WARNING:
To reduce the risk of injury, the user must read and understand the Operator’s Manual. Save this manual.

STOP
If you have questions concerning your blower, please call us at 1-866-574-9242 (US) or 1-866-574-9243 (Canada).

English (EN), French (FR), and Spanish (ES)
READ THIS INFORMATION

Before you use your new Powervac™, read the following helpful hints to get you started.

Fueling

**WARNING:**
Gasoline and its vapors are highly flammable and explosive. To prevent serious personal injury and property damage, handle it with care. Keep away from ignition sources and open flames, handle outdoors only, do not smoke and wipe up spills immediately.

1. Obtain a clean container that is approved for use with gasoline.
2. Mix all of the 2-cycle oil provided with 1 US gallon of 87-octane, unleaded gasoline (50:1).
3. Fill the blower’s fuel tank carefully.

**Cold Starting vs. Warm Starting**

When you restart the blower and you are not sure whether the engine is still warm, set the choke lever to **RUN**, lock the throttle wide open, and pull the recoil starter grip. If the engine does not start within 5 pulls, refer to “To Start a Cold Engine” later in this manual.

**Flooded Engine**

If the engine does not start, it may be flooded. Relax, this is easy to correct. Set the choke lever to **RUN**. Lock the throttle wide open and pull the recoil starter grip quickly for 10 to 12 pulls. If the engine still does not start, refer to “Troubleshooting” later in this manual.

For questions concerning your blower, call us toll free at 1-866-574-9242 (US) or 1-866-574-9243 (Canada).

California Proposition 65

**WARNING:** This product, its exhaust, and other substances that may become airborne from its use may contain chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. *Wash hands after handling.*
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</table>
Thank you for purchasing a Toro product.

We would like for you to be completely satisfied with your new product, so feel free to contact an authorized service dealer for help with service, genuine Toro parts, or other information you may require.

Whenever you contact an authorized service dealer, always know the model and serial numbers of the product. These numbers will help the service representative provide exact information about your specific product. You will find the model and serial number data label located on the bottom of the housing.

For your convenience, write the product model and serial numbers in the space below.

<table>
<thead>
<tr>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial No.</td>
</tr>
</tbody>
</table>

Read this manual carefully to learn how to operate and maintain your product correctly. Reading this manual will help you and others avoid personal injury and damage to the product. Although Toro designs, produces, and markets safe, state-of-the-art products, you are responsible for using the product properly and safely. You are also responsible for training persons you allow to use the product about safe operation.

The Toro warning system in this manual identifies potential hazards and has special safety messages that help you and others avoid personal injury, even death. DANGER, WARNING, and CAUTION are signal words that identify the level of hazard. However, regardless of the hazard, be extremely careful. Two other words, “Important” and “Note,” highlight information.
GENERAL SAFETY RULES

**WARNING:**
*Read and understand all instructions.* Failure to follow all instructions listed below may result in electric shock, fire and/or carbon monoxide poisoning which will cause death or serious personal injury.

- Do not allow children or untrained individuals to use this unit.
- Never start or run the engine inside a closed area; breathing exhaust fumes can kill.
- Always wear eye protection with side shields marked to comply with ANSI Z87.1, along with hearing protection. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.
- Keep all bystanders, children, and pets at least 50 feet away.
- Wear heavy long pants, long sleeves, boots, and gloves. Do not wear loose-fitting clothing, short pants, sandals, jewelry of any kind, or go barefoot.
- To reduce the risk of injury associated with objects being drawn into rotating parts, do not wear loose clothing, scarves, neck chains, and the like. Secure long hair so it is above shoulder level to prevent entanglement in any rotating parts.
- Do not operate this unit when you are tired, ill, or under the influence of alcohol, drugs, or medication.
- Do not operate in poor lighting.
- Keep all parts of your body away from any moving parts and all hot surfaces of the unit.
- Wear a face filter mask in dusty conditions to reduce the risk of injury associated with the inhalation of dust.
- Check the work area before each use. Remove all objects such as rocks, broken glass, nails, wire, or string which can be thrown or become entangled in the machine.
- Keep firm footing and balance. Do not overreach. Overreaching can result in loss of balance or exposure to hot surfaces.
- Never operate the unit without a spark arrestor screen; this screen is located inside the muffler.
- Product users on United States Forest Service land, and in some states, must comply with fire prevention regulations. This product is equipped with a spark arrestor; however, other user requirements may apply. Check with the federal, state, or local authorities in your area.
- Before storing, allow the engine to cool.
- Use only Toro replacement parts and accessories. Failure to do so may cause poor performance or possible injury.
- Maintain the unit per maintenance instructions in this operator’s manual.
- Inspect the unit before each use for loose fasteners, fuel leaks, etc. Replace damaged parts.
- Do not use on a ladder, rooftop, tree, or other unstable support. Stable footing on a solid surface enables better control of the Powervac™ in unexpected situations.

**Service**

- Before cleaning, repairing, or inspecting, shut off the engine and make certain all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent starting.
- Service on the Powervac™ must be performed by qualified repair personnel only. Service or maintenance performed by unqualified personnel could result in injury to the user or damage to the product.
- Use only identical replacement parts when servicing the Powervac™. Use of unauthorized parts may create a risk of serious injury to the user, or damage to the product.
SPECIFIC SAFETY RULES

- Always hold the blower in your right hand during blower operation. Refer to the OPERATION instructions later in this manual for proper position during vacuum operation and additional information.
- To reduce the risk of hearing loss associated with sound level(s), hearing protection is required.
- To reduce the risk of injury associated with contacting rotating parts, stop the engine before installing or removing attachments. Always disconnect the spark plug before performing maintenance or accessing any movable parts.
- Do not point the blower nozzle in the direction of people or pets.
- Never run the unit as a blower without the blower tubes installed.
- Never place objects inside the blower tubes.
- Use only as directed in this operator’s manual.
- Do not operate vacuum without vacuum bag installed; flying debris could cause serious injury. Always close vacuum bag completely before operating.
- Rotating impeller blades can cause severe injury. Stop the engine and ensure impeller blades have stopped rotating before opening the vacuum door or installing/ changing tubes. Do not put hands or any other object into the vacuum tubes while they are installed on the unit.
- Never run the unit without the proper equipment attached. When used as a blower, always install the blower tubes. When used as a vacuum, always install the vacuum tubes and vacuum bag. Make sure the vacuum bag is completely zipped when the unit is running to avoid flying debris.
- Avoid situations that could catch the vacuum bag on fire. Do not operate near an open flame. Do not vacuum warm ash from fireplaces, barbecue pits, brush piles, etc. Do not vacuum discarded cigars or cigarettes unless the cinders are completely cool.
- This product is intended for infrequent use by homeowners and other occasional users for such general applications as blowing leaves and lawn clippings, etc. It is not intended for prolonged use. Prolonged periods of operation can cause circulatory problems in the user’s hands due to vibration. For such use, it may be appropriate to use a product having an anti-vibration feature.

Fueling

- Fuel is highly flammable. Take precautions when using to reduce the chance of serious personal injury.
- Store fuel in a cool, well-ventilated area, safely away from spark and/or flame-producing equipment.
- Store fuel in containers specifically designed for this purpose.
- Only refuel outdoors and do not smoke while refueling.
- Add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot.
- Do not smoke while handling fuel.
- Mix and store fuel in a container approved for gasoline.
- Mix fuel outdoors where there are no sparks or flames.
- Loosen fuel cap slowly to release pressure and to keep fuel from escaping around the cap.
- Tighten the fuel cap securely after refueling.
- Wipe spilled fuel from the unit. Move 30 feet away from refueling site before starting engine.
- Never attempt to burn off spilled fuel under any circumstances.
- To reduce the risk of fire and burn injury, handle fuel with care. It is highly flammable.
- If fuel 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 fuel vapors have dissipated.
- Replace all fuel tank and container caps securely.
- Empty fuel tank into a container approved for gasoline and restrain the unit from moving before transporting in a vehicle.
- When draining the fuel tank, use an approved fuel storage container in a well-ventilated area.
- Select bare ground, stop engine, and allow to cool before refueling.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also.
The following signal words and meanings are intended to explain the levels of risk associated with this product.

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>SIGNAL</th>
<th>MEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>DANGER:</td>
<td>Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.</td>
</tr>
<tr>
<td>!</td>
<td>WARNING:</td>
<td>Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.</td>
</tr>
<tr>
<td>!</td>
<td>CAUTION:</td>
<td>Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.</td>
</tr>
<tr>
<td>!</td>
<td>CAUTION:</td>
<td>(Without Safety Alert Symbol) Indicates a situation that may result in property damage.</td>
</tr>
</tbody>
</table>

Some of the following symbols may be used on this product. Please study them and learn their meaning for safe operation of this product.

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>NAME</th>
<th>EXPLANATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>Safety Alert Symbol</td>
<td>Indicates a potential personal injury hazard.</td>
</tr>
<tr>
<td>!</td>
<td>Read Operator’s Manual</td>
<td>To reduce the risk of injury, user must read and understand operator’s manual before using this product.</td>
</tr>
<tr>
<td>!</td>
<td>Wear Eye and Hearing Protection</td>
<td>Always wear eye protection with side shields marked to comply with ANSI Z87.1 as well as hearing protection when operating this equipment.</td>
</tr>
<tr>
<td>!</td>
<td>Vacuum Door</td>
<td>Do not run unit while vacuum door is unsecured.</td>
</tr>
<tr>
<td>!</td>
<td>Long Hair</td>
<td>Risk of long hair being drawn into air inlet.</td>
</tr>
<tr>
<td>!</td>
<td>Blower Tubes</td>
<td>Do not run unit without tubes in place.</td>
</tr>
<tr>
<td>!</td>
<td>Loose Clothing</td>
<td>Risk of loose clothing being drawn into air intake.</td>
</tr>
<tr>
<td>!</td>
<td>Gasoline and Lubricant</td>
<td>Use unleaded gasoline intended for motor vehicle use with an octane rating of 87 ( [(R + M) / 2] ) or higher. This product is powered by a 2-cycle engine and requires pre-mixing gasoline and 2-cycle lubricant.</td>
</tr>
<tr>
<td>!</td>
<td>Stop symbol</td>
<td>To stop the engine, press and hold the stop switch in the stop position</td>
</tr>
</tbody>
</table>
Product labels and instructions are easily visible to the operator and are located near any area of potential danger. Replace damaged or lost labels.
FEATURES

Product Specifications

<table>
<thead>
<tr>
<th>Name</th>
<th>Specification</th>
</tr>
</thead>
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<tr>
<td>Weight</td>
<td>9.7 lbs (4.4 kg)</td>
</tr>
<tr>
<td>Engine</td>
<td>25.4 cc Full Crank</td>
</tr>
<tr>
<td>Air Velocity</td>
<td></td>
</tr>
<tr>
<td>MPH</td>
<td>Up to 160 (257.5 kph)</td>
</tr>
<tr>
<td>CFM</td>
<td>Up to 420 (11.89 m³/min)</td>
</tr>
</tbody>
</table>

Figure 1

- Raised Slot
- Vacuum Bag
- Shoulder Strap
- Throttle Lock
- Main Housing
- Lower Vacuum Tube
- Vacuum Tube Screw
- Upper Vacuum Tube
- Vacuum Bag
- Spark Plug
- Throttle Trigger
- Choke Lever
- Upper Handle
- Starter Grip and Rope
- Air Filter Cover Knob
- Primer Bulb
- Vacuum Handle
- Fuel Cap

Features
**FEATURES**

![Diagram of blower/vacuum](image)

**Know Your Blower/Vacuum**

*See Figures 1 - 2.*

The safe use of this product requires an understanding of the information on the tool and in this operator’s manual as well as a knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

**Blower Tube and Nozzle**
The blower tubes can be assembled and installed on the main housing using no tools.

**Throttle Lock**
The throttle lock feature allows the user to operate the blower without holding the throttle trigger. To slow the engine speed, simply push the throttle lock forward.

**Engine**
The blower has a powerful 25.4cc engine with sufficient power to handle tough blowing and vacuuming jobs.

**Mulcher**
The blower is equipped with a metal mulching blade that efficiently reduces leaves at a 10:1 ratio.

**Sweeper Nozzle**
The sweeper nozzle allows for more area to be covered during blower operation.

**Throttle Trigger**
The blower can be operated at any speed between idle and full throttle.

**Vacuum/Mulcher**
Converting the blower to a vacuum/mulcher is simple and can be done using a straight screwdriver.

**Vacuum Bag**
The vacuum bag attaches to the main housing easily by using the vacuum bag adaptor.

**Vacuum Handle**
This feature allows user to perform vacuuming duties comfortably.

**Vacuum Tubes**
The vacuum tubes can be installed on the main housing using a flat head screw driver.

**TOOLS NEEDED**

The following tool (not included or drawn to scale) is needed for assembly:

![Straight Screwdriver](image)
Unpacking
This product requires assembly.
- Carefully remove the product and any accessories from the box. Make sure that all items listed in the packing list are included.

**WARNING:**
Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

- Inspect the product carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the product.
- If any parts are damaged or missing, please call 1-866-574-9242 (US) or 1-866-574-9243 (Canada) for assistance.

Packing List
Blower
Grounding Wire
Upper Blower Tube
Sweeper Nozzle
Vacuum Handle
Vacuum Handle Knobs (2)
Upper and Lower Vacuum Tubes
Vacuum Tube Screws (2)
Vacuum Bag Assembly
Vacuum Bag Adaptor
2-Cycle Engine Lubricant
Operator’s Manual

*Note:* Read and remove all hang tags and store with your operator’s manual.

**WARNING:**
If any parts are damaged or missing do not operate this product until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.

Assembling the Blower Tubes
See Figure 3.

1. Align raised tabs on main housing to the slots on upper tube; slide together and tighten securely by twisting. Check tightness after initial run and retighten if needed.
2. Secure the sweeper nozzle and upper blower tube together by aligning the raised locking tab on the upper blower tube with the raised slot on the sweeper nozzle.
3. To disassemble, rotate the tube and nozzle to unlock them and remove from the main housing outlet.

Figure 3

![Diagram of assembly process](image-url)
Grounding instructions
See Figure 4.
A grounding wire is provided to help prevent static shock when using the vacuum in low humidity conditions.

Installing the Vacuum Bag
See Figures 5 - 6.
1. Remove the sweeper nozzle and upper blower tube from the main housing by twisting and removing from main housing outlet.
2. Unzip the vacuum bag and place the adaptor inside as shown. Push the vacuum bag adaptor through the opening opposite the zipper. The wider end of the adaptor will remain on the inside of the vacuum bag when installed properly.
3. Align the raised slots on the vacuum bag adaptor with the raised locking tabs on the main housing outlet; push the bag adaptor onto the housing. Twist to lock into place.
4. Rotate the vacuum bag until the shoulder strap is upright.
5. Make sure the vacuum bag is zipped and closed before starting the unit.
**Installing the Vacuum Tubes**

*See Figures 7 - 8.*

**WARNING:**
Rotating impeller blades can cause severe injury. Always stop the engine and ensure impeller blades have stopped rotating before opening the vacuum door or installing/changing tubes. Do not put hands or any other object into the vacuum tubes while they are installed on the unit.

To install the vacuum tubes:

1. Secure the upper and lower vacuum tubes together by aligning the raised locking tabs with the raised slots.
2. Tap tube assembly on ground until the screw holes in lower tube are in the raised slot of the upper tube. Secure with supplied screws. *See figure 1.*
3. Depress door tab using a straight screwdriver and open vacuum inlet door.
4. Align screw mounts on vacuum opening with screws on vacuum tube assembly.
5. Turning clockwise, tighten screws on upper vacuum tube to secure to main housing.

To remove the vacuum tubes:

1. Loosen screws of the upper vacuum tube by turning counterclockwise.
2. Remove the vacuum tube assembly from the main housing.
3. Close the inlet cover door securely.
**Operation**

**WARNING:**
Do not allow familiarity with tools to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

**WARNING:**
Always wear eye protection with side shields marked to comply with ANSI Z87.1, along with hearing protection. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.

**WARNING:**
Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

**Applications**
You may use this tool for the purposes listed below:
- Clear leaves and other debris from your lawn
- Keep decks and driveways free from leaves and pine needles

**Fueling and Refueling**

**WARNING:**
Gasoline is extremely flammable and explosive. A fire or explosion from gasoline will burn you and others. Always shut off engine before fueling. Never add fuel to a machine with a running or hot engine. Move at least 30 ft. from refueling site before starting engine. Do not smoke and stay away from open flames and sparks. Failure to safely handle fuel could result in serious personal injury.

**Fuel Mixture**
This product is powered by a 2-cycle engine and requires pre-mixing gasoline and 2-cycle lubricant. Pre-mix unleaded gasoline and 2-cycle engine lubricant in a clean container approved for gasoline. DO NOT mix quantities larger than usable in a 30-day period.

Recommended fuel: This engine is certified to operate on unleaded gasoline intended for automotive use.

**Note:** We recommend you use PowerCare 2-cycle lubricant (6.4 oz. or 16 oz.) or an equivalent high-quality synthetic 2-cycle lubricant in this product. Mix at 2.6 oz. per gallon (US).

Do not use automotive lubricant or 2-cycle outboard lubricant.

<table>
<thead>
<tr>
<th>HIGH QUALITY 2-CYCLE ENGINE LUBRICANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>GASOLINE</td>
</tr>
<tr>
<td>1.0 gal. (US) (3.8 liter)</td>
</tr>
<tr>
<td>2.5 gal. (US) (9.5 liter)</td>
</tr>
</tbody>
</table>

**Filling the Tank**
1. Clean the surface around the fuel cap to prevent contamination.
2. Loosen the fuel cap slowly, by turning it counterclockwise.
3. Pour the fuel mixture carefully into the tank.
4. Clean and inspect the fuel cap gasket before replacing the fuel cap.
5. Replace the fuel cap and tighten it by turning it clockwise.
6. Wipe spilled fuel from the product.
7. Move at least 30 ft. (9 m) away from refueling area before starting the product.

**Note:** It is normal for smoke to be emitted from a new engine during first use.

**WARNING:**
Check for fuel leaks. A leaking fuel cap is a fire hazard and must be replaced immediately. If you find any leaks, correct the problem before using the product. Failure to do so could result in a fire that could cause serious personal injury.

**Oxygenated Fuels**
DO NOT USE E85 FUEL. IT WILL VOID YOUR WARRANTY.

**Note:** Fuel system damage or performance problems resulting from the use of an oxygenated fuel containing more than the percentages of oxygenates stated below are not covered under warranty.

Ethanol. Gasoline containing up to 10% ethanol by volume (commonly referred to as E10) is acceptable. E85 is not.

**Starting and Stopping**
*See Figures 9 - 10.*

**To start a cold engine:**
DO NOT squeeze the throttle trigger until the engine starts and runs.
1. Set the Powervac™ on a flat, bare surface.
2. Slowly press the primer bulb 8 times.

**Note:** After the 8th press, fuel should be visible in the primer bulb. If it is not, continue to press the primer until you see fuel in the bulb.
3. Place the choke lever in the **FULL CHOKE** position.
4. Pull throttle lock back to lock the throttle wide open.
5. Pull the starter grip and rope sharply until engine attempts to run. Do not pull the starter grip more than four (4) times.
6. Set the choke lever in the **HALF CHOKE** position.
7. Pull the starter grip and rope until the engine runs. Do not pull the starter grip more than six (6) times.  
   **Note:** If the engine does not start, return to the **FULL CHOKE** position and repeat steps 3 through 6 again.
8. Allow the engine to run for 20 seconds, then place the choke lever in the **RUN** position.  
   **Note:** In cooler environments, additional pulls of the starter handle may be required with the choke lever in the **FULL CHOKE** position.

**To start warm engine:**
1. Place the choke lever in the **RUN** position.
2. Pull throttle lock back to lock the throttle wide open.
3. Pull the starter grip and rope until the engine runs.  
   **Note:** If the engine does not start, repeat steps 3 through 7 again.

**To stop the engine:**
1. Press and hold the stop switch in the stop (O) position until the engine stops.

---

**Operating the Blower**

*See Figures 11 - 12.*

**WARNING:** Never run the unit without the blower tubes installed or the vacuum door securely closed. Failure to follow these steps could result in possible serious injuries.

**WARNING:** Always wear eye protection with side shields marked to comply with ANSI Z87.1, along with hearing protection. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.

1. Start the blower. Refer to Starting and Stopping earlier in this manual. Hold the blower with the upper handle in your right hand.

**WARNING:** Keep away from the muffler and all other hot surfaces of the blower. Failure to do so could result in possible serious personal injury.

2. To keep from scattering debris, blow around the outer edges of a debris pile. Never blow directly into the center of a pile.
3. Operate power equipment at reasonable hours only - not early in the morning or late at night when people might be disturbed. Comply with the times listed in local ordinances.

4. To reduce sound levels, limit the number of pieces of equipment used at any one time.

5. Conserve water by using power blowers instead of hoses for many lawn and garden applications, including areas such as gutters, screens, patios, grills, porches, and gardens.

6. Operate blower at the lowest possible throttle speed to do the job.

7. Check your equipment before operation, especially the muffler, air intakes, and air filters.

8. Use rakes and brooms to loosen debris before blowing.

9. In dusty conditions, slightly dampen surfaces when water is available.

10. Watch out for children, pets, open windows, or freshly washed cars, and blow debris safely away.

11. Use the sweeper nozzle so the air stream can work close to the ground.

12. After using blowers or other equipment, CLEAN UP! Dispose of debris properly.

13. Use the sweeper nozzle for the everyday blowing operation. This nozzle allows for more area to be covered during the blowing operation.

**Proper Operating Position**

**Throttle Lock**

*See Figure 13*

The throttle lock can be used to operate the blower without holding the throttle trigger.

**To engage the throttle lock:**

1. Pull throttle lock back towards user, and stop at the desired throttle setting.
2. To release the throttle lock, push throttle lock all the way towards the front of unit.

![Throttle Lock](image1)

4. Move the vacuum from side to side along outer edge of the debris. To avoid clogging, do not place the vacuum tube directly into the debris pile.

5. Hold the engine higher than the inlet end of the vacuum tube.

6. Always point vacuum tube downhill when working on a hillside.

7. To avoid injury to the operator or unit, do not pick up rocks, broken glass, bottles, or other similar objects.

8. If the vacuum tubes should clog, stop the engine and disconnect the spark plug wire before cleaning out the obstruction.

9. Remove the vacuum tubes and clear the debris from the blower fan housing. Remove the bag and clear the adaptor. A small rod or stick may be required to clear the entire tube length. Ensure that all debris has been cleared before reassembling the vacuum tubes.

### Vacuum Operation

*See Figure 14.*

**WARNING:**

Never run the unit without the vacuum tubes and vacuum bag installed. Failure to do so could result in serious personal injury.

**WARNING:**

Always wear eye protection with side shields marked to comply with ANSI Z87.1, along with hearing protection. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.

1. Install the vacuum tubes, vacuum handle, and bag. Refer to the Assembly section earlier in this manual.

2. Start the engine. Refer to Starting and Stopping earlier in this manual.

3. Place the vacuum bag strap over your right shoulder. Hold the upper handle in your left hand and the vacuum handle in your right hand.

### Proper Operating Position

**Hold Muffler Away From Body And Clothing**

![Proper Operating Position](image2)
**MAINTENANCE**

**WARNING:**
When servicing, use only identical Toro replacement parts. Use of any other parts may create a hazard or cause product damage.

**WARNING:**
Always wear eye protection with side shields marked to comply with ANSI Z87.1, along with hearing protection. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.

**WARNING:**
Before inspecting, cleaning, or servicing the machine, shut off engine, wait for all moving parts to stop, and disconnect spark plug wire and move it away from spark plug. Failure to follow these instructions can result in serious personal injury or property damage.

**General Maintenance**
Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

**WARNING:**
Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

---

**Cleaning Air Filter**

*See Figure 15.*

A wet or dirty air filter can affect the way the engine starts, performs, and wears. The air filter should be checked and cleaned after 5 hours of operation. Inspect and clean more frequently if used in dusty dirty conditions.

For best performance, the air filter should be replaced every 25 hours or yearly.

**To clean the air filter:**

1. Loosen the knob on the air filter cover.
2. Remove the cover.
3. Lift the edge of the air filter carefully and peel it out.
4. Wash the air filter with warm, soapy water.
5. Rinse and squeeze to dry.
6. Reinstall the air filter.
   **Note:** Make sure the filter is seated properly inside the cover. Installing the filter incorrectly will allow dirt to enter the engine, causing rapid engine wear.
7. Install the air filter cover.
8. Tighten knob to secure.

![Figure 15](image-url)
Cleaning the Exhaust Port, Muffler, and Spark Arrestor

See Figure 16.

**WARNING:**
Ensure muffler has had time to cool before performing maintenance on the muffler and/or spark arrestor and wear gloves. A hot muffler may cause serious burns.

**Note:** Depending on the type of fuel used, the type and amount of lubricant used, and/or your operating conditions, the exhaust port, muffler, and/or spark arrestor screen may become blocked with carbon deposits. If you notice a power loss with your gas powered tool, you may need to remove these deposits to restore performance. We highly recommend that only qualified service technicians perform this service.

The spark arrestor should be replaced after 25 hours of use. Replacement parts available online at www.toro.com.

**To replace the spark arrestor:**
- **Note:** Removing these screws requires the use of a T20 and T25 torx screwdriver.
- **1.** Remove the five screws that hold the cover.
- **2.** Remove the cover.
- **3.** Remove the two screws holding the muffler assembly in place.
- **4.** Remove the muffler assembly and muffler gasket. It may be necessary to work the muffler assembly free from the muffler gasket.
- **5.** Separate the muffler cover from the muffler.
- **6.** Remove the three screws that hold the plates on the muffler.
- **7.** Remove the spark arrestor.
- **8.** Replace the old spark arrestor with the new one.
- **9.** Assemble the muffler by reinstalling the plates and tightening the three screws (torque to 18 in.lb [2.03 Nm] minimum, 22 in.lb. [2.48 Nm] maximum).
- **10.** Reassemble the muffler and muffler cover and attach to the muffler gasket with the two screws.
- **11.** Reinsert the muffler assembly and tighten two screws to engine (torque to 60 in.lb [6.78 Nm] minimum, 80 in.lb. [9.04 Nm] maximum).
- **12.** Reinstall the cover on the tool and fasten with the five screws (torque to 30 in.lb [6.78 Nm] minimum, 45 in.lb. [4.28 Nm] maximum).

**Note:** Do not over-tighten screws.

**WARNING:**
To avoid a fire hazard, never run the Powervac™ without the spark arrestor in place.

Vacuum Bag
A dirty bag will reduce performance. To clean the bag, turn it inside out and shake. Wash the bag in soapy water at least once a year. Replacement parts available online at www.toro.com.

Fuel Cap

**WARNING:**
A leaking fuel cap is a fire hazard and must be replaced immediately.

The fuel cap contains a non-serviceable filter and a check valve. A clogged fuel filter will cause poor engine performance. If performance improves when the fuel cap is loosened, the check valve may be faulty or filter clogged. Replace the fuel cap if required.
Spark Plug Replacement
See Figure 17.

This engine uses a Champion RCJ6Y spark plug. Use an exact replacement every 25 hours or annually.

1. Remove the spark plug boot.
2. Loosen the spark plug by turning it counterclockwise with a socket.
3. Remove the spark plug.
4. Hand thread the new spark plug into the cylinder, turning it clockwise.
5. Tighten with a socket. (Torque to 170 in. lb. [19.21 Nm] minimum, 190 in. lb. [21.47 Nm] maximum. Do not over-tighten).

CAUTION:
Be careful not to cross-thread the spark plug. Cross-threading will seriously damage the product.

Storing The Product
1. Clean all foreign material from the product. Store unit indoors in a dry, well-ventilated area that is inaccessible to children. Keep away from corrosive agents such as garden chemicals, fertilizer, and de-icing salts.
2. Abide by all ISO and local regulations for the safe storage and handling of gasoline.

EMISSIONS MAINTENANCE SCHEDULE
Maintenance, replacement, or repair of the emission control device and systems may be performed by any non-road engine repair establishment or individual.

<table>
<thead>
<tr>
<th>Emission Part</th>
<th>Inspect before each use</th>
<th>Clean every 5 hours</th>
<th>Replace every 25 hours or yearly</th>
<th>Clean every 25 hours or yearly</th>
<th>Replace every 125 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank Assembly (Includes Fuel Lines, Fuel Cap, and Fuel Filter)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air Filter</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spark Arrestor</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Spark Plug</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Muffler</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**TROUBLESHOOTING**

**HIGH ALTITUDE ENGINE OPERATION:**
Please have an authorized service center adjust this engine if it is to be run above 2000 feet. Failure to do so may result in poor engine performance and increased emissions. An engine adjusted for high altitudes can not be run at 2000 feet or lower. In doing so, the engine will overheat and cause serious engine damage. Please have an authorized service center restore high altitude modified engines to the original factory specification before operating below 2000 feet.

**IF THESE SOLUTIONS DO NOT SOLVE THE PROBLEM, CONTACT YOUR AUTHORIZED SERVICING DEALER.**

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine fails to start.</td>
<td>No fuel in tank.</td>
<td>Fill tank with fresh fuel/oil mixture.</td>
</tr>
<tr>
<td></td>
<td>Spark plug shorted or fouled.</td>
<td>Replace spark plug.</td>
</tr>
<tr>
<td></td>
<td>Spark plug is broken (cracked porcelain or electrodes broken).</td>
<td>Replace spark plug.</td>
</tr>
<tr>
<td></td>
<td>Ignition lead wire shorted, broken, or disconnected from spark plug.</td>
<td>Replace lead wire or attach to spark plug.</td>
</tr>
<tr>
<td></td>
<td>Ignition inoperative.</td>
<td>Contact authorized service center.</td>
</tr>
</tbody>
</table>

| Engine hard to start. | Water in gasoline or stale fuel mixture.                             | Drain entire system and refill with fresh fuel/oil mixture. |
|                       | Too much oil in fuel mixture.                                        | Drain and refill with correct fresh fuel/oil mixture.      |
|                       | Engine is under or over-choked.                                      | Adjust choke as necessary.                            |
|                       | Weak spark at spark plug.                                            | Contact authorized service center.                    |

| Engine lacks power.  | Air filter clogged.                                                  | Clean/replace the air filter.                     |
|                      | Spark plug fouled.                                                   | Replace the spark plug.                           |
|                      | Spark arrestor/muffler/exhaust port deposits.                        | Clean/replace spark arrestor /muffler parts as required. |

| Engine overheats.    | Insufficient oil in fuel mixture.                                    | Mix fuel and oil as described in starting instructions. |
Warranty

Count on it.

THIS PRODUCT IS MANUFACTURED UNDER LICENSE FROM THE TORO COMPANY BY TECHTRONIC INDUSTRIES NORTH AMERICA, INC.

Techtronic Industries north America, Inc. warrants to the original retail purchaser that this Blower/Vacuum Product is free from defects in material and workmanship and agrees to repair or replace, at our option, any defective Product free of charge within these time periods from the date of purchase:

- Three years for Blower/Vacuum Products, if the Product is used for personal, family, or household use;
- 90 days, if Blower/Vacuum Products are used for any other purpose, such as commercial or rental;
- Three years for emissions control systems on Blower/Vacuum Products used for any purpose, as provided below.

Except as provided in the Emission Control Warranty Statement, this warranty extends to the original retail purchaser only and commences on the date of original retail purchase.

Instructions for Obtaining Warranty Service

Any part of the Product manufactured or supplied by Techtronic Industries North America, Inc. and found in the reasonable judgement of Techtronic Industries North America, Inc. to be defective in material or workmanship will be repaired or replaced by an authorized service dealer for this product without charge for parts and labor. To locate your nearest authorized service dealer for this product, contact us Toll free at 1-866-574-9242 (US) or 1-866-574-9243 (Canada).

The Product including any defective part must be returned to an Authorized Service Dealer for this product within the warranty period. The expense of delivering the Blower/Vacuum Product to the service dealer for warranty work and the expense of returning it back to the owner after repair or replacement will be paid for by the owner. Techtronic Industries North America, Inc.’s responsibility in respect to claims is limited to making the required repairs or replacements and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any Product. Proof of purchase will be required by the dealer to substantiate any warranty claim. All warranty work must be performed by a service dealer authorized by Techtronic Industries North America, Inc. to service this product.

This warranty does not cover any Blower/Vacuum Product that has been subject to misuse, neglect, negligence, or accident, or that has been operated in any way contrary to the operating instructions as specified in the operator’s manual. This warranty does not apply to any damage to the Blower/Vacuum Product that is the result of improper maintenance or to any Blower/Vacuum Product that has been altered or modified so as to adversely affect the products operation, performance or durability or that has been altered or modified so as to change its intended use. The warranty does not extend to repairs made necessary by normal wear or by the use of parts or accessories which are either incompatible with the Blower/Vacuum Product or adversely affect its operation, performance or durability.

In addition, this warranty does not cover the following (except to the extent covered by the emissions control warranty set forth below):

A. Tune-ups – Spark Plugs, Carburetor Adjustments, Filters
B. Wear Items – Starter Pulley, Starter Ropes, Mulching Blades, Blower Fans, Blower and Vacuum Tubes, Vacuum Bag and Straps

Techtronic Industries North America, Inc. reserves the right to change or improve the design of any Blower/Vacuum Product without assuming any obligation to modify any product previously manufactured.

ALL IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE STATED WARRANTY PERIOD. ACCORDINGLY, ANY SUCH IMPLIED WARRANTIES INCLUDING MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, ARE DISCLAIMED IN THEIR ENTIRETY AFTER THE EXPIRATION OF THE APPROPRIATE THREE-YEAR OR NINETY DAY WARRANTY PERIOD. TECHTRONIC INDUSTRIES NORTH AMERICA, INC.’S OBLIGATION UNDER THIS WARRANTY IS STRICTLY AND EXCLUSIVELY LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS AND TECHTRONIC INDUSTRIES NORTH AMERICA, INC. DOES NOT ASSUME OR AUTHORIZE ANYONE TO ASSUME FOR THEM ANY OTHER OBLIGATION. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

TECHTRONIC INDUSTRIES NORTH AMERICA, INC. ASSUMES NO RESPONSIBILITY FOR INCIDENTAL, CONSEQUENTIAL, OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO EXPENSE OF RETURNING THE BLOWER/VACUUM PRODUCT TO A BLOWER/VACUUM AUTHORIZED SERVICE DEALER AND EXPENSE OF DELIVERING IT BACK TO THE OWNER, MECHANIC’S TRAVEL TIME, TELEPHONE, OR TELEGRAM CHARGES, RENTAL OF A LIKE PRODUCT DURING THE TIME WARRANTY SERVICE IS BEING PERFORMED, TRAVEL, LOSS, OR DAMAGE TO PERSONAL PROPERTY, LOSS OF REVENUE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, OR INCONVENIENCE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.
THE FOLLOWING CALIFORNIA AIR RESOURCES BOARD (CARB) STATEMENT ONLY APPLIES TO MODEL NUMBERS REQUIRED TO MEET THE CARB REQUIREMENTS.

TECHTRONIC INDUSTRIES NORTH AMERICA, INC., LIMITED WARRANTY STATEMENT FOR FEDERAL AND CALIFORNIA EMISSION CONTROL SYSTEMS NON-ROAD AND SMALL OFF-ROAD ENGINES

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The U.S. Environmental Protection Agency (EPA), the California Air Resources Board (CARB), and Techtronic Industries North America, Inc., are pleased to explain the Emissions Control System Warranty on your 2010 model year non-road or small off-road engine. In California, new equipment that uses small off-road engines must be designed, built, and equipped to meet the state’s stringent anti-smog standards. In other states, new 2000 and later model year non-road engines must be designed, built, and equipped at the time of sale to meet the U.S. EPA regulations for non-road small engines. The non-road engine must be free from defects in materials and workmanship which cause it to fail to conform with U.S. EPA standards for the first three years of engine use from the date of sale to the ultimate purchaser. Techtronic Industries North America, Inc., must warrant the emission control system on your non-road or small off-road engine for the period of time listed above provided there has been no abuse, neglect, or improper maintenance of your non-road or small off-road engine.

Your emission control system may include parts such as the carburetor or fuel injection system, the ignition system, catalytic converters, fuel tanks, valves, filters, clamps, connectors, and other associated components. Also included may be hoses, belts and connectors, and other emission-related assemblies. Where a warrantable condition exists, Techtronic Industries North America, Inc., will repair your non-road or small off-road engine at no cost to you, including diagnosis, parts, and labor performed at an authorized service center for Toro® brand outdoor products.

MANUFACTURER’S WARRANTY COVERAGE:

This product's emissions control system is warranted for three years. If any emission-related part on your engine is defective, the part will be repaired or replaced by Techtronic Industries North America, Inc., free of charge.

OWNER’S WARRANTY RESPONSIBILITIES

(a) As the non-road or small off-road engine owner, you are responsible for the performance of the required maintenance listed in your operator's manual. Techtronic Industries North America, Inc., recommends that you retain all receipts covering maintenance on your non-road or small off-road engine, but Techtronic Industries North America, Inc., cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance. Any replacement part or service that is equivalent in performance and durability may be used in non-warranty maintenance or repairs, and shall not reduce the warranty obligations of Techtronic Industries North America, Inc., (b) As the non-road or small off-road engine owner, you should be aware, however, that Techtronic Industries North America, Inc., may deny you warranty coverage if your non-road or small off-road engine or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.

(c) You are responsible for presenting your non-road or small off-road engine to an authorized service dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty rights and responsibilities, you should contact a Techtronic Industries North America, Inc., Customer Representative at 1-866-574-9242 (US) or 1-866-574-9243 (Canada).

DEFECT WARRANTY COVERAGE REQUIREMENTS:

(a) The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser.

(b) General Emissions Warranty Coverage. Techtronic Industries North America, Inc., warrants to the ultimate purchaser and each subsequent purchaser that your non-road or small off-road engine is designed, built, and equipped at the time of sale to conform with all applicable regulations adopted by the California Air Resources Board or the United States Environmental Protection Agency; and that it is free from defects in materials and workmanship which cause the engine to fail to conform with applicable regulations for a period of three years from the date the non-road or small off-road engine is purchased by the initial purchaser.

(c) The warranty on emissions-related parts will be interpreted as follows: Any warranted part that is not scheduled for replacement as required in the Emissions Maintenance Schedule and Warranty Parts List set forth is warranted for three years. If any such part (including any part that is scheduled only for regular inspection) fails during the period of warranty coverage, it will be replaced or replaced at any Authorized Service Center at no charge. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period. A statement to the effect of “repair or replace as necessary” would not reduce the period of warranty coverage. Any warranted part that is scheduled for replacement as required in the Emissions Maintenance Schedule and Warranty Parts List is warranted for the period of time prior to the first scheduled replacement point for that part. Any such part repaired or replaced under warranty is warranted for the remainder of the period prior to the first scheduled replacement point, and will be repaired or replaced at any Authorized Service Center for no charge until that replacement point is reached.

Techtronic Industries North America, Inc., shall remedy warranty defects at any authorized Authorized Service Center, including any distribution center that may be franchised to service the subject engines. Any diagnostic work done at a Authorized Service Center shall be free of charge to the owner if such work determines that a warranted part is defective. Any manufacturer-approved or equivalent replacement part may be used for any warranty maintenance or repairs on emission-related parts, and must be provided free of charge to the owner if the part is still under warranty. Techtronic Industries North America, Inc., is liable for damages to other engine components caused by the failure of a warranted part still under warranty.

Add-on or modified parts that are not exempted by the California Air Resource Board may not be used. The use of any non-exempted add-on or modified parts will be grounds for disallowing a warranty claim. Techtronic Industries North America, Inc., will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

The California Air Resources Board’s Emission Warranty Parts List specifically defines the emission-related warranted parts. (EPA’s regulations do not include a parts list, but the EPA considers emission-related warranted parts to include all the parts listed below.) Techtronic Industries North America, Inc., will provide any documents that describe its warranty procedures or policies within five days upon request by the California Air Resources Board.

EMISSIONS PARTS LIST

Emissions parts vary from product to product. Your emissions control system warranty applies to any of the following components that may be included on your product:

(1) Fuel Metering System
   (i) Carburetor and internal parts (and/or pressure regulator or fuel injection system).
   (ii) Air/fuel ratio feedback and control system.
   (iii) Cold start enrichment system.
   (iv) Fuel Tank.

(2) Air Induction System
   (i) Controlled hot air intake system.
   (ii) Intake manifold.
   (iii) Air filter.

(3) Ignition System
   (i) Spark Plugs.
   (ii) Magneto or electronic ignition system.
   (iii) Spark advance/retard system.

(4) Exhaust Gas Recirculation (EGR) System
   (i) EGR valve body and carburetor spacer, if applicable.
   (ii) EGR rate feedback and control system.

(5) Air Injection System
   (i) Air pump or pulse valve.
   (ii) Valves affecting distribution of flow.
   (iii) Distribution manifold.

(6) Catalyst or Thermal Reactor System
   (i) Catalytic converter.
   (ii) Thermal reactor.
   (iii) Exhaust manifold.

(7) Particulate Controls
   (i) Traps, filters, precipitators, and any other device used to capture particulate emissions.

(8) Miscellaneous Items Used in Above Systems
   (i) Electronic controls.
   (ii) Vacuum, temperature, and time sensitive valves and switches.
   (iii) Hoses, belts, connectors, and assemblies.

Techtronic Industries North America, Inc., will furnish with each new engine written instructions for its maintenance and use by the owner.
Customer Service Information
If your product requires service or maintenance, contact your nearest authorized service dealer. To locate your nearest authorized service dealer for this product, contact us toll free at 1-866-574-9242 (US) or 1-866-574-9243 (Canada).

This product is manufactured under license from The Toro Company by Techtronic Industries North America, Inc.

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Anderson, SC 29621
USA