

Radley®

5124-069

21" 150cc Gas Push Lawn Mower Manual





This product is supported by **Midland Power**. Contact us directly for assistance and warranty help. Do not return this product to store.

You must register online for your warranty to be valid. It only takes a minute, do it now while you still have your purchase receipt.

Register Your Product Online

[https://support.midlandpowerinc.com/
product-registrations/new](https://support.midlandpowerinc.com/product-registrations/new)



Support for your product is available online, including parts, service center locations, and live expert advice.

Visit us online at

www.midlandpowerinc.com



Or call us anytime at **1-877-528-3772**.

Thanks for choosing the RW Series!

You're excited to get started, we'll keep this brief.

READ THIS ENTIRE GUIDE BEFORE USING THIS PRODUCT AND SAVE FOR LATER USE.

This user guide contains important instructions including safety, setup, operation, and maintenance that must be followed. All information in this guide is based on information available at the time of print. This guide or revised editions can be found on our website for download. No part of this publication may be reproduced without written permission.



THIS PRODUCT MEETS ALL CERTIFICATION REQUIREMENTS FROM:





The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm.

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1. SAFETY

⚠ DANGER	
Using an engine indoors CAN KILL YOU IN MINUTES . Engine 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.
Avoid other engine hazards. READ MANUAL BEFORE USE.	

⚠ DANGER! ⚠

Using a engine indoors can kill you in minutes.

The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm.

1.1 OPERATOR SAFETY

⚠ WARNING!

- Always perform an oil, fuel and air filter check before starting the engine.
- Properly clean and maintain the equipment.
- Operate the lawn mower according to instructions for safe and dependable service.
- Before operating the lawn mower, read the user guide carefully. Otherwise, it may result in personal injuries or equipment damage.
- NEVER run the lawn mower in an enclosed area to avoid harm from exhaust emissions of a poisonous carbon monoxide gas.
- Be careful not to touch the exhaust system during operation due to risk of burns.
- Pay attention to the warning labels. The engine exhaust system will become heated during operation and remain hot immediately after the engine is stopped.
- Gasoline is a highly flammable and explosive liquid. Refuel in a well ventilated area with the engine stopped.
- Use of gasoline with an ethanol content greater than 10% can damage the engine and fuel system and will void the manufacturer's warranty.
- When refueling the lawn mower, keep it away from cigarettes, open

flames, smoke and/or sparks.

- Place the lawn mower at least 3 feet away from buildings or other equipment during operation.
- Run the lawn mower on a level surface. Tilting the lawn mower may result in fuel spills.
- Know how to stop the lawn mower quickly and understand operation of all the controls. NEVER permit anyone to operate the lawn mower without proper instructions.
- Keep children, pets and machinery with rotating parts away during operation.
- DO NOT operate the lawn mower in rain or snow.
- DO NOT operate the lawn mower if damaged. Have the machine repaired before use.
- DO NOT touch the spark plug while the engine is operating or shortly after the engine has been shut down.
- Wear ear and eye protection while operating this unit.

1.2 USE SAFETY

⚠ WARNING!

- DO NOT operate the lawn mower in a confined space where dangerous carbon monoxide fumes can collect.
- Refuel outdoors only and DO NOT smoke while refueling.
- NEVER remove the cap of the fuel tank or add gas while the engine is running or when the engine is hot.
- If gas is spilled, DO NOT attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until gas vapours have dissipated.
- Always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
- Mow only in daylight or in good artificial light.
- Avoid operating the equipment in wet grass, where feasible.
- Always be sure of your footing on slopes.
- Walk, NEVER run.
- Exercise extreme caution when changing direction on slopes.
- DO NOT mow excessively steep slopes.
- Use extreme caution when reversing or pulling the lawn mower towards you.

- Stop the blade(s) if the lawn mower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawn mower to and from the area to be mowed.
- NEVER operate the lawn mower with defective guards, or without safety devices, for example deflectors and/or grass catchers, in place.
- DO NOT change the engine governor settings or over speed the engine.
- Disengage all blade and drive clutches before starting the engine.
- Start the engine or switch on the motor carefully according to instructions and with feet well away from the blade(s).
- DO NOT tilt the lawn mower when starting the engine or switching on the motor, except if the lawn mower has to be tilted for starting. In this case, do not tilt it more than absolutely necessary and lift only the part which is away from the operator.
- DO NOT start the engine when standing in front of the discharge chute.
- DO NOT put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- NEVER pick up or carry a lawn mower while the engine is running.
- Stop the engine and disconnect the spark plug wire, make sure that all moving parts have come to a complete stop and, where a key is fitted remove the key.
- Before refueling.
- Before clearing blockages or unclogging chute.
- Before checking, cleaning or working on the lawn mower.
- After striking a foreign object. Inspect the lawn mower for damage and make repairs before restarting and operating the lawn mower.
- If lawn mower starts to vibrate abnormally, check immediately.
- Whenever you leave the lawn mower.

1.3 MAINTENANCE SAFETY

▲ WARNING!


- Turn off the engine before performing any maintenance. Failure to do so can cause severe personal injury or death.
- Use rubber gloves when coming into contact with engine oil.
- After any maintenance is performed, wash immediately using soap and clean water, repeated exposure to lubricant may cause skin irritation.
- DO NOT clean the filter element with flammable liquids like gasoline, an explosion may occur.
- Allow the lawn mower to cool down before performing any

maintenance.

- Always stop the lawn mower before removing the oil filler cap.
- To reduce the fire hazard, keep the engine, silencer, battery compartment and gasoline storage area free of grass, leaves, or excessive grease.
- Drain the fuel tank outdoors only.
- Check the grass catcher frequently for wear or deterioration.
- Only qualified maintenance personnel with knowledge of fuels and machinery hazards should perform maintenance procedures.
- See 'Maintenance Schedule' for the recommended maintenance schedule.

1.4 OTHER SAFETY TIPS

⚠ WARNING ⚠
AVERTISSEMENT



TOXIC FUMES HAZARD. Running engines give off carbon monoxide, an odourless poisonous gas that can cause nausea, fainting, or death. Do not start engine indoors or in an enclosed area, even if the windows and doors are open.

DANGER TOXIQUE. Faire fonctionner un moteur dégage de l'oxyde de carbone, un gaz inodore toxique qui peut provoquer la nausée, évanouissement ou la mort. Ne pas démarrer le moteur à l'intérieur ou dans une espace clos, meme si les fenêtres et les portes sont ouvertes.

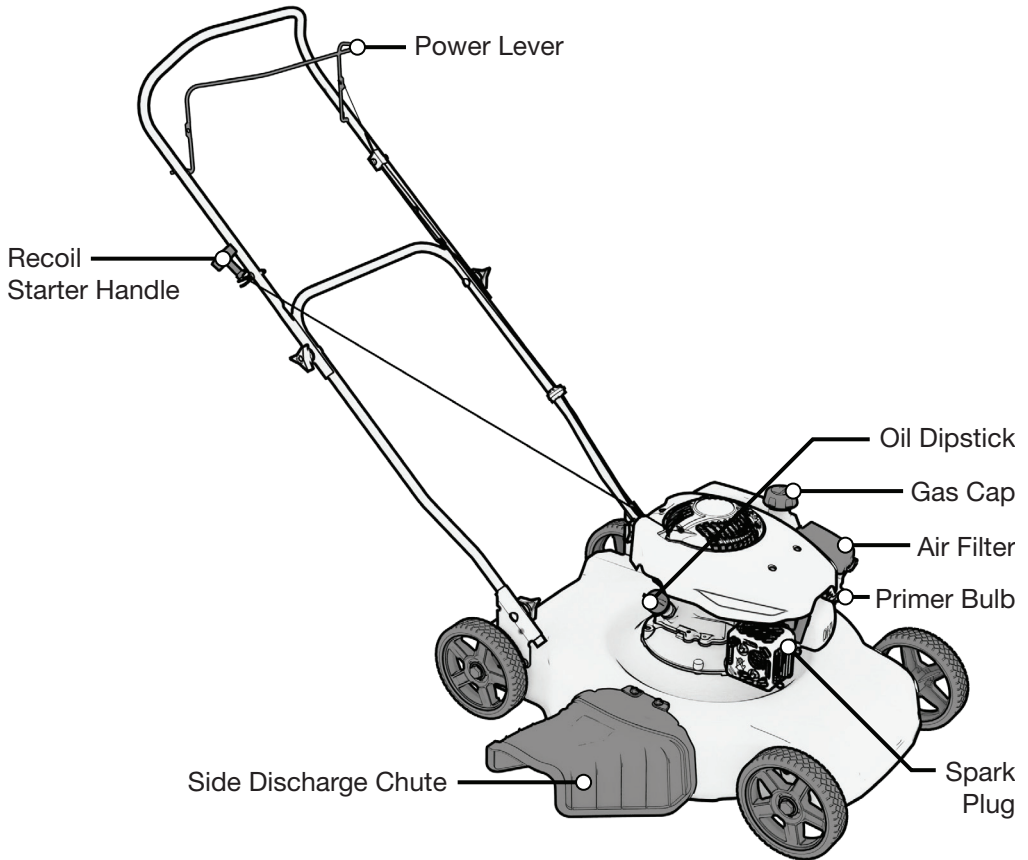
⚠ WARNING!

- Running engines give off carbon monoxide, an odourless poisonous gas that can cause nausea, fainting, or death. **DO NOT** start engine indoors or in an enclosed area even if the windows and doors are open.
- If you start to feel sick, dizzy, or weak after the engine has been running, move to fresh air **RIGHT AWAY**. See a doctor. You could have carbon monoxide poisoning.
- Lawn mowers vibrate in normal use. During and after the use of the lawn mower, inspect the product as well as extension cords and power supply cords connected to it for damage resulting from vibration. Have damaged items repaired or replaced as necessary. **DO NOT** use plugs or cords that show signs of damage such as broken or cracked insulation or damaged blades.

2. LEARN ABOUT YOUR LAWN MOWER

This section will show you how to identify key parts of your lawn mower. Going over the terminology below will make sure we're on the same page.

2.1 COMPONENT IDENTIFICATION



2.2 CONTROL FUNCTIONS

Power Lever

- Engage the power lever to recoil start and operate the lawn mower.
- Release the power lever and the engine will switch OFF.

Starter Handle

- Use the starter handle to recoil start the engine.

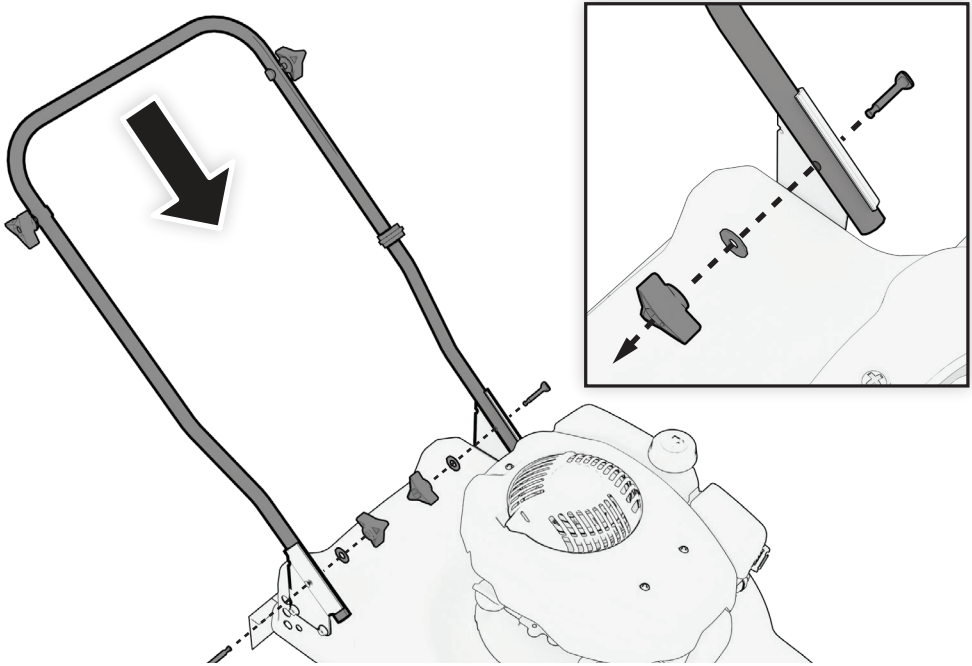
Primer Bulb

- Use the Primer Bulb alongside the Choke to start the lawn mower in cold weather.

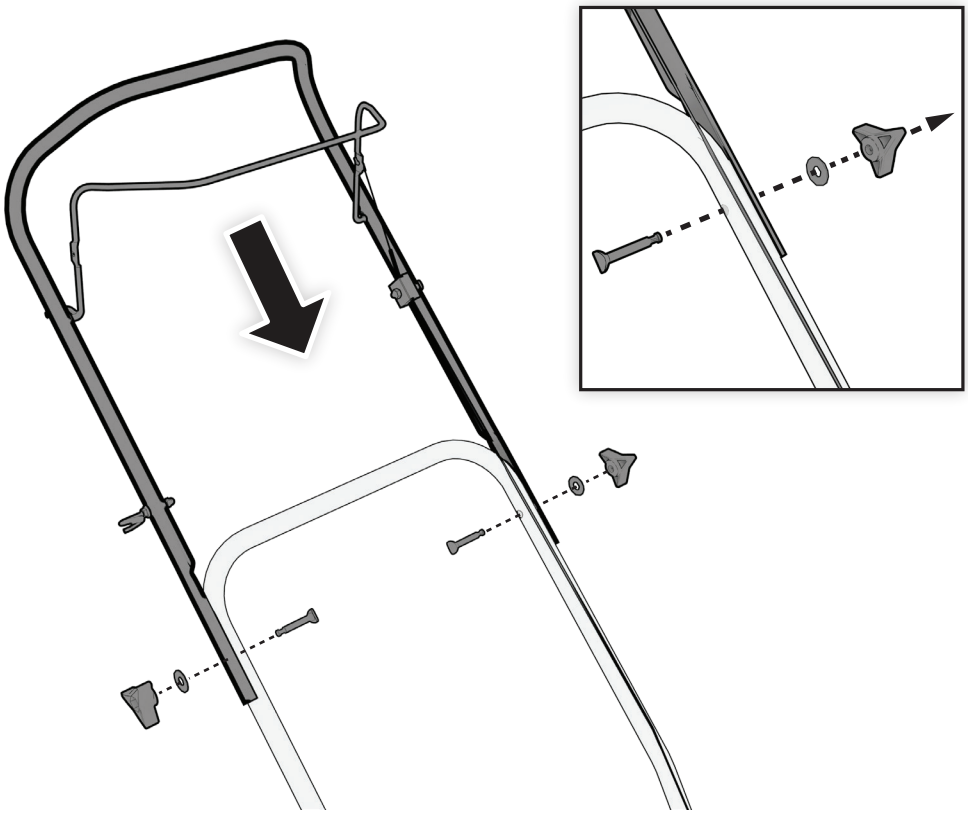
3. GETTING STARTED

Setup of your lawn mower is designed to get you up and running as quickly as possible. Cut the four corners of the carton from top to bottom instead of attempting to lift it out of the box.

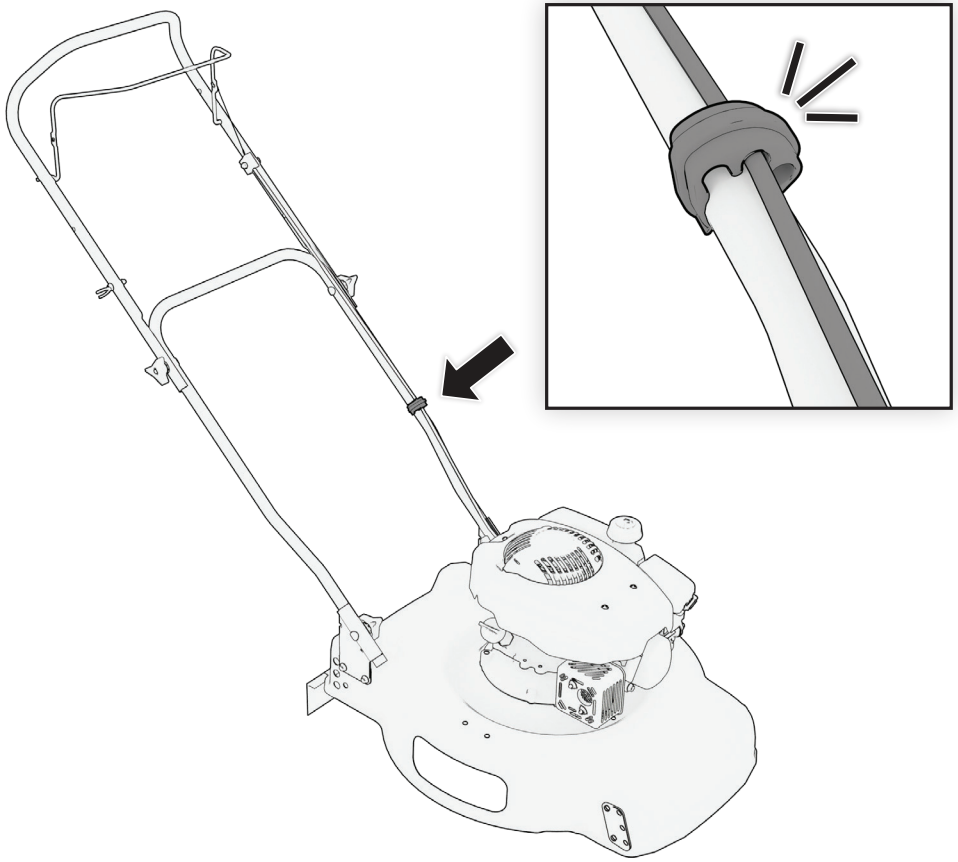
3.1 ASSEMBLING THE HANDLE



1. On each side of lower handle, insert the bolt and secure with saddle washer and handle knob.

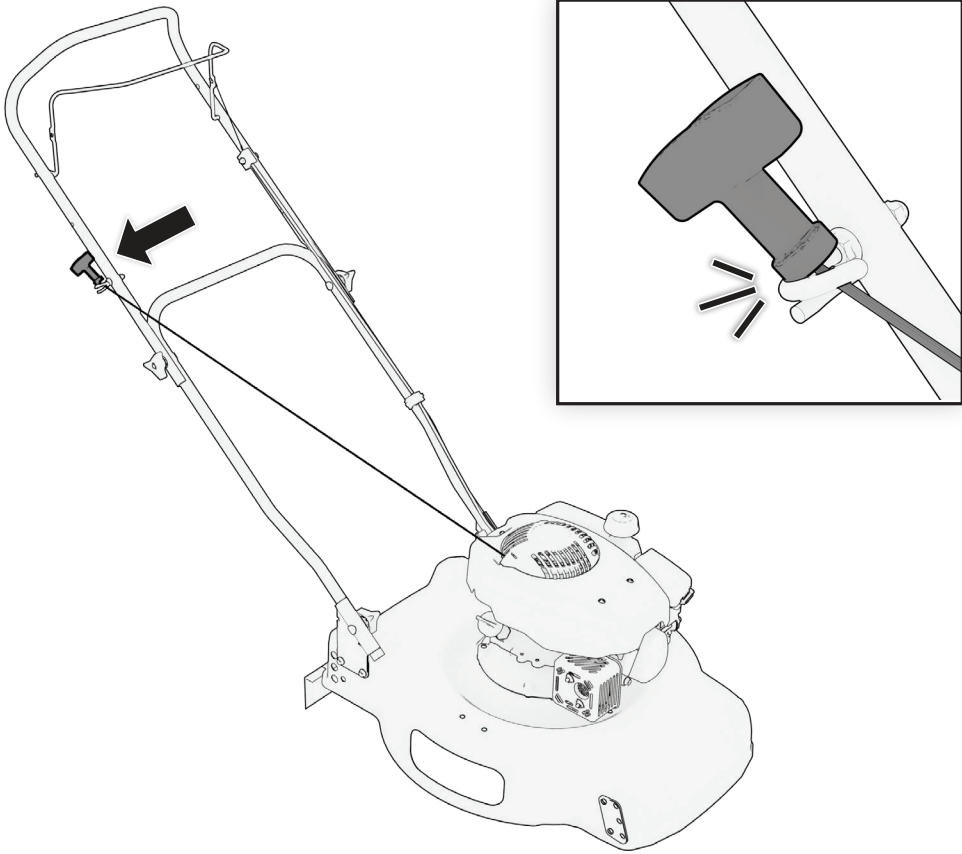


2. On each side of the upper handle, insert the bolt and secure with saddle washer and handle knob.



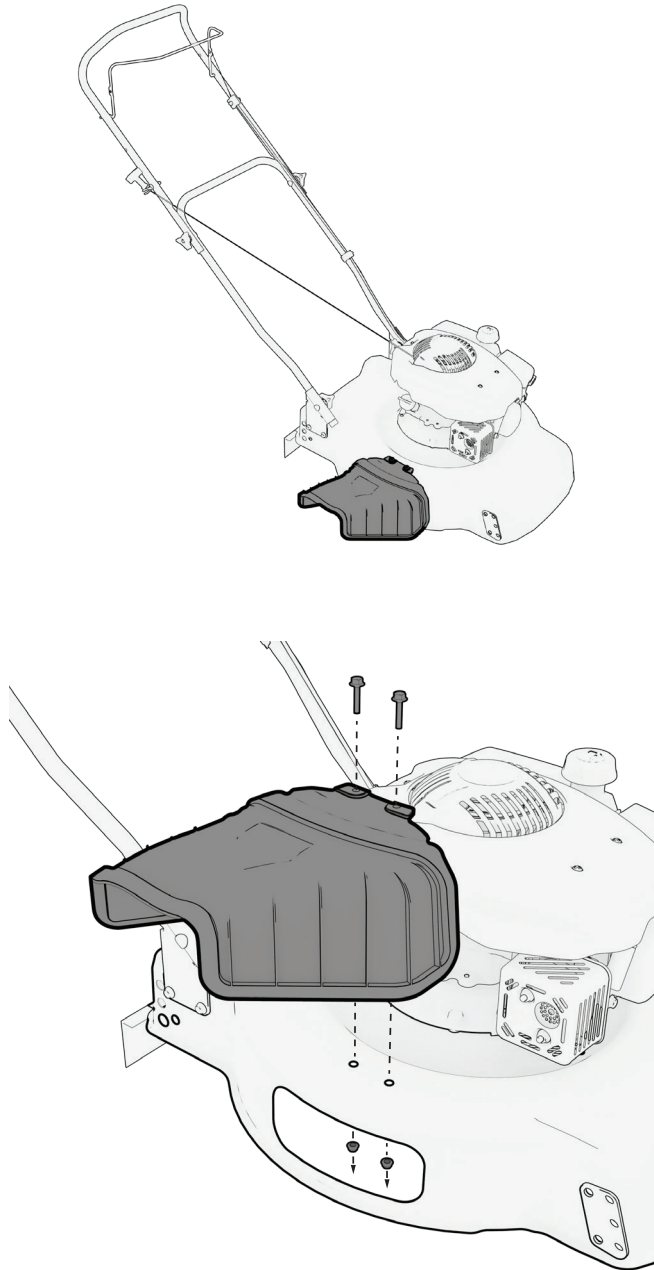
3. Ensure power lever cable is resting above lower and upper handles as pictured.

3.2 ASSEMBLING THE RECOIL HANDLE LOOP



(Optional) Fix the recoil handle connection cord with the recoil handle loop.

3.3 ASSEMBLING THE SIDE DISCHARGE CHUTE

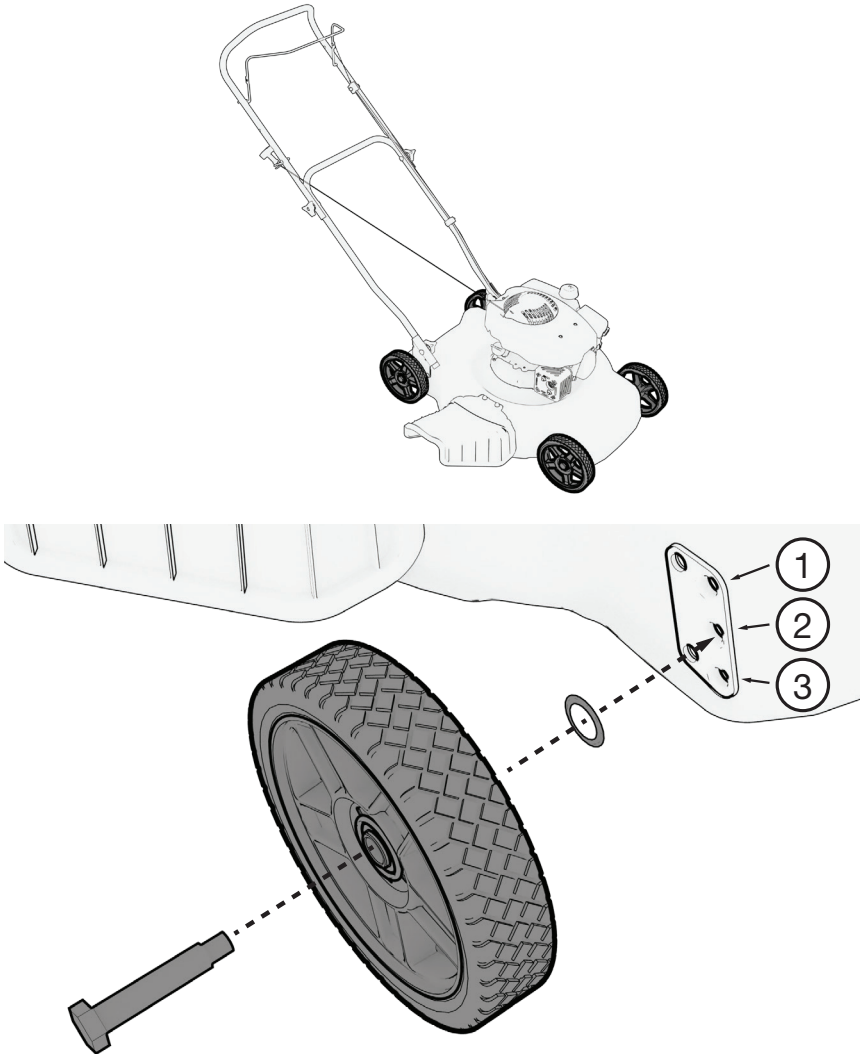


Install the Side Discharge Chute using (2x) M6x20 Bolts, and (2x) M6 Nuts.

3.4 ASSEMBLING THE WHEELS

NOTE

- When assembling the wheels, the cutting height is set by the wheel position.
- Position 1: Shortest Cutting Length
- Position 2: Medium Cutting Length
- Position 3: Longest Cutting Length



Slide wheels and washers into the desired position and secure with wheel bolts.

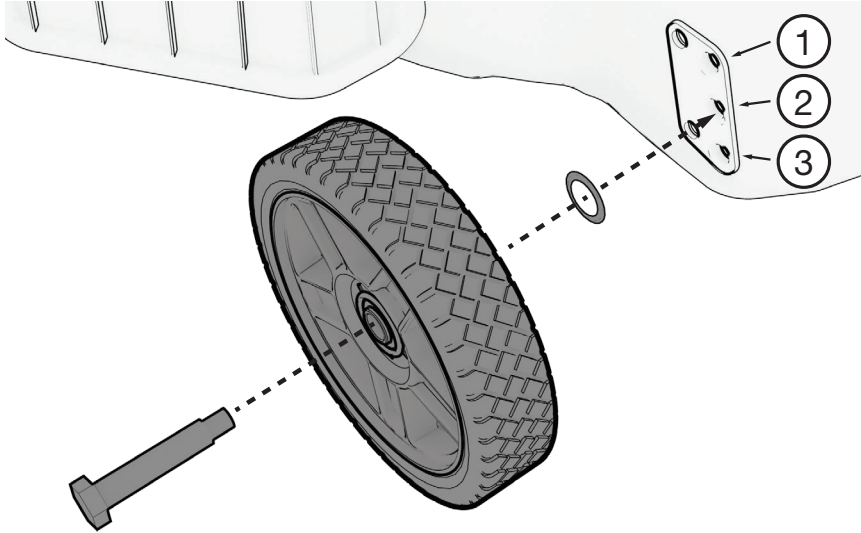
3.5 SETTING THE CUTTING HEIGHT

⚠ WARNING!

Adjust the cutting height only when the engine is switched off.

NOTE

- The cutting height is set by the wheel position.
- Position 1: Shortest Cutting Length
- Position 2: Medium Cutting Length
- Position 3: Longest Cutting Length



Slide wheels and washers into the desired position and secure with wheel bolts.

4. PRE-OPERATION CHECK

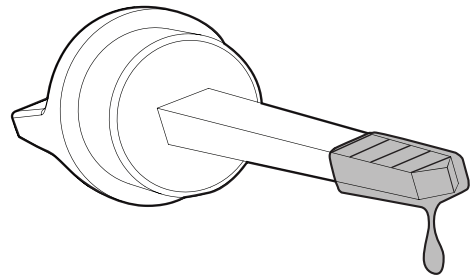
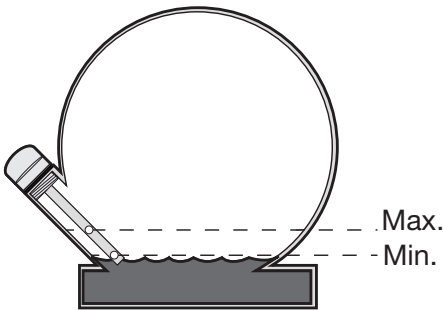
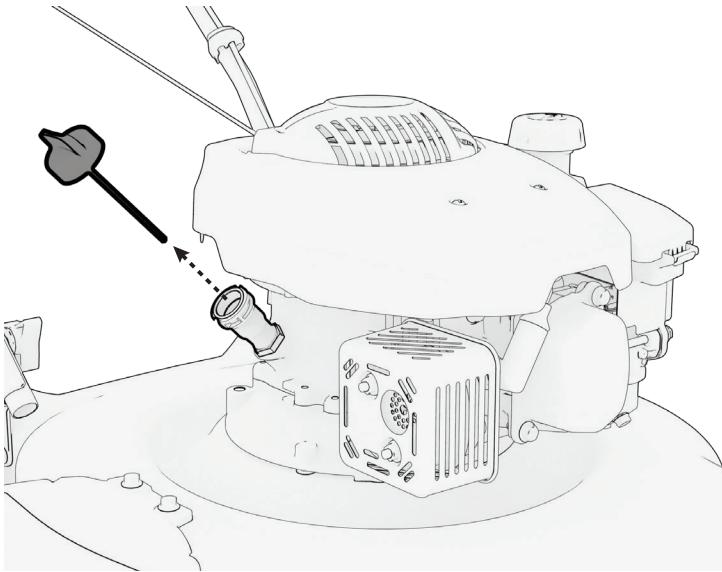
These quick checks should be done each time the lawn mower is started to ensure you get the most out of your lawn mower.

Set the lawn mower on a level surface and the power to OFF.

⚠ WARNING!

Exhaust gas contains poisonous carbon monoxide. NEVER run the lawn mower in an enclosed area. Be sure to provide adequate ventilation. Operate the lawn mower on a level surface. If the lawn mower is tilted, fuel spillage may result. Keep away from rotating parts while the lawn mower is running. The lawn mower is air-cooled and may be damaged if ventilation is inadequate.

4.1 CHECK OIL LEVEL

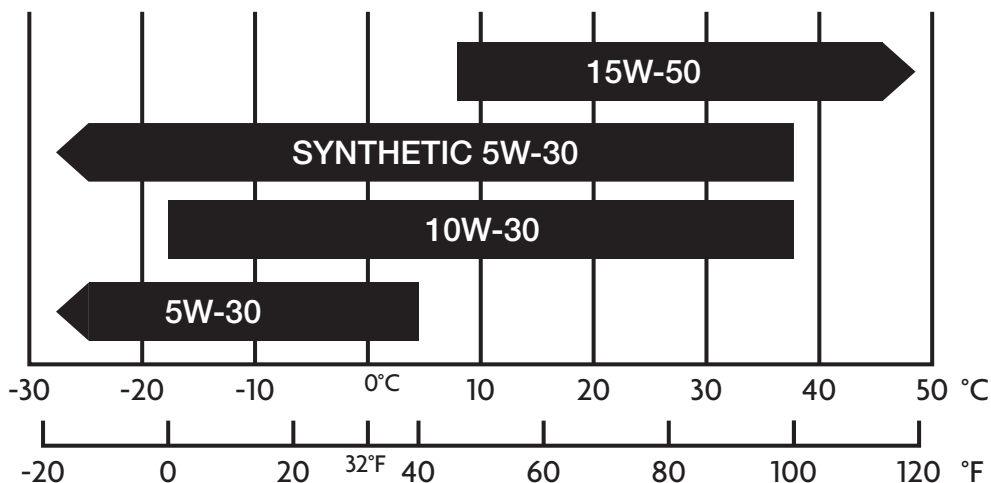


1. Ensure the lawn mower is on a level surface.
2. Unscrew and clean the dipstick.
3. Check the oil level by reinserting the oil dipstick without screwing it back in. Remove the dipstick and examine the oil level. If the level is at or below the minimum oil level marked on the dipstick, refill to the maximum oil level mark.
4. Reinsert the dipstick and tighten securely.

NOTE

- Oil max. capacity: 400 mL
- SAE10W-30 oil is recommended for general use.
- DO NOT OVERFILL.

EFFECTIVE VISCOSITY RANGE OF ENGINE OILS



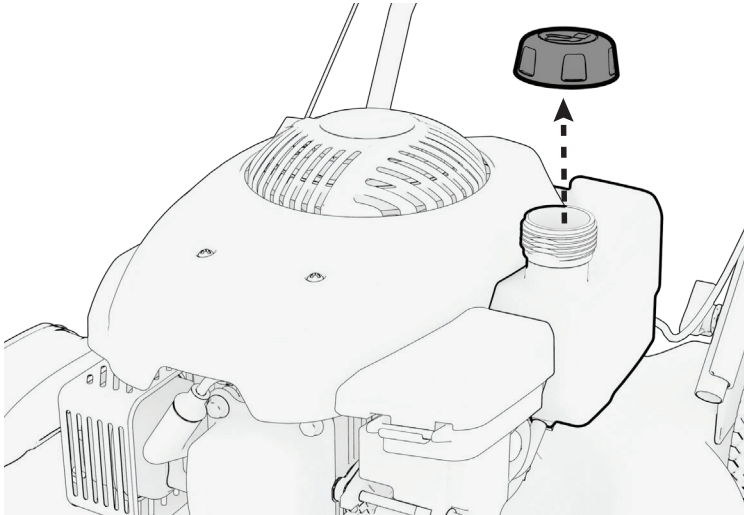
- DO NOT tilt the lawn mower when adding engine oil. This could result in overfilling and damage to the engine.
- Using non-detergent or 2-stroke oil could shorten the engine's working life.
- Use high quality engine oil with strong detergents.
- Handle and store the engine oil with care, avoid getting dirt or dust into the engine oil.
- DO NOT mix different engine oils.
- To avoid the inconvenience of unexpected engine shutoff, check the engine oil level as often as possible.
- Use 4-stroke engine oil, certified to meet or exceed API standard SG, SF, SAE ratings.

4.2 CHECK FUEL LEVEL

⚠ WARNING!

Gasoline is highly flammable and explosive under certain conditions. Refuel in a well-ventilated area with the engine stopped. DO NOT smoke or allow open flames or sparks in the area where the lawn mower is being refueled or where gasoline is stored. DO NOT overfill the tank. Be careful not to spill fuel when refueling. Wipe up any spilled gasoline and let the area dry before starting the engine.

Gasoline substitutes such as gasohol are not recommended. They may be harmful to the fuel system components.

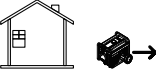


1. Check the fuel level by removing the fuel tank cap to visually check the level.
2. Add fuel carefully. DO NOT fill into the base of the fuel neck.
3. Tighten the fuel cap securely after refilling.

NOTE

- Fuel Max Capacity: 1 L / 0.26 Gal
- Only use unleaded gasoline (Pump Octane 87 or higher).
- NEVER use stale or contaminated gasoline, or an oil/gasoline mixture.
- Avoid getting dirt or water into the fuel tank.
- DO NOT use a mixture of gasoline containing methanol. This will cause serious damage to the engine.
- Use of gasoline with an ethanol content greater than 10% can damage the engine and fuel system and will void the manufacturer's warranty.

5. STARTING THE ENGINE

⚠ DANGER	
Using an engine indoors CAN KILL YOU IN MINUTES . Engine 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.
Avoid other engine hazards. READ MANUAL BEFORE USE.	

⚠ DANGER! ⚠

Using a lawn mower indoors WILL KILL YOU IN MINUTES.

Engine exhaust contains high levels of carbon monoxide (CO), a poisonous gas you cannot see or smell. If you can smell the engine exhaust you are breathing CO. Even if you cannot smell the exhaust, you could be breathing CO.

NEVER use a lawn mower inside a home, garage, crawlspace, or other partly enclosed area, deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors will NOT supply enough fresh air.

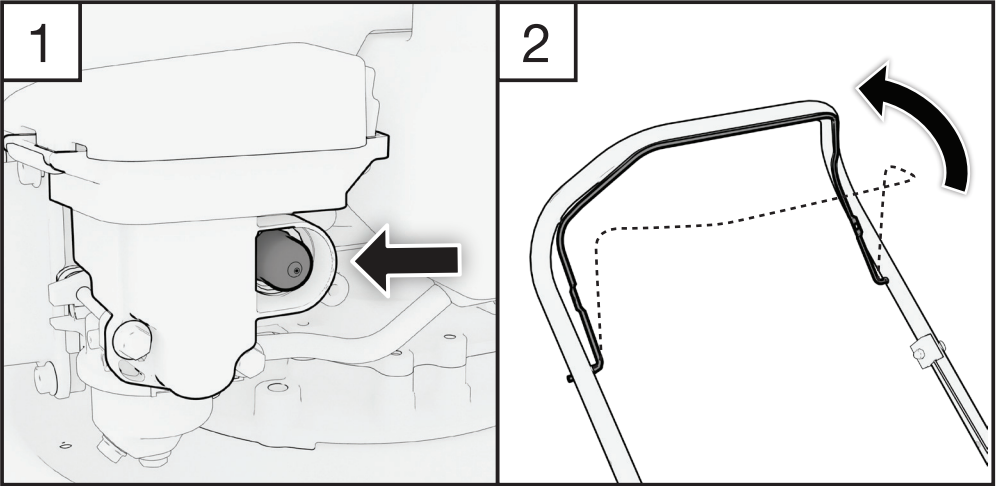
ONLY use a lawn mower outdoors and far away from open windows, doors, and vents. These openings can pull in lawn mower exhaust. Even when you use a lawn mower correctly, CO may leak into the home. ALWAYS use a CO alarm in your home.

If you start to feel sick, dizzy, or weak after the lawn mower has been running, move to fresh air RIGHT AWAY and seek medical attention. You could have carbon monoxide poisoning. NEVER run the lawn mower in an enclosed or even partially enclosed area where people may be present.

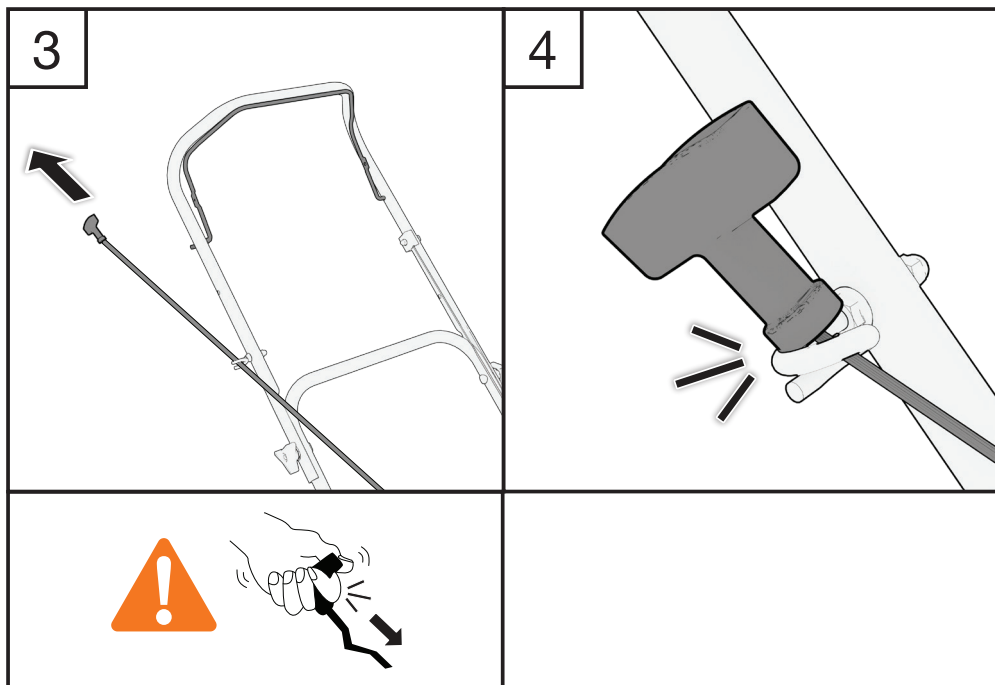
⚠ WARNING!

Ensure the lawn mower's blade is securely fastened before starting the engine. The blade will begin to rotate as soon as the engine is started.

When Recoil Starting an engine, the Engine may suddenly kickback and pull the Recoil Starter Handle away from you. Take care to ensure a proper grip on the handle, and be prepared to let go if the engine begins to kickback.



1. For a cold start, push the primer bulb 3 times.
2. Stand behind the mower and pull the power lever toward the handle grip with one hand.

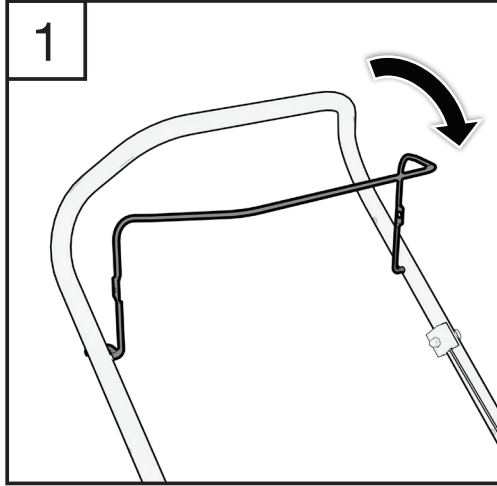


3. Place the other hand on the starter handle. Pull the starter handle until you feel resistance and then start the engine with a sharp pull.
4. Slowly return the recoil handle.

NOTE

- Return the recoil handle slowly by hand, DO NOT let it snap back.
- Before starting, ensure the spark plug cap is connected to the spark plug and the engine is filled with sufficient oil and gas

6. STOPPING THE ENGINE

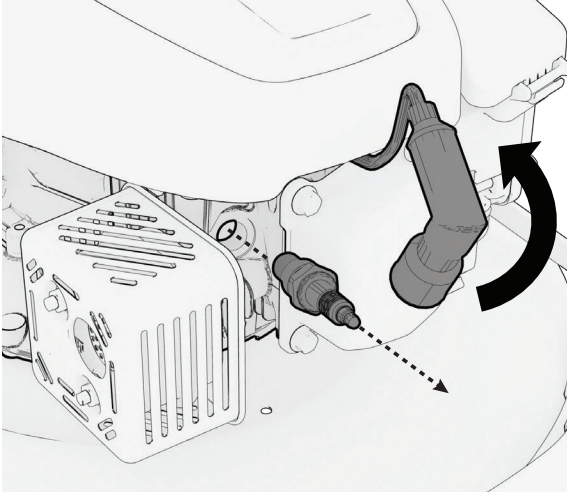


Release the power lever. It will return to its initial position and the engine will automatically switch off.

7. USING YOUR LAWN MOWER

7.1. CLEAN FLOODED ENGINE

If the engine won't start after you have operated the start procedure several times, the engine may be flooded with excess fuel. Use following steps to clear and start a flooded engine.



1. Release the power lever.
2. Remove the spark plug cap.
3. Remove the spark plug, dry it, and then reinstall it.
4. Operate the start procedure described in Section 5.

NOTE

- Install the spark plug carefully by hand, to avoid cross-threading. After the plug is seated tighten 1/8 to 1/4 turn with socket spanner of spark plug to compress the washer. Release the power lever.

7.2 MOWING TIPS

NOTE

- Walk, NEVER run with the mower, be very careful when mowing uneven or rough ground.
- Mow across slopes, NEVER up and down.
- Be careful when changing the direction of the mower on a slope.
- DO NOT mow excessively steep slopes.
- The best result will be achieved if the grass is dry. Wet grass will tend to clog the blade and the grass collection system.
- Grass grows at different rates at different time of the year. NEVER use the lowest cutting height for the first cut of the season or in drought conditions.
- Only about one thirds of the grass height should be cut.
- When mowing with mulching, to ensure that the cut grass can be scattered efficiently, DO NOT cut high or wet grass. When you have been cutting for several minutes, please stop the mower, and clean the blade and the deck.
- DO NOT remove grass debris in the mower casing or on the blade by hand or with your feet. Instead use suitable tools such as a brush or broom.

8. MAINTENANCE

Proper maintenance keeps your lawn mower in the best operating condition by ensuring safe, economical and trouble-free operation. Only use genuine parts and recommended fluids to replace the worn components. Improper maintenance may cause the lawn mower to malfunction and can lead to serious injury. Contact customer support if you have any maintenance questions.

General Inspection Tips

- Look for fuel leaks around the fuel tank and repair leaks immediately.
- Look and listen for exhaust leaks while the engine is running. Have all the leaks repaired before continuing operation.
- Check for dirt and debris and clean as necessary.
- Check the engine oil level and add oil as necessary.
- Always clean your lawn mower immediately after use.
- DO NOT allow grass cuttings and other debris to become dry and hard on any of the mower surfaces. Dried grass remnants and dirt may impair the mowing operation.
- Check that the grass chute is free of any residual grass.
- Tilt the lawn mower onto its left side (opposite the oil filler neck) to check the underside of the lawn mower and the blade mount.

8.1 MAINTENANCE SCHEDULE

Maintain the lawn mower according to the maintenance schedule in this section.

NOTE

- Service more frequently when used in dusty areas.
- These items should be serviced by an authorized service center, unless you have the proper tools and are mechanically proficient. Refer to manual for service procedures.

Before Each Use
General inspection Check engine oil level Inspect air filter
First 5 Hours
Change engine oil
Every 12 Hours
Check engine oil level Check and clean air filter ¹ Inspect/clean spark plug
Every 36 Hours
Check engine oil level Replace spark plug Replace air filter Inspect/replace blades ³
Every 300 Hours
Clean combustion chamber ³ Inspect/adjust valve clearance ³ Clean fuel tank and strainer Inspect/replace blades ³

¹ Replace if it cannot be adequately cleaned.

² Change oil after every 100 hours or yearly, whichever comes first. Service more frequently when operating under heavy load or in high temperatures.

³ Recommend service to be performed by authorized service dealer.

8.2 CHANGING THE ENGINE OIL

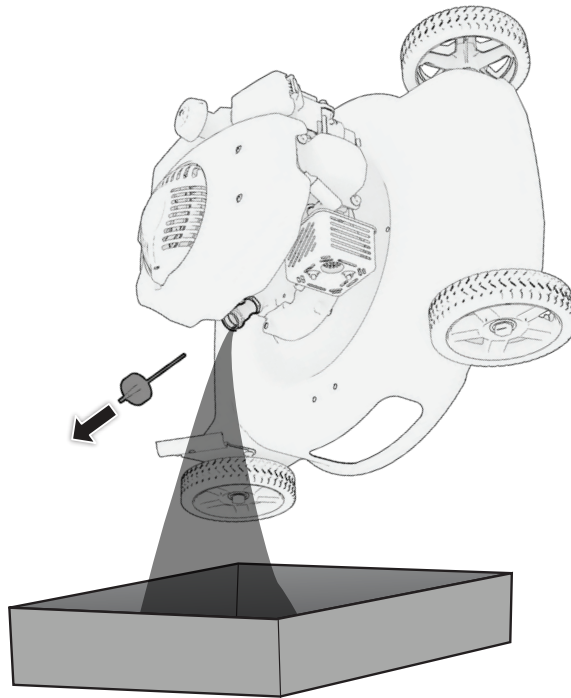
⚠ WARNING!

Used motor oil can cause skin irritations if left in long-term contact with skin. Thoroughly wash off used oil as soon as possible with soap and water.

DO NOT dispose of used oil in drains or on soil. Local service shops provide environmentally-friendly disposal methods.

Fully drain the fuel tank using a gasoline extraction pump before placing the lawn mower on its side.

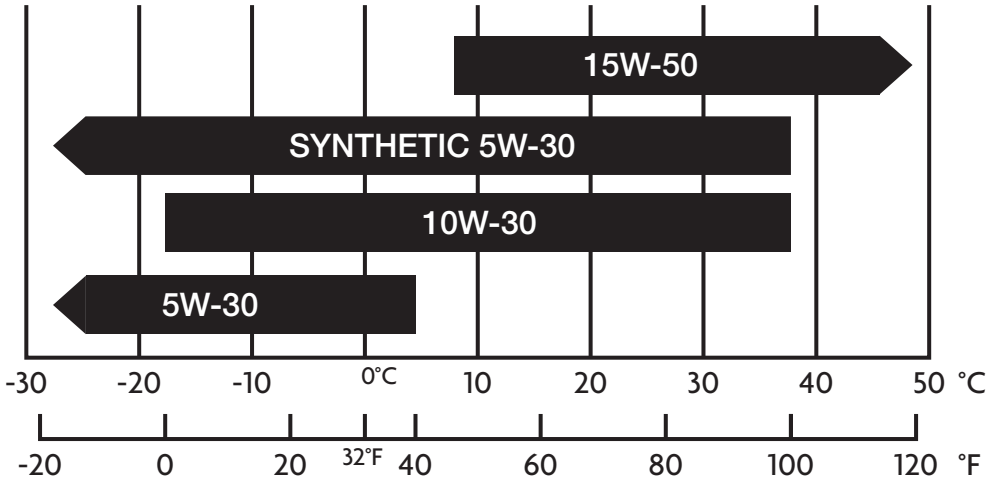
Drain the oil rapidly and completely on a level surface while the engine is still warm.



1. Tilt the lawn mower towards the oil drain pan, have a container ready to catch the oil and remove the dipstick.
2. Once the oil has been emptied, return the lawn mower to a level position and wipe clean any spillages.
3. Fill the engine with fresh oil (SAE 10W-30 4 Cycle Engine Oil) up to the maximum mark on the dipstick *without* threading it back in. **DO NOT** overfill oil reservoir. Use a funnel to prevent spillage.
4. Reinstall the oil dipstick and tighten.

NOTE

- Oil max. capacity: 400 mL
- SAE 10W-30 oil is recommended for general use.
- DO NOT OVERFILL.

EFFECTIVE VISCOCITY RANGE OF ENGINE OILS

- DO NOT tilt the lawn mower when adding engine oil. This could result in overfilling and damage to the engine.
- Using non-detergent or 2-stroke oil could shorten the engine's working life.
- Use high quality engine oil with strong detergents.
- Handle and store the engine oil with care, avoid getting dirt or dust into the engine oil.
- DO NOT mix different engine oils.
- To avoid the inconvenience of unexpected engine shutoff, check the engine oil level as often as possible.
- Use 4-stroke engine oil, certified to meet or exceed API standard SG, SF, SAE ratings.

8.3 CLEANING THE AIR-FILTER

⚠ WARNING!

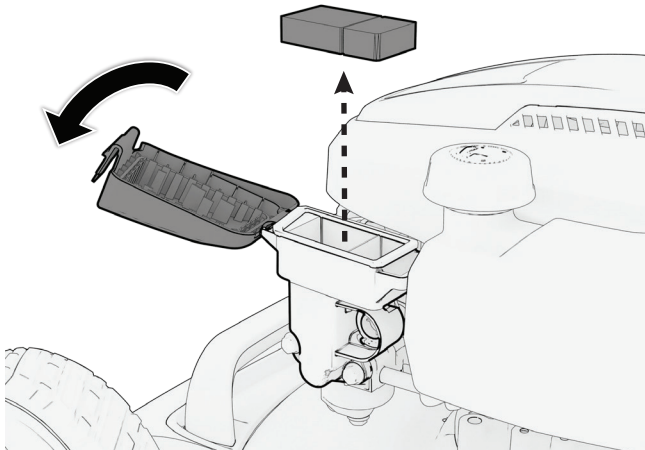
Using gasoline or other flammable solvents can cause fire or explosion. DO NOT operate this product without an air filter.

DO NOT use pressurized air or solvents to clean the filter. Pressurized air can damage the filter and solvents will dissolve the filter.

A dirty air filter will restrict air flow into the carburetor. Clean and maintain the air filter regularly, especially in dusty areas.

NOTE

- NEVER run the lawn mower without an air filter, doing so will quickly degrade the engine.



1. Loosen the nut and remove the air filter cover. Remove the air filter housing and elements and inspect for cleanliness.
2. Clean the *foam* air filter with soap and water and let dry.
3. Soak the *foam* filter in clean engine oil.
4. Gently squeeze and then pat out all excess oil and reinstall.
5. Replace filter if it is damaged.

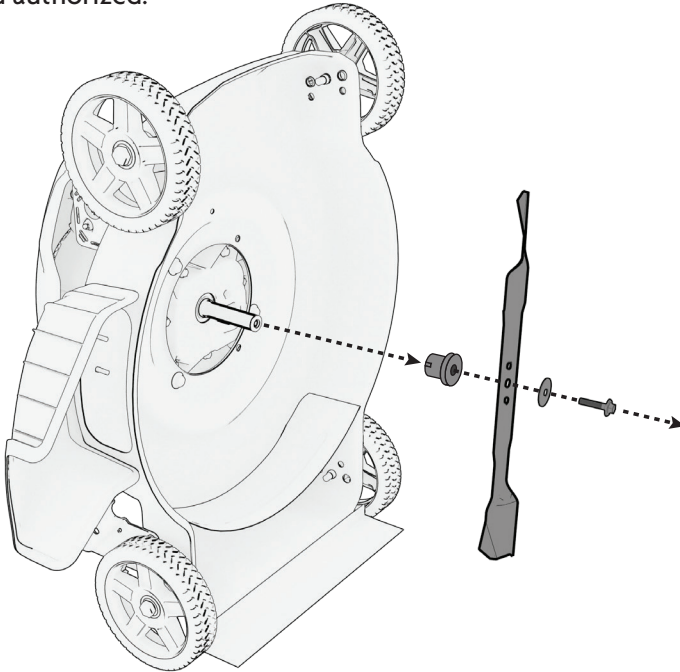
8.4 REPLACING THE BLADE

⚠ WARNING!

Used motor oil can cause skin irritations if left in long-term contact with skin. Thoroughly wash off used oil as soon as possible with soap and water.

Always use gloves and handle the blade with care, sharp edges could cause injury. DO NOT hold the blade by hand directly. If the blade has worn excessively and become pitted and blunt, it should be replaced or sharpened. The sharpness of the blade will affect the performance of the lawn mower. Replace any cracked or damaged blade immediately.

For safety reasons we recommend that the blade only be changed by someone qualified and authorized.



1. Stop the engine and wait until the blade stops completely.
2. Hold the blade and unscrew the blade bolt counterclockwise using a 17mm spanner wrench (not included).
3. Remove the washer and the blade.
4. Fit a new blade or re-sharpen the blade, locate the blade on the two studs on the blade flange and then replace the washer and bolts.
5. Make sure the blade is correctly located, and then firmly tighten the bolt. DO NOT over tighten. The up turn of the blade must project into the motor compartment.

8.5 SPARK PLUG SERVICE

NOTE

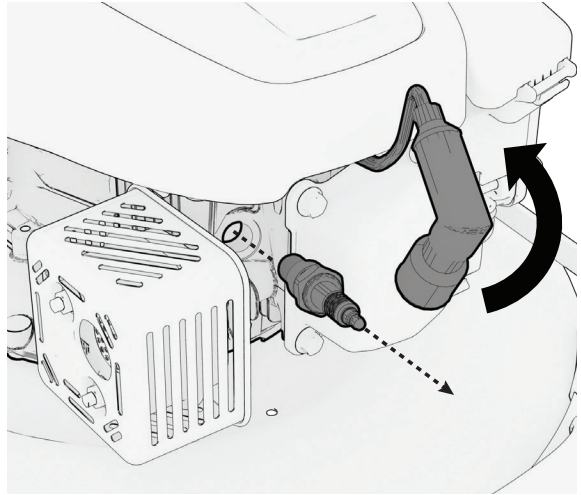
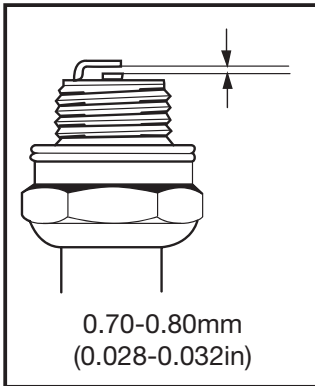
- DO NOT rinse spark plug in water. Follow guidelines and be careful not to overtighten the spark plug.

Recommended spark plug: **F6RTC**

Check the spark plug gap and clean the carbon deposits at the bottom of the spark plug.

Tighten 1/2 turn when installing a new spark plug.

Tighten 1/8 TO 1/4 turn when re-installing an old spark plug.

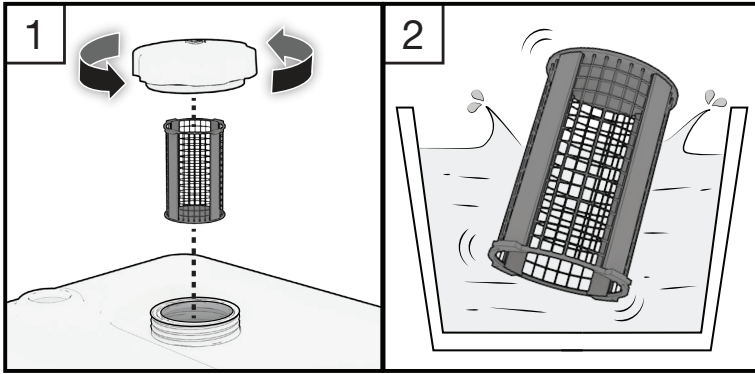


1. Remove the spark plug cap.
2. Remove the spark plug with the spark plug wrench.
3. Visually inspect the spark plug. Replace with a new plug if the insulation is cracked or chipped. Clean with a wire brush if the spark plug is reused.
4. Measure the spark plug gap with a feeler gauge. The normal value is: 0.75 mm (0.029 in). Adjust the gap by carefully bending the electrode.
5. Carefully reinstall the spark plug by hand, to avoid cross-threading. A new spark plug should be tightened 1/2 turn with a spanner. A used spark plug should be tightened 1/8 to 1/4 turn with spanner.
6. Reinstall the spark plug cap.

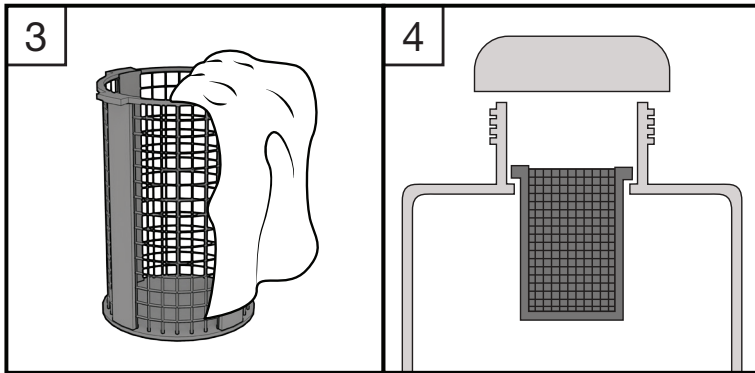
NOTE

- The spark plug must be securely tightened or it could cause the spark plug to heat up, enough to damage the engine.
- NEVER use a spark plug with an improper heat range.

8.6 FUEL FILTER MAINTENANCE



1. Remove the fuel cap and filter.
2. Clean the filter with solvent.



3. Wipe the filter.
4. Reinsert the filter.

8.7 EMISSION CONTROL SYSTEM

Emission Source

Exhaust gas contains carbon monoxide, nitrogen oxides (NO_x) and hydrocarbons. It is very important to control the emissions of NO_x and hydrocarbons as they are a major contributor to air pollution. Carbon monoxide is a poisonous gas. The emission of fuel vapors is a source of pollution as well. The lawn mower engine utilizes a precise air-fuel ratio and emission control system to reduce the emissions of carbon monoxide, NO_x, hydrocarbons and evaporative fuel emissions.

Regulation

Your engine has been designed to meet current Environmental Protection Agency (EPA) clean air standards. The regulations dictate that the manufacturer provides operation and maintenance standards regarding the emission control systems. Tune up specifications are provided in the Specifications section and a description of the emission control system may be found in the appendix to this manual. Adherence to the following instruction will ensure your engine meets the emission control standards.

Modification

Modification of the emission control system may lead to increased emissions. Modification is defined as the following:

- Disassembling or modifying the function or parts of the intake, fuel or exhaust system.
- Modifying or destroying the speed governing function of the lawn mower.

Engine faults that may affect emission

Any of the following faults must be repaired immediately. Consult with your authorized service centre for diagnosis and repair:

- Hard starting or shut down after starting.
- Unstable idle speed.
- Shut down or backfire after applying an electrical load.
- Backfire or after fire.
- Black smoke and/or excessive fuel consumption.

Replacement parts and accessories

The parts making up the emission control system in your product's engine have been specifically approved and certified by the regulatory agencies. You can trust that the replacement parts supplied by customer service have been manufactured to the same production standard as the original parts. The use of replacement parts or accessories which are not designed for your engine – may negatively affect the engine emission performance. Therefore only use replacements parts and accessories from a qualified service centre to guarantee that the replacement products will not adversely affect emission performance. Replacement parts other than those from an authorized service centre will void the warranty.

8.8 CARBURETOR MODIFICATION FOR HIGH ALTITUDE OPERATION (ABOVE 2,000 FEET)

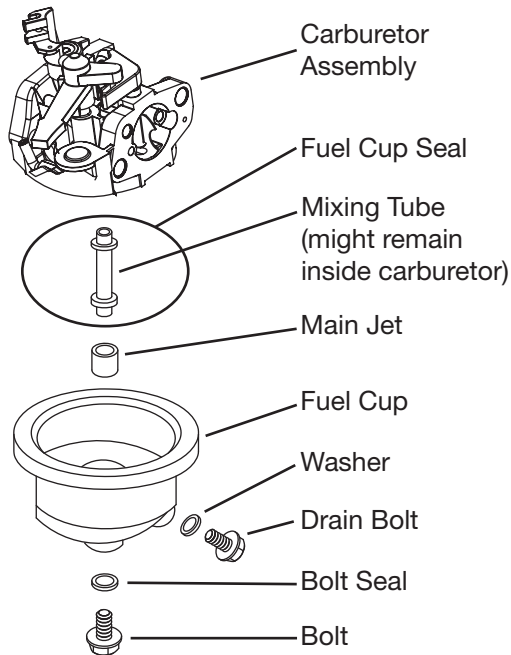
NOTE

- This engine is equipped to run at altitudes below 2,000-ft.
- A high-altitude Main Jet is recommended when operated at 2,000 to 7,000-ft above sea level.
- At elevations above 7,000-ft the engine may experience decreased performance even with a high-altitude Main Jet.

At high altitudes the carburetor's air/fuel mixture becomes too rich, resulting in higher fuel consumption, lower performance, and carbon build-up on the spark plug. On the other hand, if the carburetor has been modified for high altitude operation and is operated below 2000-ft, the air/fuel mixture will then be too lean for low altitude use. Always use the correct Main Jet for your altitude.

The engine's carburetor, governor (if so equipped), and any other parts that control the air/fuel ratio will need to be adjusted by a qualified mechanic to allow efficient high-altitude use, and to prevent damage to the engine and any other devices used with this product. The fuel system on this engine may be influenced by operation at higher altitudes.

- Carburetor bowl may have gas in it which will leak upon removing the bolt.
- The mixing tube is held in place by the Main Jet and might fall out when it is removed. If it falls out, replace it in the same orientation before replacing the Main Jet.
- The Fuel Cup Seal and Bolt Seal may be damaged during removal and should be replaced with the new ones.



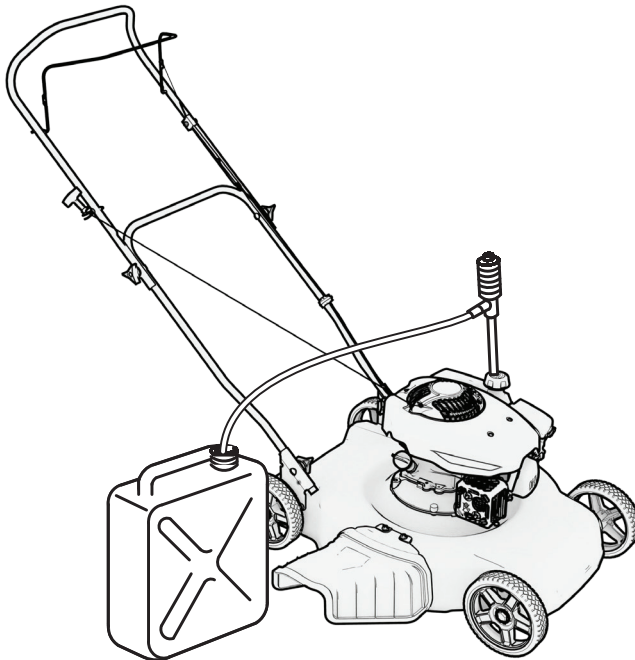
1. Turn off the engine.
2. Close the fuel valve.
3. Place a bowl under the fuel cup to catch any spilled fuel.
4. Unthread the bolt holding the fuel cup.
5. Remove the bolt, Bolt Seal, fuel cup, Fuel Cup Seal and Main Jet from the body of the carburetor assembly. A carburetor screwdriver (not included) is needed to remove and install the Main Jet.
6. Replace the Main Jet with the replacement Main Jet needed for your altitude range.
7. Replace the Fuel Cup Seal, fuel cup, Bolt Seal, and bolt. Tighten in place. DO NOT cross thread bolt when tightening. Finger tighten first and then use a wrench to make sure the bolt is properly threaded.
8. Wipe up any spilled fuel and allow excess to evaporate before starting engine. To prevent FIRE, DO NOT start the engine while the smell of fuel hangs in the air.

9. TRANSPORTATION & STORAGE

Transporting the Lawn Mower

- DO NOT use the lawn mower in the vehicle. The mower should ONLY be used while in a well ventilated area.
- Avoid exposing the lawn mower to prolonged direct sunlight while in an enclosed vehicle. The high temperature inside the vehicle could cause fuel to vaporize resulting in a possible explosion.
- Drain the lawn mower of fuel and oil before being transported on rough roads.
- Empty the gasoline tank
- Remove the spark plug cap from the spark plug.
- Clean the lawn mower from debris.
- Use the original packaging to ship whenever possible.

Draining the Fuel Tank



1. Turn OFF the engine. Remove the fuel cap.
2. Empty the fuel tank using a siphon and an approved gasoline container.
3. Loosen the carburetor drain bolt to discharge all gasoline from inside of the carburetor.

Storage

Gasoline can oxidize in as little as 30 days, causing gum and varnish to build up in fuel system components.

NOTE

- Ensure that the storage area is free of excess humidity and dust.
- Drain the fuel tank and the carburetor.
- Clean the lawn mower from debris.

Storage Duration	Preparation Required
Less than 1 Month	<ul style="list-style-type: none">■ No storage preparation required, simply store as is.
1 Month to 1 Year	<ul style="list-style-type: none">■ Drain the old gas and completely fill the tank with fresh gas before storage. Add fuel stabilizer according to the manufacturer's directions. Adding a quality fuel stabilizer can keep gas fresh for up to a year.■ Remove the battery and charge it every 3 months.
1 Year or More	<ul style="list-style-type: none">■ Drain off the gasoline from the fuel tank, and store in a suitable container. This will help prevent deposits from forming in the fuel system.■ Turn the fuel switch to OPEN and loosen the carburetor drain bolt. Take off the spark plug cap and revolve the engine 3 or 4 times, by pulling the recoil handle, to fully discharge the gasoline from the fuel lines.■ Change oil while engine is still warm from operation.■ Remove the spark plug, and pour a tablespoon of clean engine oil (10-20ml) into the cylinder. Revolve the engine several times by pulling on the recoil start to distribute the oil. Reinstall the spark plug. Pull the starter grip slowly until you feel resistance. At this point, the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. This position helps to protect the engine from internal corrosion.

10. TROUBLESHOOTING

Problem	Look for	Solution
Loud while running, machine vibrates heavily.	Screws are loose	Check screws.
	Blade fasteners are loose.	Check blade fasteners.
	Blade is unbalanced.	Replace blade.
Engine does not start.	Start/stop lever not pressed.	Press start/stop lever.
	Spark plug is defective.	Replace spark plug.
	Is the cutting blade worn or damaged?	Contact an authorized dealer to replace it.
	Fuel tank is empty.	Refill with fuel.
	Engine may be flooded.	Remove plug and dry.
Engine runs unsteadily.	Air filter is soiled.	Clean the air filter.
	Spark plug is soiled.	Clean the spark plug.
Uneven mowing results.	Blade is blunt.	Sharpen the blade.
	Cutting height is too low.	Set correct height.

11. TECHNICAL SPECIFICATIONS

	SPECIFICATIONS	5124-069
LAWN MOWER	Functions	Side
	Deck Width	21 in
	Cutting Width	20 in
	Min.Cutting Height	1 in (25 mm)
	Max.Cutting Height	3 in (75 mm)
	Deck Height Adjust	3-position
	Blade	Straight
	Number of Blades	1
	Grass catcher	None
	Front / Rear wheel	7/7 in
ENGINE	Type	3.4 HP, Single Cylinder, forced air cooling, 4-stroke, OHV
	Displacement	150cc
	RPM	2800
	Oil capacity	400 mL / 14 oz. (10W30)
	Fuel tank capacity	1 L / 0.26 Gal
	Fuel Type	Unleaded gasoline 87+ Octane
UNIT	L x W x H	55.3 x 27 x 47.2 in
	Gross Weight	52.8 lbs / 24 kg

12. LIMITED WARRANTY

This product is distributed by:

Midland Power Inc.

376 Magnetic Drive, Toronto, ON M3J 2C4, Canada

Warranty

Beginning at the time of retail purchase and for the duration of the warranty period Midland Power Inc. (Midland) warrants that Equipment manufactured by it is warranted to be free from defects in material and workmanship. Midland will, at its sole discretion, replace or repair any part(s) which, upon evaluation and testing by Midland or an authorized service center, show a defect in workmanship or material. Valid proof of purchase must be submitted online for registration with Midland, or presented to Midland at time of claim, for warranty to be valid. This warranty is not transferable from the original owner.

Limited Warranty Period:

Non-commercial use:

- Year 1 - Parts and Labour
- Year 2 and 3 - Parts

Commercial use:

- First 6 Months - Parts and Labour

Commercial use includes utilization of the purchased product for a business or non-profit organization, or to financially benefit an individual. This includes, but is not limited to, usage in the context of a financial transaction, usage on commercial or non-profit property, or usage for advertising or marketing purposes.

Replacement parts sold to a consumer or installed by an authorized service center are warranted for a period of 90 days from date of purchase. Labour must be performed by an authorized service center unless given Midland's prior written approval. Midland will not bear any transportation or shipping fees to or from an authorized service center. Service calls, travel charges, overtime, or weekend rates, are not covered.

This warranty does NOT cover:

- d. Any repairs required as a result of any parts not supplied by Midland, and this part is responsible for the failure or malfunction;
- e. Any Equipment modified, altered, disassembled or remodelled;
- f. Any repairs required as a result of a failure to install, maintain, store,

transport, or operate the Equipment in accordance with standard practices set out in the user guide;

- g. Damage that occurred after receipt of equipment, not caused by defects in workmanship or material;
- h. Normal maintenance services, as outlined in the user guide and intended for a consumer to perform;
- i. Replacement of parts made in connection with normal maintenance services including oils, adhesives, additives, fuel, filters, brushes, belts, lubricants, spark plugs, gaskets, seals, fasteners, wires, tubes, pipes, fittings, wheels, batteries, and other expendables susceptible to natural wear;
- j. Any accessory or attachment.

Any battery supplied with this Equipment is considered a consumable item and is excluded from this warranty. Batteries can be damaged by shock, shorting terminals, heat, acid spillage, neglect, and other factors. It is the customer's responsibility to take great care when handling a battery so no spillage of acid occurs which may cause corrosion.

Midland disclaims any responsibility for loss of time or use of the product, transportation, or towing costs or any other indirect, incidental, or consequential damage, inconvenience or commercial loss.

This warranty is the entire and only warranty given by Midland for Midland products or equipment. No agent or employee is authorized to extend or enlarge this warranty on behalf of Midland by any written or verbal statement or advertisement.

California

The California Air Resources Board and Midland Power Inc. are pleased to explain the emission control system warranty on your Midland Power Inc. engine. In California, new spark-ignited small off-road equipment engines must be designed, built, and equipped to meet the State's stringent anti-smog standards.

Other States, U.S. territories, and Canada

In other areas of the United States and in Canada, your engine must be designed, built, and equipped to meet the U.S. EPA and Environment Canada emission standards for spark-ignited engines at or below 19 kilowatts.

All of the United States and Canada

Midland Power Inc. must warrant the emission control system on your power equipment engine for the period of time listed below, provided there has been no abuse, neglect, or improper maintenance of your power equipment engine. Where a warrantable condition exists, Midland Power Inc. will repair your power equipment

engine at no cost to you including diagnosis, parts, and labor.

Your emission control system may include such parts as the carburetor or fuel injection system, the ignition system, and catalytic converter. Also included may be hoses, connectors, and other emission-related assemblies.

Emission Control System Warranty Parts:

This list applies to parts supplied by Midland Power Inc. and does not cover parts supplied by the equipment manufacturer. Please see the original equipment manufacturer's emissions warranty for non-Midland Power Inc. parts.

Consumable parts are covered up to a maximum of 30 days.

SYSTEMS COVERED IN WARRANTY	PARTS DESCRIPTION
Fuel Metering	Carburetor assembly (includes starting enrichment system), Engine temperature sensor, Engine control module, Fuel regulator, Intake manifold
Evaporative	Fuel Tank, Fuel Cap, Fuel Hoses, Vapor Hoses, Carbon Canister, Canister Mounting Brackets, Fuel Strainer, Fuel cock, Fuel Pump, Fuel Hose Joint, Canister Purge Hose Joint
Exhaust	Catalyst, Exhaust Manifold
Air Induction	Air filter housing, Air filter element
Ignition	Flywheel magneto, Ignition pulse generator, Crankshaft position sensor, Power coil, Ignition coil assembly, Ignition control module, Spark plug cap, Spark plug
Crankcase Emission Control	Crankcase breather tube, Oil filler cap
Miscellaneous Parts	Tubing, fittings, seals, gaskets, and clamps associated with these listed systems

Enjoy!

Be sure to check radley.midlandpowerinc.com for updates regarding your product.





Customer Service

Online: www.midlandpowerinc.com

Toll Free: 1-877-528-3772

Radley