled fuel is a fire hazard, caused environmental damage, and can damage paint and plastic. Wipe up spills immediately. Do not fill above bottom of strainer.

Refuel in a well ventilated area before starting the engine. If the engine has been running, allow it to cool.

Never refuel the engine inside a building where vapors may reach flames or sparks. Keep fuel vapors away from electrical appliances.

Do not overfill the fuel tank (there should be no fuel in the filler neck). After refueling, make sure the fuel filler cap is closed properly and securely.
OPERATION
Safe Operating Precautions
Refueling

1. Remove the fuel tank cap (A).

2. Fill carefully to avoid spilling fuel or exceeding the bottom of the fuel tank strainer (B).

3. Securely tighten the fuel tank cap (A) until it clicks.

4. Move generator away from the fueling source and site before starting the engine.
Safe Operating Precautions
Before Starting the Engine

1. Ensure the generator is away from the fueling source.
2. The generator will vibrate during operation. Place the generator in a dry location and on a flat, level surface.
3. Unplug all power cords and extension cords from the generator.
4. Engage the wheel locks if they are installed.

Starting the Engine

1. Ensure the generator is away from the fueling source.
2. Unplug all power cords and extension cords from the generator.
3. Position the fuel valve lever to ON.
4. Position the SMART throttle switch to OFF.
5. For a cold engine start, position the choke knob to CLOSE. To restart a warm engine, leave the choke knob in OPEN.

**DANGER**

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

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.
OPERATION
Safe Operating Precautions
Starting the Engine

6. To start the generator using the ignition key, turn the ignition switch to the START position. When the engine starts, release the key. Do not operate the starter for more than 10 second intervals. If it doesn’t start turn the key to the OFF position for 5 seconds before repeating until it starts.

7. To start the generator, using the recoil, lightly pull the starter recoil grip until resistance is felt. Then, firmly pull straight out.

NOTICE
Do not allow starter grip to snap back against the generator. Return it gently to prevent damage to the starter.

8. If the choke knob was positioned to CLOSE to start the engine, move it to OPEN as the engine warms up.

9. After a 2 to 3-minute warm up, select ON or OFF on the SMART throttle switch as desired.
Safe Operating Precautions
Starting the Engine

10. If connecting loads to generator, reference “AC Operation” or “DC Operation” as outlined later in this Operation section.

11. Make sure to turn the AC switch to "ON" position. Otherwise, there will be no AC power output from AC receptacles.

Stopping the Engine

⚠️ CAUTION
Continually stopping the generator with a load applied can lead to damage of the control module.

In case of emergency, position the engine switch to OFF to stop the engine. Under normal conditions, perform the following procedure.

1. Shut off or disconnect all appliances connected to the generator.
2. Position the ignition switch to OFF.
3. Shut off the fuel.
OPERATION
Safe Operating Precautions
AC Operation

⚠️ WARNING
Before connecting a device or power cord to the generator, ensure it is in good condition. Faulty appliances or power cords can create a potential for electrical shock.

If an appliance begins to operate abnormally, becomes sluggish, or suddenly stops, immediately shut it off. Disconnect the appliance and determine whether the problem is the appliance or if the rated load capacity of the generator has been exceeded.

Ensure the combined electrical rating of the device or appliance does not exceed the maximum allowed by the generator. Never exceed the maximum power rating of the generator. Do not exceed the current limit specified for any one receptacle. Power levels between rated and maximum may be used for no more than 30 minutes.

IMPORTANT: Before connecting a device or power cord to the generator, ensure the device is in good condition and its electrical rating does not exceed the maximum allowed by the generator.

Note: When the electric motor starts, the overload indicator (middle light) may illuminate (RED) and extinguish within 4 seconds. If the overload indicator remains illuminated, consult your POLARIS supplier.

1. Perform “Starting the Engine” (29) and ensure that the output indicator (A) illuminates (GREEN).

2. Confirm that the appliance to be used is switched off then plug the device or extension cord into one of the AC receptacles.

3. Turn on the device.
Safe Operating Precautions

AC Operation

**Note:** Should this current be exceeded, the circuit protection device will activate and cut all current to the receptacle. This will be indicated by the push button popping out. Unplug everything that is plugged into the receptacle and reset the circuit protector by pushing in the button and then push in the Overload Reset switch.

Should the generator's maximum load of 25 amps be exceeded, AC power will be cut off but the engine will stay running. This will be indicated by the push button popping out. Correct the overload condition, reduce the load to the receptacle and reset the circuit protector by pushing in the button. AC power will be restored immediately.

**AC Capacity**

**NOTICE**

In case of substantial overloading, the electronic circuit protector will activate. Slightly overloading the generator or running at maximum power operation (30 minutes) may not switch the circuit ON, but will shorten the service life of the generator.

Maximum power is:

3.0 kW

For continuous operation, do not exceed rated power:

2.8 kW

Consider the total power requirements of all connected devices. Appliance and power-tool manufacturers usually list the rating information near the model or serial number. After plugging in a device, allow the generator to stabilize before plugging in additional items. Always consider the generator capacity before plugging in any device.
### OPERATION

#### Safe Operating Precautions

#### AC Capacity

**Note:** Typical wattages are listed in the table below. Before plugging any device into the generator, verify the manufacturer-listed wattage on the device.

### Wattage Reference Table

<table>
<thead>
<tr>
<th>DEVICE</th>
<th>RUNNING (RATED) WATTS</th>
<th>ADDITIONAL STARTING (SURGE) WATTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circular Saw - 7 1/4”</td>
<td>1400</td>
<td>2300</td>
</tr>
<tr>
<td>Coffee Maker</td>
<td>1000</td>
<td>0</td>
</tr>
<tr>
<td>Dehumidifier</td>
<td>650</td>
<td>800</td>
</tr>
<tr>
<td>Electric Drill - 3/8”, 4 Amps</td>
<td>440</td>
<td>600</td>
</tr>
<tr>
<td>Garage Door Opener 1/2 HP</td>
<td>875</td>
<td>2350</td>
</tr>
<tr>
<td>Hair Dryer</td>
<td>300 - 1200</td>
<td>0</td>
</tr>
<tr>
<td>Light Bulb (75-Watt)</td>
<td>75</td>
<td>0</td>
</tr>
<tr>
<td>Microwave Oven 1000-Watt</td>
<td>1000</td>
<td>1400</td>
</tr>
<tr>
<td>Paint Sprayer</td>
<td>360</td>
<td>1080</td>
</tr>
<tr>
<td>Personal Computer with 17” Monitor</td>
<td>800</td>
<td>0</td>
</tr>
<tr>
<td>Radio</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Refrigerator</td>
<td>400 - 800</td>
<td>2200</td>
</tr>
<tr>
<td>Space / Wall Heater</td>
<td>1800</td>
<td>0</td>
</tr>
<tr>
<td>Sump Pump - 1/2 HP</td>
<td>1050</td>
<td>2200</td>
</tr>
<tr>
<td>Table Saw / Radial Arm Saw - 10”</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td>Television (Color) - 27”</td>
<td>500</td>
<td>0</td>
</tr>
</tbody>
</table>
Safe Operating Precautions

Power Management

<table>
<thead>
<tr>
<th>DEVICE</th>
<th>RUNNING (RATED) WATTS</th>
<th>ADDITIONAL STARTING (SURGE) WATTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microwave oven</td>
<td>1000</td>
<td>1400</td>
</tr>
<tr>
<td>Coffee maker</td>
<td>1000</td>
<td>0</td>
</tr>
</tbody>
</table>

Total Running (Rated) Watts = 2000
Additional Starting Surge Watts = 1400
Total Generator Output Required = 3400

⚠️ CAUTION ⚠️

Ensure the combined electrical rating of the powered device(s) do not exceed the maximum allowed by the generator. Never exceed the maximum power rating of the generator. Power levels between rated and maximum may be used for no more than 30 minutes.

DC Operation

Connecting the Battery Charging Cable (included)

⚠️ WARNING ⚠️

The battery emits explosive hydrogen gas during normal operation. A spark or flame can cause the battery to explode with enough force to kill or cause serious injury. Wear protective clothing and eye protection when charging a battery.

Battery posts, terminals, and related accessories contain lead and lead components. Wash hands after handling.

To prevent the possibility of creating sparks near the battery, connect the charging cable first to the generator then to the battery. Disconnect the cable first at the battery.

The battery contains sulfuric acid (electrolyte). Contact with skin or eyes may cause severe burns. Wear protective clothing and a face shield. If electrolyte gets on your skin, flush with water. If electrolytes get in your eyes, flush with water for at least 15 minutes and call a physician.

Electrolyte is poisonous. If swallowed, drink large quantities of water or milk and follow with milk of magnesia or vegetable oil and call a physician. Keep out of reach of children.
OPERATION
Safe Operating Precautions
DC Operation
Connecting the Battery Charging Cable

**CAUTION**
The DC charging output is not regulated. The DC receptacle should only be used for charging 12V DC batteries. The 12V DC receptacle has no battery overcharge protection function. Do not overcharge the battery. The DC output is to be used to charge batteries only. Serious damage to the stator windings can occur if connected to a DC motor or transformer.

**NOTICE**
This generator is not designed to operate DC motors. Output voltage is 15-30V. DC output will vary according to the position of the Smart throttle switch.

1. Disconnect the vehicle ground cable from the negative (-) battery terminal.
2. Plug the battery charging cable into the DC receptacle.
3. Connect the red lead of the battery charging cable to the positive (+) battery terminal and then the black lead to negative (-) battery terminal. Do not reverse the charging cables or serious damage to the generator and/or battery may occur.

4. Start the generator.
The DC receptacle may be used while the AC power is in use.
OPERATION

Safe Operating Precautions

DC Operation

Connecting the Battery Charging Cable

**CAUTION**

Do not start the vehicle while the battery charging cable is connected and the generator is running. The vehicle’s charging system or the generator may be damaged.

**Note:** The DC receptacle is protected from an overload with a fuse. If the DC circuit is overloaded, the 5 amp fuse will blow and power to the DC receptacle will cease. The red light on the DC panel will illuminate. If the DC overload fuse continues to blow, discontinue charging and see your authorized POLARIS generator supplier. The overload fuse does not prevent overcharging the battery. The fuse is located to the left of the receptacle and is accessed by snapping open the access door. Replace the fuse with one of the same capacity. Using a higher rated fuse may cause damage to the generator alternator.

**Disconnecting the Battery Charging Cable**

1. Stop the generator.
2. Disconnect the black lead of the battery charging cable from the negative (-) battery terminal and then the lead from the positive (+) battery terminal.
3. Unplug the battery charging cable from the DC receptacle.
4. Connect the vehicle battery ground cable to the negative (-) battery terminal.
OPERATION

Safe Operating Precautions

Air Conditioning Operation

For best results, the SMART throttle switch should be in the off position. Bring the generator to a normal operating temperature before applying the air conditioning load. Always allow a 2 minute wait period when manually cycling an air conditioner off and on. A longer wait period may be required under unusually hot weather conditions. Additionally, all other loads should be turned off until the air conditioner has started and is performing normally. It is also important to follow the air conditioner manufacturer's instructions for starting and restarting for proper operation. Some air conditioner manufacturers offer a start capacitor as an extra cost option. The lack of a start capacitor can cause the air conditioner to draw too high a starting current and overload the generator. Contact your air conditioner supplier if you consistently have problems starting your air conditioner with the generator. This generator is not generally recommended for air conditioners exceeding 13,500 BTUs.

SMART Throttle System

With the SMART throttle switch in the ON position, engine speed is automatically lowered when loads are reduced, turned off, or disconnected. When devices are turned on or connected, the engine returns to the proper speed to power the electrical load. When the smart throttle is in the OFF position, the engine runs at rated load RPM.

Appliances with large start-up power demands may not allow the engine to reach normal operating RPM when they are connected to the generator. Position the SMART throttle switch to OFF and connect the device to the generator. If the engine still will not reach normal operating speed, ensure the device does not exceed the rated load capacity of the generator.

If high electrical loads are simultaneously connected, position the SMART throttle switch to OFF to reduce voltage changes.

The SMART throttle system is not effective for use with devices or appliances requiring only momentary power. If the device or appliance will be quickly turned on and off, the SMART throttle switch should be in the OFF position. When using the DC output, position the SMART throttle switch to OFF.
Safe Operating Precautions

Standby Power

WARNING

Improper connection to a building electrical system can allow current from the generator to back feed into the utility lines. Such back feed may electrocute utility company workers or others who contact the lines during a power outage. Additionally, the generator may explode, burn, or cause fires when utility power is restored. Consult the utility company or a qualified electrician prior to making any power connections.

Connections to a Building Electrical System

Connections for standby power to a building's electrical system must be made by a qualified electrician and must comply with all applicable laws and electrical codes. Improper connections can allow electrical current from the generator to back feed into the utility lines. Such back feed may electrocute utility company workers or others who contact the lines during a power outage; when utility power is restored, the generator may explode, burn, or cause fires in the building's electrical system. Do not connect this generator to an automatic transfer switch. Serious damage to the engine and inverter module may result.

In some areas, generators are lawfully required to be registered with local utility companies. Check local regulations for proper registration and usage procedures.

System Ground

To prevent electrical shock from faulty appliances, the generator should be grounded. Connect a length of heavy cable between the generator's ground terminal and an external ground source.

System Requirements

There may be federal or state regulations, local codes, or ordinances that apply to the intended use of the generator. Please consult a qualified electrician, electrical inspector, or the local agency having jurisdiction. If the generator is used at a construction site, there may be additional regulatory requirements.
OPERATION
High Altitude Use

Carburetor Modification

NOTICE
When carburetor has been modified for high altitude operation, the air-fuel mixture will be too lean for low altitude use and may cause engine damage.

At high altitude, the standard carburetor air-fuel mixture will be excessively rich. 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 different than that which this engine was certified, for extended periods of time, may increase emissions.

High altitude operation can be improved by specific modifications to the carburetor. If always operating the generator at altitudes above 1500 meters (5000 feet), have an authorized POLARIS servicing supplier perform the carburetor modification. The engine will meet each emission standard throughout its life when operated at high altitude with the carburetor modifications for high altitude operation.

With the carburetor modification, engine horsepower will decrease by about 3.5% for every 300 meters (1000 feet) increase in altitude. The effect of altitude on horsepower will be greater if no carburetor modification is made.

CAUTION
Operation of the generator at an altitude lower than the carburetor is jetted for may result in reduced performance, overheating, and serious engine damage caused by an excessively lean air/fuel mixture. Be sure to have any modification reversed at lower altitudes.
Emission Control System Information

Source of Emissions

Exhaust gas contains carbon monoxide, nitrous oxide (NOx), and hydrocarbons. It is very important to control the emissions of NOx and hydrocarbons as they are a major contributor to air pollution. Carbon monoxide is a poisonous gas. The generator engine utilizes a precise air-fuel ratio and emission control system to reduce the emissions of carbon monoxide, NOx, hydrocarbons.

POLARIS utilizes appropriate air-fuel ratios and other emissions control systems to reduce the emissions of carbon monoxide, oxides of nitrogen, and hydrocarbons. In addition, POLARIS fuel systems utilize components and control technologies to reduce evaporative emissions.

To keep the engine emissions within the emission standards, the following procedures must be followed:

Alterations

Altering the emission control system may increase emissions beyond the legal limit. Some possible alterations are as follows:

- Removal or alteration of any part of the intake, fuel, or exhaust systems
- Altering or defeating the governor linkage or speed-adjusting mechanism to cause the engine to operate outside its design parameters
OPERATION
Emission Control System Information
Problems Affecting Emissions
If aware of any of the following, have the engine inspected and repaired by an authorized POLARIS supplier:
• Hard starting or stalling after starting
• Rough idle
• Shut down or backfire after applying an electrical load
• Afterburning (backfiring)
• Black exhaust smoke or high fuel consumption

Replacement Parts
The emission control system on the engine was designed, built, and certified to conform to applicable emission regulations. We recommend the use of POLARIS Genuine parts whenever maintenance is performed. These original design replacement parts are manufactured to the same standards as the original parts. The use of replacement parts that are not of the original design and quality may impair the effectiveness of the emission control system.

Aftermarket part manufacturers assume the responsibility that the part will not adversely affect emission performance. The manufacturer or re-builder of the part must certify that use of the part will not result in a failure of the engine to comply with emission regulations.
Importance of Maintenance

Good maintenance is essential for safe and economical operation. Proper maintenance will also help reduce air pollution.

To ensure the longevity of the generator, the following pages include a periodic maintenance schedule and inspection and maintenance procedures. Other, more difficult tasks, require special tools and expertise provided by a POLARIS technician or other qualified mechanic.

The maintenance schedule applies to normal operating conditions. If the generator is operated under unusual conditions, such as sustained high load or high temperature, or dusty conditions, consult the servicing supplier for applicable recommendations.

To ensure the best quality and reliability, use only new, POLARIS Genuine parts or their equivalents for repair and replacement.

All necessary replacement parts and labor incurred, with the exception of authorized warranty repairs, become the responsibility of the registered owner. If, during the course of the warranty period, part failures occur as a result of owner neglect in performing recommended regular maintenance, the cost of repairs are the responsibility of the owner.
MAINTENANCE
Maintenance Safety

⚠️ WARNING ⚠️
Personal safety is critical when attempting to service the generator. Improperly installed or adjusted components can make the generator unstable or dangerous. Improperly installed electrical components can cause engine or electrical systems failure. In either event, damage or serious injury could result. If you do not have the time, tools, and/or expertise necessary to complete a procedure properly, please see your POLARIS supplier for service.

Failure to correct a problem before operation and improper maintenance can cause a malfunction resulting in injury or death. Always follow the inspection and maintenance schedules and requirements in this manual.

The following important safety precautions cannot warn of every possible hazard from maintenance. The decision to perform a given task must be evaluated by the individual performing it.

Safety Precautions

Read the safety section of this manual.

Ensure the engine is off before performing any maintenance or repairs. This should minimize the potential for exposure to the following hazards:

• **Fuel and fire** - Avoid flames, sparks, and smoking during service.

• **Carbon monoxide poisoning** - Avoid indoor operation of engine and stay away from open windows and doors.

• **Burns** - Allow the engine and exhaust system to cool before touching. Exercise caution when working around hazardous materials.

• **Injury from moving parts** - Avoid running the engine unless specifically instructed.

Follow the instructions and ensure the required tools are used.

Exercise caution when working around petrol to reduce the possibility of fire or explosion. Use only non-flammable solvents to clean parts. Keep cigarettes, sparks, and flames away from all fuel-related components.
Periodic Maintenance

- Always stop the engine before servicing. Disconnect all devices and extension cords to avoid receiving an electrical shock.
- Periodic checks and maintenance are very important for keeping the generator in good condition.
- Inspect, clean, lubricate, adjust, and replace parts as necessary. When inspection reveals the need for replacement parts, use POLARIS Genuine parts available from your POLARIS supplier.
- Before beginning any maintenance procedure, read the instructions for the entire procedure. During some procedures, potentially hazardous products may be used. Always follow the instructions and warnings on the product packaging.

Periodic Maintenance Chart

<table>
<thead>
<tr>
<th>Item</th>
<th>Remarks</th>
<th>Pre-Operation Check (daily)</th>
<th>Initial 1 month or 20 hrs</th>
<th>Every 3 months or 50 hrs</th>
<th>Every 6 months or 100 hrs</th>
<th>Every 12 months or 300 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spark plug</td>
<td>Check condition. Adjust gap and clean.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Replace</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Spark arrester</td>
<td>Clean the carbon deposits.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Engine oil</td>
<td>Check the oil level.</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Replace</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Air filter</td>
<td>Check</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clean. Replace as needed.</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X(2)</td>
</tr>
<tr>
<td>Fuel sediment cup</td>
<td>Clean</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Fuel tank and strainer</td>
<td>Clean</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X(3)</td>
</tr>
<tr>
<td>Valve clearance</td>
<td>Check and adjust when engine is cold.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X(3)</td>
</tr>
<tr>
<td>Fuel line</td>
<td>Check fuel line for twists, cracks, or damage. Replace as needed.</td>
<td>Every 2 years (Replace as necessary)</td>
<td>(3)</td>
<td>(3)</td>
<td>(3)</td>
<td>(3)</td>
</tr>
</tbody>
</table>

(1) Log hours of operation to determine proper maintenance.
(2) Service more frequently when used in dusty conditions.
(3) These items should be serviced by an authorized POLARIS supplier unless the owner has the proper tools and is mechanically proficient. Refer to the POLARIS Service manuals.
**MAINTENANCE**

**Opening the Service Door**

Use the following steps to open the generator service door and gain access to the inner components. Before performing any maintenance, the ignition switch should be positioned to OFF. See page 19.

**Note:** Use this procedure to open the service door on either side of the generator.

1. Position the ignition switch (A) and fuel valve lever to OFF.

2. Unlock the access panel latch (B), slide the lock down to have the latch handle (C) pop out.

3. Turn the latch handle (C) clockwise to disengage the latch.
**MAINTENANCE**

**Opening the Service Door**

4. Expose the generator inner components by swinging open the service door (D). Perform maintenance as needed.

5. Upon completion of maintenance, close the service door (D), engage the latch (C) by turning counter clockwise and pushing in securing with the lock slider (B), and position the ignition switch (A) to the ON position to allow generator operation.

**Fuel System**

⚠️ **WARNING**

Petrol is highly flammable and explosive, and can cause serious injury or death. Stop the engine and keep heat, sparks, and flame away. Handle fuel only outdoors. Wipe up spills immediately.

**Fuel Line Inspection**

Inspect the fuel line to ensure absence of twists, cracks, and or damage. Replace as needed.
MAINTENANCE
Fuel System
Fuel Tank Strainer

1. Remove the fuel tank cap (A).

2. Remove the fuel tank strainer (B) from the fuel tank.

3. Remove any foreign objects or debris from the fuel tank strainer (B).

4. Inspect the fuel tank strainer (B) for damage. Replace as needed.

5. Install the fuel tank strainer (B) into the fuel tank.

6. Securely tighten the fuel tank cap (A).

7. Position the fuel valve lever OFF for storage or transport, or ON to run the generator.
Engine Oil

Oil Recommendation

Oil directly affects performance and service life. Use a 4-stroke automotive detergent oil, see page 64 for recommended oil. Other viscosities may be used when the applicable average temperature is within the recommended range.

The SAE oil viscosity and service category are in the API label on the oil container. POLARIS recommends the use of API service category “SJ” or later, equivalent oil.

Oil Level Inspection

NOTICE
Failure to use the proper 4-stroke engine oil may result in engine damage.

Using non-recommended oil may cause serious engine damage. Never substitute or mix oil brands.

Note: Inspect the oil level before each use with the engine stopped and the generator on a level surface.

1. Open the service door.
2. Remove the oil filler cap / dipstick (A) and wipe it clean.
3. Insert the dipstick (A) into filler neck, screwing it in, to inspect the oil level.
4. Remove the dipstick and verify that the oil is at the upper limit (B). Add additional oil and inspect the level as needed until the upper limit has been reached.
5. Re-install the dipstick (A). Use a clean shop rag to clean any spilled oil.
6. Close the service door.
MAINTENANCE
Engine Oil
Oil Change

⚠️ WARNING
Oil may be hot. Do not allow hot oil to come into contact with skin, as serious burns may result.

Note: Drain the oil while the engine is warm to assure rapid and complete draining.

1. Start the engine and allow it to run for a few minutes. Stop the engine.
2. Position the fuel valve lever to OFF.
3. Open the service door.
4. Remove the oil filler cap / dipstick (A).
5. Remove the drain bolt (B) and drain the oil. The generator will have to be raised off the ground and supported while the oil drains. Make sure the wheels are in LOCK position before the oil drain process.
Engine Oil
Oil Change

Note: Improper disposal of engine oil can be harmful to the environment and is unlawful. Properly dispose of used oil.

6. Drain the used oil into a sealed container and take it to a recycling center. **Do not discard the oil into a rubbish bin, dump it on the ground, or pour it down the drain.**

7. Re-install the oil drain bolt (B).

Fill oil to the high limit mark (D) on the dipstick.

8. Start the engine and let it run for 1 or 2 minutes. Stop the engine and look for leaks.

9. Re-check the oil level on the dipstick (A) and add oil as needed to bring the level to the upper mark (D) on the dipstick.

10. Re-install the dipstick (A).

11. Close the service door.

12. Wash hands with soap and water after handling used oil.
MAINTENANCE
Air Filters
Air Filter Inspection

WARNING
Do not use petrol or low flash point solvents for cleaning. They are flammable and explosive under certain conditions.

Note: An obstructed air filter restricts air flow to the carburetor. To prevent carburetor malfunction, regularly service the air filter. Service more frequently when operating the generator in extremely dusty areas.

1. Open the service door.
2. Unsnap the clips and remove the air cleaner cover (A).
3. Remove the air filter (B).
4. If the paper element (B) is dirty or torn, replace it with a new one. Do not attempt to clean the element.
5. Reinstall the air cleaner cover.
6. Close and latch the service door.
Spark Plug
Spark Plug Inspection and Replacement

**NOTICE**
Using a non-recommended spark plug can result in serious engine damage. Always use recommended spark plugs.

**Note**: In order to service the spark plug, the provided spark plug wrench is required.

Refer to the Specification section (see page 64) for the recommended spark plug type. Always torque spark plugs to the specification.

**Note**: To ensure proper engine operation, the spark plug must be free of deposits and properly gapped. If the engine has been running, allow it to cool before servicing.

**Normal Spark Plug**
The normal insulator tip is gray, tan or light brown. There will be few combustion deposits. The electrodes are not burned or eroded. This indicates the proper type and heat range for the engine and the service.

**Note**: The tip should not be white. A white insulator tip indicates overheating, caused by use of an improper spark plug, fuel, or incorrect carburetor adjustments.

**Wet Fouled Spark Plug**
The wet fouled insulator tip is black. A damp oil film covers the firing end. There may be a carbon layer over the entire nose. Generally, the electrodes are not worn. Fouling may be caused by excessive oil or by frequent short trips, especially in cold weather.

1. Open the service door.
2. Remove the spark plug cap (A).
MAINTENANCE
Spark Plug
Spark Plug Inspection and Replacement
3. Clean any dirt from around the base of the spark plug.
4. Using the provided park plug wrench (B), remove the spark plug.
5. Inspect the electrode for wear and carbon buildup. Look for a sharp outer edge with no rounding or erosion of the electrode.
6. Inspect spark plug. Replace if electrodes are worn or if insulator is cracked, chipped, or fouled.
7. Clean the spark plug with a wire brush if it is to be reused.
8. Using a wire-type feeler gauge, measure the spark plug electrode gap. If necessary, correct the gap by carefully bending the side electrode. The gap should be 0.028-0.031 in (0.7-0.8 mm). Correct as necessary by carefully bending the side electrode.
9. Ensure the spark plug sealing washer is in good condition and thread the spark plug in by hand to prevent cross-threading.
10. After a new spark plug has been seated by hand, it should be tightened 1/2 turn with a wrench to compress the sealing washer. If a used plug is being reinstalled, it should only require 1/8 to 1/4 turn after being seated.

**NOTICE**
A loose spark plug can overheat and damage the engine. Over tightening the spark plug can damage the plug threads.

Never use a spark plug with an improper heat range.
11. Re-install the spark plug cap and close the service door.
Battery Safety

⚠️ WARNING ⚠️

Always disconnect the negative (black) cable first when removing the battery. Always connect the negative (black) cable last during installation. Failure to properly connect/disconnect battery cables may result in an explosion and cause serious injury or death.

Battery electrolyte contains sulfuric acid which is poisonous and can cause serious burns. Avoid contact with eyes, skin, and clothing. Ensure proper protective gloves, goggles, and clothing are worn. If eyes are exposed, flush with water for 15 minutes and seek medical attention. If external contact, flush with water. If ingested, drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Seek immediate attention.

Overheating of battery may cause an explosion, and severe injury or death. Stop charging if the battery becomes very warm to the touch. Allow battery to completely cool before resuming charging.

 NOTICE

Avoid spilling of electrolyte. Damage to equipment may result. Immediately wash off any electrolyte spills with a solution of one tablespoon baking soda and one cup water.

Accessing the Battery

Open the service door to gain access to the battery, see page 16 for location. Before performing any inspection or maintenance on the battery, ignition switch and fuel valve lever should be positioned to OFF

Battery Cleaning

1. Using a stiff wire brush, remove corrosion from the battery terminals and electrical connections.

2. Wash with a solution of one tablespoon baking soda and one cup water.
Battery Charging (Sealed Only)

Note: This procedure applies only to the sealed battery (recommended).

1. Using a voltmeter or multi-meter, check the battery to ensure a minimum 12.8V DC or higher.

2. If the voltage is less than 12.8V DC, recharge the battery at 1.2 amps or less until the battery voltage is 12.8V DC or greater.

<table>
<thead>
<tr>
<th>STATE OF CHARGE</th>
<th>VOLTAGE</th>
<th>ACTION</th>
<th>CHARGE TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>12.8 - 13.0 Volts</td>
<td>None. Check at 3 months from manufacture date.</td>
<td>None required</td>
</tr>
<tr>
<td>75% - 99%</td>
<td>12.5 - 12.7 Volts</td>
<td>May need slight charge, if no charge given, check in 3 months.</td>
<td>3 - 6 hours</td>
</tr>
<tr>
<td>50% - 74%</td>
<td>12.0 - 12.4 Volts</td>
<td>Needs charge</td>
<td>5 - 11 hours</td>
</tr>
<tr>
<td>25% - 49%</td>
<td>11.5 - 11.9 Volts</td>
<td>Needs charge</td>
<td>At least 13 hours, verify state of charge</td>
</tr>
<tr>
<td>0% - 24%</td>
<td>11.4 volts or less</td>
<td>Needs charge with desulfating charger</td>
<td>At least 20 hours</td>
</tr>
</tbody>
</table>
Spark Arrestor
Spark Arrestor Maintenance

⚠️ WARNING ⚠️
Generator exhaust system gets hot enough to ignite some materials and burn skin if touched.
Allow generator and exhaust to cool before performing spark arrestor maintenance.

⚠️ CAUTION ⚠️
The spark arrester must be serviced every 100 hours to maintain its efficiency.

Use the following steps to remove the generator handle and exhaust cover to gain access to the spark arrester.
Before performing any inspection or maintenance on the battery, ignition switch should be positioned to OFF.

1. Remove the generator rear cover (A) to access the spark arrestor (B) by removing the 4 screws (C).

2. Remove the spark arrestor from the muffler by unscrewing the clamp.
3. Clean the spark arrestor with a stiff wire brush.
4. Replace if the wire mesh is perforated or torn.
5. Reinstall screen and clamp. Tighten clamp and verify screen is secured to exhaust outlet.
6. Reinstall exhaust cover.
TRANSPORTATION AND STORAGE

Transportation

Transporting the Generator

⚠️ WARNING

A hot engine or exhaust system can cause severe burns and ignite flammable material. Ensure adequate time for cooling before storage or transportation.

When operating or transporting the generator, be sure it is kept upright. If the generator tilts, fuel may leak. Be sure the fuel tank cap is tight during transportation.

IMPORTANT: Take care not to drop or strike the generator when transporting. Do not place heavy objects on the generator.

IMPORTANT: When transporting firmly secure the generator to the transport vehicle.

1. If the generator has been used, allow it to cool for at least 15 minutes before loading it on the transport vehicle.

2. Position the ignition switch (A) and the fuel valve lever (B) to OFF (see page 19), and keep generator level to reduce possibility of fuel leakage.

3. Transporting the generator with petrol in the fuel tank is prohibited. See page 61.
TRANSPORTATION AND STORAGE

Storage

Storage Preparation

⚠️ WARNING

Petrol is highly flammable and explosive and can cause serious injury. Stop the engine and keep heat, sparks, and flame away. Handle fuel only outdoors. Wipe up spills immediately.

Note: Long-term storage of the generator will require some additional preventative measures to guard against deterioration. If fuel is kept in the generator, ensure that the engine is run for at least 30 minutes per month in order to ensure an easy start in emergencies.

Note: Be sure the storage area is free of excessive humidity and dust.

1. If the generator will be stored with fuel, perform “Adding Fuel Stabilizer”.
2. If the generator will be stored dry of fuel, perform the “Draining Fuel” and “Fogging the Engine procedures.
4. Remove the battery and store in cool, dry location. Use a battery tender to maintain battery charge.
5. Clean the exterior of the generator with a clean cloth and apply a rust inhibitor.
6. Turn fuel valve lever to OFF.

⚠️ WARNING

Do not pour water directly on to the generator or wash it with water.
TRANSPORTATION AND STORAGE

Storage

Accessing the Fuel Tank

1. Remove the fuel tank cap (A).

2. Remove the fuel tank strainer (B) from the fuel tank. Remove debris as needed.

3. When maintenance is complete, re-install the fuel tank strainer (B) into the fuel tank.

4. Securely tighten the fuel tank cap until it clicks.
Storage
Draining Fuel from the Fuel Tank and Carburetor

⚠️ WARNING ⚠️
Petrol is highly flammable and explosive and can cause serious injury. Stop the engine and keep heat, sparks, and flame away. Handle fuel only outdoors. Wipe up spills immediately.

Do not spill fuel when draining the fuel tank. Spilled fuel is a fire hazard, causes environmental damage, and can cause damage to paint and plastic. Wipe up spills immediately.

Note: This procedure applies if fuel will NOT be kept in the fuel tank during storage or before transportation.

1. Access the fuel tank. See page 60.
2. Empty the fuel tank into an approved petrol container. POLARIS recommends using a commercially available petrol hand pump to empty the tank. Do not use an electric pump.
3. Re-install the fuel tank strainer into the fuel tank.
4. Securely tighten fuel tank cap until it clicks.
5. Open the service door. See page 46.
6. Turn fuel valve lever to ON and then loosen the carburetor drain screw (A).
7. Drain the petrol from the carburetor (B) and into a suitable container.
TRANSPORTATION AND STORAGE

Storage

Fogging the Engine

1. Turn the ignition key to the OFF position.
2. Open the service door. See page 46.
3. Remove the spark plug cap (A).
4. Using the provided park plug wrench (B), remove the spark plug.

5. Pour a tablespoon of clean engine oil into the cylinder. Crank the engine several revolutions to distribute the oil and then reinstall the spark plug.
6. Ensure that the spark plug sealing washer is in good condition and hand-tighten the spark plug to prevent cross-threading.
7. Using a spark plug wrench, carefully tighten the spark plug. Torque the spark plug to specification. See page 53.
8. Slowly pull the starter grip until resistance is felt. At this point, the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. Storing the engine in this position will help protect it from internal corrosion.
9. Re-install the spark plug cap (A) and service door.
10. Cover the generator and store it indoors, in a dry, well-ventilated area, such as a tool shed.
Storage

Battery Storage

Do not store the generator outdoors in the cold weather when not in use.

Storage Precautions

**NOTICE**

Do not store the generator outdoors in the cold weather when not in use.

- Select a well-ventilated storage area away from any flame-operated appliance (i.e., furnace, water heater, or clothes dryer). Also avoid any area with a spark-producing electric motor, or where power tools are operated.

- Be sure the storage area is free of excessive humidity and dust.

- Place the generator on a level surface. Tilting can cause fuel or oil leakage.

- With the engine and exhaust system cool, cover the generator to prevent dust contamination. Do not use a sheet plastic as a dust cover. Nonporous covers trap moisture around the generator, promoting rust and corrosion.

- Position fuel tank cap vent lever to OFF to reduce leakage possibilities.

Generator Exercise

**Note:** Exercise the generator by running it at a 50% load for two hours every month. This insures fresh fuel is run through the fuel system and prevents varnishing. In addition, seals and engine components are lubricated and the chance of carbon buildup in the upper cylinder head is lessened. Any moisture that has accumulated in the generator windings is baked out as well as keeping the battery charged.


2. If fuel was drained during storage preparation, fill tank with fresh petrol (see page 27). If petrol is stored in a container, ensure the petrol is fresh. Petrol oxidizes and deteriorates over time, causing hard starting.

Removing from Storage

**Note:** If the cylinder was coated with oil during storage preparation, the engine may smoke briefly at startup. This is normal.


2. If fuel was drained during storage preparation, fill tank with fresh petrol (see page 27). If petrol is stored in a container, ensure the petrol is fresh. Petrol oxidizes and deteriorates over time, causing hard starting.
# SPECIFICATIONS
## General Specifications
### P3000iE

**POLARIS Power Generator**

### ALTERNATOR

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Output Voltage</td>
<td>240V</td>
</tr>
<tr>
<td>DC Output Voltage</td>
<td>12V (5.0A)</td>
</tr>
<tr>
<td>Rated Output</td>
<td>2.8 kW (11.67A)</td>
</tr>
<tr>
<td>Maximum Output</td>
<td>3.0 kW (12.5A)</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 HZ</td>
</tr>
<tr>
<td>Type</td>
<td>Inverter</td>
</tr>
</tbody>
</table>

### ENGINE

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>KG205</td>
</tr>
<tr>
<td>Type</td>
<td>4-stroke, OHV Air-cooled, Single Cylinder</td>
</tr>
<tr>
<td>Displacement</td>
<td>196cc(12.0 cu in)</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>8.5:1</td>
</tr>
<tr>
<td>Engine Speed</td>
<td>3600 RPM with smart throttle off</td>
</tr>
<tr>
<td>Cooling System</td>
<td>Forced Air</td>
</tr>
<tr>
<td>Ignition System</td>
<td>Transistorized</td>
</tr>
<tr>
<td>Engine Oil</td>
<td>POLARIS 5W-30 Generator Oil</td>
</tr>
<tr>
<td>Engine Oil Capacity</td>
<td>0.6 L (0.63 qt)</td>
</tr>
<tr>
<td>Intake Valve Clearance-Cold</td>
<td>0.10 mm (.004 in.)</td>
</tr>
<tr>
<td>Exhaust Valve Clearance-Cold</td>
<td>0.15 mm (.006 in.)</td>
</tr>
<tr>
<td>Spark Plug Gap</td>
<td>WR7DC 0.6 - 0.7 mm (.024 - .028 in.)</td>
</tr>
</tbody>
</table>
**POLARIS Power Generator**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel</td>
<td>91 Octane (Up to 10% Oxygenated)</td>
</tr>
<tr>
<td>Fuel Tank Capacity</td>
<td>13 L (3.43 gallons)</td>
</tr>
<tr>
<td>Starting System</td>
<td>Electric with recoil backup</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>- 686 mm (27.0 in)</td>
</tr>
<tr>
<td></td>
<td>- 425 mm (16.7 in)</td>
</tr>
<tr>
<td></td>
<td>- 505 mm (19.9 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>57 kg (125.6 lbs)</td>
</tr>
<tr>
<td>Full Tank Run Time Hours</td>
<td>6.25 hours</td>
</tr>
<tr>
<td>Rated Load</td>
<td></td>
</tr>
<tr>
<td>AC/DC Simultaneously Usage</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**POLARIS Lubricants and Maintenance Products**

<table>
<thead>
<tr>
<th>Engine Oil</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2879383</td>
<td>POLARIS 5W-30 Generator Oil (1 Quart) (32 oz.)</td>
</tr>
</tbody>
</table>

**Grease / Specialized Lubricants**

| 2871329                      | Dielectric Grease (Nyogel™)                              |

**Additives**

| 2871326                      | Premium Carbon Clean / Fuel Stabilizer (12 oz.) (12 count) |
# Troubleshooting

## Engine Will Not Turn Over

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starter recoil damage</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>Low battery voltage</td>
<td>Recharge the battery to 12.8V DC</td>
</tr>
<tr>
<td>Starter motor damaged</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>Internal engine damage</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
</tbody>
</table>

## Engine Turns Over, but Will Not Start

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Out of fuel</td>
<td>Refuel</td>
</tr>
<tr>
<td>Low Oil</td>
<td>Repeat Pre-operation Inspection</td>
</tr>
<tr>
<td>Water is present in fuel</td>
<td>Drain the fuel system and refuel</td>
</tr>
<tr>
<td>Old or non-recommended fuel</td>
<td>Drain the fuel system and refuel</td>
</tr>
<tr>
<td>Fouled or defective spark plug</td>
<td>Inspect spark plug and replace if needed</td>
</tr>
<tr>
<td>No spark to spark plug</td>
<td>Inspect spark plug, verify engine switch is ON</td>
</tr>
<tr>
<td>Water or fuel in crankcase</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>Low battery voltage</td>
<td>Recharge the battery to 12.8V DC</td>
</tr>
<tr>
<td>Mechanical failure</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>Is the fuel valve on</td>
<td>Turn the fuel valve on</td>
</tr>
</tbody>
</table>
## TROUBLESHOOTING

### Troubleshooting Symptoms

#### Engine Lacks Power

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air filter restricted</td>
<td>Clean or replace air filter</td>
</tr>
<tr>
<td>Bad fuel; generator stored without treating or draining petrol, or refueled with bad petrol</td>
<td>Drain the fuel system and refuel</td>
</tr>
<tr>
<td>Mechanical failure</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
</tbody>
</table>

#### Engine Backfires

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weak spark from spark plug</td>
<td>Inspect, clean, and / or replace spark plug</td>
</tr>
<tr>
<td>Incorrect spark plug gap or heat range</td>
<td>Set gap to specification or replace spark plug</td>
</tr>
<tr>
<td>Old or non-recommended fuel</td>
<td>Drain the fuel system and refuel</td>
</tr>
<tr>
<td>Incorrectly installed spark plug wires</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>Incorrect ignition timing</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>Mechanical failure</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>Loose ignition connections</td>
<td>Check all connections and tighten</td>
</tr>
<tr>
<td>Water present in fuel</td>
<td>Drain the fuel system and refuel</td>
</tr>
</tbody>
</table>
# Troubleshooting

## Engine Pings or Knocks

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poor quality or low octane fuel</td>
<td>Drain the fuel system and refuel</td>
</tr>
<tr>
<td>Incorrect ignition timing</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>Incorrect spark plug gap or heat range</td>
<td>Set gap to specification or replace spark plugs</td>
</tr>
</tbody>
</table>

## Engine Runs Irregularly, Stalls, or Misfires

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fouled or defective spark plug</td>
<td>Inspect, clean, and / or replace spark plug</td>
</tr>
<tr>
<td>Worn or defective spark plug</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>Incorrect spark plug gap or heat range</td>
<td>Set gap to specification or replace spark plug</td>
</tr>
<tr>
<td>Loose ignition connections</td>
<td>Check all connections and tighten</td>
</tr>
<tr>
<td>Water present in fuel</td>
<td>Drain the fuel system and refuel</td>
</tr>
<tr>
<td>Low battery voltage</td>
<td>Recharge battery to 12.8V DC</td>
</tr>
<tr>
<td>Kinked or plugged fuel tank vent line</td>
<td>Inspect and replace</td>
</tr>
<tr>
<td>Incorrect fuel</td>
<td>Drain the fuel system and refuel</td>
</tr>
<tr>
<td>Economy throttle control malfunction</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>Other mechanical failure</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
</tbody>
</table>
# TROUBLESHOOTING

## Troubleshooting Symptoms

<table>
<thead>
<tr>
<th>POSSIBLE LEAN FUEL CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low or contaminated fuel</td>
<td>Add fuel, or drain the fuel system and refuel</td>
</tr>
<tr>
<td>Kinked or plugged fuel tank vent</td>
<td>Inspect and replace</td>
</tr>
<tr>
<td>Low octane fuel</td>
<td>Drain the fuel system and refuel</td>
</tr>
<tr>
<td>Carburetor jetting incorrect</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POSSIBLE RICH FUEL CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incorrect fuel</td>
<td>Drain the fuel system and refuel</td>
</tr>
<tr>
<td>Stopping / starting without adequate warm-up</td>
<td>Allow the engine to warm up before operating and / or stopping</td>
</tr>
<tr>
<td>Incorrect spark plug</td>
<td>Inspect and replace with correct plug</td>
</tr>
<tr>
<td>Clogged air filter</td>
<td>Inspect and clean or replace</td>
</tr>
</tbody>
</table>

## No Power at DC Receptacle

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the fuse blown</td>
<td>Replace the fuse.</td>
</tr>
<tr>
<td>Faulty generator</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
</tbody>
</table>
## Troubleshooting Symptoms

### No Power at AC Receptacles

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output indicator is OFF, and overload indicator is ON</td>
<td>Take the generator to a POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>AC circuit protector tripped</td>
<td>Check AC load and reset circuit protector</td>
</tr>
<tr>
<td>Overload protector tripped</td>
<td>Push the Overload Restart switch</td>
</tr>
<tr>
<td>Faulty power tool or appliance</td>
<td>Replace or repair power tool or appliance; stop and restart the engine</td>
</tr>
<tr>
<td>Faulty generator</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
</tbody>
</table>

### Engine Stops or Loses Power

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Out of fuel</td>
<td>Refuel</td>
</tr>
<tr>
<td>Fouled, worn, incorrect, or defective spark plug; incorrect spark plug gap or heat range</td>
<td>Inspect, clean, and / or replace the spark plug / set the spark plug gap to specification</td>
</tr>
<tr>
<td>Loose ignition connections</td>
<td>Check all connections and tighten</td>
</tr>
<tr>
<td>Water present in fuel / incorrect fuel</td>
<td>Drain the fuel system and refuel</td>
</tr>
<tr>
<td>Kinked or plugged fuel tank vent line</td>
<td>Inspect and replace</td>
</tr>
<tr>
<td>Economy throttle control malfunction</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
<tr>
<td>No / low oil in the engine</td>
<td>Check / replace oil</td>
</tr>
<tr>
<td>Clogged air filter</td>
<td>Clean or replace the air filter</td>
</tr>
<tr>
<td>Overheated engine</td>
<td>Clean cover screens</td>
</tr>
<tr>
<td>Mechanical failure</td>
<td>Take the generator to an authorized POLARIS servicing supplier or refer to the service manual</td>
</tr>
</tbody>
</table>
WARRANTY
ABOUT THIS WARRANTY DOCUMENT

This warranty document sets out the details of the manufacturer's warranty given by Polaris Sales Australia Pty Ltd (ABN 62 088 081 949) for POLARIS POWER™ generators in respect of defects in these products which appear during the relevant warranty period (See POLARIS POWER™ Generator Warranty).

WARRANTY REGISTRATION FORM

At the time you purchase your POLARIS POWER™ Generator please complete and send the Warranty Registration Form. The Warranty Registration Form includes the date when the POLARIS POWER™ Generator Warranty starts for your POLARIS POWER™ generator.

POLARIS POWER™ GENERATOR WARRANTY

IMPORTANT NOTICE REGARDING YOUR CONSUMER RIGHTS

The benefits given to you in this POLARIS POWER™ generator Warranty are in addition to, and do not detract from, any rights and remedies that you may have under Australian consumer protection laws.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This POLARIS POWER™ Generator Warranty is not intended to:

a. change or exclude any statutory consumer rights that cannot be lawfully changed or excluded; or

b. limit or exclude any right you have against the person who sold the POLARIS POWER™ generator to you if that person has breached their sales contract with you.

PROVIDER OF THE POLARIS POWER™ GENERATOR WARRANTY

This POLARIS POWER™ Generator Warranty is provided by: Polaris Sales Australia Pty Ltd (ABN 62088081949) of Locked Bag 2006, Sunshine Post Shop, Sunshine, Victoria 3020 telephone number 03 9394 5610 and e-mail: onlineorders@polaris.com.

WARRANTY POLICY

Polaris warrants that if any genuine Polaris part or accessory in or fitted to your POLARIS POWER™ generator at the date of delivery is found to be defective in materials or workmanship during the relevant Warranty Period, the defect in materials or workmanship will, at Polaris' option, be rectified or the affected part(s) replaced free of charge by Polaris, subject to the conditions and exclusions set out in this POLARIS POWER™ Generator Warranty.
WARRANTY

POLARIS POWER™ GENERATOR WARRANTY

WARRANTY POLICY

Where any genuine Polaris parts or accessories are repaired or replaced under this POLARIS POWER™ Generator Warranty, this does not activate a new Warranty Period from the date of repair or replacement of that part or accessory. Any repaired or replacement Polaris parts or accessories will continue to be covered by this POLARIS POWER™ Generator Warranty for the remainder of the original Warranty Period, as defined below.

All defective parts removed from your POLARIS POWER™ generator remain the property of Polaris.

Polaris reserves the right to conduct all reasonably necessary tests on your POLARIS POWER™ generator to determine the cause of any defect or damage.

WARRANTY PERIOD

This POLARIS POWER™ Generator Warranty shall start from the date referred to in the Warranty Registration Form completed by you (Warranty Start Date) and shall continue as follows:

Warranty Period for consumer use: 3 years
Warranty Period for commercial use: 1 year

TRANSFER OF WARRANTY

If you sell your POLARIS POWER™ generator during the applicable Warranty Period to another person, you can transfer the balance of the POLARIS POWER™ Generator Warranty to the purchaser. Please register the change of ownership within 30 days of the sale by filling out the form entitled "Owner Transfer", then scan and send to onlineorders@polaris.com.

HOW TO MAKE A CLAIM UNDER THIS POLARIS POWER™ GENERATOR WARRANTY / OBTAIN SERVICE FOR YOUR POLARIS POWER™ GENERATOR

To make a claim under this POLARIS POWER™ generator Warranty call Polaris on 03 9394 5610 or e-mail onlineorders@polaris.com.

Warranty repairs

Repairs and replacements covered under this POLARIS POWER™ Generator Warranty will be carried out free of charge by Polaris. However you will be responsible for any costs associated with making the warranty claim including but not limited to:

a. the transport of your POLARIS POWER™ generator to and from POLARIS or its representative and all associated costs and expenses;
b. shipping/handling fees;
c. any loss of time or loss of profit;
d. any costs of arranging a replacement generator during the time your POLARIS POWER™ generator is being repaired under this POLARIS POWER™ Generator Warranty.
WARRANTY

POLARIS POWER™ GENERATOR WARRANTY

WARRANTY EXCLUSIONS

Your will not be entitled to make a claim under this POLARIS POWER™ Generator Warranty:

a. in respect of any fault or damage which, in Polaris' reasonable opinion, has been caused by or arises from:
   
i. your failure to operate or maintain your POLARIS POWER™ generator in accordance with the manufacturer's specifications and the instructions in the relevant Operator's Manual;
   
ii. your misuse, negligence, accident damage or improper or inadequate maintenance of your POLARIS POWER™ generator, or as a result of negligence or accident;
   
iii. the POLARIS POWER™ generator having been serviced, or any part having been repaired or replaced by any third party who is not authorised by POLARIS or a qualified technician and the service, or any part repaired or replaced, was not performed in accordance with the manufacturer's specifications set out in the Operator's Manual or relevant service manual;
   
iv. the use of parts or products other than genuine Polaris' parts or products (being parts or products manufactured by Polaris or its related companies or purchased from Polaris);
   
v. improper use, operator error or abuse;
   
vi. snow, water, dirt, chemicals or other foreign substance;
   
vii. failure to adhere to the cleaning requirements for your POLARIS POWER™ generator as set out in the relevant Operator's Manual;

b. in respect of any surface imperfections caused by external stress, heat, cold, contamination, operator error or abuse;

c. in respect of parts or accessories exposed to friction surfaces, stresses, environmental conditions and/or contamination for which they are not designed or not intended, including but not limited to, bulbs, finished and unfinished surfaces, circuit breakers/fuses and electrical components (which are so exposed);

d. in respect of normal maintenance items;

e. for normal replacement of service items unless due to a defect in materials or workmanship;

f. in respect of damage (to the POLARIS POWER™ generator or part) caused by weather conditions (including but not limited to oxidation, corrosion, hail, colour alteration, lost stickers and badges);

g. in respect of damage (to the POLARIS POWER™ generator or part) caused by the failure to adhere to the storage requirements set out in the relevant Operator's Manual;
WARRANTY

POLARIS POWER™ GENERATOR WARRANTY

WARRANTY EXCLUSIONS

h. in respect of deterioration of any item due to normal use and exposure, unless due to a defect in materials or workmanship;

i. in respect of any altered or modified POLARIS POWER™ generator where the alteration or modification affects the electrical or structural functionality or design of the POLARIS POWER™ generator or of any of its components:

   i. at least in so far as the alteration is concerned; and

   ii. to the extent that any failure on the part of the POLARIS POWER™ generator is attributable to the alteration or modification; in respect of any POLARIS POWER™ generator which is sold outside of Australia or imported into Australia;

Note: Although this POLARIS POWER™ Generator Warranty does not apply in the circumstances set out above, you may still have rights under Australian laws, including the Australian Consumer Law (see page 72).

To the extent that the law permits and allows Polaris to exclude or limit its liability, Polaris under this POLARIS POWER™ generator Warranty accept no responsibility for the loss of use of the POLARIS POWER™ generator, loss of time or other damage consequential or otherwise including but not limited to transportation charges, rental generator charges during periods of repair, loss of earnings or income. This exclusion does not affect any rights you have under the Australian Consumer Laws.

POLARIS POWER™ GENERATOR OWNER RESPONSIBILITY

Not all faults, repairs, adjustments and replacements are the result of defects in material or workmanship. There are other circumstances beyond Polaris' control that may cause a fault. These circumstances might include weather and atmospheric conditions, normal wear and usage and individual operating habits. Some owners may misuse their POLARIS POWER™ generators by subjecting them to abnormal stress. In these circumstances, you will not have any right to make a claim under this POLARIS POWER™ Generator Warranty.

Now that you have read this document you should understand:

• What is and what is not covered under the POLARIS POWER™ Generator Warranty.

• The need for scheduled maintenance as specified in the Operator's Manual.

If you have any queries please contact POLARIS on 03 9394 5610 or e-mail onlineorders@polaris.com.
WARRANTY
IMPORTANT NOTICE

To aid in prompt support of any in-service or POLARIS POWER™ Generator Warranty queries that may arise, it is highly important that current ownership details are on file with Polaris.

Therefore it is vital that should you change the details of your POLARIS POWER™ generator ownership (i.e. change of address, change of ownership) that you advise Polaris as soon as possible to ensure that records are amended accordingly.

Manufacturers are required by Federal Government to maintain current owner information should the purpose of a recall arise. Furthermore, current owner information will allow Polaris to readily contact you with relevant product and marketing information.

Your personal information is protected and you can see our Privacy Policy at http://www.polarispower.com.au.
Present this section of your manual to your supplier each time your generator is serviced. This will provide you and future owners with an accurate log of maintenance and services performed.

<table>
<thead>
<tr>
<th>DATE/HOURS</th>
<th>SERVICE PERFORMED</th>
<th>COMMENTS</th>
<th>SUPPLIER / TECHNICIAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial/20 hr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 months/50 hr</td>
<td></td>
<td></td>
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<td>6 months/100 hr</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>9 months/150 hr</td>
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</tr>
</tbody>
</table>
INDEX

P
 Periodic Maintenance Chart . . . . . . . 45
 Pre-Operation Checklist . . . . . . . 26
 Problems Affecting Emissions . . . 42

R
 Refueling . . . . . . . . . . . . . . . . . . 27-28
 Registration, Warranty . . . . . . . . . . 72
 Removing Generator, Storage . . . . . 63
 Replacement, Spark Plug . . . . . . . 53-54

S
 Safe Operating Precautions . . . . 27-30
 Safety Labels and Locations . . . . 14-15
 Safety Precautions . . . . . . . . . . . . . 3, 6, 44
 Signal Words and Safety Terms . . . . 4
 SMART Throttle Switch . . . . . . . 19
 SMART Throttle System . . . . . . . 38
 Spark Arrestor Maintenance . . . . 57
 Spark Plug . . . . . . . . . . . . . . . . . 53-54
 Standby Power . . . . . . . . . . . . . . . 39
 Starter Recoil Grip . . . . . . . . . . 21
 Starting the Engine . . . . . . . . . 29-31
 Stopping the Engine . . . . . . . . . 31
 Storage . . . . . . . . . . . . . . . . . . . . . 59-63
 Storage Precautions . . . . . . . . . 63
 Storage Preparation . . . . . . . . . 59
 System Ground . . . . . . . . . . . . . . 39
 System Requirements . . . . . . . 39

T
 Transporting the Generator . . . . 58
 Troubleshooting . . . . . . . . . . . . . 67