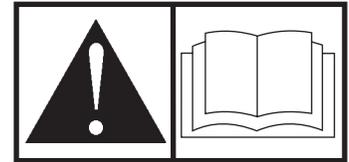




**SERIOUS DUTY
PRESSURE WASHERS**

Pressure Washer Operator's Manual



**BRIGGS & STRATTON POWER PRODUCTS GROUP, LLC
JEFFERSON, WISCONSIN, U.S.A.**



Manual No. 203293GS Revision - (04/09/2007)

Thank you for purchasing this quality-built Briggs & Stratton pressure washer. We are pleased that you've placed your confidence in the Briggs & Stratton brand. When operated and maintained according to the instructions in this manual, your Briggs & Stratton pressure washer will provide many years of dependable service.

This manual contains safety information to make you aware of the hazards and risks associated with pressure washers and how to avoid them. Because Briggs & Stratton does not necessarily know all the applications this pressure washer could be used for, it is important that you read and understand these instructions thoroughly before attempting to start or operate this equipment. Save these instructions for future reference.

This pressure washer requires final assembly before use. Refer to the *Assembly* section of this manual for instructions on final assembly procedures. Follow the instructions completely.

Where to Find Us

You never have to look far to find Briggs & Stratton support and service for your pressure washer. Consult your Yellow Pages. There are over 30,000 Briggs & Stratton authorized service dealers worldwide who provide quality service. You can also contact Briggs & Stratton Customer Service by phone at **(800) 743-4115**, or on the Internet at BRIGGSandSTRATTON.COM.

Pressure Washer

Model Number

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Revision

--	--

Serial Number

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Engine

Model Number

--	--	--	--	--	--	--	--

Type Number

--	--	--	--	--	--	--	--

Code Number

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Date Purchased

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Briggs & Stratton Power Products Group, LLC
900 North Parkway
Jefferson, WI 53549

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Safety

Assembly

Controls

Operation

Maintenance

Troubleshooting

Warranty

SAVE THESE INSTRUCTIONS

Operator Safety

Equipment Description



Read this manual carefully and become familiar with your pressure washer. Know its applications, its limitations, and any hazards involved.

This high quality residential system features 10" wheels, axial cam pump with stainless steel pistons, automatic cool down system, detergent siphoning system, automatic trigger lock spray gun, quick connect spray tips, safety goggles, heavy duty 30' hose, and more.

Every effort has been made to ensure that information in this manual is accurate and current. However, we reserve the right to change, alter, or otherwise improve the product and this document at any time without prior notice.

The Emission Control System for this pressure washer is warranted for standards set by the Environmental Protection Agency and the California Air Resources Board.

Safety Rules

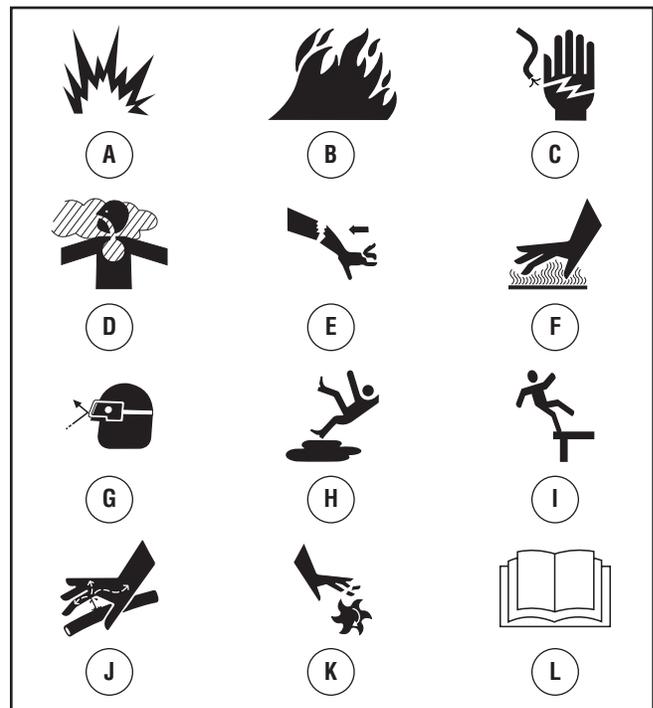


This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

The safety alert symbol (▲) is used with a signal word (DANGER, CAUTION, WARNING), a pictorial and/or a safety message to alert you to hazards. **DANGER** indicates a hazard which, if not avoided, *will* result in death or serious injury. **WARNING** indicates a hazard which, if not avoided, *could* result in death or serious injury. **CAUTION** indicates a hazard which, if not avoided, *might* result in minor or moderate injury. **NOTICE**, indicates a situation that could result in equipment damage. Follow safety messages to avoid or reduce the risk of injury or death.

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

Hazard Symbols and Meanings



- A - Explosion
- B - Fire
- C - Electric Shock
- D - Toxic Fumes
- E - Kickback
- F - Hot Surface

- G - Flying Objects
- H - Slippery Surface
- I - Fall
- J - Fluid Injection
- K - Moving Parts
- L - Read Manual

 WARNING	
	<p>Running engine gives off carbon monoxide, an odorless, colorless, poison gas.</p> <p>Breathing carbon monoxide can cause headache, fatigue, dizziness, vomiting, confusion, seizures, nausea, fainting or death.</p> <p>Some chemicals or detergents may be harmful if inhaled or ingested, causing severe nausea, fainting, or poisoning.</p>
<ul style="list-style-type: none"> • Operate pressure washer ONLY outdoors. • Keep exhaust gas from entering a confined area through windows, doors, ventilation intakes, or other openings. • DO NOT start or run engine indoors or in an enclosed area, even if windows and doors are open. • Use a respirator or mask whenever there is a chance that vapors may be inhaled. • Read all instructions with mask so you are certain the mask will provide the necessary protection against inhaling harmful vapors. 	

 WARNING	
	<p>Use of pressure washer can create puddles and slippery surfaces.</p> <p>Kickback from spray gun can cause you to fall.</p>
<ul style="list-style-type: none"> • Operate pressure washer from a stable surface. • The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces. • Be extremely careful if you must use the pressure washer from a ladder, scaffolding, or any other similar location. • Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back. 	

 WARNING	
	<p>Fuel and its vapors are extremely flammable and explosive.</p> <p>Fire or explosion can cause severe burns or death.</p>
<p>WHEN ADDING OR DRAINING FUEL</p> <ul style="list-style-type: none"> • Turn pressure washer OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank. • Fill or drain fuel tank outdoors. • DO NOT overfill tank. Allow space for fuel expansion. • If fuel spills, wait until it evaporates before starting engine. • Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources. • DO NOT light a cigarette or smoke. <p>WHEN STARTING EQUIPMENT</p> <ul style="list-style-type: none"> • Ensure spark plug, muffler, fuel cap, and air cleaner are in place. • DO NOT crank engine with spark plug removed. <p>WHEN OPERATING EQUIPMENT</p> <ul style="list-style-type: none"> • DO NOT tip engine or equipment at angle which causes fuel to spill. • DO NOT spray flammable liquids. <p>WHEN TRANSPORTING OR REPAIRING EQUIPMENT</p> <ul style="list-style-type: none"> • Transport/repair with fuel tank EMPTY or with fuel shutoff valve OFF. • Disconnect spark plug wire. <p>WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK</p> <ul style="list-style-type: none"> • Store away from furnaces, stoves, water heaters, clothes dryers, or other appliances that have pilot light or other ignition source because they can ignite fuel vapors. 	

 WARNING	
	<p>Risk of electrocution.</p> <p>Contact with power source can cause electric shock or burn.</p>
<ul style="list-style-type: none"> • NEVER spray near power source. 	

 WARNING	
	<p>Starter cord kickback (rapid retraction) can result in bodily injury. Kickback will pull hand and arm toward engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.</p>
<ul style="list-style-type: none"> • NEVER pull starter cord without first relieving spray gun pressure. • When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback. • After each starting attempt, where engine fails to run, always point spray gun in safe direction, press red button and squeeze spray gun trigger to release high pressure. • Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back. 	

 WARNING	
	<p>Contact with muffler area can result in serious burns.</p>
	<p>Exhaust heat/gases can ignite combustibles, structures or damage fuel tank causing a fire.</p>
<ul style="list-style-type: none"> • DO NOT touch hot parts and AVOID hot exhaust gases. • Allow equipment to cool before touching. • Keep at least 5 feet (1.5 m) of clearance on all sides of pressure washer including overhead. • Code of Federal Regulation (CFR) Title 36 Parks, Forests, and Public Property require equipment powered by an internal combustion engine to have a spark arrester, maintained in effective working order, complying to USDA Forest service standard 5100-1C or later revision. In the State of California a spark arrester is required under section 4442 of the California Public resources code. Other states may have similar laws. 	

 WARNING	
	<p>The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation. Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.</p>
<ul style="list-style-type: none"> • DO NOT allow CHILDREN to operate pressure washer. • NEVER repair high pressure hose. Replace it. • NEVER repair leaking connections with sealant of any kind. Replace o-ring or seal. • NEVER connect high pressure hose to nozzle extension. • Keep high pressure hose connected to pump and spray gun while system is pressurized. • ALWAYS point spray gun in safe direction, press red button and squeeze spray gun trigger, to release high pressure, every time you stop engine. • NEVER aim spray gun at people, animals, or plants. • DO NOT secure spray gun in open position. • DO NOT leave spray gun unattended while machine is running. • NEVER use a spray gun which does not have a trigger lock or trigger guard in place and in working order. • Always be certain spray gun, nozzles and accessories are correctly attached. 	

 WARNING	
	<p>Unintentional sparking can result in fire or electric shock.</p>
<p>WHEN ADJUSTING OR MAKING REPAIRS TO YOUR PRESSURE WASHER</p> <ul style="list-style-type: none"> • Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug. <p>WHEN TESTING FOR ENGINE SPARK</p> <ul style="list-style-type: none"> • Use approved spark plug tester. • DO NOT check for spark with spark plug removed. 	

 WARNING	
	<p>Starter and other rotating parts can entangle hands, hair, clothing, or accessories.</p> <ul style="list-style-type: none"> • NEVER operate pressure washer without protective housing or covers. • DO NOT wear loose clothing, jewelry or anything that may be caught in the starter or other rotating parts. • Tie up long hair and remove jewelry.

 WARNING	
	<p>Risk of eye injury. Spray can splash back or propel objects.</p> <ul style="list-style-type: none"> • Always wear safety goggles when using this equipment or in vicinity of where equipment is in use. • Before starting the pressure washer, be sure you are wearing adequate safety goggles. • NEVER substitute safety glasses for safety goggles.

NOTICE
<p>High pressure spray may damage fragile items including glass.</p> <ul style="list-style-type: none"> • DO NOT point spray gun at glass when using red 0° spray tip. • NEVER aim spray gun at plants.

NOTICE
<p>Improper treatment of pressure washer can damage it and shorten its life.</p> <ul style="list-style-type: none"> • If you have questions about intended use, ask dealer or contact qualified service center. • NEVER operate units with broken or missing parts, or without protective housing or covers. • DO NOT by-pass any safety device on this machine. • DO NOT tamper with governed speed. • DO NOT operate pressure washer above rated pressure. • DO NOT modify pressure washer in any way. • Before starting pressure washer in cold weather, check all parts of the equipment to be sure ice has not formed there. • NEVER move machine by pulling on hoses. Use handle provided on unit. • Check fuel system for leaks or signs of deterioration, such as chafed or spongy hose, loose or missing clamps, or damaged tank or cap. Correct all defects before operating pressure washer. • This equipment is designed to be used with Briggs & Stratton Power Products authorized parts ONLY. If equipment is used with parts that DO NOT comply with minimum specifications, user assumes all risks and liabilities.

Assembly



Read entire operator's manual before you attempt to assemble or operate your new pressure washer.

Your pressure washer requires some assembly and is ready for use after it has been properly serviced with the recommended oil and fuel.

If you have any problems with the assembly of your pressure washer, please call the pressure washer helpline at **(800) 743-4115**. If calling for assistance, please have the model, revision, and serial number from the data tag available.

Unpack Pressure Washer

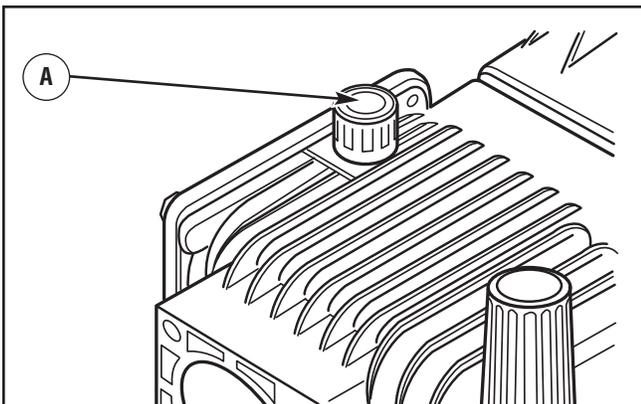
1. Remove the parts bag, accessories, and inserts included with pressure washer.
2. Open carton completely by cutting each corner from top to bottom.
3. Ensure you have all included items prior to assembly.

Items in the carton include:

- Main Unit
- Handle
- High Pressure Hose with Quick Connect Fittings
- Spray Gun with Quick Connect Fitting
- Nozzle Extension with Quick Connect Fitting
- Oil Bottle
- Parts Bag (which includes the following):
 - Safety Goggles
 - Operator's Manual
 - Owner's Registration Card
 - Bag containing 5 Multi-Colored Spray Tips
 - Handle Fastening Hardware Kit (which includes):
 - Carriage Bolts (2)
 - Plastic Knobs (2)

To prepare your pressure washer for operation, you will need to perform these tasks:

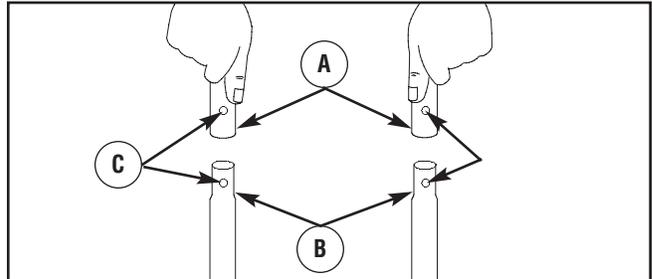
1. Fill out and send in registration card.
2. Verify oil dipstick **(A)** has been installed into pump.



3. Attach handle to main unit.
4. Add oil to engine crankcase.
5. Add fuel to fuel tank.
6. Connect high pressure hose to spray gun and pump.
7. Connect water supply to pump.
8. Attach nozzle extension to spray gun.
9. Select/attach quick connect spray tip to nozzle extension.

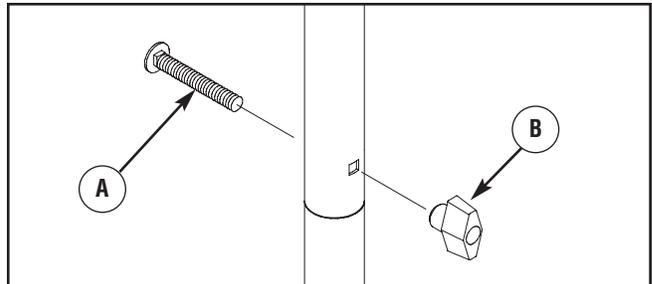
Attach Handle

1. Place handle **(A)** onto handle supports **(B)** connected to main unit. Make sure holes **(C)** in handle align with holes **(C)** on handle supports.



NOTE: It may be necessary to move the handle supports from side to side in order to align the handle so it will slide over the handle supports.

2. Insert carriage bolts **(A)** through holes from back of unit and attach a plastic knob **(B)** from front of unit. Tighten by hand.



3. Insert multi-colored spray tips in spaces provided in handle.

Add Engine Oil

1. Place pressure washer on a flat, level surface.
2. Clean area around oil fill and remove yellow oil fill cap.

NOTE: See *Oil Recommendations* in *Maintenance* section. Verify provided oil bottle is the correct viscosity for current ambient temperature.

3. Using oil funnel (optional), slowly pour contents of provided oil bottle into oil fill opening.

NOTICE

Improper treatment of pressure washer can damage it and shorten its life.

- DO NOT attempt to crank or start the engine before it has been properly serviced with the recommended oil. This may result in an engine failure.

4. Replace oil fill cap and fully tighten.

Add Fuel

Fuel must meet these requirements:

- Clean, fresh, unleaded gasoline.
- A minimum of 87 octane/87 AKI (91 RON). High altitude use, see *High Altitude*.
- Gasoline with up to 10% ethanol (gasohol) or up to 15% MTBE (methyl tertiary butyl ether) is acceptable.

NOTICE

Avoid pressure washer damage.

Failure to follow Operator's Manual for fuel recommendations voids warranty.

- DO NOT use unapproved gasoline such as E85.
- DO NOT mix oil in gasoline.
- DO NOT modify engine to run on alternate fuels.

To protect the fuel system from gum formation, mix in a fuel stabilizer when adding fuel. See *Storage*. All fuel is not the same. If you experience starting or performance problems after using fuel, switch to a different fuel provider or change brands. This engine is certified to operate on gasoline. The emission control system for this engine is EM (Engine Modifications).

WARNING



Fuel and its vapors are extremely flammable and explosive.

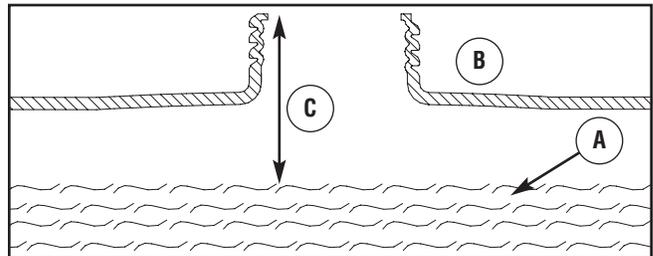


Fire or explosion can cause severe burns or death.

WHEN ADDING FUEL

- Turn pressure washer OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Fill fuel tank outdoors.
- DO NOT overfill tank. Allow space for fuel expansion.
- If fuel spills, wait until it evaporates before starting engine.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- DO NOT light a cigarette or smoke.

1. Clean area around fuel fill cap, remove cap.
2. Slowly add regular unleaded fuel (A) to fuel tank (B). Be careful not to overfill. Allow about 1.5" (4 cm) (C) of tank space for fuel expansion.



3. Install fuel cap and let any spilled fuel evaporate before starting engine.

High Altitude

At altitudes over 5,000 feet (1524 meters), a minimum 85 octane / 85 AKI (89 RON) gasoline is acceptable. To remain emissions compliant, high altitude adjustment is required. Operation without this adjustment will cause decreased performance, increased fuel consumption, and increased emissions. See an Authorized Briggs & Stratton dealer for high altitude adjustment information. Operation of the engine at altitudes below 2,500 feet (762 meters) with the high altitude kit is not recommended.

Connect Hose and Water Supply to Pump

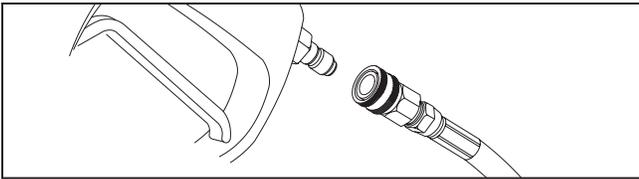
NOTICE

DO NOT run the pump without the water supply connected and turned on.

- Damage to equipment resulting from failure to follow this instruction will void warranty.

NOTE: Remove and discard the shipping caps from the pump's high pressure outlet and water inlet before attaching hoses.

1. Uncoil high pressure hose and attach quick connect end of hose to base of spray gun. Pull down on collar of quick connect, slide onto spray gun and let go of collar. Tug on hose to be sure of tight connection.



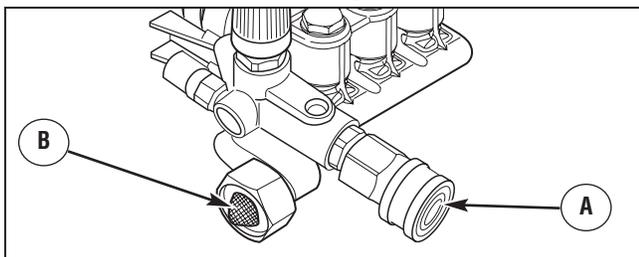
WARNING



The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

- NEVER connect high pressure hose to nozzle extension.
- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- Always be certain spray gun, nozzles and accessories are correctly attached.

2. Similarly, attach other end of high pressure hose to high pressure outlet (A) on pump. Pull down on collar of quick connect, slide onto pump and let go of collar. Pull on hose to be sure of tight connection.



3. Before connecting garden hose to water inlet, inspect inlet screen (B). Clean screen if it contains debris or have it replaced if damaged. DO NOT run pressure washer if inlet screen is damaged.

4. Run water through your garden hose for 30 seconds to clean out any debris.

IMPORTANT: DO NOT siphon standing water for the water supply. Use ONLY cold water (less than 100°F).

5. Connect the garden hose (not to exceed 50 feet in length) to the water inlet. Tighten by hand.

NOTICE

Using a One Way Valve (vacuum breaker or check valve) at pump inlet can cause pump or inlet connector damage.

- There MUST be at least ten feet (3 m) of unrestricted garden hose between the pressure washer inlet and any device, such as a vacuum breaker or check valve.
- Damage to equipment resulting from failure to follow this instruction will void warranty.

6. Turn ON the water, press red button on the gun and squeeze the trigger to purge the pump system of air and impurities.

WARNING



Risk of eye injury.

Spray can splash back or propel objects.

- Always wear safety goggles when using this equipment or in vicinity of where equipment is in use.
- Before starting the pressure washer, be sure you are wearing adequate safety goggles.
- NEVER substitute safety glasses for safety goggles.

Checklist Before Starting Engine

Review the unit's assembly to ensure you have performed all of the following.

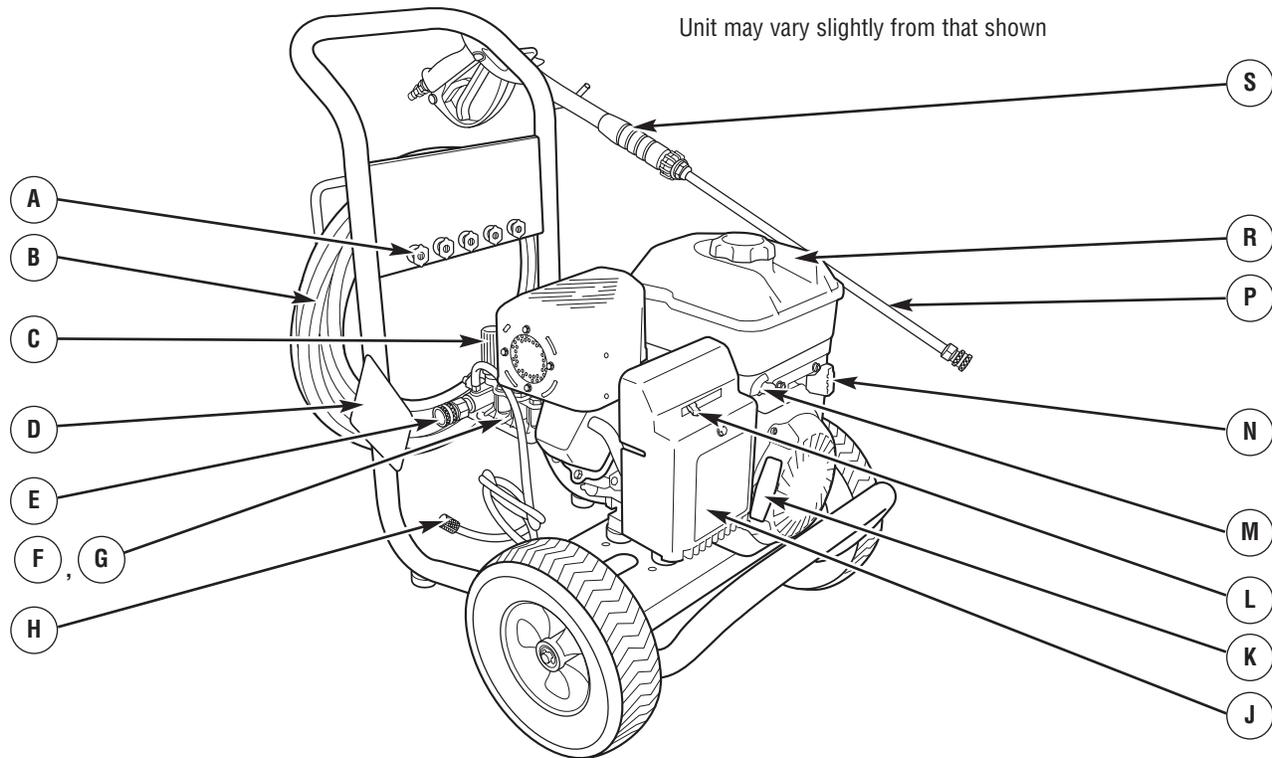
1. Be sure to read the *Operator Safety* section and *How to Use Your Pressure Washer in Operation* section before using pressure washer.
2. Make sure handle is in place and secure.
3. Check that oil has been added to proper level in the engine crankcase.
4. Add proper fuel to fuel tank.
5. Check for properly tightened hose connections.
6. Check to make sure there are no kinks, cuts, or damage to high pressure hose.
7. Provide a proper water supply at an adequate flow.

Features and Controls



Read this Operator's Manual and safety rules before operating your pressure washer.

Compare the illustrations with your pressure washer, to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.



A - Spray Tips — Detergent, 0°, 15°, 25° and 40°: for various high pressure cleaning applications.

B - High Pressure Hose — Connect one end to water pump and the other end to spray gun.

C - Pressure Control Knob — Varies pressure of high pressure spray.

D - Warning/Operating Instructions Tag — Identifies hazards and proper procedure to start/stop pressure washer.

E - High Pressure Outlet — Connection for high pressure hose.

F - Pump — Develops high pressure.

G - Automatic Cool Down System — Cycles water through pump when water reaches 125°-155°F. Warm water will discharge from pump onto ground. This system prevents internal pump damage.

H - Detergent Siphoning Tube/Filter — Use to siphon pressure washer safe detergents into the low pressure stream.

J - Air Filter — Protects engine by filtering dust and debris out of intake air.

K - Recoil Starter — Used for starting the engine manually.

L - Choke Lever — Prepares a cold engine for starting.

M - Fuel Valve — Used to turn fuel supply on and off to engine.

N - Throttle Lever — Sets engine in starting mode for recoil starter and stops a running engine.

P - Nozzle Extension with Quick Connect — Allows you to switch between different spray tips.

R - Fuel Tank — Fill tank with regular unleaded fuel. Always leave room for fuel expansion.

S - Spray Gun — Controls the application of water onto cleaning surface with trigger device. Includes trigger lock.

Items Not Shown:

Data Tag (near rear of base plate) — Provides model and serial number of pressure washer. Please have these readily available if calling for assistance.

Oil Drain — Drain engine oil here.

Oil Fill — Check and add engine oil here.

Safety Goggles — Always use the enclosed safety goggles when running your pressure washer.

Water Inlet — Connection for garden hose.

Operation

If you have any problems operating your pressure washer, please call the pressure washer helpline at **(800) 743-4115**.

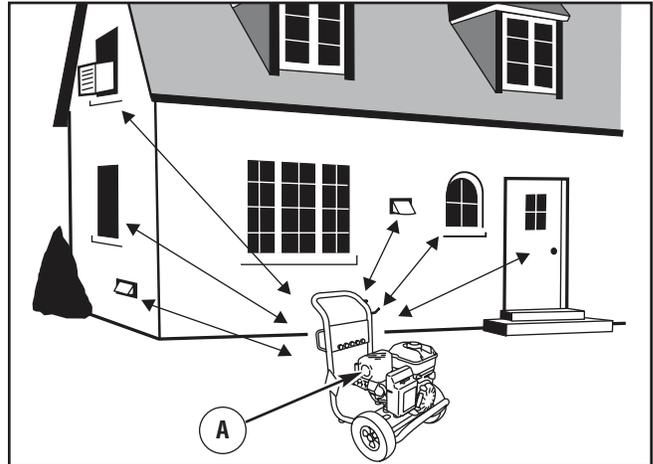
Pressure Washer Location

Clearances and Air Movement

 WARNING	
	Exhaust heat/gases can ignite combustibles, structures or damage fuel tank causing a fire.
<ul style="list-style-type: none">• Keep at least 5 ft. (1.5 m) clearance on all sides of pressure washer including overhead.	

Place pressure washer outdoors in an area that will not accumulate deadly exhaust gas. **DO NOT** place pressure washer where exhaust gas (**A**) could accumulate and enter inside or be drawn into a potentially occupied building. Ensure exhaust gas is kept away from any windows, doors, ventilation intakes, or other openings that can allow exhaust gas to collect in a confined area. Prevailing winds and air currents should be taken into consideration when positioning pressure washer.

 WARNING	
	Running engine gives off carbon monoxide, an odorless, colorless, poison gas. Breathing carbon monoxide can cause headache, fatigue, dizziness, vomiting, confusion, seizures, nausea, fainting or death.
<ul style="list-style-type: none">• Operate pressure washer ONLY outdoors.• Keep exhaust gas from entering a confined area through windows, doors, ventilation intakes, or other openings.• DO NOT start or run engine indoors or in an enclosed area, even if windows and doors are open.	



How to Start Your Pressure Washer

To start your pressure washer for the first time, follow these instructions step-by-step. This starting information also applies if you have let the pressure washer sit idle for at least a day.

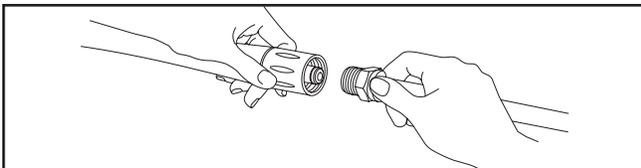
1. Place pressure washer outside near a water source capable of supplying water at a flow rate greater than 1.0 gallons per minute more than the pressure washer is rated for and no less than 20 PSI at pressure washer end of garden hose. DO NOT siphon supply water.
2. Check that high pressure hose is tightly connected to spray gun and pump. See *Assembly* section.
3. Make sure unit is in a level position.
4. Connect garden hose to water inlet on pressure washer pump.

NOTICE

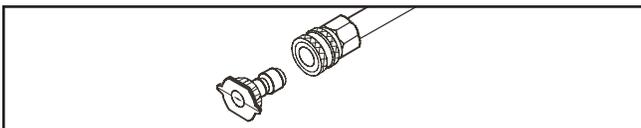
DO NOT run the pump without the water supply connected and turned on.

- Damage to equipment resulting from failure to follow this instruction will void warranty.
- Low pump inlet water pressure or flow will cause poor performance and can damage pump.

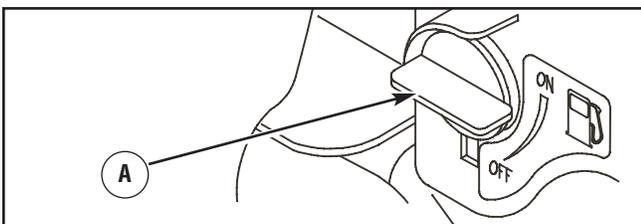
5. Turn ON water, point gun in a safe direction, press the red button and squeeze trigger to purge pump system of air and impurities.
6. Attach nozzle extension to spray gun. Tighten by hand.



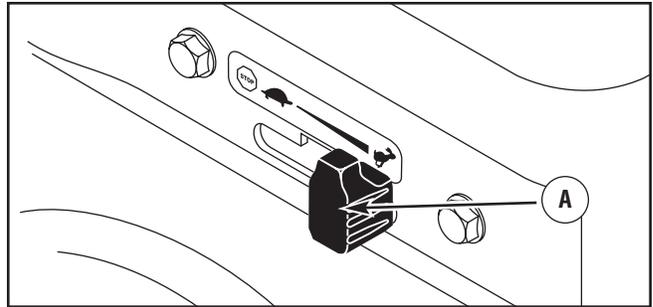
7. Choose spray tip you want to use, pull back on collar of nozzle extension, insert spray tip and release collar. Tug on spray tip to make sure it is securely in place. See *How to Use Spray Tips*.



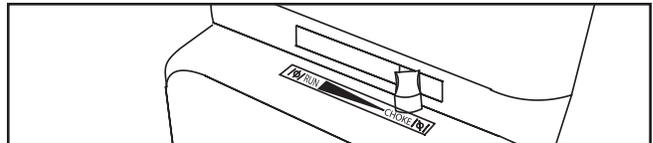
8. Rotate fuel shut-off valve to "On" position (A) (fully counter-clockwise).



9. Move throttle control lever (A) to "High" position, shown on engine as a rabbit 🐰.



10. Move choke lever to "Choke" |↘| position.



NOTE: For a warm engine, be sure the choke lever is in the "Run" |↑| position.

IMPORTANT: Before starting the pressure washer, be sure you are wearing adequate safety goggles.

WARNING



Risk of eye injury.

Spray can splash back or propel objects.

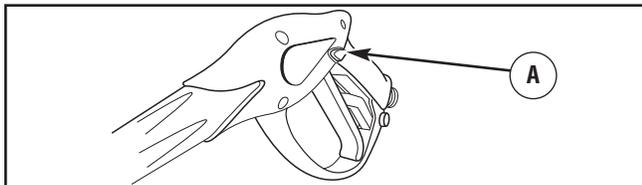
- Always wear safety goggles when using this equipment or in vicinity of where equipment is in use.
- Before starting the pressure washer, be sure you are wearing adequate safety goggles.
- NEVER substitute safety glasses for safety goggles.

11. When starting engine, position yourself as recommended below and grasp starter grip handle and pull slowly until you feel some resistance. Then pull rapidly to start engine.



 WARNING	
	<p>Starter cord kickback (rapid retraction) can result in bodily injury. Kickback will pull hand and arm toward engine faster than you can let go.</p> <p>Broken bones, fractures, bruises, or sprains could result.</p>
<ul style="list-style-type: none"> • NEVER pull starter cord without first relieving spray gun pressure. • When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback. • After each starting attempt, where engine fails to run, always point spray gun in safe direction, press red button and squeeze spray gun trigger to release high pressure. • Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back. 	

12. Return starter grip handle slowly. DO NOT let rope “snap back” against starter.
13. When engine starts, slowly move choke lever to “Run” |↑| position, as engine warms. If engine falters, move choke lever to “Choke” |↘| position, then to “Run” |↑| position.
14. After each starting attempt, where engine fails to run, always point gun in safe direction and squeeze spray gun trigger to release high pressure. Move choke lever to “Run” |↑| position, and repeat steps 11 through 13.
15. If engine fails to start after six pulls, move choke lever to “Run” |↑| position, and repeat steps 11 through 13.
16. Point spray gun in a safe direction, push the red button (A) to release the trigger lock, and pull the trigger.



 WARNING	
	<p>The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.</p> <p>Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.</p>
<ul style="list-style-type: none"> • DO NOT allow CHILDREN to operate pressure washer. • Keep high pressure hose connected to pump and spray gun while system is pressurized. • NEVER aim spray gun at people, animals, or plants. • DO NOT secure spray gun in open position. • DO NOT leave spray gun unattended while machine is running. • NEVER use a spray gun which does not have a trigger lock or trigger guard in place and in working order. • Always be certain spray gun, nozzles and accessories are correctly attached. 	

 WARNING	
	<p>Contact with muffler area can result in serious burns.</p>
	<p>Exhaust heat/gases can ignite combustibles, structures or damage fuel tank causing a fire.</p>
<ul style="list-style-type: none"> • DO NOT touch hot parts and AVOID hot exhaust gases. • Allow equipment to cool before touching. • Keep at least 5 feet (1.5 m) of clearance on all sides of pressure washer including overhead. • Code of Federal Regulation (CFR) Title 36 Parks, Forests, and Public Property require equipment powered by an internal combustion engine to have a spark arrester, maintained in effective working order, complying to USDA Forest service standard 5100-1C or later revision. In the State of California a spark arrester is required under section 4442 of the California Public resources code. Other states may have similar laws. 	

How to Stop Your Pressure Washer

1. Release spray gun trigger and let engine idle for two minutes.
2. Move throttle control lever on engine to “Stop”  position.
3. ALWAYS point spray gun in a safe direction, press red button and squeeze spray gun trigger to release retained high water pressure.

IMPORTANT: Spray gun traps high water pressure, even when engine is stopped and water is disconnected.

 WARNING	
	<p>The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.</p> <p>Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.</p>
<ul style="list-style-type: none"> • Keep high pressure hose connected to pump and spray gun while system is pressurized. • ALWAYS point spray gun in safe direction, press red button and squeeze spray gun trigger, to release high pressure, every time you stop engine. 	

How to Use Spray Tips

The quick-connect on the nozzle extension allows you to switch between five different quick connect spray tips. Spray tips can be changed while pressure washer is running once spray gun trigger safety lock is engaged. The spray tips vary the spray pattern as shown below.

 WARNING	
	The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.
<ul style="list-style-type: none"> • NEVER exchange spray tips without the trigger safety lock engaged on the spray gun. • DO NOT twist spray tips while spraying. 	

Follow these instructions to change spray tips:

1. Pull back collar on quick-connect and pull current spray tip off. Store spray tips in holder provided on the handle.
2. Select desired spray tip:
 - For gentle rinse, select white 40° or green 25° spray tip.
 - To scour surface, select yellow 15° or red 0° spray tip.
 - To apply detergent, select black spray tip.
3. Pull back on collar, insert new spray tip and release collar. Tug on spray tip to make sure it is securely in place.

Usage Tips

- For most effective cleaning, keep spray tip from 8 to 24 inches away from cleaning surface.
- If you get spray tip too close, especially using a high pressure spray tip, you may damage surface being cleaned.
- DO NOT get closer than 6 inches when cleaning tires.

Cleaning and Applying Detergent

 CAUTION
Chemicals can cause bodily injury, and/or property damage.
<ul style="list-style-type: none"> • NEVER use caustic liquid with pressure washer. • Use ONLY pressure washer safe detergents/soaps. Follow all manufacturers instructions.

To apply detergent, follow these steps:

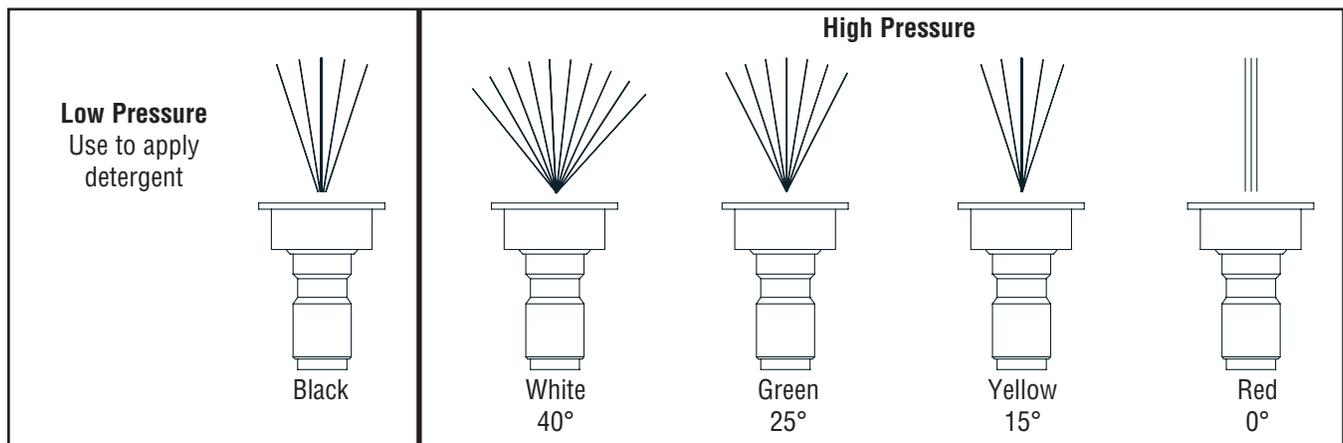
1. Review use of spray tips.
2. Prepare detergent solution as required by job.
3. Place small filter end of detergent siphoning tube into detergent container.

NOTICE
Contact with the hot muffler can damage detergent siphoning tube.
<ul style="list-style-type: none"> • When inserting the filter into a detergent solution bottle, route the tube so as to keep it from inadvertently contacting the hot muffler.

NOTE: Make sure the filter is fully submerged in detergent while applying detergent.

4. Make sure black spray tip is installed.

NOTE: Detergent cannot be applied with the high pressure spray tips (White, Green, Yellow or Red).



5. Make sure garden hose is connected to water inlet. Check that high pressure hose is connected to spray gun and pump. Turn on water.

NOTICE

You must attach all hoses before you start the engine.

- Starting the engine without all the hoses connected and without the water turned ON will damage the pump.
- Damage to equipment resulting from failure to follow this instruction will void warranty.

6. Start engine following instructions *How to Start Your Pressure Washer*.
7. Apply detergent to a dry surface, starting at lower portion of area to be washed and work upward, using long, even, overlapping strokes.
8. Allow detergent to "soak in" for 3-5 minutes before washing and rinsing. Reapply as needed to prevent surface from drying. DO NOT allow detergent to dry on (prevents streaking).

IMPORTANT: You must flush the detergent siphoning system after each use by placing the filter into a bucket of clean water, then run the pressure washer in low pressure for 1-2 minutes.

Pressure Washer Rinsing

1. Remove black spray tip from nozzle extension.
2. Select and install desired high pressure spray tip following instructions *How to Use Spray Tips*.
3. Keep spray gun a safe distance from area you plan to spray.

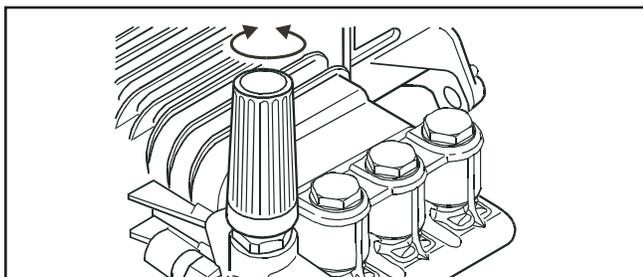
⚠ WARNING



Kickback from spray gun can cause you to fall.

- Operate pressure washer from a stable surface.
- Be extremely careful if you must use the pressure washer from a ladder, scaffolding, or any other similar location.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back.

4. Increase (decrease) spray pressure by turning pressure control knob (A) clockwise (counterclockwise). Use lower pressure to wash items such as a car or boat. Use higher pressure to strip paint and degrease driveways.



5. Apply a high pressure spray to a small area and then check surface for damage. If no damage is found, you can assume it is okay to continue rinsing.
6. Start at top of area to be rinsed, working down with same overlapping strokes as you used for cleaning.

Cleaning Detergent Siphoning Tube

If you used the detergent siphoning tube, you must flush it with clean water before stopping the engine.

1. Place detergent siphoning tube/filter in a bucket full of clean water.
2. Remove high pressure spray tip from nozzle extension.
3. Select and install black detergent spray tip following instructions *How to Use Spray Tips*.
4. Flush for 1-2 minutes.
5. Shut off engine following instructions *How to Stop Pressure Washer* and turn off water supply.
6. ALWAYS point spray gun in a safe direction, press red button and squeeze spray gun trigger to release retained high water pressure.

IMPORTANT: Spray gun traps high water pressure, even when engine is stopped and water is disconnected.

⚠ WARNING



The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.

- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- ALWAYS point spray gun in safe direction, press red button and squeeze spray gun trigger, to release high pressure, every time you stop engine.

Automatic Cool Down System (Thermal Relief)

If you run the engine on your pressure washer for 3-5 minutes without pressing the trigger on the spray gun, circulating water in the pump can reach temperatures above 125°F. The system engages to cool the pump by **discharging the warm water onto the ground.**

Maintenance

Maintenance Schedule

Follow the hourly or calendar intervals, whichever occurs first. More frequent service is required when operating in adverse conditions noted below.

Maintenance Schedule - Fill in Dates as You Complete Regular Service							
Maintenance Task	Service Dates				Service Dates		
	Before Each Use	Every 25 Hours or Yearly	Every 50 Hours or Yearly	Every 100 Hours or Yearly			
Pressure Washer							
Check/clean water inlet screen	X ¹						
Check high pressure hose	X						
Check detergent siphoning hose/filter	X						
Check spray gun and assembly for leaks	X						
Prepare pump for storage below 32°F	See <i>Winter Storage</i>						
Engine							
Check oil level	X						
Clean debris	X						
Change engine oil			X ²				
Service air cleaner		X ³					
Service spark plug				X			
Service spark arrester			X				
Air cooling system				X ³			
Prepare for storage	If unit is to remain idle for longer than 30 days.						

¹ Clean if clogged. Replace if perforated or torn.

² Change oil after the first (5) operating hours and every 50 hours or yearly thereafter. Change oil sooner when operating under dirty or dusty conditions.

³ Replace more often under dirty or dusty conditions.

General Recommendations

Regular maintenance will improve the performance and extend the life of the pressure washer. See any qualified dealer for service.

The pressure washer's warranty does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain the pressure washer as instructed in this manual, including proper storage as detailed in *Winter Storage* and *Long Term Storage*.

NOTE: Should you have questions about replacing components on your pressure washer, please call **(800) 743-4115** for assistance.

Some adjustments will need to be made periodically to properly maintain your pressure washer.

All service and adjustments should be made at least once each season. Follow the requirements in the Maintenance Schedule chart above.

NOTE: Once a year you should clean or replace the spark plug, clean or replace the air filter, and check the spray gun and nozzle extension assembly for wear. A new spark plug and clean air filter assure proper fuel-air mixture and help your engine run better and last longer.

Emissions Control

Maintenance, replacement, or repair of the emissions control devices and systems may be performed by any non-road engine repair establishment or individual. See *Emissions Control System Warranty* in *Warranties* section.

Before Each Use

1. Check engine oil level.
2. Clean debris.
3. Check water inlet screen for damage.
4. Check high pressure hose for leaks.
5. Check detergent siphoning tube and filter for damage.
6. Check spray gun and nozzle extension assembly for leaks.
7. Rinse out garden hose to flush out debris.

Pressure Washer Maintenance

Clean Debris

Daily or before use, clean accumulated debris from cleaning system. Keep linkage, spring and controls clean. Keep area around and behind muffler free from any combustible debris. Inspect cooling air slots and openings on the pressure washer. These openings must be kept clean and unobstructed.

Pressure washer parts should be kept clean to reduce the risk of overheating and ignition of accumulated debris.

- Use a damp cloth to wipe exterior surfaces clean.

NOTICE

Improper treatment of pressure washer can damage it and shorten its life.

- DO NOT insert any objects through cooling slots.
- Use a soft bristle brush to loosen caked on dirt, oil, etc.
- Use a vacuum cleaner to pick up loose dirt and debris.

Check and Clean Inlet Screen

Examine the screen on the pump's water inlet. Clean it if the screen is clogged or replace it if screen is damaged.

Check High Pressure Hose

The high pressure hose can develop leaks from wear, kinking, or abuse. Inspect the hose each time before using it. Check for cuts, leaks, abrasions or bulging of cover, damage or movement of couplings. If any of these conditions exist, replace the hose immediately.

WARNING



The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

- NEVER repair high pressure hose. Replace it.
- Replacement hose rating MUST exceed maximum pressure rating of unit.

Check Detergent Siphoning Tube

Examine the filter on the detergent tube and clean if clogged. The tube should fit tightly on the barbed fitting. Examine the tube for leaks or tears. Replace the filter or tube if either is damaged.

Check Gun and Nozzle Extension

Examine the hose connection to the spray gun and make sure it is secure. Test the trigger by pressing the red button and making sure the trigger “springs back” into place when you release it. You should not be able to press the trigger without pressing the red button. Replace spray gun immediately if it fails any of these tests.

Nozzle Maintenance

A pulsing sensation felt while squeezing the spray gun trigger may be caused by excessive pump pressure. The principal cause of excessive pump pressure is a spray tip clogged or restricted with foreign materials, such as dirt, etc. To correct the problem, immediately clean the spray tip following these instructions:

1. Shut off engine and turn off water supply.
2. ALWAYS point spray gun in a safe direction, press red button and squeeze spray gun trigger to release retained high water pressure.

WARNING

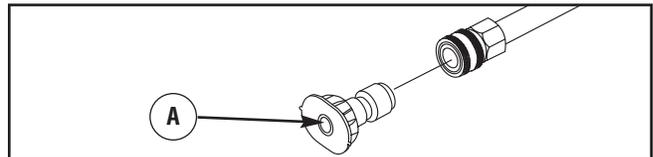


The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

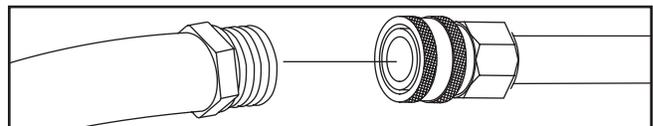
Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.

- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- ALWAYS point spray gun in safe direction, press red button and squeeze spray gun trigger, to release high pressure, every time you stop engine.

3. Remove spray tip from end of nozzle extension.
4. Use a small paper clip to free any foreign material clogging or restricting spray tip (A).



5. Remove nozzle extension from spray gun.
6. Using a garden hose, remove additional debris by back flushing water through nozzle extension. Back flush between 30 to 60 seconds.



7. Reinstall spray tip into nozzle extension.
8. Reconnect nozzle extension to spray gun.
9. Make sure garden hose is connected to water inlet. Check that high pressure hose is connected to spray gun and pump. Turn on water.

- Start engine following instructions *How to Start Your Pressure Washer*.
- Test pressure washer by operating with each quick connect spray tip.

O-Ring Maintenance

Purchase an O-Ring/Maintenance Kit, model 6048, by contacting the nearest authorized service center. It is not included with the pressure washer. This kit includes replacement o-rings, rubber washer and water inlet filter. Refer to the instruction sheet provided in the kit to service your unit's o-rings.

 WARNING	
	The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.
<ul style="list-style-type: none"> NEVER repair leaking connections with sealant of any kind. Replace o-ring or seal. 	

Pump Oil Maintenance

Changing Pump Oil

Change oil after first 50 hours of operation and then every 200 hours or 3 months, whichever occurs first.

NOTE: When changing pump oil, use only high quality nondetergent 30 weight oil. Use no special additives.

Change pump oil as follows:

- Clean area around brass oil drain plug at bottom of pump.
- Remove oil drain plug. Drain oil completely into an approved container.
- When oil has completely drained, install oil drain plug and tighten firmly.
- Clean area around pump oil dipstick. Remove dipstick and fill pump with recommended oil (approximately 9.6 oz.) to "Full" mark on dipstick.
- Install pump oil dipstick.
- Wipe up any spilled oil.

Engine Maintenance

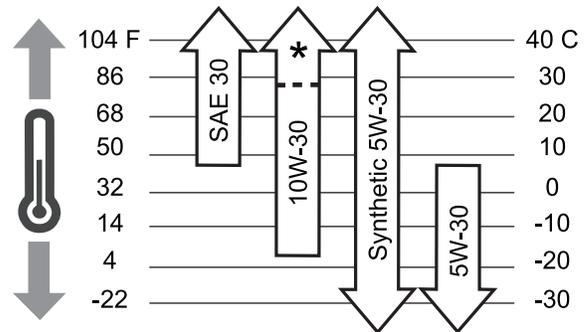
 WARNING	
	Unintentional sparking can result in fire or electric shock.
WHEN ADJUSTING OR MAKING REPAIRS TO YOUR PRESSURE WASHER	
<ul style="list-style-type: none"> Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug. 	
WHEN TESTING FOR ENGINE SPARK	
<ul style="list-style-type: none"> Use approved spark plug tester. DO NOT check for spark with spark plug removed. 	

Oil

Oil Recommendations

NOTE: Use a high quality detergent oil classified "For Service SF, SG, SH, SJ" or higher. DO NOT use special additives.

- Choose a viscosity according to the table below:



NOTE: Synthetic oil meeting ILSAC GF-2, API certification mark and API service symbol with "SJ/CF ENERGY CONSERVING" or higher, is an acceptable oil at all temperatures. Use of synthetic oil does not alter required oil change intervals.

SAE 30: 40°F and higher (5°C and higher) is good for all purpose use above 40°F, use below 40°F will cause hard starting.

10W-30: 0 to 100°F (-18 to 38°C) is better for varying temperature conditions. This viscosity improves cold weather starting, but may increase oil consumption above 80°F (27°C).

*Check oil level frequently at higher temperatures.

Synthetic 5W-30: -20 to 120°F (-30 to 40 °C) provides the best protection at all temperatures as well as improved starting with less oil consumption.

5W-30: 40°F and below (5°C and below) is recommended for winter use and works best in cold conditions.

Checking Oil Level

Oil level should be checked prior to each use or at least every 5 hours of operation. Keep oil level maintained.

1. Make sure pressure washer is on a level surface.
2. Clean area around oil fill and remove oil fill cap.
3. Verify oil is at the point of overflowing at oil fill opening.
4. Replace and tighten oil fill cap.

Adding Engine Oil

1. Make sure pressure washer is on a level surface.
2. Check oil level as described in *Checking Oil Level*.
3. If needed, slowly pour oil into oil fill opening to the point of overflowing at oil fill.
4. Replace and tighten oil fill cap.

Changing Engine Oil

Change the engine oil after the first 5 hours and every 50 hours thereafter. If you are using your pressure washer under extremely dirty or dusty conditions, or in extremely hot weather, change the oil more often.

CAUTION

Avoid prolonged or repeated skin contact with used motor oil.

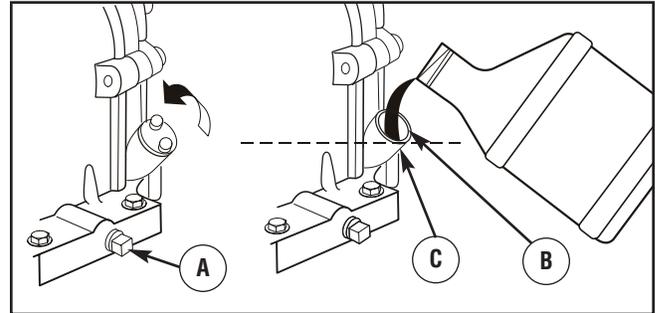
- Used motor oil has been shown to cause skin cancer in certain laboratory animals.
- Thoroughly wash exposed areas with soap and water.



KEEP OUT OF REACH OF CHILDREN. DON'T POLLUTE. CONSERVE RESOURCES. RETURN USED OIL TO COLLECTION CENTERS.

Change oil while engine is still warm from running, as follows:

1. Make sure unit is on a level surface.
2. Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.
3. Clean area around oil drain plug (A). The oil drain plug is located at base of engine, opposite carburetor.



4. Remove oil drain plug and drain oil completely into a suitable container.
5. Reinstall oil drain plug and tighten securely. Remove oil fill cap.
6. Slowly pour oil (about 20 oz.) into oil fill opening (B) to the point of overflowing (C) at oil fill cap. DO NOT overfill.
7. Reinstall oil fill cap. Finger tighten cap securely.
8. Wipe up any spilled oil.

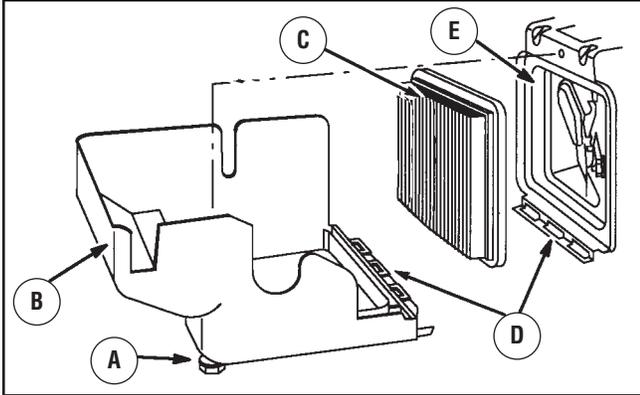
Service Air Cleaner

Your engine will not run properly and may be damaged if you run it with a dirty air cleaner.

Service the air cleaner once every 25 hours of operation or once each year, whichever comes first. Service more often if operating under dirty or dusty conditions.

To service the air cleaner, follow these steps:

1. Loosen screw (A) and tilt cover (B) down.

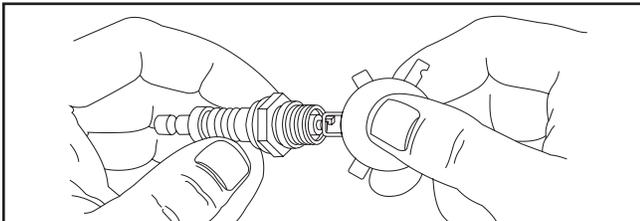


2. Carefully remove cartridge (C) assembly.
3. To clean cartridge, gently tap pleated paper side on a flat surface.
4. Reinstall clean or new cartridge assembly inside cover.
5. Insert cover's tabs (D) into slots in bottom of base (E).
6. Tilt cover up and tighten screw securely to base.

Service Spark Plug

Change the spark plug every 100 hours of operation or once each year, whichever comes first. This will help your engine to start easier and run better.

1. Clean area around spark plug.
2. Remove and inspect spark plug.
3. Check electrode gap with wire feeler gauge and set spark plug gap to .030 inch (.76 mm) if necessary.



4. Replace spark plug if electrodes are pitted, burned or porcelain is cracked. Use the recommended replacement plug. See *Specifications*.
5. Install spark plug and tighten firmly.

Spark Arrester Service

Your engine is not factory-equipped with a spark arrester. In some areas, it is illegal to operate an engine without a spark arrester. Check local laws and regulations. A spark arrester is available from your nearest qualified service center. The spark arrester must be serviced every 50 hours to keep it functioning as designed.

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

WARNING



Contact with muffler area can result in serious burns.



Exhaust heat/gases can ignite combustibles, structures or damage fuel tank causing a fire.

- DO NOT touch hot parts and AVOID hot exhaust gases.
 - Allow equipment to cool before touching.
 - Keep at least 5 feet (1.5 m) of clearance on all sides of pressure washer including overhead.
 - Code of Federal Regulation (CFR) Title 36 Parks, Forests, and Public Property require equipment powered by an internal combustion engine to have a spark arrester, maintained in effective working order, complying to USDA Forest service standard 5100-1C or later revision. In the State of California a spark arrester is required under section 4442 of the California Public resources code. Other states may have similar laws.
- Remove spark arrester screen for cleaning and inspection.
 - Replace if screen is damaged.

Air Cooling System

Over time debris may accumulate in cylinder cooling fins and cannot be observed without partial engine disassembly. For this reason, we recommend you have a qualified service dealer clean the cooling system per recommended intervals (see *Maintenance Schedule* in beginning of *Maintenance* section). Equally important is to keep top of engine free from debris. See *Clean Debris*.

After Each Use

Water should not remain in the unit for long periods of time. Sediments or minerals can deposit on pump parts and freeze pump action. Follow these procedures after every use:

1. Flush detergent siphoning tube by placing the filter into a pail of clean water while running pressure washer in low pressure mode. Flush for one to two minutes.
2. Shut off engine, turn off water supply, point gun in a safe direction, press red button and squeeze trigger to relieve trapped pressure, and let engine cool.

 WARNING	
	<p>The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.</p> <p>Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.</p>
<ul style="list-style-type: none">• Keep high pressure hose connected to pump and spray gun while system is pressurized.• ALWAYS point spray gun in safe direction, press red button and squeeze spray gun trigger, to release high pressure, every time you stop engine.	

3. Disconnect hose from spray gun and high pressure outlet on pump. Drain water from hose, gun, and nozzle extension. Use a rag to wipe off the hose.
4. Place the spray gun, nozzle extension, spray tips and high pressure hose on the handle.
5. Empty pump of all pumped liquids by pulling recoil handle about six times. This should remove most liquid in pump.
6. Store unit in a clean, dry area.
7. If storing for more than 30 days, see *Long Term Storage*.

 WARNING	
	Fuel and its vapors are extremely flammable and explosive.
	Fire or explosion can cause severe burns or death.
WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK	
<ul style="list-style-type: none">• Store away from furnaces, stoves, water heaters, clothes dryers, or other appliances that have pilot light or other ignition source because they can ignite fuel vapors.	

Winter Storage

NOTICE

You must protect your unit from freezing temperatures.

- Failure to do so will permanently damage your pump and render your unit inoperable.
- Freeze damage is not covered under warranty.

To protect the unit from freezing temperatures:

1. Follow steps 1-5 in the previous section *After Each Use*.
2. Use pump saver, Model 6039, to treat pump. This minimizes freeze damage and lubricates pistons and seals.
3. If pump saver is not available, connect a 3-foot section of garden hose to water inlet adapter. Pour RV-antifreeze (antifreeze without alcohol) into hose. Pull recoil handle twice. Disconnect 3-foot hose.
4. Store unit in a clean, dry area.

Long Term Storage

If you do not plan to use the pressure washer for more than 30 days, you must prepare the engine and pump for long term storage.

Protect Fuel System

Fuel Additive:

Fuel can become stale when stored over 30 days. Stale fuel causes acid and gum deposits to form in the fuel system or on essential carburetor parts. To keep fuel fresh, use Briggs & Stratton FRESH START™ fuel stabilizer, available as a liquid additive or a drip concentrate cartridge.

There is no need to drain gasoline from the engine if a fuel stabilizer is added according to instructions. Run the engine for 2 minutes to circulate the stabilizer throughout the fuel system. The engine and fuel can then be stored up to 24 months.

If gasoline in the engine has not been treated with a fuel stabilizer, it must be drained into an approved container. Run the engine until it stops from lack of fuel. The use of a fuel stabilizer in the storage container is recommended to maintain freshness.

Change Oil

While engine is still warm, drain oil from crankcase. Refill with recommended grade. See *Changing Engine Oil* in *Engine Maintenance*.

Oil Cylinder Bore

- Remove spark plug and pour about 1/2 ounce (15 ml) of clean engine oil into the cylinder.
- Install spark plug and pull starter handle slowly to distribute oil.

Protecting the Pump

To protect the pump from damage caused by mineral deposits or freezing, use PumpSaver, Model 6039, to treat pump. This prevents freeze damage and lubricates pistons and seals.

NOTICE

You must protect your unit from freezing temperatures.

- Failure to do so will permanently damage your pump and render your unit inoperable.
- Freeze damage is not covered under warranty.

NOTE: PumpSaver is available as an optional accessory. It is not included with the pressure washer. Contact the nearest authorized service center to purchase PumpSaver.

To use PumpSaver, make sure the pressure washer is turned off and disconnected from supply water. Read and follow all instructions and warnings given on the PumpSaver container.

Other Storage Tips

1. DO NOT store fuel from one season to another unless it has been treated as described in *Protect Fuel System*.
2. Replace fuel container if it starts to rust. Rust and/or dirt in fuel can cause problems if it's used with this unit.
3. Cover unit with a suitable protective cover that does not retain moisture.

WARNING



Storage covers can be flammable.

- DO NOT place a storage cover over a hot pressure washer.
- Let equipment cool for a sufficient time before placing the cover on the equipment.

4. Store unit in a clean and dry area.

Troubleshooting

Problem	Cause	Correction
<p>Pump has following problems: failure to produce pressure, erratic pressure, chattering, loss of pressure, low water volume.</p>	<ol style="list-style-type: none"> 1. Low pressure spray tip installed. 2. Water inlet is blocked. 3. Inadequate water supply. 4. Inlet hose is kinked or leaking. 5. Clogged inlet hose screen. 6. Water supply is over 100°F (38°C). 7. High pressure hose is blocked or leaks. 8. Spray gun leaks. 9. Spray tip is obstructed. 10. Pump is faulty. 	<ol style="list-style-type: none"> 1. Replace with high pressure spray tip. 2. Clear inlet. 3. Provide adequate water flow. 4. Straighten inlet hose, patch leak. 5. Check and clean inlet hose screen. 6. Provide cooler water supply. 7. Clear blocks in outlet hose. 8. Replace spray gun. 9. Clean spray tip. 10. Contact local service facility.
<p>Detergent fails to mix with spray.</p>	<ol style="list-style-type: none"> 1. Detergent siphoning tube is not submerged. 2. Detergent siphoning tube/filter is clogged or cracked. 3. High pressure spray tip installed. 	<ol style="list-style-type: none"> 1. Insert detergent siphoning tube into detergent. 2. Clean or replace filter/detergent siphoning tube. 3. Replace with low pressure spray tip.
<p>Engine runs good at no-load but "bogs" when load is added.</p>	<p>Engine speed is too slow.</p>	<p>Move throttle control to FAST position. If engine still "bogs down", contact local service facility.</p>
<p>Engine will not start; or starts and runs rough.</p>	<ol style="list-style-type: none"> 1. Low oil level. 2. Dirty air cleaner. 3. Out of fuel. 4. Stale fuel. 5. Spark plug wire not connected to spark plug. 6. Bad spark plug. 7. Water in fuel. 8. Excessively rich fuel mixture. 	<ol style="list-style-type: none"> 1. Fill crankcase to proper level. 2. Clean or replace air cleaner. 3. Fill fuel tank. 4. Drain fuel tank; fill with fresh fuel. 5. Connect wire to spark plug. 6. Replace spark plug. 7. Drain fuel tank; fill with fresh fuel. 8. Contact local service facility.
<p>Engine shuts down during operation.</p>	<p>Out of fuel.</p>	<p>Fill fuel tank.</p>
<p>Engine lacks power.</p>	<p>Dirty air filter.</p>	<p>Replace air filter.</p>

Warranties

Emissions Control System Warranty

Briggs & Stratton Corporation (B&S), the California Air Resources Board (CARB) and the United States Environmental Protection Agency (U.S. EPA)

Emissions Control System Warranty Statement (Owner's Defect Warranty Rights and Obligations)

California, United States and Canada Emissions Control Defects Warranty Statement

The California Air Resources Board (CARB), U.S. EPA and B&S are pleased to explain the Emissions Control System Warranty on your small off-road engine (SORE). In California, new small off-road engines model year 2006 and later must be designed, built and equipped to meet the State's stringent anti-smog standards. Elsewhere in the United States, new non-road, spark-ignition engines certified for model year 1997 and later must meet similar standards set forth by the U.S. EPA. B&S must warrant the emissions control system on your engine for the periods of time listed below, provided there has been no abuse, neglect or improper maintenance of your small off-road engine.

Your emissions control system includes parts such as the carburetor, air cleaner, ignition system, fuel line, muffler and catalytic converter. Also included may be connectors and other emissions related assemblies.

Where a warrantable condition exists, B&S will repair your small off-road engine at no cost to you including diagnosis, parts and labor.

Briggs & Stratton Emissions Control Defects Warranty Coverage

Small off-road engines are warranted relative to emissions control parts defects for a period of two years, subject to provisions set forth below. If any covered part on your engine is defective, the part will be repaired or replaced by B&S.

Owner's Warranty Responsibilities

As the small off-road engine owner, you are responsible for the performance of the required maintenance listed in your Operating and Maintenance Instructions. B&S recommends that you retain all your receipts covering maintenance on your small off-road engine, but B&S cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine owner, you should however be aware that B&S may deny you warranty coverage if your small off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine to an Authorized B&S Service Dealer as soon as a problem exists. The undisputed 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 B&S Service Representative at (414) 259-5262.

The emissions warranty is a defects warranty. Defects are judged on normal engine performance. The warranty is not related to an in-use emissions test.

Briggs & Stratton Emissions Control Defects Warranty Provisions

The following are specific provisions relative to your Emissions Control Defects Warranty Coverage. It is in addition to the B&S engine warranty for non-regulated engines found in the Operator's Manual.

1. Warranted Parts

Coverage under this warranty extends only to the parts listed below (the emissions control systems parts) to the extent these parts were present on the engine purchased.

a. Fuel Metering System

- Cold start enrichment system (soft choke)
- Carburetor and internal parts
- Fuel Pump
- Fuel line, fuel line fittings, clamps
- Fuel tank, cap and tether
- Carbon canister

b. Air Induction System

- Air cleaner
- Intake manifold
- Purge and vent line

c. Ignition System

- Spark plug(s)
- Magneto ignition system

d. Catalyst System

- Catalytic converter
- Exhaust manifold
- Air injection system or pulse valve

e. Miscellaneous Items Used in Above Systems

- Vacuum, temperature, position, time sensitive valves and switches
- Connectors and assemblies

2. Length of Coverage

B&S warrants to the initial owner and each subsequent purchaser that the Warranted Parts shall be free from defects in materials and workmanship which caused the failure of the Warranted Parts for a period of two years from the date the engine is delivered to a retail purchaser.

3. No Charge

Repair or replacement of any Warranted Part will be performed at no charge to the owner, including diagnostic labor which leads to the determination that a Warranted Part is defective, if the diagnostic work is performed at an Authorized B&S Service Dealer. For emissions warranty service contact your nearest Authorized B&S Service Dealer as listed in the "Yellow Pages" under "Engines, Gasoline," "Gasoline Engines," "Lawn Mowers," or similar category.

4. Claims and Coverage Exclusions

Warranty claims shall be filed in accordance with the provisions of the B&S Engine Warranty Policy. Warranty coverage shall be excluded for failures of Warranted Parts which are not original B&S parts or because of abuse, neglect or improper maintenance as set forth in the B&S Engine Warranty Policy. B&S is not liable to cover failures of Warranted Parts caused by the use of add-on, non-original, or modified parts.

5. Maintenance

Any Warranted Part which is not scheduled for replacement as required maintenance or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" shall be warranted as to defects for the warranty period. Any Warranted Part which is scheduled for replacement as required maintenance shall be warranted as to defects only for the period of time up to the first scheduled replacement for that part. Any replacement part that is equivalent in performance and durability may be used in the performance of any maintenance or repairs. The owner is responsible for the performance of all required maintenance, as defined in the B&S Operator's Manual.

6. Consequential Coverage

Coverage hereunder shall extend to the failure of any engine components caused by the failure of any Warranted Part still under warranty.

Emission Information

Engines that are certified to meet the California Air Resources Board (CARB) Tier 2 Emission Standards must display information regarding the Emissions Durability Period and Air Index. The engine manufacturer makes this information available to the consumer on emission labels. The engine emission label will indicate certification information.

The **Emissions Durability Period** describes the number of hours of actual running time for which the engine is certified to be emissions compliant, assuming proper maintenance in accordance with the Operating & Maintenance Instructions. The following categories are used:

Moderate: Engine is certified to be emission compliant for 125 hours of actual engine running time.

Intermediate: Engine is certified to be emission compliant for 250 hours of actual engine running time.

Extended: Engine is certified to be emission compliant for 500 hours of actual engine running time.

For example, a typical walk-behind lawn mower is used 20 to 25 hours per year. Therefore, the **Emissions Durability Period** of an engine with an **intermediate** rating would equate to 10 to 12 years.

Certain engines will be certified to meet the United States Environmental Protection Agency (USEPA) Phase 2 emission standards. For phase 2 certified engines, the Emissions Compliance Period referred to on the Emissions Compliance label indicates the number of operating hours for which the engine has been shown to meet Federal emission requirements.

For engines less than 225 cc displacement:

Category C = 125 hours

Category B = 250 hours

Category A = 500 hours.

For engines of 225 cc or more displacement:

Category C = 250 hours

Category B = 500 hours

Category A = 1000 hours.

BRIGGS & STRATTON POWER PRODUCTS GROUP, LLC PRESSURE WASHER OWNER WARRANTY POLICY

Effective December 1, 2005 replaces all undated Warranties and all Warranties dated before December 1, 2005

LIMITED WARRANTY

Briggs & Stratton Power Products Group, LLC will repair or replace, free of charge, any part(s) of the pressure washer that is defective in material or workmanship or both. Transportation charges on product submitted for repair or replacement under this warranty must be borne by purchaser. This warranty is effective for the time periods and subject to the conditions stated below. For warranty service, find the nearest Authorized Service Dealer in our dealer locator map at BRIGGSandSTRATTON.COM.

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM PURCHASE, OR TO THE EXTENT PERMITTED BY LAW. ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. Some states or countries do not allow limitations on how long an implied warranty lasts, and some states or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and 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 or country to country.

WARRANTY PERIOD

Consumer Use	2 years
Commercial Use	90 days

The warranty period begins on the date of purchase by the first retail consumer or commercial end user, and continues for the period of time stated above. "Consumer use" means personal residential household use by a retail consumer. "Commercial use" means all other uses, including use for commercial, income producing or rental purposes. Once equipment has experienced commercial use, it shall thereafter be considered as commercial use for purposes of this warranty.

NO WARRANTY REGISTRATION IS NECESSARY TO OBTAIN WARRANTY ON BRIGGS & STRATTON PRODUCTS. SAVE YOUR PROOF OF PURCHASE RECEIPT. IF YOU DO NOT PROVIDE PROOF OF THE INITIAL PURCHASE DATE AT THE TIME WARRANTY SERVICE IS REQUESTED, THE MANUFACTURING DATE OF THE PRODUCT WILL BE USED TO DETERMINE THE WARRANTY PERIOD.

ABOUT YOUR WARRANTY

We welcome warranty repair and apologize to you for being inconvenienced. Any Authorized Service Dealer may perform warranty repairs. Most warranty repairs are handled routinely, but sometimes requests for warranty service may not be appropriate. For example, warranty service would not apply if equipment damage occurred because of misuse, lack of routine maintenance, shipping, handling, warehousing or improper installation. Similarly, the warranty is void if the manufacturing date or the serial number on the pressure washer or engine has been removed or the equipment has been altered or modified. During the warranty period, the Authorized Service Dealer, at its option, will repair or replace any part that, upon examination, is found to be defective under normal use and service. This warranty will not cover the following repairs and equipment:

- **Normal Wear:** Outdoor Power Equipment, like all mechanical devices, needs periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment.
- **Installation and Maintenance:** This warranty does not apply to equipment or parts that have been subjected to improper or unauthorized installation or alteration and modification, misuse, negligence, accident, overloading, overspeeding, improper maintenance, repair or storage so as, in our judgment, to adversely affect its performance and reliability. This warranty also does not cover normal maintenance such as air filters, adjustments, fuel system cleaning and obstruction (due to chemical, lime, dirt, and so forth).
- **Other Exclusions:** This warranty excludes wear items such as quick couplers, seals, o-rings, pumps that have been run without water supplied or damage or malfunctions resulting from accidents, abuse, modifications, alterations, or improper servicing or freezing or chemical deterioration. Accessory parts, such as guns, hoses, nozzle extensions (wands), and nozzles, are excluded from the product warranty. This warranty excludes used, reconditioned, and demonstration equipment and failures due to acts of God and other force majeure events beyond the manufacturers control.
198203E, Rev. B, 12/31/2006

BRIGGS & STRATTON POWER PRODUCTS GROUP, LLC
JEFFERSON, WI, USA



SERIOUS DUTY PRESSURE WASHERS

Product Specifications

Model 020324

Outlet Pressure2,800 PSI (193 BARS)
 Flow Rate3.0 GPM (11.3 liters/min)
 Water Supply Temperature100°F (38°C) MAX
 Shipping Weight80 lbs. (36.3 kg)
 Displacement12.57 cu. in. (206 cc)
 Spark Plug Gap0.030 in. (0.76 mm)
 Fuel Capacity3.0 Qt. (2.84 Liters)
 Oil Capacity20 Ounces (0.6 Liters)

Model 020325

Outlet Pressure3,200 PSI (220.6 BARS)
 Flow Rate3.2 GPM (12.1 liters/min)
 Water Supply Temperature100°F (38°C) MAX
 Shipping Weight98 lbs. (45.5 kg)
 Displacement15.22 cu. in. (249 cc)
 Spark Plug Gap0.030 in. (0.76 mm)
 Fuel Capacity3.0 Qt. (2.84 Liters)
 Oil Capacity20 Ounces (0.6 Liters)

Common Service Parts

PumpSaver6039
 O-Ring Maintenance Kit6048
 Water Inlet ScreenB2384GS
 Air Cleaner491588S or 5043D
 Resistor Spark Plug491055S
 Engine Oil Bottle100005 or 100028
 Fuel Stabilizer100002 or 5041D
 Spark Arrester398067
 Tune Up Kit5106A

Power Ratings: The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J1940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-05). Torque values are derived at 3060 RPM; horsepower values are derived at 3600 RPM. Actual gross engine power will be lower and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given both the wide array of products on which engines are placed and the variety of environmental issues applicable to operating the equipment, the gas engine will not develop the rated gross power when used in a given piece of power equipment (actual "on-site" or net power). This difference is due to a variety of factors including, but not limited to, accessories (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application limitations, ambient operating conditions (temperature, humidity, altitude), and engine-to-engine variability. Due to manufacturing and capacity limitations, Briggs & Stratton may substitute an engine of higher rated power for this Series engine.

Briggs & Stratton Power Products Group, LLC
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