



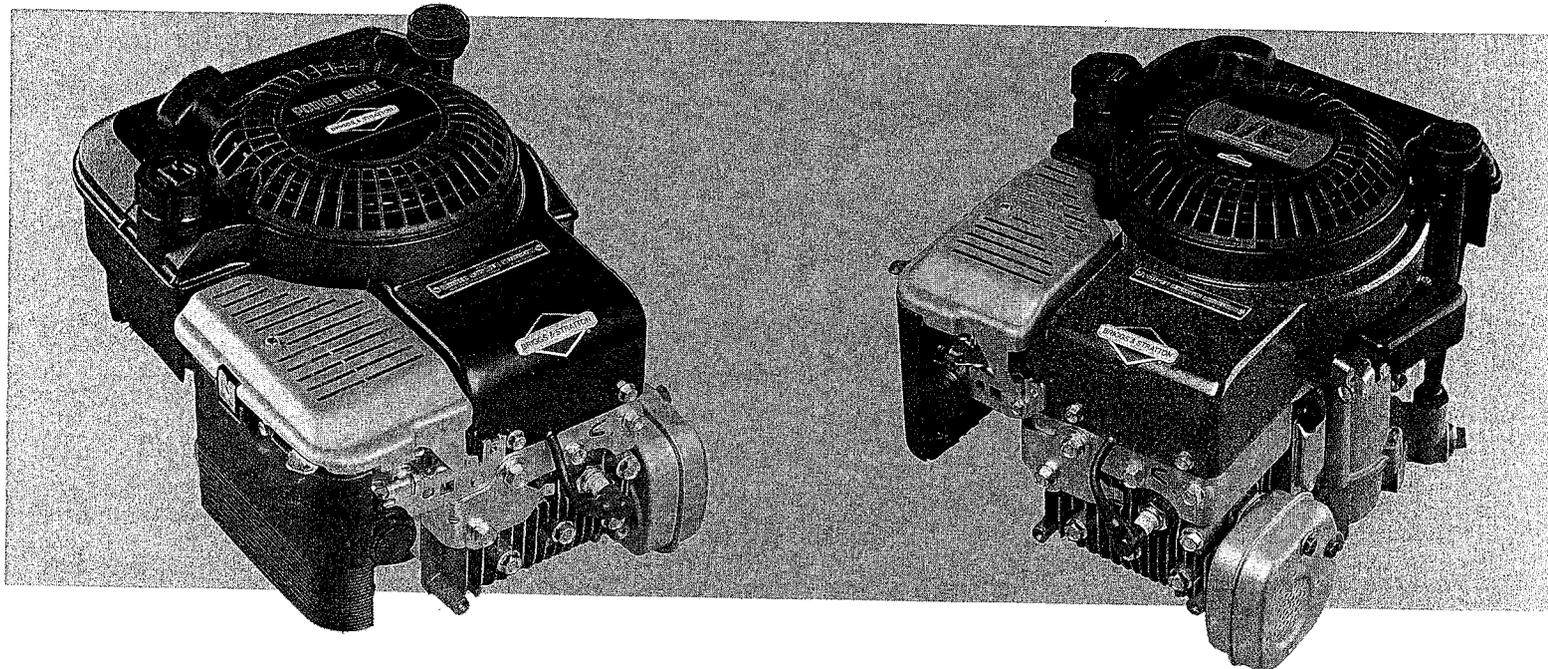
Before starting this engine,
read and understand this *Owner's Manual*.

272704-10/93



Owner's Manual

Model Series 135700 & I/C® Model Series 133700



For future reference, write your *engine* Model/Type/Code here.
See page 8 for location of your *engine* Model/Type/Code.

Model	Type	Code
<input type="text"/>	<input type="text"/>	<input type="text"/>

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Briggs & Stratton Corporation
Milwaukee, Wisconsin 53201

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FORM NO. 272704-7/94
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IMPORTANT SAFETY INFORMATION AND INSTRUCTIONS FOR ENGINE SELECTION ENGINE INSTALLATION ENGINE OPERATION

In the USA and Canada,
our 24 hour hotline is:

18002333723

Briggs & Stratton Corporation
Milwaukee, Wisconsin 53201

www.briggsandstratton.com

Keep these instructions for future reference.



Before installing and operating this engine read and observe all warnings, cautions and instructions on both sides of this sheet, on the engine, and in the operating & maintenance instructions.

NOTE: This sheet of instructions and safety information is not meant to cover all possible conditions and situations that may occur. Read entire Operating & Maintenance Instructions for this engine AND the instructions for the equipment this engine powers. Failure to follow instructions and safety information could result in serious injury or death.

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



Explosion



Moving Parts



Toxic Fumes



Hot Surface



Shock



Kickback

(OVER)

FORM MS-6445-01/03

ENGINE SELECTION

 WARNING

Failure to select the correct engine could result in fire or explosion.

- Some engines are unique and designed for specific applications or types of equipment. If this engine will be used to build new equipment, contact Briggs & Stratton to ensure that the engine is appropriate for the intended use.
Note: For all Go-karts use only a model 136200 series engine, which offers improved safety and performance.
- Replacement engines should be the same model as the original engine, or be the Briggs & Stratton designated replacement engine. Refer to the Operation & Maintenance Instructions for engine identification information.
Note: For all Go-karts use only a model 136200 series engine, which offers improved safety and performance.
- Do not use Briggs & Stratton engines on 3-wheel All-Terrain Vehicles (ATVs), motor bikes, air craft products, or vehicles intended for use in competitive events. Briggs & Stratton does not approve of or authorize such uses.

ENGINE INSTALLATION

- [1] Do not attempt to install this engine if you do not have the appropriate tools and knowledge of small engine installation procedures. Use only Briggs & Stratton parts. Contact your Authorized Service Dealer for assistance.
- [2] Do not modify the engine in any way without Briggs & Stratton factory approval. Any such modification is at the owner's sole risk.
- [3] If the exhaust system on the old engine was supplied by the equipment manufacturer, you must transfer the exhaust system and related components (original muffler and related pipes, brackets, clamps, and shields) to the new engine. All components must be in good condition.
- [4]

 WARNING	Install muffler (and muffler deflector if used) so outlet points away from operator, fuel tank, and equipment, and so muffler heat will not damage or deform engine and components.
	
- [5]

 WARNING	Ensure all fuel lines and fittings are properly assembled and do not leak. Replacement parts must be the same model as the original.
	
- [6]

 WARNING	Ensure all wiring, including safety switches and engine shut-off components are completely installed and functioning properly.
	
- [7] Set engine speed to equipment manufacturer's specification. Refer to equipment manufacturer's manual. Do not tamper with governor springs, or other parts that will increase engine speed above specification.

- [8]

 WARNING	All engine parts, including fuel cap, spark plug, muffler, air cleaner, and covers and guards for drive components (gears, belts, shafts, couplings, etc.) must be in place before attempting to start engine.
	
- [9]

 WARNING	If engine is installed on walk behind lawn mower, all mower components, including cutting blade, must be correctly installed before attempting to start engine.
	
- [10]

 WARNING	When working on the engine or equipment, remove spark plug wire from spark plug. For electric start, remove negative wire from battery.
	
- [11]

 WARNING	Do not check for spark with spark plug removed. Use Briggs & Stratton spark tester #19368.
	

ENGINE OPERATION

	 WARNING
	When adding fuel:
<p>Turn engine off and let engine cool at least 2 minutes before removing gas cap.</p> <p>Fill fuel tank outdoors or in well-ventilated area. Fill tank to about 1 inch below lowest portion of neck to allow for fuel expansion.</p> <p>Keep gasoline away from sparks, open flames, pilot lights, heat, and other ignition sources.</p>	
	 WARNING
	When starting engine:
<p>Remove all external equipment/engine loads.</p> <p>Wait until spilled fuel is evaporated. Start engine outdoors.</p> <p>Pull cord slowly until resistance is felt, then pull rapidly.</p> <p>If engine floods, set choke to OPEN/RUN, place throttle in FAST and crank until engine starts.</p>	
	 WARNING
	When operating equipment:
<p>Do not tip engine or equipment at angle which causes gasoline to spill.</p> <p>Run engine outdoors. Do not run in enclosed area, even if doors or windows are open.</p> <p>Do not choke carburetor to stop engine.</p>	

In the Interest of Safety



This SAFETY ALERT SYMBOL indicates that THIS MESSAGE involves PERSONAL SAFETY. Words DANGER, WARNING and CAUTION indicate degree of hazard. DEATH, PERSONAL INJURY and/or PROPERTY DAMAGE may occur unless INSTRUCTIONS ARE FOLLOWED CAREFULLY.

The Briggs & Stratton engine you bought with your equipment is made of the finest material in a state-of-the-art manufacturing facility. Please understand that Briggs & Stratton sells engines to original equipment manufacturers. It also sells to others in the distribution chain who may sell to the ultimate consumer, an equipment manufacturer, another distributor or a dealer. As a result, Briggs & Stratton does not necessarily know the application on which the engine will be placed. For that reason, you should carefully read and understand the operating instructions of the equipment on which your engine is placed before you operate it.

You should also understand that there are equipment applications for which Briggs & Stratton does not approve the use of its engines. Briggs & Stratton engines are not to be used on vehicles with less than 4 wheels. They include motor bikes, aircraft products and All Terrain Vehicles. Moreover, Briggs & Stratton does not approve of its engines being used in competitive events. **FOR THAT REASON, BRIGGS & STRATTON ENGINES ARE NOT AUTHORIZED FOR ANY OF THESE APPLICATIONS.** Failure to follow this warning could result in death, serious injury (including paralysis) or property damage.



DO NOT run engine in an enclosed area. (Exhaust gases contain carbon monoxide, an odorless and deadly poison.)
DO NOT place hands or feet near moving or rotating parts.
DO NOT store, spill, or use gasoline near an open flame, nor near an appliance like a stove, furnace, or water heater that uses a pilot light or can create a spark.
DO NOT refuel indoors or in unventilated area.
DO NOT remove fuel tank cap nor fill fuel tank while engine is hot or running. (Allow engine to cool 2 minutes before refueling.)
DO NOT operate engine if gasoline is spilled or when smell of gasoline is present or other explosive conditions exist. (Move equipment away from spill and avoid any ignition until gasoline has evaporated.)
DO NOT transport engine with fuel in tank.
DO NOT choke carburetor to stop engine. (Whenever possible, gradually reduce engine speed before stopping.)
DO NOT tamper with governor springs, links or other parts to increase engine speed. (Run engine at speed set for equipment manufacturer.)



- ✓ PREVENT ACCIDENTAL STARTING by removing spark plug wire when servicing engine or equipment. Disconnect negative wire from battery terminal if equipped with electric starting system.
- ✓ KEEP cylinder fins and governor parts free of dirt, grass and other debris which can affect engine speed.
- ✓ PULL starter cord slowly until resistance is felt. Then pull cord rapidly to avoid kickback and prevent hand or arm injury.



You are not ready to operate this engine if you have not read and understood the following safety items. Read this entire owner's manual and the operating instructions of the equipment this engine powers.



WARNING

- DO NOT check for spark with spark plug removed. (Use an approved tester.)
- DO NOT crank engine with spark plug removed. (If engine is flooded, place throttle in FAST and crank until engine starts.)
- DO NOT strike flywheel with a hammer or hard object as this may cause flywheel to shatter in operation. (Use correct tools to service engine.)
- DO NOT operate engine without a muffler. (Inspect periodically and replace if worn or leaking. If engine is equipped with muffler deflector, inspect periodically and, if necessary, replace with correct deflector.)
- DO NOT operate engine with an accumulation of grass, leaves or other combustible material in muffler area.
- DO NOT use this engine on any forest covered, brush covered, or grass covered unimproved land unless a spark arrester is installed on muffler. (Spark arrester must be maintained in working order by operator.)
- DO NOT touch hot muffler, cylinder, or fins which can cause burns.
- DO NOT start engine with air cleaner or air cleaner cover removed (or cover over carburetor air intake, if Sno/Gard engine).



WARNING

- ✓ USE fresh gasoline. Stale fuel can gum carburetor and cause leakage.
- ✓ CHECK fuel lines and fittings frequently for cracks or leaks. Replace if necessary.
- ✓ Use only Genuine Briggs & Stratton Parts or their equivalent. The use of replacement parts which are not of equivalent quality may damage the engine.

International Symbols



Safety Alert



Read Owner's Manual

| ○ On Off



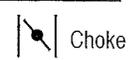
Stop



Fuel Shutoff



Fuel



Choke

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.

Oil & Fuel Recommendations

OIL

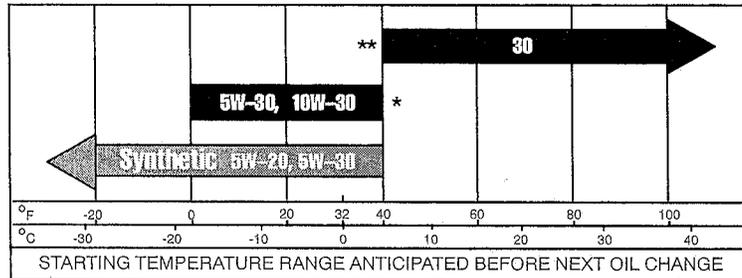
Note: Engine is shipped from Briggs & Stratton without oil.
Before starting engine, check as shown below.

Change and add oil according to chart below. Do not over-fill.

Use a high quality detergent oil classified "For Service SC, SD, SE, SF, SG," such as Briggs & Stratton "warranty certified" SAE 30 oil, part no. 100005. Use no special additives with recommended oils.

Do not mix oil with gasoline.

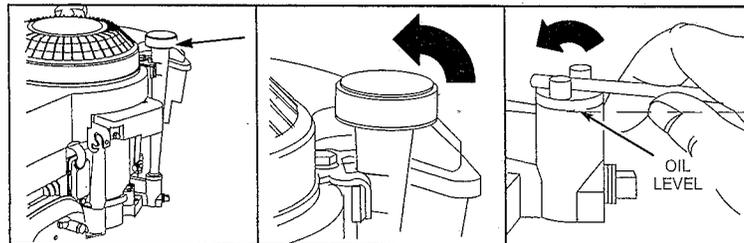
SAE Viscosity Grades



* Air cooled engines run hotter than automotive engines. Use of multi-viscosity oils (10W-30, etc.) above 40° F (4° C) will result in high oil consumption and possible engine damage. Check oil level more frequently if using these types of oils.

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

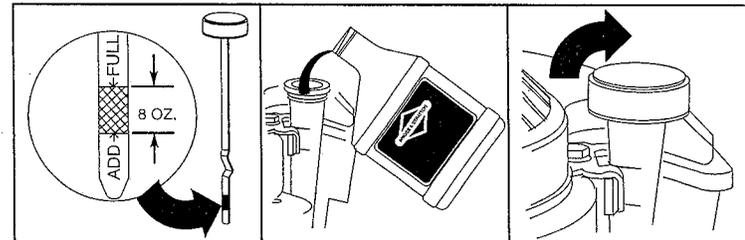
Check oil level before starting engine. Add oil as shown below: oil capacity is about 7/8 quart (28 ounces 0.8 liters).



Place engine level
Clean around oil fill

Remove oil filler
plug or dipstick

Fill to over flowing
for oil filler plug
OIL LEVEL



Fill to FULL mark if
engine has dipstick

Add oil slowly -
recheck

Tighten plug/ dipstick
firmly before starting

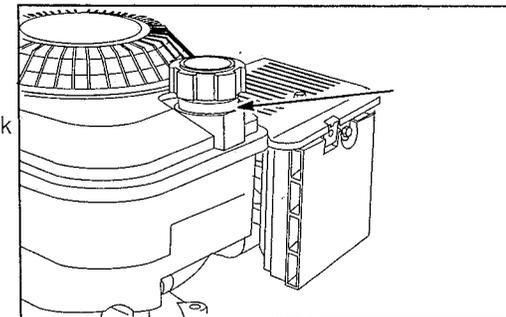
FUEL

This engine will operate satisfactorily using any automobile gasoline. Use clean, fresh, lead-free gasoline with a minimum of 77 octane. (Leaded gasoline may be used if it is commercially available, and if lead-free is not available.) Purchase fuel in quantity that can be used within 30 days. See **STORAGE INSTRUCTIONS**, page 9.

Do not mix oil with gasoline.

Note: We do not recommend using gasoline which contains alcohol, such as gasohol. If gasoline with alcohol is used, it must contain less than 10% Ethanol and must be removed from engine during storage. Do not use gasoline which contains Methanol.

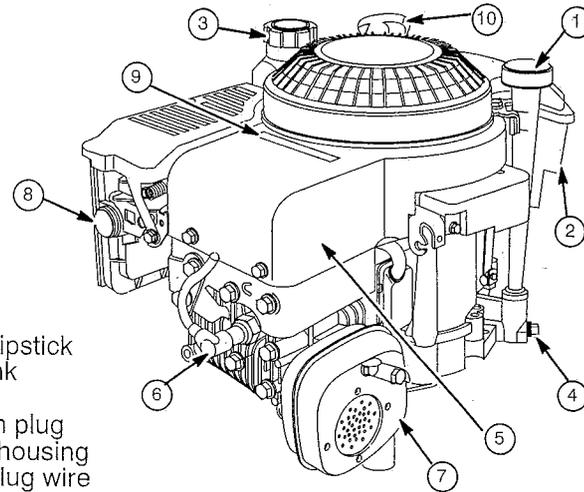
Do not over-fill.
Allow space in fuel tank
for fuel expansion.



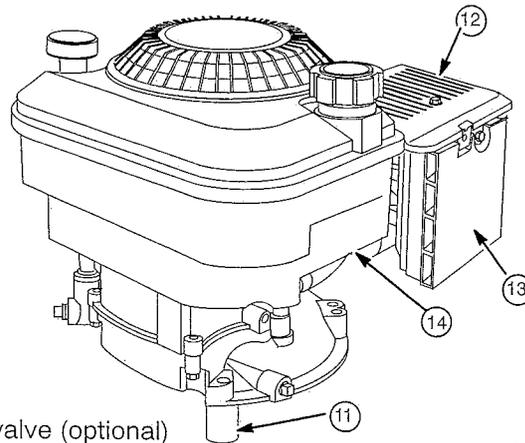
Fuel level

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.

Before Starting



1. Oil fill/Dipstick
2. Fuel tank
3. Fuel fill
4. Oil drain plug
5. Blower housing
6. Spark plug wire
7. Muffler
8. Primer bulb (optional)
9. Engine Model Type Code
 xxxxx xxxx xx xxxxxxxx
10. Rope handle



11. Crankshaft
12. Carburetor
13. Air cleaner
14. Fuel shut-off valve (optional)

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TIPS TO OBTAIN BEST STARTING RESULTS

Start lawnmower on hard surface or over previously cut grass. Start, store and fuel lawnmower in level position.



Do not use a pressurized starting fluid. Starting fluid is flammable. Severe engine damage or fire may occur.



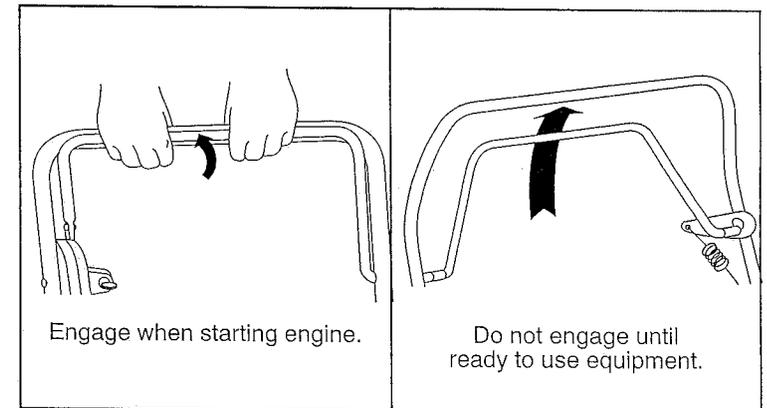
Periodically remove grass build-up under mower deck. Remove spark plug wire before removing grass. When tipping lawnmower to remove grass, keep spark plug side of engine up.

Slightly richer fuel mixture usually improves cold starting (below 40° F). See **CARBURETOR ADJUSTMENTS**, page 5.

CONTROL HANDLE(S)



Equipment may have safety brake control handle and/or traction control handle as well as steering handle. Operate control handle(s) as follows or as equipment manufacturer recommends.



Typical safety brake control handle Typical traction control handle

Starting & Stopping

START ENGINE

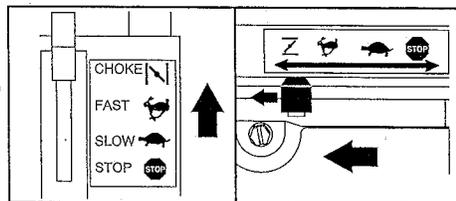


ALWAYS KEEP HANDS AND FEET CLEAR OF MOWER BLADE OR OTHER ROTATING MACHINERY.



Choke engine:

Move throttle control to CHOKE or START position. Choke must fully close. If engine does not start, see *Adjustments*, page 5.



Typical throttle control

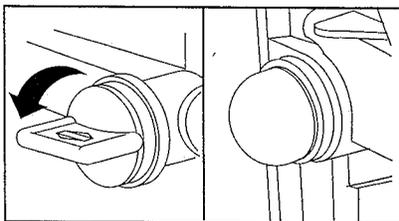
Fuel shut-off valve (optional)

Open 1/4 turn counterclockwise.

Primer (optional)



On these model engines, move throttle control to RUN or FAST position. Push primer bulb firmly 3 times before starting engine. (If engine stopped because it ran out of fuel, refuel engine and push primer bulb 3 times.)



Fuel shut-off valve (optional)

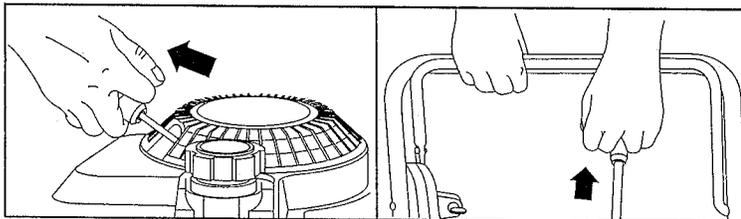
Primer (optional)

Note: Priming is usually unnecessary when restarting a warm engine. However, cool weather may require priming to be repeated.

Rewind starter



Grasp rope handle as illustrated and pull slowly until resistance is felt. THEN PULL CORD RAPIDLY TO OVERCOME COMPRESSION, PREVENT KICKBACK AND START ENGINE. Repeat if necessary with choke off and throttle control in FAST position. When engine starts, operate in FAST position.

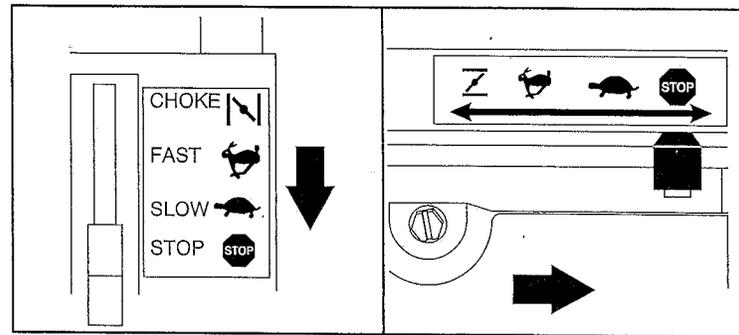


Rewind starter

STOP ENGINE

Do not move choke control to CHOKE position to stop engine. Backfire or engine damage may occur.

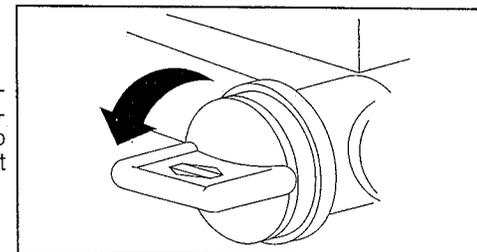
Move throttle control to SLOW position, then to STOP or release safety brake control handle.



Typical stop controls



When engine is transported, close fuel shut-off valve (if engine is so equipped) to prevent fuel leakage.



Fuel shut-off valve

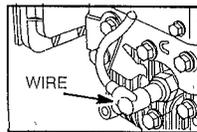
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Adjustments

CONTROL ADJUSTMENTS



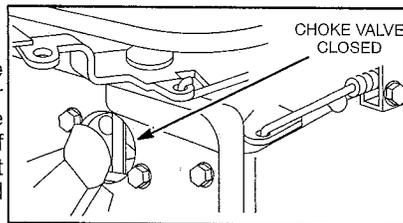
TO PREVENT ACCIDENTAL STARTING



Remove spark plug wire, when adjusting controls.

To check operation of throttle control

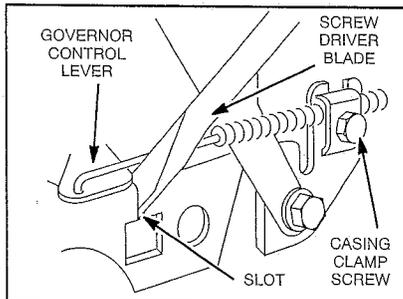
Remove air cleaner. Move throttle control to CHOKE or START position. Choke valve should snap closed as shown. If it does not, replace air cleaner. If it does not, adjust as instructed below.



Typical throttle control

To adjust throttle control

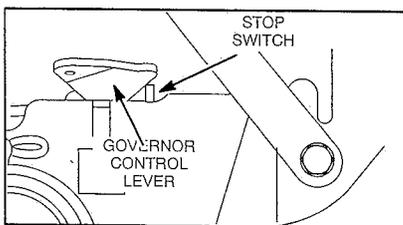
Loosen casing clamp screw. Move governor control lever to left as far as possible. Insert large, flat-blade screw driver into slot in engine control bracket at angle shown. Push governor control lever to right until it just touches screw driver blade. Move throttle control to FAST position. Tighten casing clamp screw. Replace air cleaner.



Throttle control adjustment

Check stop switch

Move throttle control to STOP position, if so equipped. Governor control lever must make good contact with stop switch.



Stop switch check

Check operation of controls. Readjust if necessary.

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CARBURETOR ADJUSTMENTS



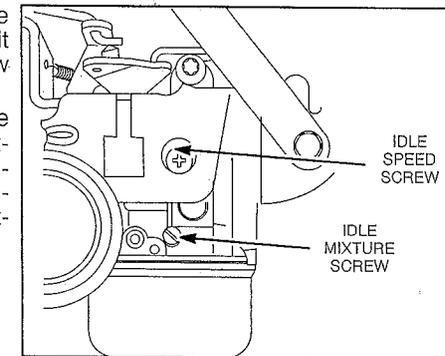
The manufacturer of equipment on which this engine is installed specifies top speed at which engine will be operated. DO NOT EXCEED this speed.

Differences in fuel, temperature, altitude or load may require minor carburetor adjustment. Air cleaner and air cleaner cover must be assembled to carburetor before starting engine.

Initial adjustment

Gently turn idle mixture screw clockwise until it JUST closes. Turning screw in too far may damage it.

Next open idle mixture screw 1 turn counterclockwise. Start and warm up engine (approximately 5 minutes) prior to final adjustment.



Carburetor adjustments

DO NOT ADJUST TOP SPEED SCREW. It is pre-set at factory.

Final adjustment

Place throttle control in IDLE or SLOW position. Adjust idle speed by turning idle speed screw to obtain 2000 RPM.

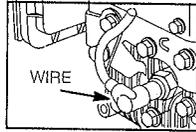
Next turn idle mixture screw clockwise (lean) until engine starts to slow. Then turn it counterclockwise (rich) until engine starts to slow again. Now turn it midway between rich and lean. Check idle speed and readjust if necessary. Move throttle control to FAST position. Engine should accelerate smoothly. If it does not, readjust carburetor, usually to a slightly richer mixture by turning idle mixture screw 1/8 turn counterclockwise.

Maintenance

See **Maintenance Schedule**, page 8. Follow the hourly or calendar intervals, whichever occur first. Note that more frequent service is required when operating in adverse conditions.



TO PREVENT ACCIDENTAL STARTING



Remove spark plug wire when servicing engine or equipment.

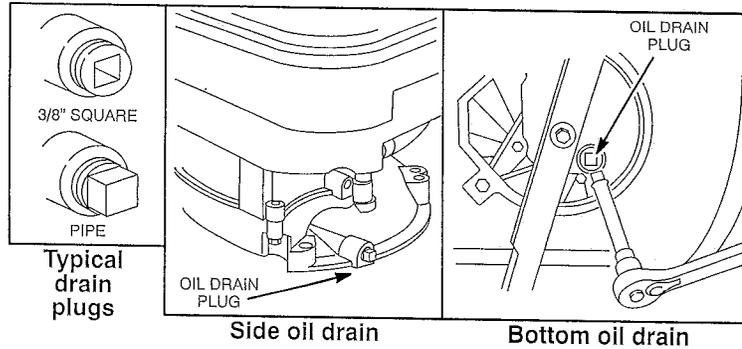
OIL

Check oil level regularly.

Be sure correct oil level is maintained. Check every 5 hours or daily, before starting engine. See **Check oil level** on page 2.

Change oil (Follow **Maintenance Schedule**.)

Change oil after first 5 hours of operation. Drain oil from bottom or by tipping engine spark plug side up. Change oil while engine is warm. Refill with new oil of recommended grade (chart on page 2).



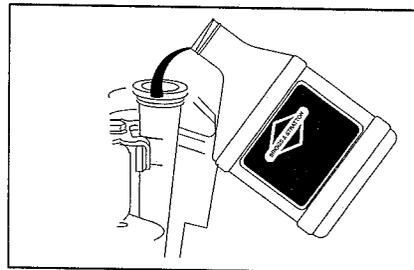
Typical drain plugs

Side oil drain

Bottom oil drain



Before tipping engine or equipment to drain oil, drain fuel from tank by running engine until fuel tank is empty.



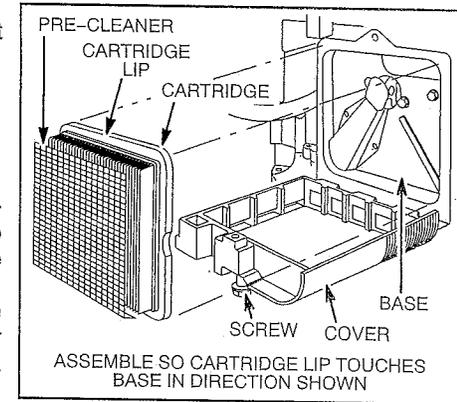
Oil fill



AIR CLEANER

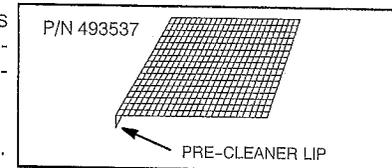
Note: Service according to **Maintenance Schedule**. Service more often under dusty conditions.

- Loosen screw and tilt cover as illustrated.
- Carefully remove pre-cleaner (if engine is so equipped) and cartridge assembly from cover. (Depending on Type Number of engine, your engine may not have a pre-cleaner.)



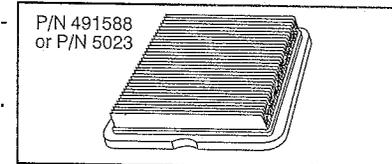
Dual element air cleaner

To service pre-cleaner, if engine is so equipped, wash in liquid detergent and water. Allow to dry thoroughly before using. Do not oil pre-cleaner. Replace if very dirty or damaged.



Pre-cleaner

To service cartridge, clean by tapping gently on a flat surface. Do not oil cartridge. Replace if very dirty or damaged.



Cartridge

Note: Do not use petroleum solvents, e.g., kerosene, nor pressurized air to clean cartridge. They will cause cartridge to deteriorate.

- Place pre-cleaner (arrows in direction shown) over cartridge pleats.
- Place cartridge in cover, with bottom lip of pre-cleaner under pleats.
- Insert tabs on cover into slots in bottom of base.
- Tilt cover up and tighten screw securely to base.

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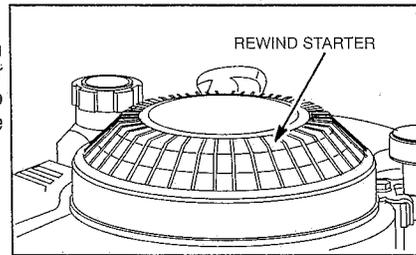
Maintenance

See **Maintenance Schedule**, page 8. Follow the hourly or calendar intervals, whichever occur first. Note that more frequent service is required when operating in adverse conditions.

KEEP ENGINE AND PARTS CLEAN

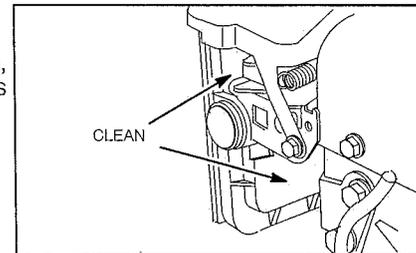
Remove dirt and debris with a cloth or brush. Do not clean with a forceful spray of water because water could contaminate fuel system.

Remove grass and chaff from finger guard every 8 hours or daily (more often if needed) to prevent engine damage caused by overheating.



Finger guard

To assure smooth operation, keep governor linkage, springs and controls free of debris.

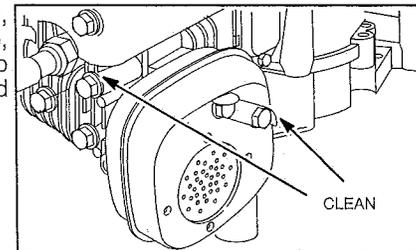


Linkage, springs & controls



Daily or more often, before running engine, clean muffler area to remove all grass and combustible debris.

If engine muffler is equipped with spark arrester screen assembly, remove for cleaning and inspection. Replace if damaged.

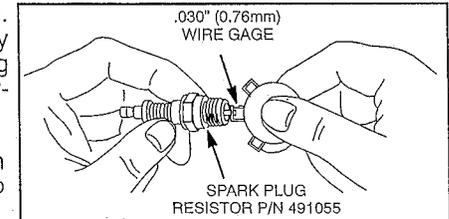


Muffler area/Spark arrester

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Grass or chaff may clog engine's air cooling system, especially after prolonged operation cutting dry grass. Internal cooling fins and surfaces may require cleaning to prevent overheating and engine damage. To obtain service, contact any Briggs & Stratton Authorized Service Dealer.

Replace or clean spark plug. Do not blast clean. Clean by scraping or wire brushing and washing with a commercial solvent.

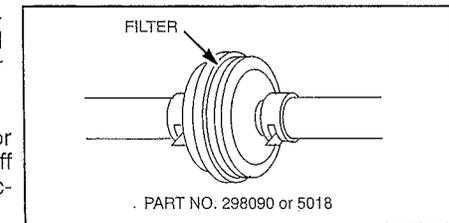


Spark plug

Use only Briggs & Stratton Spark Tester, P.N. 19368, to check for spark.

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

Replace in-line fuel filter (optional). See any Authorized Briggs & Stratton Dealer for correct replacement.



Fuel filter



Drain fuel tank or close fuel shut-off valve before replacing fuel filter.

Remove combustion deposits

Remove cylinder head every 100-300 hours of operation. Scrape and wire brush the combustion deposits from cylinder, cylinder head, top of piston and around valves. Reassemble gasket and cylinder head. Turn screws down finger tight. Torque cylinder head screws in a staggered sequence to 140 in.-lbs. (15.8 Nm).

Maintenance Schedule

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

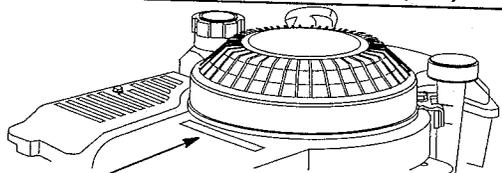
Maintenance Operation	Every 5 hours or daily	25 hours or every season	50 hours or every season	100 hours or every season	100-300 hours
Check oil level	•				
Change oil ♦			• Note 1		
Clean pre-cleaner (optional)		• Note 2			
Clean air cleaner cartridge, if no pre-cleaner		• Note 2			
Clean air cleaner cartridge, if equipped with pre-cleaner				• Note 2	
Clean cooling system				• Note 2	
Inspect spark arrester			•		
Clean in-line fuel filter (optional accessory)			•		
Replace or clean spark plug				•	
Clean combustion chamber deposits					•

See any Authorized Briggs & Stratton Service Dealer and **insist on** Genuine Briggs & Stratton parts! Non-original copies may not perform as well and may void your warranty.

Briggs & Stratton Part Numbers of some Genuine Briggs & Stratton Parts:

Part	Briggs & Stratton Part No.
Air cleaner pre-cleaner	493537
Air cleaner cartridge	491588 or 5043
Fuel filter	298090 or 5018
Resistor spark plug	802592
Standard spark plug	492167
Spark plug wrench	89838 or 5023
Spark tester	19368
Oil	100005
Gas additive	5041

♦ Change oil after first 5 hours, then after every 50 hours or every season.
Note 1: Change oil every 25 hours when operating under heavy load or in high temperatures.
Note 2: Clean more often under dusty conditions or when airborne debris is present. Replace air cleaner parts, if very dirty.



Look here for engine Model/Type/Code. This assures fast service & correct parts.

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.

To obtain a complete Parts List of Genuine Briggs & Stratton Parts for your engine, fill in your engine Model/Type/Code below and print your name and address on the other side.
 We cannot fill your order without the correct Model/Type/Code.
 (Please allow 3 to 4 weeks for delivery.)

Your Engine **Model** **Type** **Code**

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Cut out and send (with \$2) to: Briggs & Stratton Corporation
P.O. Box 1144
Att. Service Division **Milwaukee, WI 53201-1144**

Service & Storage

FOR SERVICE

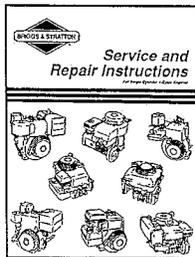
See an Authorized Briggs & Stratton Service Dealer. Each one carries a stock of Genuine Briggs & Stratton Parts and is equipped with special service tools. Trained mechanics assure expert repair service on all Briggs & Stratton engines. Only dealers advertising as "Authorized Briggs & Stratton" are required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



You may locate your nearest Authorized Briggs & Stratton Service Dealer in the "Yellow Pages™" directory under "Engines, Gasoline" or "Gasoline Engines," or "Lawn Mowers" or similar category. There are over 30,000 Authorized Service Dealers worldwide available to serve you.

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

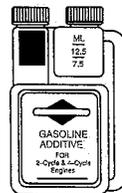
The illustrated shop manual shown here includes "Theories of Operation," common specifications and detailed information covering adjustment, tune-up and repair of Briggs & Stratton L-head, single cylinder, 4 cycle engines. It is available from an Authorized Briggs & Stratton Service Dealer or you can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



Part No. 270962

STORAGE INSTRUCTIONS

Engines stored over 30 days need to be protected or drained of fuel to prevent gum from forming in fuel system or on essential carburetor parts.

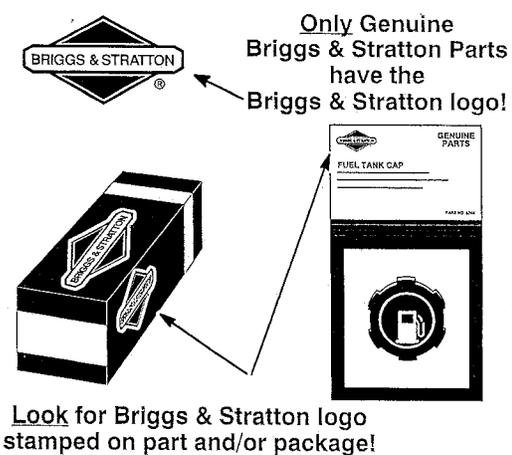


1. For engine protection, we recommend use of Briggs & Stratton Gasoline Additive, Part No. 5041, available from any Authorized Briggs & Stratton Service Dealer. Mix Additive with fuel in fuel tank or storage container. Run engine for a short time to circulate Additive through carburetor. Engine and fuel can be stored up to 24 months.

Note: If Additive is not used or if engine is operating on gasoline containing alcohol, such as gasohol, remove all fuel from tank and run engine until it stops from lack of fuel.

2. While engine is still warm, drain oil from crankcase (see page 6). Refill with fresh oil of recommended grade (see chart on page 2).
3. Remove spark plug and pour about 1/2 oz (15 ml) of engine oil into cylinder. Replace spark plug and crank slowly to distribute oil.
4. Clean dirt and chaff from cylinder, cylinder head fins, blower housing, rotating screen and muffler areas (see page 7).
5. Store in a clean and dry area, but NOT near a stove, furnace or water heater which uses a pilot light or any device that can create a spark.

Name _____
 Address _____
 City, State, Zip _____



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 February 1, 1994

Replaces all undated Warranties and all Warranties
dated before February 1, 1994

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 / Lifetime** - Magnetron® ignition			
All Diamond Plus, Europa™, Industrial Plus™ and all I/C®.	2 year	1 year	2 year	1 year
Quantum® and Diamond Power.	2 year	90 days	2 year †	90 days
All standard 2 through 18.HP engines installed on lawn mowers, riders, edgers, tillers, and all Sno/Gard engines.	2 year	90 days	1 year	90 days
All other standard 2 through 18 HP engines.	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.**

** Lifetime limited warranty of the Magnetron® ignition covers parts and labor for the first five (5) years from the date of purchase; thereafter only parts. "Lifetime" means lifetime of the engine in the hands of the original purchaser.

† One (1) year in Australia and New Zealand.

**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.**