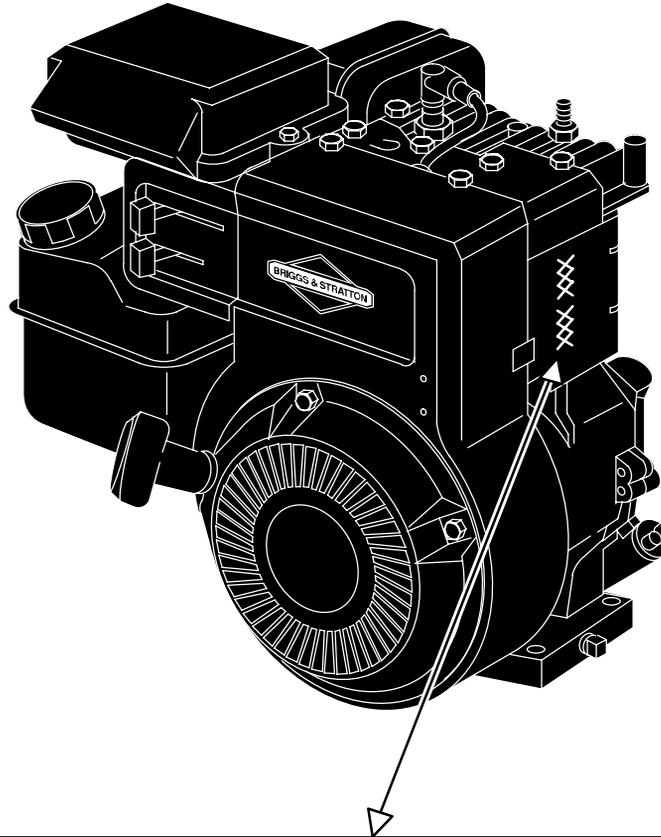




# Operating & Maintenance Instructions

## Model Series Covered in This Manual

- 133200
- 134200
- 135200
- 136200
- 137200



Model	Type	Code
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**Note:** General Model Series numbers noted above include many specific numbers like the ones on your engine. To get replacement parts or technical assistance in the future, write your engine Model, Type, Code and date of purchase here.

Month/	Day/	Year
<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>

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Safety .....	3-5
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**WARNING**

Briggs & Stratton does not approve or authorize the use of these engines on 3-wheel All Terrain Vehicles (ATVs), motor bikes, aircraft products or vehicles intended for use in competitive events. Use of these engines in such applications could result in property damage, serious injury (including paralysis), or even death.

In the USA and Canada our 24 hour hotline is  
**1-800-233-3723**  
 Briggs & Stratton Corporation  
 Milwaukee, Wisconsin 53201  
[www.briggsandstratton.com](http://www.briggsandstratton.com)



## THE POWER IN POWER EQUIPMENT™

Thank you for selecting a Briggs & Stratton engine to power your equipment.

Briggs & Stratton is committed to producing a line of engines which will make your life's chores easier to perform. We have, at the same time, improved the design of our engines so they are environmentally friendly. Since 1995, we have succeeded in reducing smog-forming exhaust emissions from our engines by 70%. Briggs & Stratton's efforts have not stopped there. We are also committed to designing and introducing even cleaner engines in the future, while maintaining our reputation for excellent utility and value.

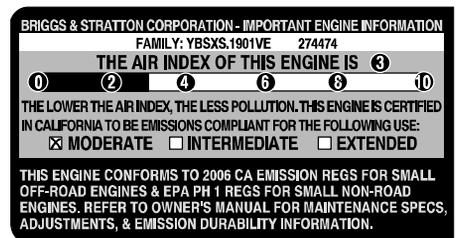
Briggs & Stratton's environmental awareness has resulted in the engineering of the "Smart-Fill®" gas can, featuring a spill resistant nozzle which opens only when fully inserted into the gas tank, and which shuts off automatically when the tank is full. Because refueling spills can harm the environment, the Smart-Fill® container helps preserve a stronger ecosystem by reducing this source of pollution.

We hope you will enjoy your new engine and equipment. We welcome you to our worldwide family of Briggs & Stratton engine users.

Best Wishes Always,

The Employees of Briggs & Stratton Corporation

**This is a generic representation of the emission label typically found on a certified engine.**






### BEFORE OPERATING ENGINE

- Read entire Operating & Maintenance Instructions AND the instructions for the equipment this engine powers.\*
- Failure to follow instructions could result in serious injury or death.

**THE OPERATING & MAINTENANCE INSTRUCTIONS CONTAIN SAFETY INFORMATION TO**

- Make you aware of hazards associated with engines
- Inform you of the risk of injury associated with those hazards, and
- Tell you how to avoid or reduce the risk of injury.

The safety alert symbol () is used to identify safety information about hazards that can result in personal injury.

A signal word (DANGER, WARNING, or CAUTION) is used with the alert symbol to indicate the likelihood and the potential severity of injury. In addition, a hazard symbol may be used to represent the type of hazard.

 **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.**

**CAUTION**, when used **without** the alert symbol, indicates a situation that **could result in damage to the engine.**

### HAZARD SYMBOLS AND MEANINGS

 Fire	 Moving Parts
 Explosion	 Shock
 Toxic Fumes	 Hot Surface
 Kickback	

 **WARNING** 

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

\* Briggs & Stratton does not necessarily know what equipment this engine will power. For that reason, you should carefully read and understand the operating instructions for the equipment on which your engine is placed.



## WARNING



Gasoline and its vapors are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

### WHEN ADDING FUEL

- Turn engine OFF and let engine cool at least 2 minutes before removing gas cap.
- Fill fuel tank outdoors or in well-ventilated area.
- Do not overfill fuel tank. Fill tank to approximately 1/2 inch below lowest portion of fill opening to allow for fuel expansion.
- Keep gasoline away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Check fuel lines, tank, cap, and fittings frequently for cracks or leaks. Replace if necessary.

### WHEN STARTING ENGINE

- Make sure spark plug, muffler, fuel cap and air cleaner are in place.
- Do not crank engine with spark plug removed.
- If fuel spills, wait until it evaporates before starting engine.
- If engine floods, set choke to OPEN/RUN position, place throttle in FAST and crank until engine starts.

### WHEN OPERATING EQUIPMENT

- Do not tip engine or equipment at angle which causes gasoline to spill.
- Do not choke carburetor to stop engine.

### WHEN TRANSPORTING EQUIPMENT

- Transport with fuel tank EMPTY or with fuel shut-off valve OFF.

### WHEN STORING GASOLINE OR EQUIPMENT WITH FUEL IN TANK

- Store away from furnaces, stoves, water heaters or other appliances that have pilot light or other ignition source because they can ignite gasoline vapors.



## WARNING



Unintentional sparking can result in fire or electric shock.

Unintentional start-up can result in entanglement, traumatic amputation, or laceration.

### BEFORE PERFORMING ADJUSTMENTS OR REPAIRS

- Disconnect spark plug wire and keep it away from spark plug.
- Disconnect battery at negative terminal (only engines with electric start).

### WHEN TESTING FOR SPARK

- Use approved spark plug tester.
- Do not check for spark with spark plug removed.



## WARNING



Starting engine creates sparking.

Sparking can ignite nearby flammable gases.

Explosion and fire could result.

- If there is natural or LP gas leakage in area, do not start engine.
- Do not use pressurized starting fluids because vapors are flammable.

## WARNING



Engines give off carbon monoxide, an odorless, colorless, poison gas.

Breathing carbon monoxide can cause nausea, fainting or death.

- Start and run engine outdoors.
- Do not start or run engine in enclosed area, even if doors or windows are open.

## WARNING



Running engines produce heat. Engine parts, especially muffler, become extremely hot.

Severe thermal burns can occur on contact.

Combustible debris, such as leaves, grass, brush, etc. can catch fire.

- Allow muffler, engine cylinder and fins to cool before touching.
- Remove accumulated combustibles from muffler area and cylinder area.
- Install and maintain in working order a spark arrester before using equipment on forest-covered, grass-covered, brush-covered unimproved land. The state of California requires this (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal land.

## WARNING



Rotating parts can contact or entangle hands, feet, hair, clothing, or accessories.

Traumatic amputation or severe laceration can result.

- Operate equipment with guards in place.
- Keep hands and feet away from rotating parts.
- Tie up long hair and remove jewelry.
- Do not wear loose-fitting clothing, dangling drawstrings or items that could become caught.

## WARNING



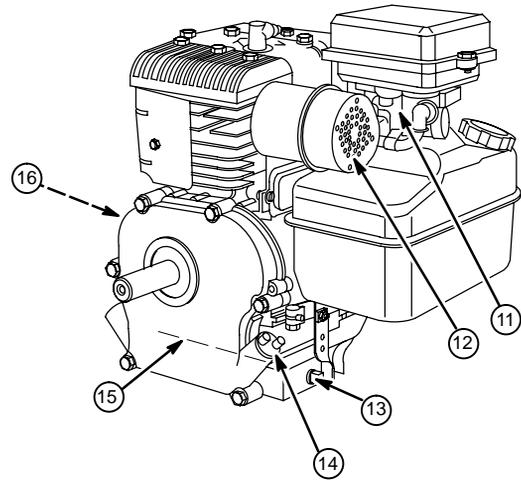
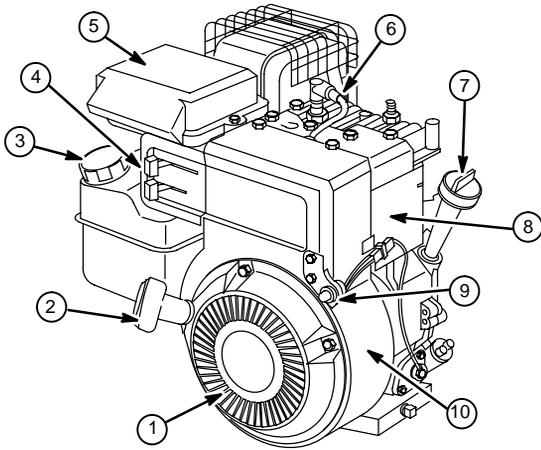
Rapid retraction of starter cord (kickback) will pull hand and arm toward engine faster than you can let go.

Broken bones, fractures, bruises or sprains could result.

- When starting engine, pull cord slowly until resistance is felt, then pull rapidly.
- Remove all external equipment/engine loads before starting engine.
- Direct coupled equipment components such as, but not limited to, blades, impellers, pulleys, sprockets, etc., must be securely attached.

# ENGINE PARTS

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- 1. Finger guard/Rotating screen
- 2. Rope handle
- 3. Fuel fill
- 4. Control levers
- 5. Air cleaner
- 6. Spark plug wire
- 7. Dipstick/Oil fill tube (if equipped)

8. <u>Engine</u>	Model	Type	Code
	xxxxx	xxxx xx	xxxxxxxx

- 9. OIL GARD® light (if equipped)
- 10. Blower housing
- 11. Carburetor
- 12. Muffler/(Muffler guard, if equipped)/  
(Spark arrester, if equipped)
- 13. Oil drain plug
- 14. Oil fill cap
- 15. Oil level
- 16. 12V electric starter (if equipped)

## GENERAL INFORMATION

### ENGINE MODEL

This is a single cylinder, L-head, air-cooled engine. It is a low emissions engine.

### MODEL SERIES 130000

Bore . . . . . 2-9/16 in. (65.09 mm)  
 Stroke . . . . . 2-7/16 in. (61.91 mm)  
 Displacement . . . . . 12.57 cu. in. (206.0 cc)

**Note:** For practical operation, the horsepower loading should not exceed 85% of rated horsepower. Engine power will decrease 3-1/2% for each 1,000 feet (300 meters) above sea level and 1% for each 10° F (5.6° C) above 77° F (25° C). It will operate satisfactorily at an angle up to 15°.

### TUNE-UP SPECIFICATIONS

Armature air gap . . . 0.010 – 0.014 in. (0.25 – 0.36 mm)  
 Spark plug gap . . . . . 0.030 in. (0.76 mm)  
 Valve clearance with valve springs installed and piston 1/4 in. (6 mm) past top dead center (check when engine is cold). See Repair Manual P/N 270962.  
 Intake . . . . . 0.005 – 0.007 in. (0.13 – 0.18 mm)  
 Exhaust . . . . . 0.009 – 0.011 in. (0.23 – 0.28 mm)

## THE INTERNATIONAL SYMBOLS USED ON THE ENGINE OR IN THIS MANUAL INCLUDE:



Safety Alert



Read Owner's Manual



On Off



Oil



Stop



Fuel Shutoff



Choke



Fuel



**CAUTION:** This engine is shipped from Briggs & Stratton **without oil**. Check oil level before starting engine. If you start the engine without oil, the engine will be damaged beyond repair and will not be covered under warranty.

**OIL CAPACITY**

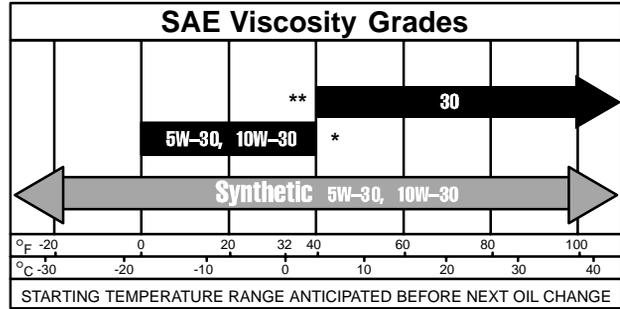
The engine holds approximately 2/3 qt (21 ozs; 0.6 liter).

**TYPE OF OIL TO USE**

- Use a high quality detergent oil classified “For Service SF, SG, SH, SJ” or higher, such as Briggs & Stratton 30W, Part Number 100005 (20 oz) or 100028 (48 oz).
- Do not use special additives.
- Choose a viscosity according to the table opposite.



**Note:** Synthetic oil meeting ILSAC GF-2, API certification mark and API service symbol (shown at left) 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.**



\* **CAUTION:** Air cooled engines run hotter than automotive engines. The use of non-synthetic multi-viscosity oils (5W-30, 10W-30, etc.) in temperatures above 40° F (4° C) will result in higher than normal oil consumption. When using a multi-viscosity oil, check oil level more frequently.

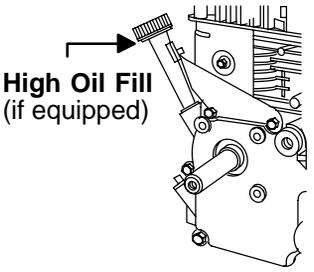
\*\* **CAUTION:** SAE 30 oil, if used below 40° F (4° C), will result in hard starting and possible engine bore damage due to inadequate lubrication.

**CHECKING AND ADDING OIL**

- Check oil level *before* starting the engine.
- Check level daily, or after every eight (8) hours.
- Keep oil level at FULL.
- Do not overfill.

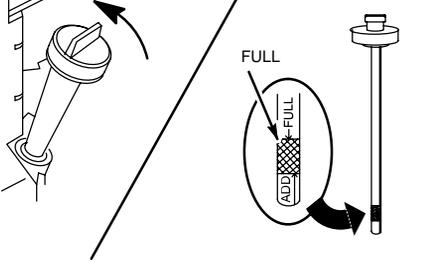
**CAUTION: OIL GARD®** (if equipped), see page 8.

**Note:** If this engine is equipped with gear reduction, see gear reduction oil filling instructions on page 11.

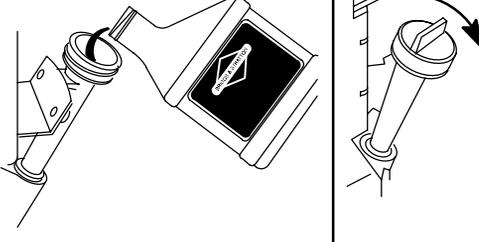


**High Oil Fill**  
(if equipped)

[1] Place engine level and clean around oil fill area.

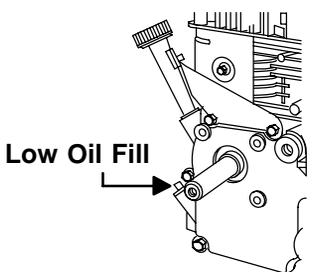


[2] Remove dipstick and wipe clean with cloth. Replace and tighten dipstick. Remove and check oil level.



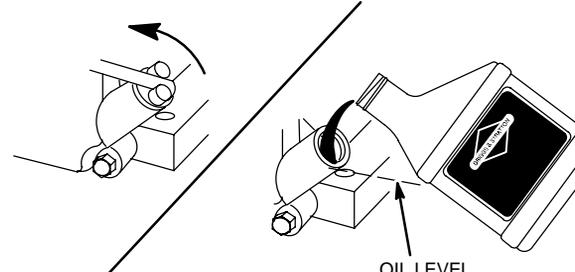
[3] Add oil, if needed. Pour slowly - recheck.

[4] Replace and tighten dipstick.

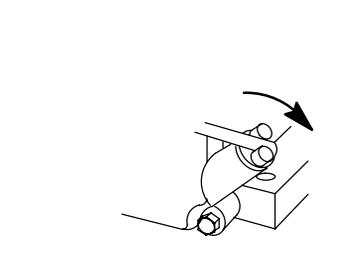


**Low Oil Fill**

[1] Place engine level and clean around oil fill area.



[2] Remove oil fill cap. Fill to point of overflowing.



[3] Replace and tighten oil fill cap.

# FUEL



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## TYPE OF FUEL TO USE

- Use clean, fresh, regular unleaded gasoline with a minimum of 77 octane. Fresh fuel prevents gum from forming in the fuel system or on essential carburetor parts. Purchase fuel in quantity that can be used within 30 days.
- Do not use gasoline which contains Methanol.
- Do not mix oil with gasoline.
- For engine protection use Briggs & Stratton Gasoline Additive available from your Authorized Briggs & Stratton Dealer (P/N 5041 or single use pouch).

- This engine is certified to operate on gasoline. Exhaust Emission Control System: EM (Engine Modifications).

**CAUTION:** Some fuels, called oxygenated or reformulated gasoline, are gasoline blended with alcohols or ethers. Excessive amounts of these blends can damage the fuel system or cause performance problems. If any undesirable operating symptoms occur, use gasoline with a lower percentage of alcohol or ether.

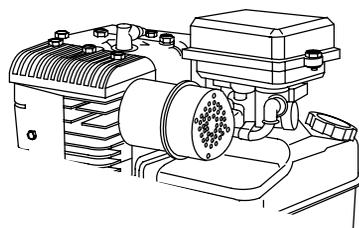
## ADDING FUEL



### WARNING



- [1] Fill fuel tank outdoors or in well-ventilated area, away from sparks, open flames, pilot lights, heat, and other ignition sources.
- [2] If fuel spills, wait until it evaporates before starting engine.
- [3] Turn engine OFF and let engine cool at least 2 minutes before removing gas cap.



Fuel Fill

- [4] Remove cap. Fill tank to approximately 1/2 inch below lowest portion of fill opening to allow for fuel expansion. Be careful not to overfill. Briggs & Stratton **Smart-fill**® fuel can fills to the correct level and automatically shuts off, reducing spills and emissions.
- [5] Replace cap before starting.

## STARTING

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### WARNING



- Do not use pressurized starting fluids.
- Vapors are flammable.

## OIL GARD®

If engine is equipped with **OIL GARD**®, and if engine runs low on oil, light on engine warns of low oil level. If light flickers and engine cannot be started, or has stopped and cannot be restarted, add oil. Fill to point of overflowing at oil fill cap or to **FULL** mark on dipstick. Do not over-fill.

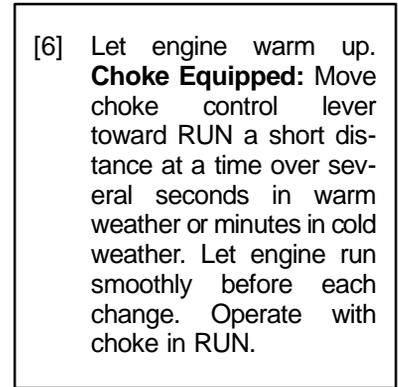
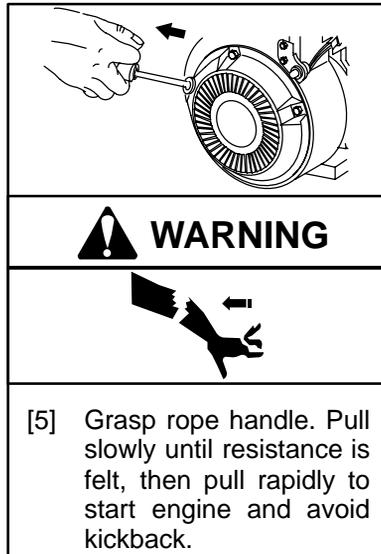
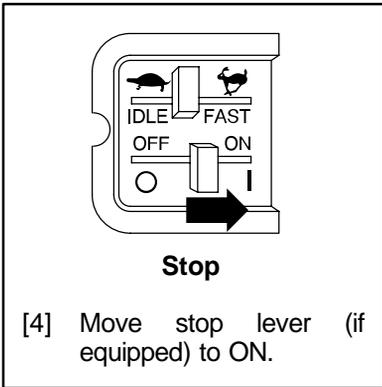
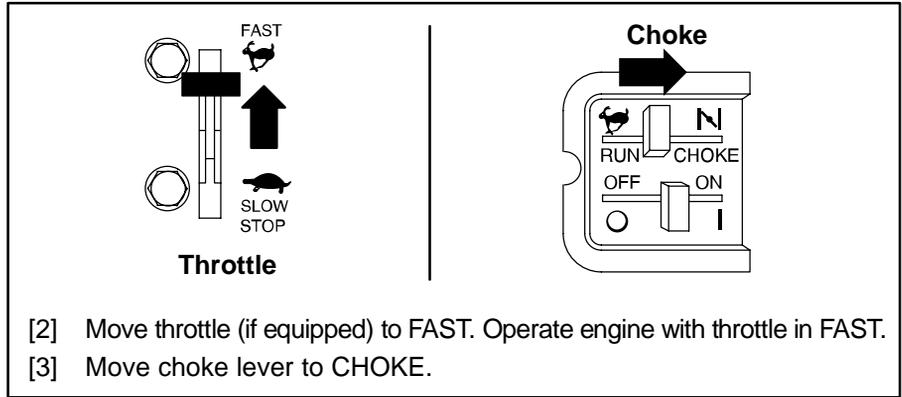
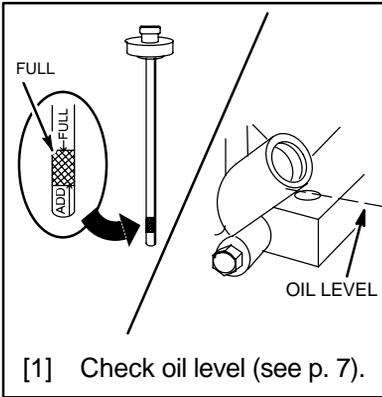
## STARTING AND OPERATING TIPS

- ◆ Store and fuel equipment in level position.
- ◆ Use fresh fuel. (See Fuel.)
- ◆ Use correct type of oil for expected starting temperature. (See Oil.)
- ◆ Remove external equipment/engine loads. (See equipment operating instructions.)
- ◆ Periodically remove any debris buildup from the machine (See Maintenance.)
- ◆ After engine has started, let it warm up several seconds to several minutes, depending on outside temperature.
- ◆ For maximum performance and life, operate engine with choke in RUN and throttle in FAST.



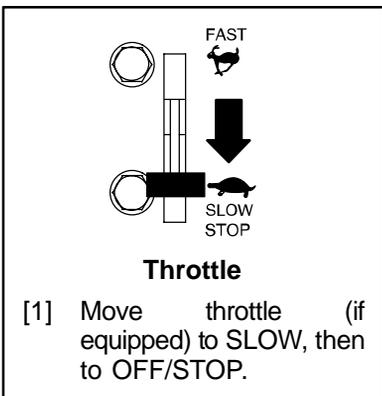
# STARTING AND STOPPING

## REWIND (MANUAL) STARTER TO START ENGINE

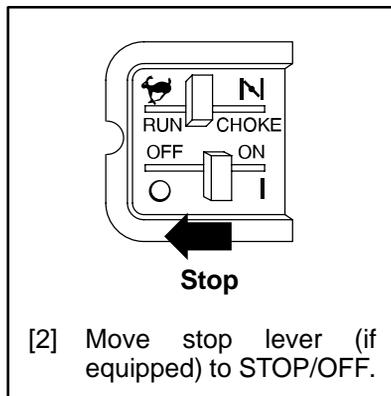


## TO STOP ENGINE

**CAUTION:** Do not stop engine by moving choke control to CHOKE. Backfire, fire or engine damage could occur.



OR

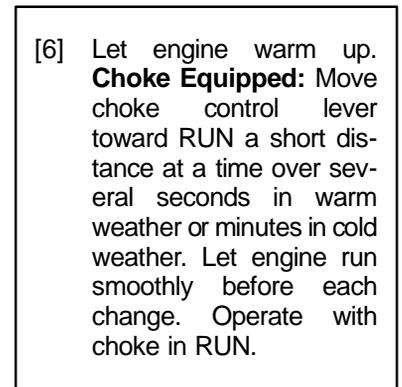
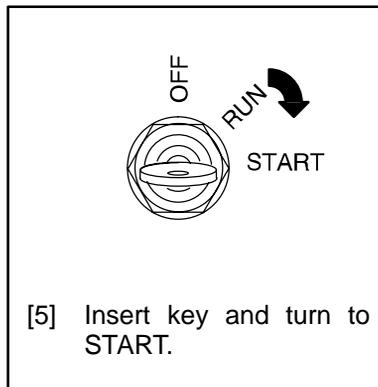
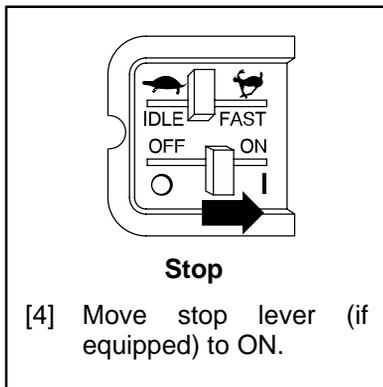
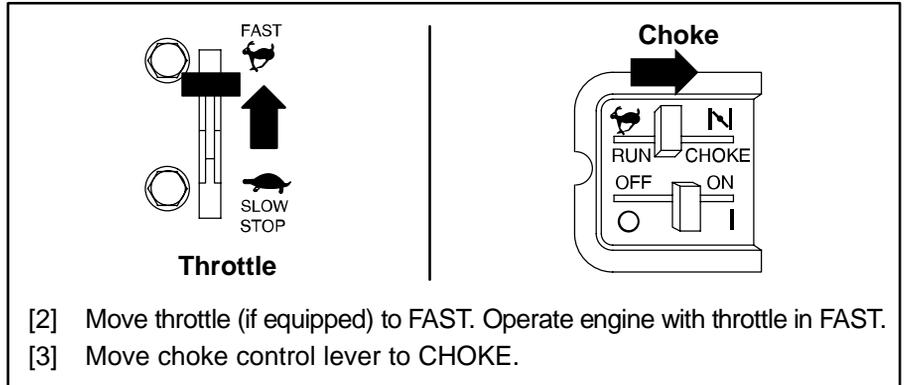
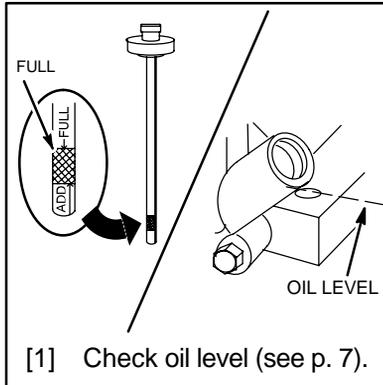


# STARTING AND STOPPING

BRIGGS & STRATTON

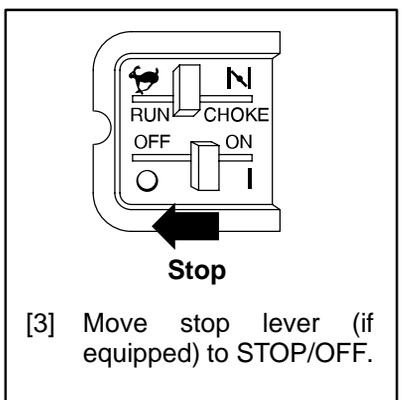
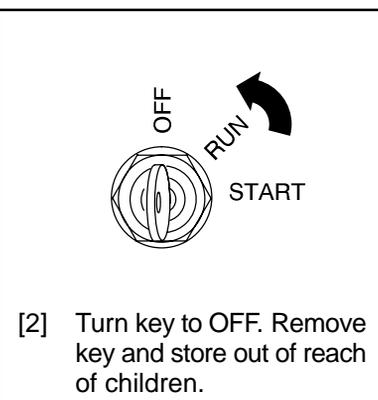
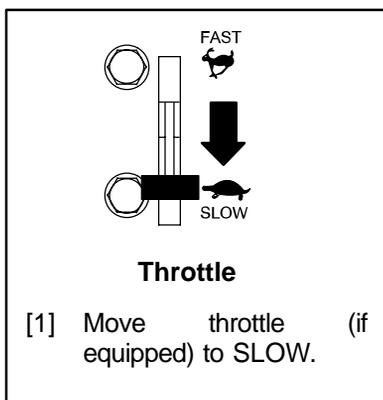
## ELECTRIC (KEY) STARTER (if equipped)

### TO START ENGINE



**CAUTION:** To prolong starter life, use short starting cycles (5 seconds maximum, then wait one minute). Follow equipment manufacturer's recommendations for charging battery.

### TO STOP ENGINE





## MAINTENANCE

Regular maintenance will improve the performance and extend the life of the engine. See any Authorized Briggs & Stratton Dealer for service. **Use only genuine Briggs & Stratton parts. Other parts may not perform as well, may damage the engine, and may result in injury.** In addition, use of other parts may void your warranty.

## EMISSION CONTROL

**Maintenance, replacement or repair of the emission control devices and systems may be performed by any nonroad engine repair establishment or individual.** However, to obtain no charge repairs under the terms and provisions of the Briggs & Stratton warranty statement, any service or emission control part repair or replacement must be performed by a factory authorized dealer.

Follow the instructions and schedules indicated below.

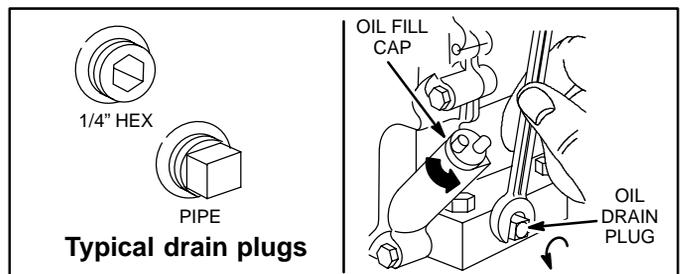
Task <i>Perform task at hourly or calendar interval, whichever comes first.</i>	Every 8 Hours or Daily	25 Hours or Every Season	50 Hours or Every Season	100 Hours or Every Season	100-300 Hours
Check Oil Level	✓				
Change Oil		✓*			
Change oil in gear reduction (if equipped)				✓	
Service air cleaner pre-cleaner (if equipped)		✓**			
Service air cleaner cartridge (if not equipped with pre-cleaner)		✓**			
Service air cleaner cartridge (if equipped with pre-cleaner)				✓**	
Inspect spark arrester (if equipped)			✓		
Replace spark plug				✓	
Clean cooling system				✓**	
Clean combustion chamber					✓

\* **Change oil after first 5 to 8 hours of use**, then every 50 hours or every season. Change oil every 25 hours when operating the engine under heavy load or in high temperatures.

\*\* Clean more often under dusty conditions or when airborne debris is present. Replace air cleaner parts, if very dirty.

**CAUTION:** Used oil is a hazardous waste product. Dispose of used oil properly. Do not discard with household waste. Check with your local authorities, service center, or dealer for safe disposal/recycling facilities.

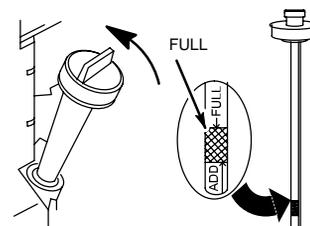
## CHANGING OIL



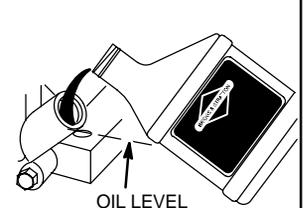
**WARNING**

- [1] Place engine level.
- [2] Disconnect spark plug wire and keep it away from spark plug. Disconnect battery (if equipped with electric starter) at negative terminal.

- [3] With engine OFF but still warm remove oil drain plug and drain oil into appropriate receptacle.
- [4] Reinstall drain plug. Remove dipstick or oil fill cap.
- [5] Add about 2/3 quart (21 ounces; 0.6 liter) new oil. Fill to FULL line on dipstick or to point of overflowing at oil fill cap. **Do not overfill.**
- [6] Replace dipstick or oil fill cap.



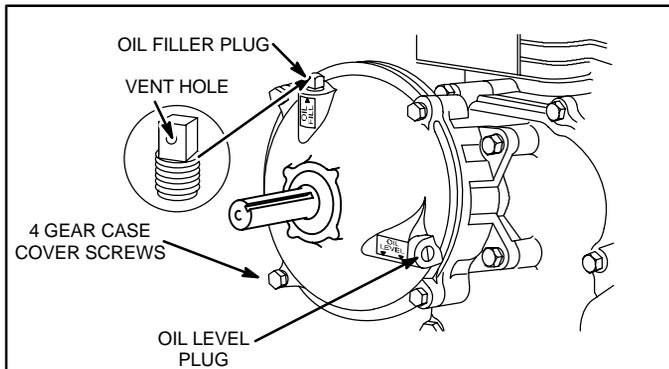
High Oil Fill (if equipped)



Low Oil Fill

## CHANGING OIL IN GEAR REDUCTION (if equipped)

Change oil in gear reduction after every 100 hours of operation.

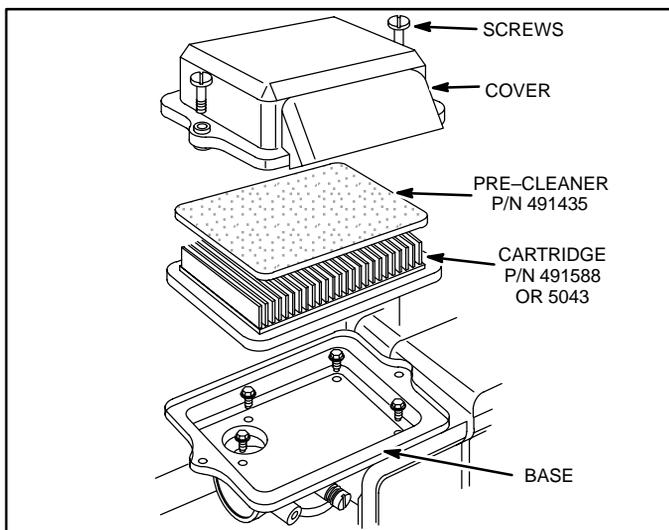


- [1] To drain oil, loosen 4 gear case cover screws and drain oil into appropriate receptacle.
- [2] After draining, torque 4 screws to 85 in-lbs.
- [3] To refill, pour SAE 30 oil into oil fill hole until it runs out level check hole.
- [4] Replace both oil plugs.

**Note:** Oil filler plug has a vent hole and must be installed on top of gear case cover.

## AIR CLEANER

All engines have an air cleaner cartridge. In addition, some engines have a pre-cleaner.



## REMOVING and RE-INSTALLING AIR CLEANER

- [1] Loosen screws and remove cover.
- [2] Remove pre-cleaner (if equipped) and cartridge carefully to prevent debris from entering carburetor.
- [3] Re-install clean (or new) air cleaner assembly in base.
- [4] Replace cover and tighten screws.

## CLEANING PRE-CLEANER AND CARTRIDGE

**CAUTION:** Do not use pressurized air or solvents to clean cartridge. Pressurized air can damage cartridge; solvents will dissolve cartridge.

### Pre-cleaner

To clean pre-cleaner (if equipped), separate it from cartridge and wash in liquid detergent and water. Squeeze dry in a clean cloth. Saturate in engine oil. Squeeze in clean, absorbent cloth to remove all EXCESS oil.

### Cartridge

To clean cartridge, gently tap pleated paper side on a flat surface.

## ENGINE AND ENGINE PARTS

We recommend that you see an authorized Briggs & Stratton Service Dealer for all maintenance and service of the engine and engine parts. Use only genuine Briggs & Stratton parts.



If you perform any maintenance on the engine, first disconnect the spark plug wire from the spark plug, and disconnect the battery at the negative terminal (electric starter engines only) to prevent unintentional sparking. Unintentional sparking can result in fire or electric shock. Unintentional start-up can result in entanglement, traumatic amputation or laceration. Use only correct tools.



- Do not strike the flywheel with a hammer or hard object because the flywheel may later shatter during operation.
- Do not tamper with governor spring, links or other parts to increase engine speed.

### MUFFLER



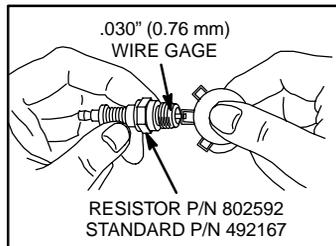
Replacement parts for the muffler must be the same and installed in the same position as the original parts, otherwise fire can occur.

If muffler is equipped with spark arrester screen, remove screen for inspection. Replace screen if damaged or plugged.

### SPARK PLUG

Use only Briggs & Stratton Spark Tester (part number 19368) to check for spark.

**Note:** In some areas, local law requires using resistor spark plug to suppress ignition signals. If this engine was originally equipped with resistor spark plug, use same type for replacement.



### COMBUSTION DEPOSITS

We recommend that after every 100-300 hours you have an authorized Briggs & Stratton Service Dealer remove combustion deposits from the cylinder, cylinder head, top of piston, and around valves.

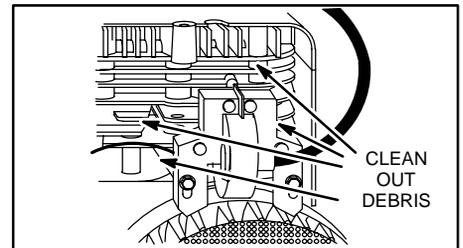
### FUEL SYSTEM



Replacement parts for fuel system (cap, hoses, tanks, filters, etc.) must be the same as original parts, otherwise fire can occur.

### AIR COOLING SYSTEM

We recommend cleaning the air cooling system every 100 hours.



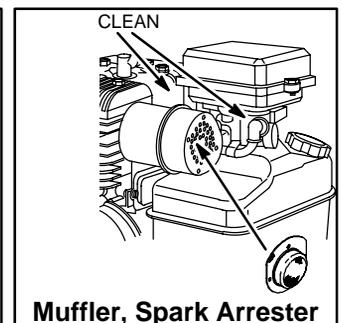
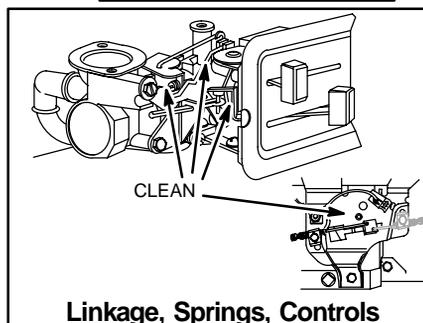
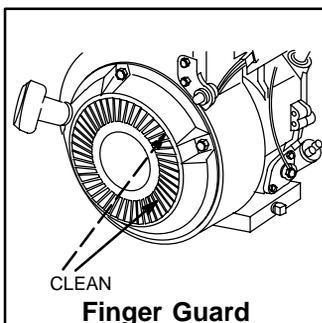
### CLEANING DEBRIS

**CAUTION:** Do not use water to clean engine parts. Water could contaminate fuel system. Use a brush or dry cloth.



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

Daily or before every use, clean accumulated debris from engine. Keep linkage, spring and controls clean. Keep area around and behind muffler free of any combustible debris.



# ADJUSTMENTS

BRIGGS & STRATTON

## THROTTLE ADJUSTMENT

If the engine does not start or if it runs roughly, the remote throttle control may need adjustment. See your authorized Briggs & Stratton dealer or follow the instructions below.

### WARNING



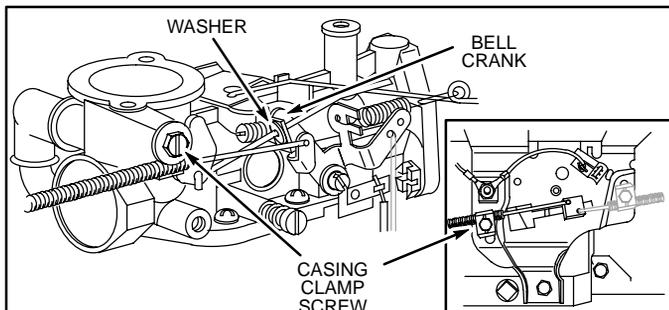
Prevent unintentional starting.

Before performing adjustments:

- Remove spark plug wire from spark plug.
- Disconnect battery at negative terminal (only engines with electric start).

Manual choke or manual throttle control needs no adjustment.

## TO ADJUST REMOTE THROTTLE (remote choke)

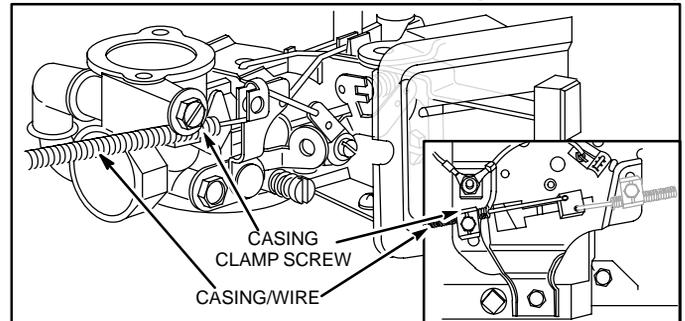


- [1] Loosen casing clamp screw on carburetor or control plate.
- [2] Push bell crank either way until it just touches washer.
- [3] Move throttle control to FAST position.
- [4] Tighten casing clamp screw. Replace air cleaner.

## TO ADJUST REMOTE STOP SWITCH

- [1] Lever on carburetor or control plate should make good contact with remote stop switch. Readjust if necessary.
- [2] Check operation of throttle control.

## TO ADJUST REMOTE THROTTLE (manual choke)



- [1] Loosen casing clamp screw on carburetor or on control lever bracket.
- [2] Move casing/wire in direction of arrow to end of travel.
- [3] Move throttle control to FAST position.
- [4] Tighten casing clamp screw. Replace air cleaner.

## CARBURETOR ADJUSTMENT

### WARNING

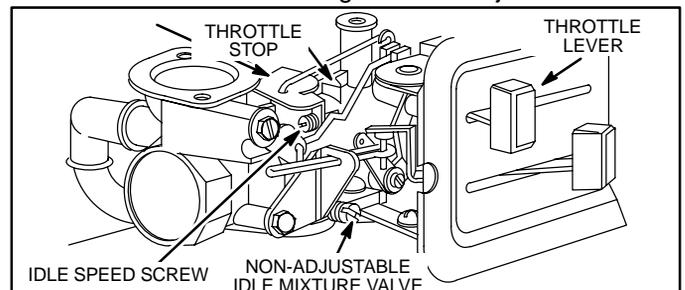
The manufacturer of the equipment on which this engine is installed specifies top speed at which the engine will be operated. DO NOT EXCEED this speed.

Air cleaner and air cleaner cover must be assembled to carburetor before starting engine. (Air cleaner is shown removed in illustration below for clarity ONLY.)

The carburetor on this engine is equipped with an idle speed adjustment screw.

## TO ADJUST CARBURETOR

Governed idle has been set to 1750 rpm at the factory. The idle mixture valve on this engine is not adjustable.



- [1] To adjust idle speed, start engine and warm up about 5 minutes.
- [2] Then with engine running, place equipment throttle control in SLOW position.
- [3] Rotate carburetor throttle lever against the throttle stop and hold it while adjusting the idle speed screw to obtain 1100 rpm (use a tachometer).

**Note:** Engines operated at approximately 3000 to 5000 feet (900 to 1500 meters) above sea level may require a high altitude carburetor pilot jet. If erratic performance is observed, contact a Briggs & Stratton Authorized Service Dealer for cost to install/purchase a high altitude carburetor pilot jet, if available.

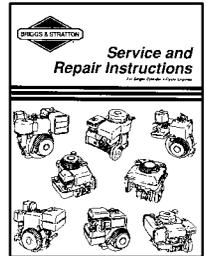


# SERVICE & STORAGE

## PARTIAL LIST OF GENUINE BRIGGS & STRATTON PARTS

<u>PART</u>	<u>BRIGGS &amp; STRATTON PART NO. (or equivalent)</u>
Flat air cleaner cartridge	491588 (5043)
Flat air cleaner pre-cleaner	491435
Oil	100005 or 100028
Gas additive	5041
Resistor spark plug	802592
Standard spark plug	492167
Long life platinum spark plug (used on most L-head engines)	5062
Spark plug wrench	89838 (5023)
Spark tester	19368
Oil pump kit	5056
(uses standard electric drill to remove oil from engine quickly)	

An illustrated shop manual includes common specifications and detailed information covering adjustment, tune-up and repair of Briggs & Stratton single cylinder, L-head, 4 cycle engines. It is available for purchase from an Authorized Briggs & Stratton Service Dealer or you can order it from the factory. Write: Briggs & Stratton Corporation  
Attn: Service Division  
P. O. Box 1144  
Milwaukee, WI 53201



Part No. 270962

## SERVICE

See an Authorized Briggs & Stratton Service Dealer. Each one carries a stock of Genuine Briggs & Stratton Parts and is equipped with special service tools. Trained mechanics assure expert repair service on all Briggs & Stratton engines. Only dealers advertising as "Authorized Briggs & Stratton" are required to meet Briggs & Stratton standards.

When you purchase equipment powered by a Briggs & Stratton engine, you are assured of highly skilled, reliable service at more than 30,000 Authorized Service Dealers worldwide, including more than 3,600 Master Service Technicians. Look for these signs wherever Briggs & Stratton service is offered.



You may locate your nearest Authorized Briggs & Stratton Service Dealer in our dealer locator map on our web site [www.briggsandstratton.com](http://www.briggsandstratton.com) or in the "Yellow Pages™"

directory under "Engines, Gasoline" or "Gasoline Engines," or "Lawn Mowers" or similar category.

**Note:** Walking fingers logo and "Yellow Pages" are registered trademarks in various jurisdictions.

To purchase a complete list of Genuine Briggs & Stratton Parts for your engine, fill in both sides of this order form carefully. We cannot fill your order without the correct Engine Model/Type/Code. Allow 3 to 4 weeks for delivery.

Fill in both sides of this order form carefully

**Payment Method:**

Check or money order enclosed payable to **Briggs & Stratton Corporation** in the amount of \$\_\_\_\_\_ (U.S. Dollars, please)

Please charge my  MasterCard  VISA  VISA

\_\_\_\_\_ CREDIT CARD NUMBER \_\_\_\_\_

\_\_\_\_\_ SIGNATURE (REQUIRED FOR CREDIT CARD ORDERS) \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_

**Parts List** \$2.00

**Shipping & Handling** \$1.50

**\*\* Add State Sales Tax** \_\_\_\_\_

**Total** \_\_\_\_\_

\_\_\_\_\_ \*\*AL 5%, CT 6%, FL 6.5%, GA 4%, KY 6%, MI 6%, MN 6%, MO 4.225%, NY 8.5%, OH 5%, TN 6%, TX 6.25%, WA 6.5%, WI 5%



**Briggs & Stratton Corporation (B&S), the California Air Resources Board (CARB)  
and the United States Environmental Protection Agency (U.S. EPA)  
Emission Control System Warranty Statement (Owner's Defect Warranty Rights and Obligations)**

EMISSION CONTROL WARRANTY COVERAGE IS APPLICABLE TO CERTIFIED ENGINES PURCHASED IN CALIFORNIA IN 1995 AND THEREAFTER, WHICH ARE USED IN CALIFORNIA, AND

**California and United States Emission Control Defects Warranty Statement**

The California Air Resources Board (CARB), U.S. EPA and B&S are pleased to explain the Emission Control System Warranty on your model year 2000 and later small off-road engine (SORE). In California, new small off-road engines 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 emission control system on your engine for

**Briggs & Stratton Emission Control Defects Warranty Coverage**

Small off-road engines are warranted relative to emission control parts defects for a period of two years, subject to provisions set forth

**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.

**Briggs & Stratton Emission Control Defects Warranty Provisions**

The following are specific provisions relative to your Emission Control Defects Warranty Coverage. It is in addition to the B&S engine warranty for non-regulated engines found in the Operating and Maintenance Instructions.

**1. Warranted Parts**

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

**a. Fuel Metering System**

- Cold start enrichment system
- Carburetor and internal parts
- Fuel Pump

**b. Air Induction System**

- Air cleaner
- Intake manifold

**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.

TO CERTIFIED MODEL YEAR 1997 AND LATER ENGINES WHICH ARE PURCHASED AND USED ELSEWHERE IN THE UNITED STATES (AND AFTER JANUARY 1, 2001 IN CANADA).

the periods of time listed below, provided there has been no abuse, neglect or improper maintenance of your small off-road engine.

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

below. If any covered part on your engine is defective, the part will be repaired or replaced by B&S.

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 1-414-259-5262.

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

**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 Operating and Maintenance Instructions.

**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.

In the USA and Canada, a 24 hour hot line, **1-800-233-3723**, has a menu of pre-recorded messages offering you engine maintenance information.

**About your engine warranty:** (see next page for statement of LIMITED WARRANTY).

Briggs & Stratton welcomes warranty repair and apologizes 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 would not apply if engine damage occurred because of misuse, lack of routine maintenance, shipping, handling, warehousing or improper installation. Similarly, warranty is void if the serial number of the engine has been removed or the engine has been altered or modified.

If a customer differs with the decision of the Service Dealer, an investigation will be made to determine whether the warranty applies. Ask the Service Dealer to submit all supporting facts to his Distributor or the Factory for review. If the Distributor or the Factory decides that the claim is justified, the customer will be fully reimbursed for those items that are defective. To avoid misunderstanding which might occur between the customer and the Dealer, listed below are some of the causes of engine failure that the warranty does not cover.

**Normal wear:**

Engines, like all mechanical devices, need periodic parts service and replacement to perform well. Warranty will not cover repair when normal use has exhausted the life of a part or an engine.

**Improper maintenance:**

The life of an engine depends upon the conditions under which it operates, and the care it receives. Some applications, such as tillers, pumps and rotary mowers, are very often used in dusty or dirty conditions, which can cause what appears to be premature wear. Such wear, when caused by dirt, dust, spark plug cleaning grit, or other abrasive material that has entered the engine because of improper maintenance, is not covered by warranty.

**This warranty covers engine related defective material and/or workmanship only, and not replacement or refund of the equipment to which the engine may be mounted. Nor does the warranty extend to repairs required because of:**

1. PROBLEMS CAUSED BY PARTS THAT ARE NOT ORIGINAL BRIGGS & STRATTON PARTS.
2. Equipment controls or installations that prevent starting, cause unsatisfactory engine performance, or shorten engine life. (Contact equipment manufacturer.)
3. Leaking carburetors, clogged fuel pipes, sticking valves, or other damage, caused by using contaminated or stale fuel. (Use clean, fresh, lead-free gasoline and Briggs & Stratton gasoline stabilizer, Part No. 5041.)

4. Parts which are scored or broken because an engine was operated with insufficient or contaminated lubricating oil, or an incorrect grade of lubricating oil (check oil level daily or after every 8 hours of operation. Refill when necessary and change at recommended intervals.) OIL GARD® may not shut down running engine. Engine damage may occur if oil level is not properly maintained. Read Operating & Maintenance Instructions.
5. Repair or adjustment of associated parts or assemblies such as clutches, transmissions, remote controls, etc., which are not manufactured by Briggs & Stratton.
6. Damage or wear to parts caused by dirt, which entered the engine because of improper air cleaner maintenance, re-assembly, or use of a non-original air cleaner element or cartridge. (At recommended intervals, clean and re-oil the Oil-Foam® element or the foam pre-cleaner, and replace the cartridge.) Read Operating & Maintenance Instructions.
7. Parts damaged by overspeeding, or overheating caused by grass, debris, or dirt, which plugs or clogs the cooling fins, or flywheel area, or damage caused by operating the engine in a confined area without sufficient ventilation. (Clean fins on the cylinder, cylinder head and flywheel at recommended intervals.) Read Operating & Maintenance Instructions.
8. Engine or equipment parts broken by excessive vibration caused by a loose engine mounting, loose cutter blades, unbalanced blades or loose or unbalanced impellers, improper attachment of equipment to engine crankshaft, overspeeding or other abuse in operation.
9. A bent or broken crankshaft, caused by striking a solid object with the cutter blade of a rotary lawn mower, or excessive v-belt tightness.
10. Routine tune-up or adjustment of the engine.

**Warranty is available only through service dealers which have been authorized by Briggs & Stratton Corporation. Your nearest Authorized Service Dealer is listed in the "Yellow Pages™" of your telephone directory under "Engines, Gasoline" or "Gasoline Engines," "Lawn Mowers," or similar category.**

Briggs & Stratton Engines Are Made Under One Or More Of The Following Patents: Design D-247,177 (Other Patents Pending)							
5,852,951	5,548,955	5,269,713	5,188,069	5,040,644	4,895,119	4,630,498	DES. 309,458
5,823,153	5,546,901	5,265,700	5,186,142	5,040,503	4,875,448	4,522,080	DES. 309,457
5,819,513	5,503,125	5,243,878	5,138,996	5,009,208	4,819,593	4,520,288	DES. 308,872
5,765,713	5,501,203	5,235,943	5,105,331	4,996,956	4,719,682	4,453,507	DES. 308,871
5,645,025	5,497,679	5,197,425	5,086,890	4,995,357	4,694,792	4,430,984	
5,642,701	5,320,795	5,197,422	5,070,829	4,977,879	4,684,917	4,355,253	
5,606,948	5,271,363	5,191,864	5,058,544	4,971,219	4,633,556		

In the USA and Canada, a 24 hour hot line, **1-800-233-3723**, has a menu of pre-recorded messages offering you engine maintenance information.

**BRIGGS & STRATTON ENGINE OWNER WARRANTY POLICY**  
effective July 1, 1999

**Replaces all undated Warranties and all Warranties  
dated before July 1, 1999**

**LIMITED WARRANTY**

“Briggs & Stratton Corporation will repair or replace, free of charge, any part, or parts of the engine that are defective in material or workmanship or both. Transportation charges on parts 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 provided for in this policy. For warranty service contact your nearest Authorized Service Dealer as listed in the ‘Yellow Pages™’ under ‘Engines, Gasoline,’ ‘Gasoline Engines,’ ‘Lawn Mowers’ or similar category. **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 CONSEQUENTIAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW.** Some states do not allow limitations on how long an implied warranty lasts, and some states 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.”

Briggs & Stratton Corporation



F. P. Stratton, Jr.  
Chairman and Chief Executive Officer

**WARRANTY PERIOD**

ENGINES	WITHIN U.S.A. AND CANADA		OUTSIDE U.S.A. AND CANADA	
	CONSUMER USE*	COMMERCIAL USE*	CONSUMER USE*	COMMERCIAL USE*
All Vanguard™ engines.	2 year – engine ‡			
All Diamond Plus®, Industrial Plus™, I/C® engines and sleeve bore Intek series.	2 year	1 year	2 year ‡	1 year
Quantum® and Diamond Power®.	2 year	90 days	2 year † ‡	90 days
All standard engines and Kool Bore™ Intek series installed on lawn mowers, riders, edgers, chippers, shredders, tillers, and all Sno/Gard engines.	2 year	90 days	1 year	90 days
All other standard engines and Classic™ series.	1 year	90 days	1 year	90 days

\* For purposes of this warranty policy, “consumer use” means personal residential household use by the original retail consumer. “Commercial use” means all other uses, including use for commercial, income producing or rental purposes. Once an engine has experienced commercial use, it shall thereafter be considered as a commercial use engine for purposes of this warranty. **Engines used in competitive racing or on commercial or rental tracks are not warrantied.**

† One (1) year in Australia, New Zealand, Middle East and Africa.

‡ One (1) year in India.

**NO WARRANTY REGISTRATION CARD IS NECESSARY TO OBTAIN WARRANTY ON BRIGGS & STRATTON ENGINES. YOU MUST SAVE THE PURCHASE RECEIPT. A PROOF OF PURCHASE DATE WILL BE REQUIRED TO OBTAIN WARRANTY.**

In the USA and Canada, a 24 hour hot line, **1-800-233-3723**, has a menu of pre-recorded messages offering you engine maintenance information.

**La Corporation Briggs & Stratton (B&S), le California Air Resources Board (CARB)  
et le Bureau de protection environnementale des États-Unis (US EPA)**

**Garantie sur le système d'échappement (Garantie contre les défauts, droits et obligations du propriétaire)**

LA GARANTIE SUR LE SYSTÈME D'ÉCHAPPEMENT EST APPLICABLE SUR LES MOTEURS CERTIFIÉS ACHETÉS EN CALIFORNIE EN 1995 ET LES ANNÉES SUIVANTES ET QUI SONT UTILISÉS EN CALIFORNIE, AINSI QU'AUX MODÈLES CERTIFIÉS DE 1997 ET LES ANNÉES SUI-

VANTES QUI ONT ÉTÉ ACHETÉS ET UTILISÉS AILLEURS AUX ÉTATS-UNIS (ET APRÈS LE 1ER JANVIER 2001 AU CANADA).

**Déclaration de garantie sur le système d'échappement pour la Californie, les États-Unis**

Le California Air Resources Board (CARB), le Bureau américain de protection environnementale (U.S. EPA) et B & S sont heureux d'expliquer la garantie sur le système d'échappement des petits moteurs hors-route de votre modèle 2000 et des années ultérieures (SORE). En Californie, les nouveaux petits moteurs hors route doivent être conçus, construits et équipés pour rencontrer les standards rigoureux d'antipollution. Ailleurs aux États-Unis, les nouveaux moteurs hors route à bougie d'allumage certifiés pour les modèles de 1997 et plus, doivent rencontrer des normes similaires mises de l'avant par le U.S. EPA. Briggs & Stratton garantit le système de contrôle d'échap-

peuvent de votre moteur pour la période de temps mentionnée ci-contre, sauf s'il a fait l'objet d'abus, de négligence ou d'un entretien inapproprié.

Votre système de contrôle d'échappement comprend des pièces telles que le carburateur, le filtre à air, le système d'ignition, le silencieux et le convertisseur catalytique. Il peut aussi comprendre les connecteurs et autres pièces reliées à l'émission.

Lorsqu'il y a condition à garantie, B&S réparera gratuitement votre petit moteur hors-route incluant le diagnostic, les pièces et la main d'œuvre.

**Couverture de garantie Briggs & Stratton contre toute défectuosité du système de contrôle d'échappement**

Les petits moteurs hors route sont garantis contre la défectuosité des pièces du système de contrôle d'échappement pour une période de 2 ans, sujette aux conditions stipulées ci-contre. Sin'impor-

te quelle pièce de votre moteur couverte par cette garantie est défectueuse, elle sera réparée ou remplacée par B&S.

**Responsabilités du propriétaire**

En tant que propriétaire d'un petit moteur hors route, vous êtes responsable de veiller à l'exécution de l'entretien requis tel que stipulé dans votre manuel d'opération et d'entretien. B&S vous recommande de conserver tous les reçus couvrant les travaux d'entretien de votre petit moteur hors route, mais B&S ne peut refuser la garantie en raison d'absence de reçus ou pour défaut d'avoir suivi tout l'échéancier du programme d'entretien.

Vous avez la responsabilité d'apporter votre petit moteur hors route à un détaillant autorisé B&S aussitôt que survient un problème. Les réparations sous garantie doivent être complétées dans un délai raisonnable ne devant pas excéder 30 jours.

Si vous avez des questions relativement à votre garantie, vos droits et responsabilités, veuillez communiquer avec un représentant de service B&S au numéro 1-414-259-5262.

La garantie du système d'échappement est une garantie contre les défauts. Les défauts sont jugés en fonction d'une utilisation normale du moteur. La garantie n'est pas reliée à un test d'échappement effectué à l'intérieur.

En tant que propriétaire d'un petit moteur hors route, vous devez être informé que B&S peut refuser d'honorer cette garantie si la défectuosité de votre moteur ou d'une partie de votre moteur est due à un emploi abusif, une négligence, un entretien incorrect ou une modification non approuvée.

**Dispositions de la garantie du système d'échappement Briggs & Stratton**

Ce qui suit concerne les dispositions spécifiques relativement à votre garantie sur le système de contrôle d'échappement. C'est une addition à la garantie B&S pour les moteurs non réglementés contenue dans le manuel d'entretien et d'utilisation.

**1. Pièces sous garantie**

La couverture de cette garantie ne s'applique que sur les pièces listées ci-contre (les parties du système de contrôle d'échappement) dans la mesure où ces pièces étaient présentes sur le moteur au moment de l'achat.

- Système de dosage du carburant
  - Système d'enrichissement de démarrage à froid
  - Carburateur et parties internes
  - Pompe à essence
- Système d'induction d'air
  - Filtre à air
  - Tubulure d'admission
- Système d'ignition
  - Bougies d'allumage
  - Système d'allumage électromagnétique
- Système catalyseur
  - Convertisseur catalytique
  - Collecteur d'échappement
  - Système d'injection d'air ou à pulsion
- Autres pièces utilisées dans les systèmes ci-haut mentionnés
  - Soupapes et interrupteurs de dépression, de température, de position.
  - Connecteurs et assemblages.

**2. Durée de la couverture**

B&S garantit le propriétaire initial et tous les acheteurs subséquents que les pièces sous garantie sont exemptes de vice de matière ou de fabrication qui pourraient causer des défauts des pièces sous garantie pour une période de deux ans à partir de la date à laquelle le moteur a été livré à l'acheteur.

**3. Aucuns Frais**

La réparation ou le remplacement de toute pièce sous garantie sera effectuée sans aucuns frais pour le propriétaire, incluant les frais de main d'œuvre pour le diagnostic afin de déterminer si la pièce sous garantie est défectueuse, conditionnel à ce que le diagnostic soit effectué chez un détaillant autorisé B&S. Pour la garantie relative au système d'échappement, communiquez avec le détaillant autorisé B&S le plus proche tel que listé dans les pages jaunes de votre localité sous la rubrique moteur à essence, tondeuse ou autre catégorie similaire.

**4. Réclamations et exclusions de la couverture.**

Les réclamations de garantie doivent être complétées en accord avec les dispositions de la politique de garantie B&S. La garantie ne couvre pas les défauts des pièces qui ne sont pas des pièces d'origine B&S ou dans le cas d'abus, négligence ou d'un entretien inapproprié. La garantie B&S ne couvre pas les défauts des pièces sous garantie qui ont fait l'objet d'ajouts, ont été modifiées ou de pièces qui ne sont pas des pièces B&S d'origine.

**5. Entretien**

Toute pièce sous garantie qui n'est pas remplacée au moment requis selon le manuel d'entretien ou qui est planifiée seulement pour une inspection régulière sous la mention « réparer ou remplacer si nécessaire » est garantie contre toute défectuosité pour la période de garantie. Toute pièce sous garantie qui est planifiée pour un remplacement tel que requis dans l'entretien est garantie contre toute défectuosité seulement pour la période de temps qui va jusqu'au premier remplacement prévu pour cette pièce. Toute pièce de remplacement équivalente en performance et durabilité peut être utilisée pour l'entretien ou la réparation. Le propriétaire est responsable de l'exécution de tout entretien requis tel que défini dans le manuel d'instruction B&S sur l'entretien et la réparation.

**6. Couverture indirecte**

La couverture ci-contre s'étend à toute défectuosité des composantes du moteur causée par la défectuosité de n'importe quelle pièce couverte par la garantie et dont la garantie est encore en vigueur.

**Consultez les informations sur la période de durabilité d'émission et l'INDICE d'air sur l'étiquette d'émission de votre moteur**

Les moteurs qui sont certifiés conformes aux normes standards d'émission du California Air Resources Board (CARB) Tier 2, doivent afficher l'information concernant la période de durabilité du système d'émission et l'INDICE d'air. Cette information est indiquée sur les étiquettes apposées sur les moteurs par Briggs & Stratton.

La **période de durabilité d'émission** indique le nombre d'heures d'utilisation normale pour lequel le moteur est certifié conforme aux normes d'émission sous réserve d'un entretien approprié tel qu'indiqué dans le manuel d'opération et d'entretien. Les catégories suivantes sont utilisées :

**Modéré** le moteur est certifié conforme pour 125 heures d'utilisation normale.

**Intermédiaire** le moteur est certifié conforme pour 250 heures d'utilisation normale.

**Prolongé** le moteur est certifié conforme pour 500 heures d'utilisation normale.

Par exemple, une tondeuse de modèle standard est utilisée environ 20 à 25 heures par année. Par conséquent, la **période de durabilité d'émission** d'un moteur dans la catégorie intermédiaire pour ce type de tondeuse équivaut à 10 à 12 ans.

L'**indice d'air** est un nombre qui décrit le niveau relatif d'émission pour une catégorie spécifique de moteur. Plus l'**indice d'air** est bas, plus le moteur est écologique. Cette information est indiquée sous une forme graphique sur l'étiquette d'émission.

Ceci est une représentation des étiquettes d'émission

que vous retrouverez sur les moteurs certifiés :

