

LITTLE WONDER[®] **OPTIMAX**

Maximum Output Blower

MODELS: 9270-02-59
GX270 HONDA

9270-03-59
EX27 SUBARU

9390-02-59
GX390 HONDA

9400-03-59
EX40 SUBARU

9170-03-59
EX17 SUBARU



**Owners Manual and Safety Instructions for
OPTIMAX BLOWER**

MAN 4167370

Rev. A 12-2011

Original Language Instructions

OPERATORS MANUAL

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

⚠ WARNING

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

CALIFORNIA

Proposition 65 Warning

Battery posts, terminals, wiring insulation, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

WASH HANDS AFTER HANDLING.

LITTLE WONDER BLOWER

IMPORTANT MESSAGE

On behalf of everyone at Little Wonder, we would like to thank you for your purchase of a Little Wonder Gasoline Powered Optimax Blower. This professional blower was designed to the highest standards to ensure you many hours of uninterrupted service.

This manual provides the information necessary for safe and efficient operation and service. For your safety, it is critically important that you read and understand this entire manual before operating your blower.

LITTLE WONDER
SCHILLER GROUNDS CARE, INC.
1028 STREET ROAD, P.O. BOX 38
SOUTHAMPTON, PA 18966

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See Manual 4167371 for Parts Information.

MANY USES:

The extreme versatility offered by Little Wonder's line of blowers makes them ideally suited for a wide variety of jobs; blowing leaves, grass clippings, thatch, blowing tennis courts dry, cleaning large driveways, stadiums, parking lots and other hard surfaces, precleaning roofs before repair and countless other jobs.



This Operator's Manual is part of the machine. Suppliers of both new and second-hand machines must make sure that this manual is provided with the machine.

NOTICE !!!

Unauthorized modifications may present **extreme** safety hazards to operators and bystanders and could also result in product damage.

Schiller Grounds Care, Inc. strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Schiller Grounds Care, Inc. Engineering Department. Any Schiller Grounds Care, Inc. product that is altered, modified or changed in any manner not specifically authorized after original manufacture-including the addition of "after-market" accessories or component parts not specifically approved by Schiller Grounds Care, Inc.-will result in the Schiller Grounds Care, Inc. Warranty being voided.

Any and all liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Schiller Grounds Care, Inc. will be considered the responsibility of the individual(s) or company designing and/or making such changes. Schiller Grounds Care, Inc. will vigorously pursue full indemnification and costs from any party responsible for such unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.



This symbol means:
ATTENTION!
BECOME ALERT!

Your safety and the safety of others is involved.

Signal word definitions:

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Schiller Grounds Care, Inc. machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

WARNING

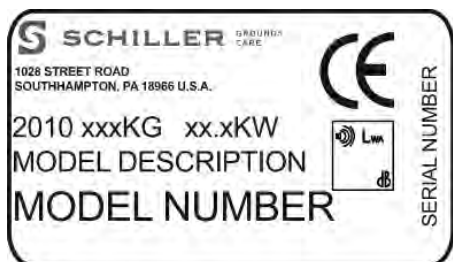
WARNING indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage.



MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

SERIAL NUMBER: This number appears only on your unit. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.

MACHINE PREPARATION

Operator preparation and training

Read the Operation & Safety Manual

- If an operator or mechanic cannot read English, it is the owner's responsibility to explain this material to them. If any portion of this material is unclear, contact your factory representative for clarification.
- Become familiar with the safe operation of the equipment, operator controls and safety signs. Be prepared to stop the engine quickly in an emergency. Do not operate or allow another person to operate this machine if there are any questions about safety.
- All operators and mechanics should be trained. The owner is responsible for training the users.
- Wear appropriate clothing, including safety goggles or safety glasses with side shields when operating. Wear substantial footwear. Do not operate barefoot or wearing open sandals. Long hair, loose clothing or jewelry may get tangled in moving parts.
- Wear appropriate hearing protection.
- Wear dust mask to avoid breathing dust.
- Wear safety glasses.
- Never allow children, unskilled or improperly trained people to operate this equipment. Local regulations can restrict the age of the operator.
- Keep warning labels and this operator's manual legible and intact. Replacement labels and manuals are available from the factory.
- Do not operate machine while under the influence of drugs or alcohol, or any other condition of impairment.
- The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property.



SITE PREPARATION AND CIRCUMSTANCES

- Evaluate the terrain to determine how to safely perform the job. Only use accessories and attachments approved by the manufacturer.
- Be sure the area is clear of pets and people, especially young children. Never assume they will remain where you last saw them. Stop the machine if any enter the area.

MULTIPLE OPERATORS

- Keep a safe distance between operators when working together.

MACHINE PREPARATION

- Do not tamper with or defeat safety devices. Keep guards, shields and interlock safety devices in place and in proper working condition. They are for your protection.
- Keep all fasteners such as nuts, bolts and pins well secured.
- Verify that machine and attachments, if any, are in good operating condition.

OPERATING SAFELY

IN GENERAL

- Use extra care when loading or unloading the machine into a trailer or truck.
- Do not run the engine in an enclosed area where dangerous carbon monoxide fumes can collect.
- Never leave a running machine unattended. Always stop engine when leaving the operator position.
- Do not blow towards people, cars, windows, or other items which could be injured or damaged by the blown debris.
- Keep hands away from the blower air intake and outlet.

STARTING

- Start according to instructions in this manual or on the machine.
- Do not change engine governor settings or overspeed the engine. Operating the engine at excessive speed can increase the hazard of personal injury.



OPERATING ON SLOPES

USE EXTRACARE WHEN OPERATING ON SLOPES. EVALUATE THE RISKS INVOLVED BEFORE OPERATING ON A SLOPE

- Slopes are a major factor related to slip and fall accidents that sometimes lead to severe injury or death. All slopes require extra caution.
- Do not operate on slopes if uneasy or uncertain. Ultimate responsibility for safe operation on slopes rests with the operator.
- Do not operate on steep slopes. Poor footing could cause a slip and fall accident.
- Keep all movement on slopes slow and gradual.
- Do not operate near drop-offs, ditches or embankments. You could lose your footing or balance.
- Do not turn on slopes unless necessary, and then turn slowly and downhill when possible.
- Be sure of your footing on slopes.
- Watch for holes, ruts, bumps, rocks and other hidden objects. Uneven terrain could cause a slip and fall accident. Tall grass can hide objects.

INTERRUPTING OPERATION

- Before leaving the operator's position:
 - Park on level ground.
 - Shut off the engine.
- Stop the engine, and wait until the fan stops moving:
 - before refueling;
- Stop the engine, and disconnect the spark plug wire(s):
 - before clearing blockages;
 - before checking, cleaning or working on the machine;
 - if the machine begins to vibrate abnormally: shut off machine immediately. Inspect and have repairs made as needed before restarting;
 - except for repairs or adjustments as specifically noted, such as for carburetor adjustment, where the engine must be running. Keep hands and feet clear of moving parts in these circumstances.
- Allow the fan to come to a complete stop when stopping operation to clear blockages, unclog, inspect the machine, do maintenance or repair.
- Reduce the throttle setting during engine shut-down and, if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of operation.

MAINTENANCE SAFETY

In general

- Maintain machine according to manufacturer's schedule and instructions for maximum safety and best results.
- Park machine on level ground.
- Never allow untrained personnel to service machine.
- Guards should only be removed by a qualified technician for maintenance or service.
- Adjust or repair only after the engine has been stopped and the fan has stopped moving.
- Disconnect spark plug wire(s) before doing any maintenance.
- Replace parts if worn, damaged or faulty. For best results, always replace with parts recommended by the manufacturer.
- Do not dismantle the machine without releasing or restraining forces which may cause parts to move suddenly.
- Provide adequate support, e.g. jack stands for lifted machine or parts if working beneath.
- Do not put hands or feet near or under rotating parts.
- Clean up spilled oil or fuel thoroughly.
- Replace faulty mufflers.
- To reduce fire hazards, keep the engine, muffler, and fuel storage area free of grass, leaves, debris buildup or grease.

Fans

Do not straighten or weld fans. Replace damaged or failed fans..

Fuel

- Gasoline (petrol) and diesel fuels are flammable; gasoline (petrol) vapors are explosive. Use extra care when handling.
- Store only in containers specifically designed for fuel.



- When refueling or checking fuel level:
 - Stop the engine and allow to cool;
 - Do not smoke;
 - Refuel outdoors only;
 - Use a funnel;
 - Do not overfill;
 - If fuel is spilled, do not attempt to start the engine until the spill is cleaned up and vapors have cleared.
- Replace caps on fuel containers and tanks securely.

Sparks from static electricity can start fires or cause explosions. Flowing fuel can generate static electricity. To prevent static electricity sparks:

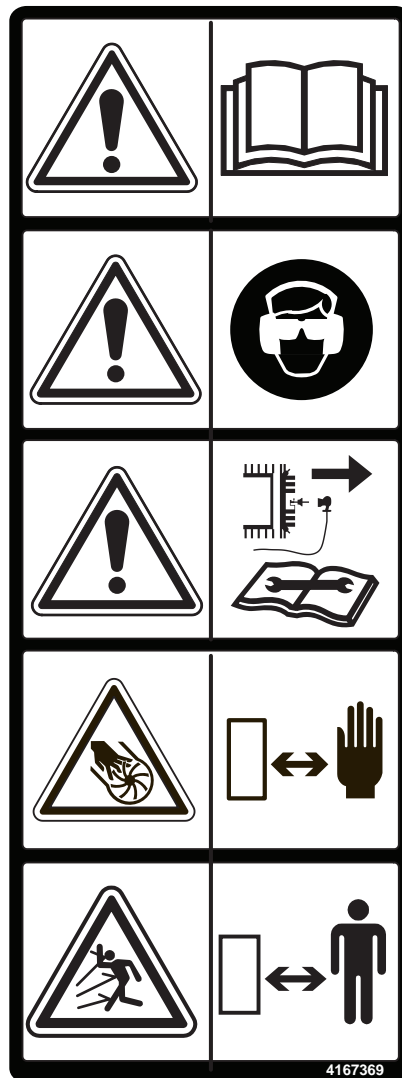
- Keep containers electrically grounded. Do not fill containers in a vehicle or on a truck or trailer bed with a plastic liner. Fill containers on the ground away from the vehicle.
- When practical, remove petrol (gasoline) powered equipment from the truck or trailer and refuel it on the ground. If equipment must be refueled on the truck or trailer, refuel from a portable container rather than a dispenser nozzle.
- Keep the dispenser nozzle in contact with the rim of the fuel tank or container opening until fueling is complete. Do not use a nozzle lock-open device.
- If fuel is spilled on clothing change it immediately.

STORAGE SAFETY

- Stop the engine and allow to cool before storing.
- Drain the fuel tank outdoors only.
- Store fuel in an approved container in a cool, dry place.
- Keep the machine and fuel containers in a locked storage place to prevent tampering and to keep children from playing with them.
- Do not store the machine or fuel container near an open flame, spark, or appliance, such as a water heater, or a pilot light.
- Keep petrol (gasoline) storage area free of grass, leaves and excessive grease to reduce fire hazard.
- Clean grass and debris from cutting units, drives, mufflers and engine to help prevent fires.

SAFETY DECALS

An important part of the safety system incorporated in this blower are the warning labels found on the blower. Replace labels if damaged or illegible.



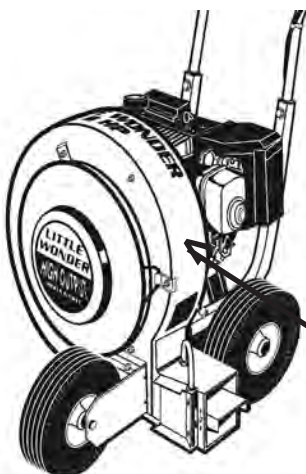
Read and understand the operator manual. Pay particular attention to all sections regarding safety. Store your owners manual in a safe place.

Wear eye and ear protection.

Before performing any service or maintenance, disconnect spark plug wire. Make sure engine switch is in the OFF (O) position.

Caution:
Contact with rotating fan will cause serious injury. Keep hands away from air intake and discharge areas.

Caution:
Thrown objects.
Keep bystanders away. Do not blow towards people or items that may be injured or damaged by flying debris. Keep bystanders away.



Location of label.

LITTLE WONDER BLOWER

CONTROLS

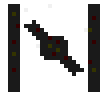
(BLOWER SHOWN WITH SUBARU EX40 ENGINE.
OTHER ENGINES ARE SIMILAR.)

SWITCH (A)

Move to the "OFF" position to stop the engine.
Move to the "ON" position before starting engine.

THROTTLE (B)

Controls engine speed and the amount of air
being blown.



CHOKE (C)

Move to the "CHOKE" position to apply the
choke. Move to the "RUN" position to remove
the choke.

FUEL SHUT OFF (D)

Move to the "OFF" position to shut off the fuel
whenever transporting the machine by trailer
or truck or during storage. Move to the "ON"
position before starting the engine.

REMOTE HORIZONTAL DEFLECTOR LEVER (E)

Models 9270, 9390, and 9400 Only

Move the lever forward to direct the flow of air
down. Move the lever back to direct the flow of
air up.

LOCKING KNOB (F)

Tighten the knob to lock the horizontal deflector
in the desired position.

Models 9270, 9390, and 9400: Loosen to allow
the deflector to be rotated with remote horizontal
deflector lever.

VERTICAL DEFLECTOR (G)

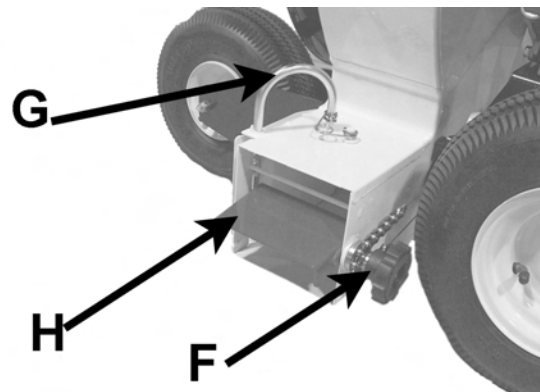
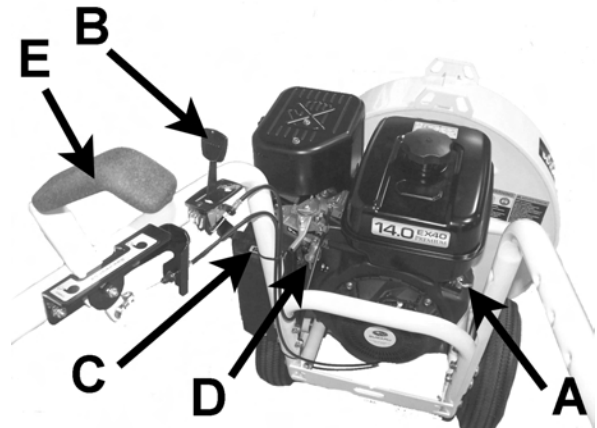
Rotate the deflector to direct air discharge
forward or to the side.

HORIZONTAL DEFLECTOR (H)

Directs air flow.

Model 9170: Loosen knob **F** and adjust **H** to
desired air flow direction.

Models 9270, 9390, and 9400: Controlled by
Remote Horizontal Deflector Lever **E**. May be
locked in place with knob **F**.



BEFORE STARTING THE ENGINE

1. Read the Operator Manual and Engine Manual. Become familiar with the controls, how each functions, and what it operates.
2. Check the engine oil level and add if necessary.
3. Fill the fuel tank with good quality, clean, unleaded regular gasoline (petrol). Use a funnel to avoid spilling.

OPERATING INSTRUCTIONS

Air flow can be directed to the side or front by the two-position vertical deflector. The front discharge position is used to remove debris from along walls, fences, etc. The side discharge position is used to form windrows or piles. The horizontal deflector directs air downward to “chisel” under wet, heavy leaves and litter. Air velocity is regulated by the throttle setting.

To reduce windrowing or to blow over an obstacle, point deflector upward.

To avoid blowing in an area, close deflector and reduce throttle setting.

Slight changes in deflector position will have a big effect on air flow. Experiment until you find the best position for your needs.

When clearing a yard or parking lot, a little time spent planning how to blow it off can greatly reduce the total clearing time.

To stop the engine, move the throttle control to the slow position and switch the engine off.

Stop the engine when moving from work site to work site. This will save fuel and prevent inadvertently blowing debris where you don't want to.

NOTE: When transporting the machine by truck or trailer, close the fuel valve. This avoids the possibility of flooding should any dirt get under the carburetor float needle. Leaving the valve open can allow severe flooding which may ruin the engine by diluting the oil.

MAINTENANCE INSTRUCTIONS

Stop engine and remove the spark plug wire before performing any maintenance.

Keep blower air intake clear of debris for best performance.

Clear air discharge area of any debris accumulation. Ensure machine has been shut off and fan is no longer moving before clearing.

Keep all hardware tight.

Check oil level daily. Top off as needed.

Change engine oil after the first 5 hours of operation. Then change as recommended by the engine manufacturer.

1. Remove drain plug and drain oil while engine is warm.
2. Replace drain plug, remove fill plug and fill with new oil. See engine manual for oil specifications.
3. Start and run engine for 30 seconds. Stop engine.
4. Wait 30 seconds, then re-check oil level.
5. Top off if necessary. See engine manual for details.

STORAGE

To prevent possible explosion or ignition of vaporized fuel, do not store equipment with fuel in tank or carburetor in an enclosure with open flame (for example, a furnace or water heater pilot).

Before the equipment is put into storage for any period exceeding 30 days.

1. Drain all fuel from the fuel tank and fuel lines.
2. Start the engine and run until all the fuel is used from the carburetor float bowl and the engine stops.
3. While the engine is still warm, drain the crankcase oil and replace with the proper weight oil corresponding to the season the equipment will be next used.
4. Remove the spark plug and squirt a small amount of engine oil into the cylinder. Slowly pull the starter a few times to distribute oil in the cylinder and reinstall the spark plug.
5. Top off if necessary. See engine manual for details.

To put the equipment into service after an extended period of storage.

1. Check for loose parts and tighten if necessary.
2. Fill the fuel tank and then check the engine oil level.
3. Start the engine and check for fuel leaks. Repair any leaks before operating the unit.

EC Declaration of Conformity

The Undersigned Manufacturer:
Schiller Grounds Care, Inc.
1028 Street Road
Southampton, PA 18966



Kurt Knudsen
Director of Operations
Date: 6th July, 2012

EU Authorized Representative
Authorized to compile Technical File:
Earlsmere Limited
Unit 18 Valley Road
Station Road Industrial Estate
Wombwell, Barnsley, South Yorkshire, S73 OBS UK



Jim White
Managing Director
Date: 6th July 2012

Declare that the machine described below:

Make & Type: **Little Wonder, Leaf Blower**
Category: **Leaf blower, walk behind**
Series: **9170-03-59**
Engine: **Subaru EX17**
Speed: **3600 R.P.M**
Net Installed Power: **5.5 hp (4.1 KW)**

Make & Type: **Little Wonder, Leaf Blower**
Category: **Leaf blower, walk behind**
Series: **9270-03-59**
Engine: **Subaru EX27**
Speed: **3600 R.P.M**
Net Installed Power: **8.6hp (6.4 KW)**

Make & Type: **Little Wonder, Leaf Blower**
Category: **Leaf blower, walk behind**
Series: **9270-02-59**
Engine: **Honda GX270**
Speed: **3600 R.P.M**
Net Installed Power: **8.5hp (6.3 KW)**

Make & Type: **Little Wonder, Leaf Blower**
Category: **Leaf blower, walk behind**
Series: **9390-02-59**
Engine: **Honda GX390**
Speed: **3600 R.P.M**
Net Installed Power: **11.9hp (8.9 KW)**

Make & Type: **Little Wonder, Leaf Blower**
Category: **Leaf blower, walk behind**
Series: **9400-03-59**
Engine: **Subaru EX40**
Speed: **3600 R.P.M**
Net Installed Power: **13hp (9.7 KW)**

EC Declaration of Conformity

Complies with the provisions of the following European Directives, Amendments, and the Regulations transposing it into national law.

Directives/Harmonized Standards

Machinery Directive.....	2006/42/EC
EMC Directive:	2004/108/EC
Noise in the Environment Directive	2000/14/EC
Vibration Directive	2002/44/EC
Non Road Emissions Directive.....	2002/88/EC

Sound: Sound levels were determined in accordance with Directives 2000/14/EC, 2006/42/EC and standards EN/ISO 3744: 2010.

Guaranteed Sound Power Level	Model 9170-03-59.....	107dB
.....	Model 9270-03-59.....	111dB
.....	Model 9270-02-59.....	111dB
.....	Model 9390-02-59.....	112dB
.....	Model 9400-03-59.....	112dB
 Sounds Pressure Level	Model 9170-03-59.....	91dB
.....	Model 9270-03-59.....	93dB
.....	Model 9270-02-59.....	93dB
.....	Model 9390-02-59.....	93dB
.....	Model 9400-03-59.....	93dB

Vibration:

Hand/arm vibration was measured at the right and left operator handles per ISO 5349-1-2001 and ISO 5349-2-2001. Vibration is given as the vector sum of acceleration in the x, y and z axes. Only the highest of the left and right readings is given.

Guaranteed Vibration Level.....	Model 9170-03-59.....	9.0 m/s²
.....	Model 9270-03-59.....	12.3 m/s²
.....	Model 9270-02-59.....	14.0 m/s²
.....	Model 9390-02-59.....	11.6 m/s²
.....	Model 9400-03-59.....	14.0 m/s²

Intended Use:

This machine is for use blowing debris such as leaves off maintained grass areas. It is also for use in blowing debris and aggregate off surfaces such as those found in paved car parks



5 YEAR LIMITED SERVICE AND WARRANTY POLICY FOR LITTLE WONDER BLOWERS

All Little Wonder Blowers are warranted against defects in material and workmanship for a period of five (5) years from the date of purchase, under the following terms and conditions.

LITTLE WONDER will repair or replace, at its option, any part or parts of the product found to be defective in material or workmanship during the warranty period. Warranty repairs and replacements will be made without charge for parts or labor. All parts replaced under warranty will be considered as part of the original product, and any warranty on the replaced parts will expire coincident with the original product warranty. If you think your LITTLE WONDER BLOWER is defective in material or workmanship, you must return it to a registered dealer with a valid sales receipt or to our factory at 1028 Street Rd., Southampton, PA 18966. Transportation charges to ship your product to us or a registered dealer must be borne by you.

Engines for all gasoline powered products are warranted separately by the engine manufacturer. Therefore, there are no warranties made, expressed or implied, for engines for gasoline powered products by LITTLE WONDER.

LITTLE WONDER assumes no responsibility in the event that the product was not assembled or used in compliance with any assembly, care, safety or operating instructions contained in the Owner's Manual or information accompanying the product. This limited warranty does not cover damages or defects due to normal wear and tear, lack of reasonable and proper maintenance, failure to follow operating instructions or Owner's Manual, misuse, lack of proper storage or accidents, nor does it cover routine maintenance parts and service. This limited warranty does not cover any defects due to repairs or alterations made to the product made by anyone other than LITTLE WONDER or its registered dealers.

You must maintain your LITTLE WONDER Blower by following the maintenance procedures described in the owner's manual. Such routine maintenance, whether performed by you or a registered dealer, is at your expense.

LITTLE WONDER MAKES NO EXPRESS OR IMPLIED WARRANTIES REPRESENTATIONS OR PROMISES EXCEPT THOSE CONTAINED HEREIN. THERE ARE NO OTHER WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ALL WARRANTIES OTHER THAN THE EXPRESS WARRANTY SET FORTH ABOVE ARE SPECIFICALLY DISCLAIMED. THE DURATION OF ANY IMPLIED WARRANTY, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE DURATION OF THIS WRITTEN LIMITED WARRANTY. LITTLE WONDER DISCLAIMS ALL LIABILITY FOR INDIRECT, INCIDENTAL AND/OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE LITTLE WONDER BLOWER PRODUCTS COVERED BY THIS WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THAT ABOVE LIMITATIONS AND EXCLUSIONS 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.

LITTLE WONDER®

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