

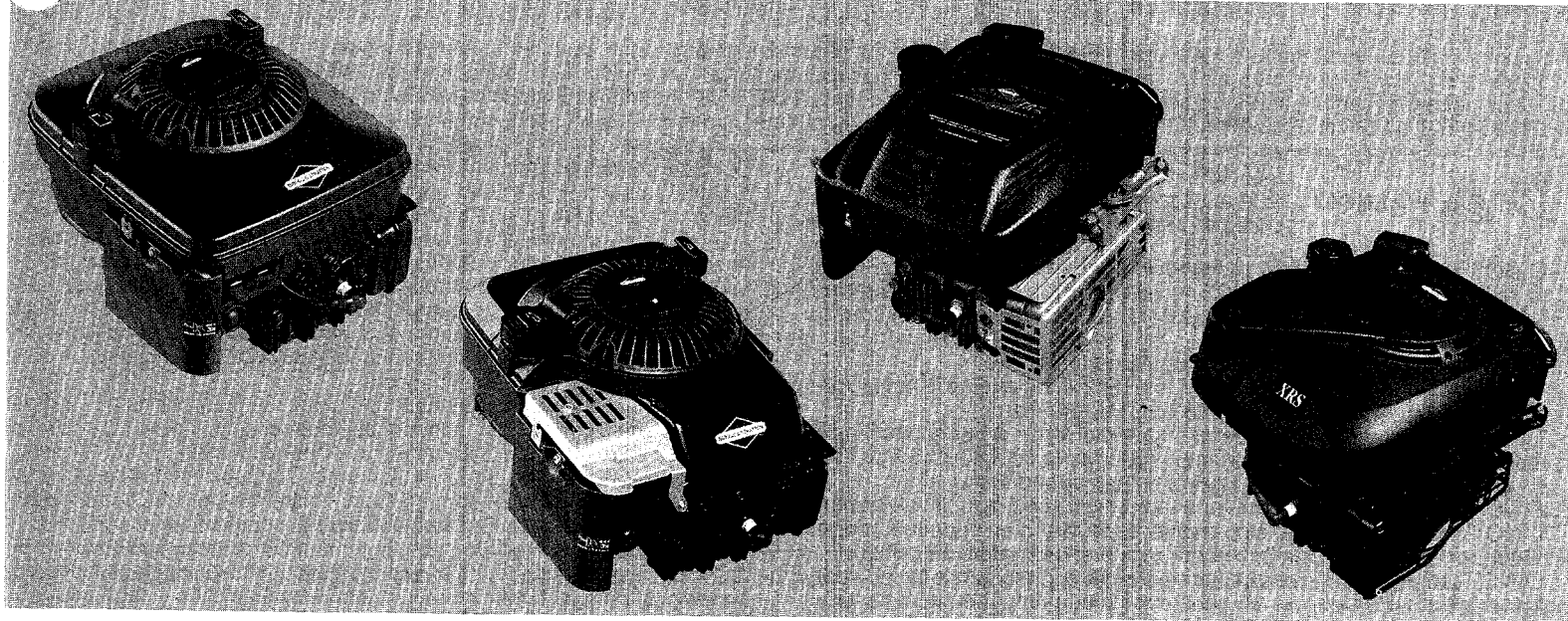


Before starting this engine,
read and understand this *Owner's Manual*.



Owner's Manual

Model Series 12A800, 12B700, 12B800, 12C700, 12C800, 12D800, 12E700, 12E800, 12F700, 12F800, 12G700, 12G800, 12H800, 12J800, 12S700, 12S800, 12T700, 12T800, 12U800, 12V800, 12W800, 127700, 127800, 128700, 128800, 129700, 129800



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

Model

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

Type

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

Code

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

Table of Contents

<i>a Interest of Safety</i>	1
<i>Oil & Fuel Recommendations</i>	2
<i>Before Starting</i>	3
<i>Starting & Stopping</i>	4

<i>Adjustments</i>	5
<i>Maintenance</i>	6
<i>Service & Storage</i>	9
<i>Warranty</i>	10

Briggs & Stratton Corporation
Milwaukee, Wisconsin 53201

© Copyright 1995 by Briggs & Stratton Corporation

FORM NO. 272262-7/95
PRINTED IN U.S.A.

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 your 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.



WARNING

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 an 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 or with fuel shut-off valve open.
DO NOT choke carburetor to stop engine, especially in an enclosed vehicle. (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.)



WARNING

- ✓ **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.
- ✓ **USE** fresh gasoline. Stale fuel can gum carburetor and cause leakage.
- ✓ **CHECK** fuel lines and fittings frequently for cracks or leaks. Replace if

International
Symbols



Safety Alert



Read
Owner's Manual

| ○ On Off



Stop



Fuel
Shutoff



Fuel



Choke



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.

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 effective working order by owner and/or operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.
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).

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.**

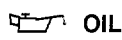


WARNING:

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



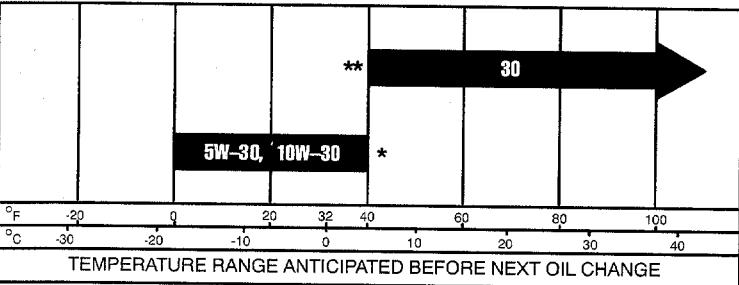
Oil & Fuel Recommendations



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 high quality detergent oil classified "For Service SC, SD, SE, SF, 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 5/8 quart (20 ounces or 0.6 liters).

Place engine level
Clean around oil fill

Remove dipstick
Wipe with clean cloth

Tighten dipstick
Remove and check

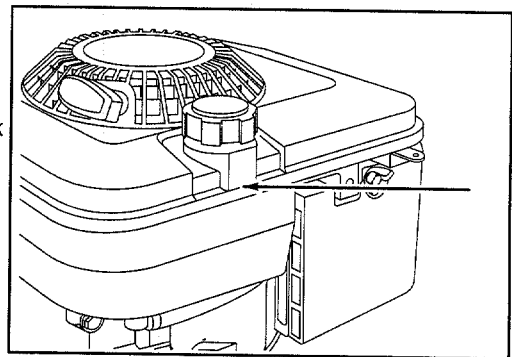


FUEL

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.

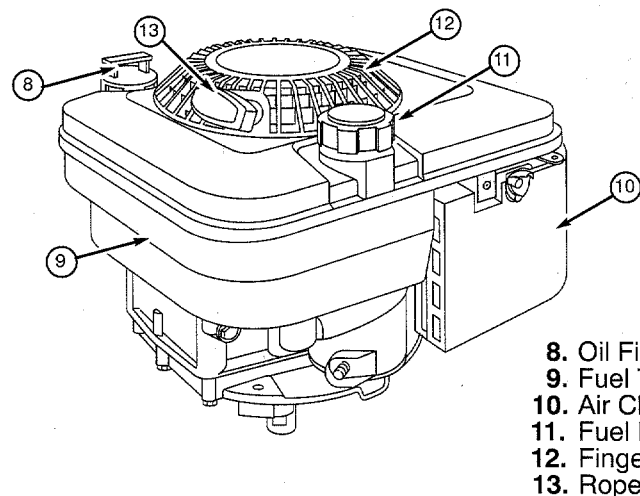
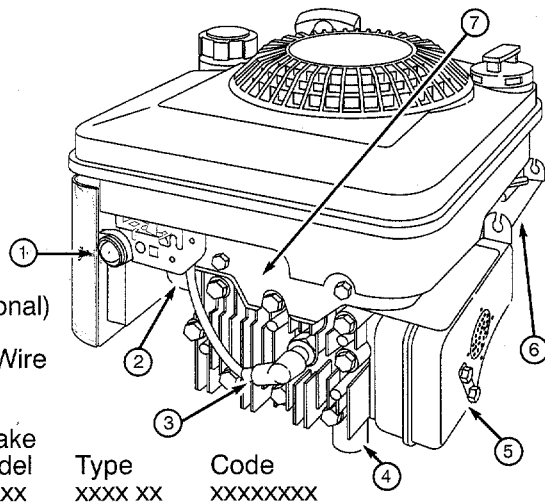
Do not mix oil with gasoline.
Note: We do not recommend using gasoline which contains alcohol, such as gasohol. If gasoline with alcohol is used, it must contain less than 10% Ethanol and must be removed from engine during storage. Do not use gasoline which contains Methanol.

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



Fuel level

Before Starting



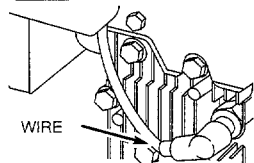
TIPS TO OBTAIN BEST STARTING RESULTS

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

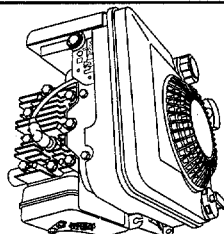


Do not use a pressurized starting fluid. Starting fluid is flammable. Severe engine damage or fire may occur.

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



Remove spark plug wire before removing grass.



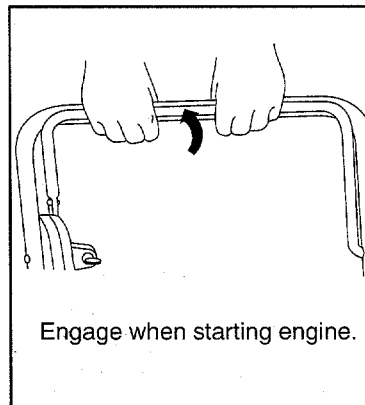
Keep air cleaner side of engine up when tipping lawn mower to remove grass.

Periodically remove grass build-up under mower deck

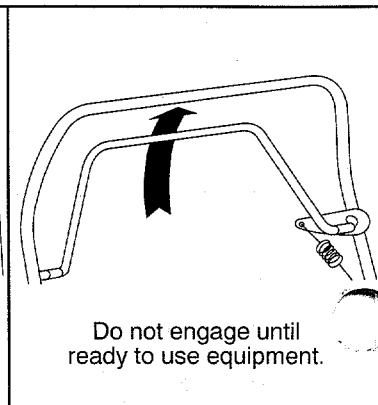
CONTROL HANDLE(S)



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

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:

Starting & Stopping

START ENGINE



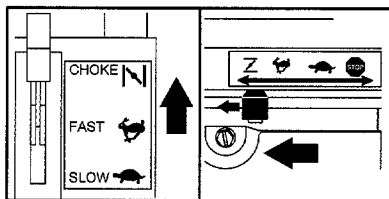
ALWAYS KEEP HANDS AND FEET CLEAR OF MOWER BLADE OR OTHER ROTATING MACHINERY.



Choke (optional)

Move throttle control to CHOKE or START position.

Note: Choke must fully close. If engine does not start, see *Adjustments*, page 5.



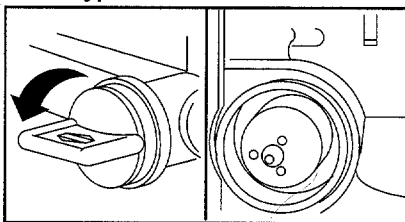
Typical throttle controls

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)

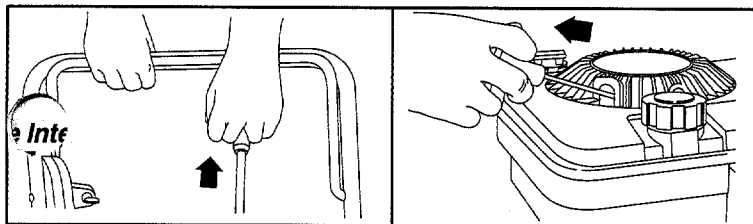
Primer

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 throttle control in FAST position. When engine starts, operate in FAST position.

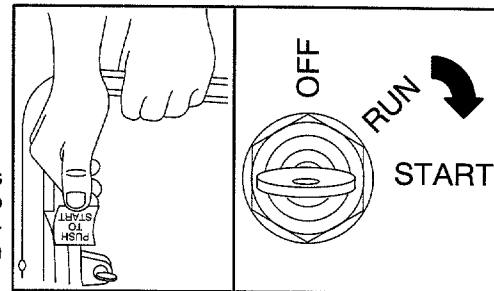


Rewind with typical safety control Rewind without safety control

Electric starter (optional)

Turn key to START. Repeat if necessary with throttle control in FAST position. When engine starts, operate in FAST position.

Note: If equipment manufacturer has supplied battery, charge it before trying to start engine, as equipment manufacturer recommends.



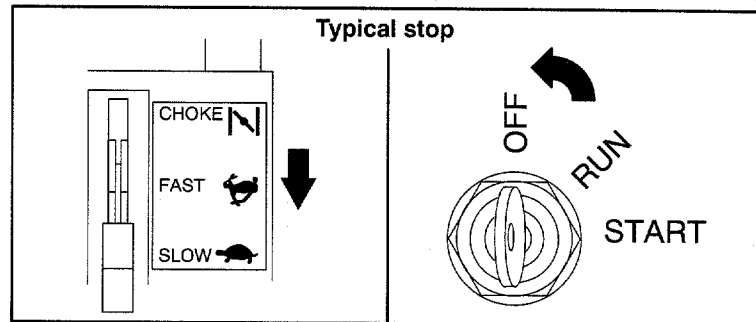
Typical electric starter

Use short starting cycles (15 secs. per min.) to prolong starter life. Extended cranking can damage starter motor.

STOP ENGINE

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

Move throttle control to SLOW position, then to STOP and turn key to OFF, if so equipped. Always remove key from switch when equipment is not in use or left unattended.



(with safety control)

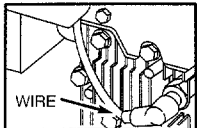
(without safety control)



When equipment is not in use, is left unattended or is being transported, remove key from switch and close fuel shut-off valve.

Adjustments

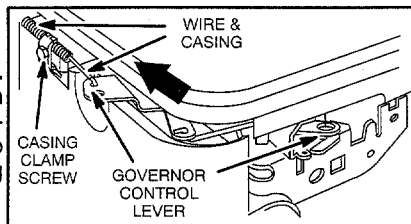
CONTROL ADJUSTMENTS



TO PREVENT ACCIDENTAL STARTING
Remove spark plug wire, when adjusting controls. Disconnect battery at negative terminal, if engine has electric starting system.

To adjust throttle control, primer equipped engine

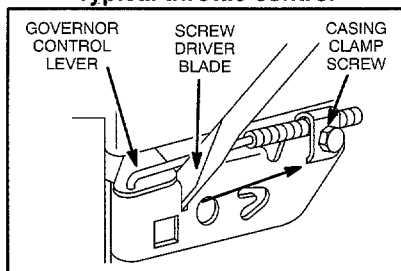
Loosen casing clamp screw. Move governor control lever in direction of arrow as far as possible. Move throttle control to FAST position. Tighten casing clamp screw.



Typical throttle control

To adjust throttle control, choke equipped engine

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.

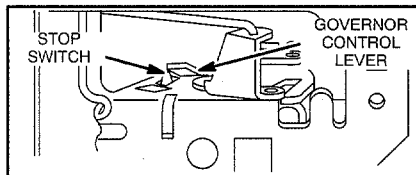


Throttle control adjustment

Check stop switch

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

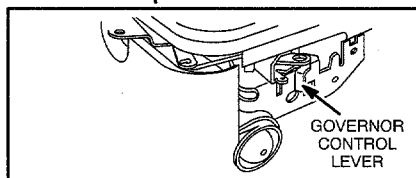
Check operation of controls. Readjust if necessary.



Stop switch check

Fixed adjustable control

This control was set to the equipment manufacturer's requirements. If adjustment is required, consult any Briggs & Stratton Authorized Service Dealer.



Fixed Adjustable

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.

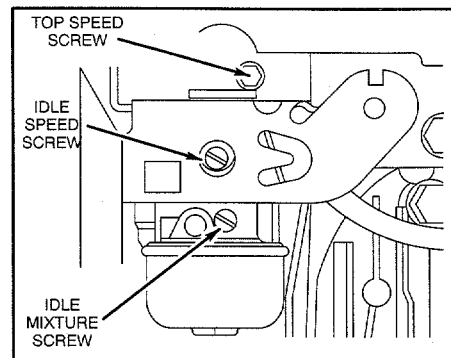
Note: Primer equipped engines cannot be adjusted. If your engine is primer equipped, it will idle down only about 600 to 900 rpm below top speed, which accounts for the higher than expected idle speed. Depending on the Type Number, it may not idle down at all.

Adjustments, if engine is equipped with choke

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 (1800 outside U.S.A.).

Next turn idle mixture screw clockwise (lean) until engine starts to. 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

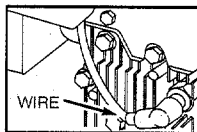
See **Maintenance Schedule**, page 8. Follow the hourly or calendar intervals, whichever occur first. Note that more frequent service is required when operating in adverse conditions.



TO PREVENT ACCIDENTAL STARTING

Remove spark plug wire when servicing engine or equipment.

Disconnect battery at negative terminal, if engine has electric starting system.



OIL

Check oil level regularly.

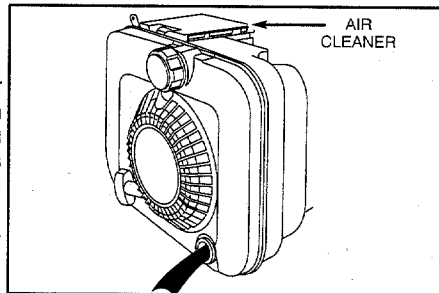
Be sure correct oil level is maintained. Check every 5 hours or daily, before starting engine. See **Check oil level** on page 2.

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

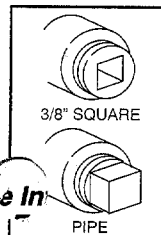
Change oil after first 5 hours of operation. Change oil while engine is warm. Preferably drain oil from top of engine as illustrated below. Oil can be drained from engine bottom if necessary. Refill with new oil of recommended grade (chart, page 2).



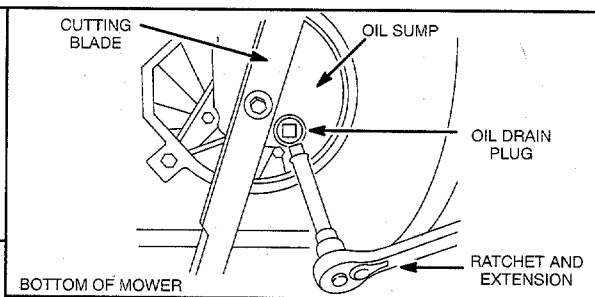
Before tipping engine or equipment to drain oil, drain fuel from tank by running engine until fuel tank is empty. Then when tipping engine or equipment to drain oil, keep air cleaner side up as illustrated.



Top oil drain



Typical drain plug



Bottom oil drain

AIR CLEANER (Service according to **Maintenance Schedule**.)

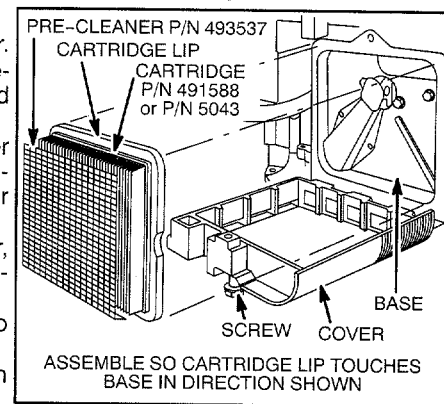
To service pre-cleaner, if equipped (pre-cleaner is an optional accessory), wash in liquid detergent and water. Allow to dry thoroughly before using. Do not oil pre-cleaner. Replace if very dirty or damaged.

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

Note: Do not use petroleum solvents, e.g., kerosene, which will cause cartridge to deteriorate. Do not clean the cartridge with pressurized air. Pressurized air can damage the cartridge

Flat dual element

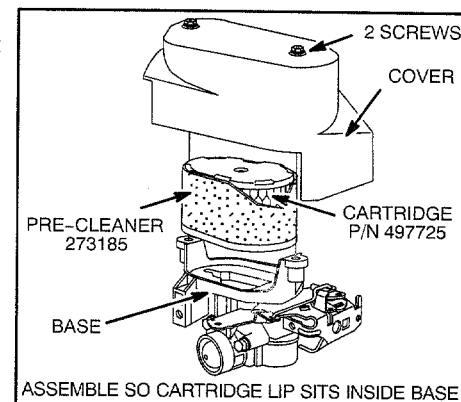
1. Loosen screw and tilt cover.
2. Carefully remove pre-cleaner, if equipped, and cartridge assembly.
3. After servicing pre-cleaner and cartridge, place pre-cleaner (arrows up) over cartridge pleats.
4. Place cartridge in cover, with bottom lip of pre-cleaner under pleats.
5. Insert tabs on cover into slots in bottom of base.
6. Tilt cover up and tighten screw securely to base.



Flat dual element air cleaner

Round dual element

1. Loosen screws and lift cover.
2. Carefully remove pre-cleaner, if equipped, and cartridge assembly.
3. After servicing pre-cleaner and cartridge, place pre-cleaner on cartridge.
4. Place air cleaner assembly in base.
5. Place cover on air cleaner and tighten screws securely to base.



Round dual element air cleaner

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.

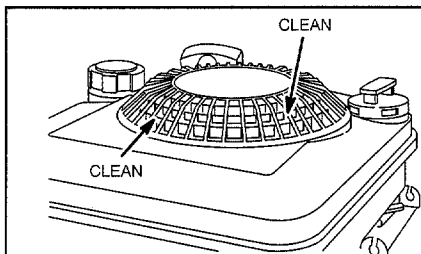
Maintenance

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

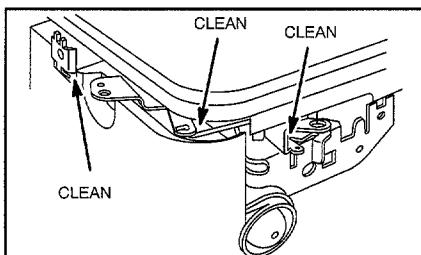
Remove dirt and debris with a cloth or brush. Do not clean with a forceful spray of water because water could contaminate fuel system.

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.

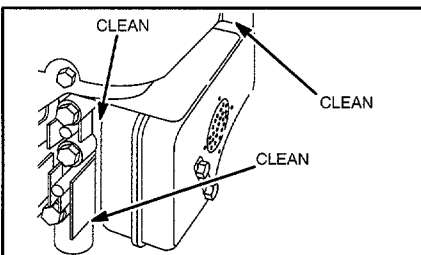


Linkage, springs & controls



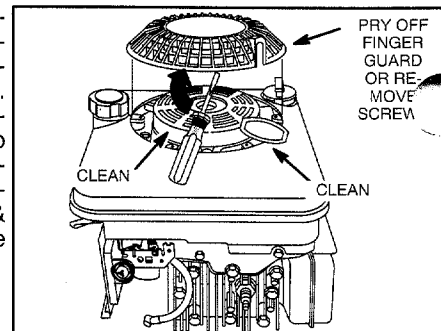
Daily or more often, before running engine, clean muffler area to remove all grass and combustible debris.

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



Muffler area/Spark arrester

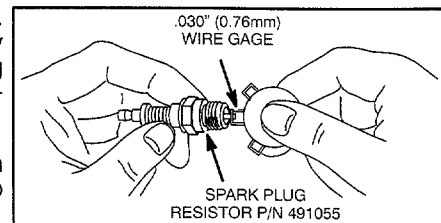
Grass or chaff may clog engine's air cooling system, especially after prolonged operation cutting tall, dry grass. Internal cooling fins and surfaces may require cleaning to prevent overheating and engine damage. To obtain service, contact any Briggs & Stratton Authorized Service Dealer.



Cooling system

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

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



Spark plug

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.

Remove combustion deposits

Remove cylinder head every 100-300 hours of operation. Scrape wire brush the combustion deposits from cylinder, cylinder head, top 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 accessory)		• 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 and in-line fuel filter (optional)			•		
Replace or clean spark plug				•	
Clean combustion chamber deposits					•

- ♦ 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.

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.
Square air cleaner cartridge ..	491588 or 5043
Square air cleaner pre-cleaner	493537
Oval air cleaner cartridge	497725
Oval air cleaner pre-cleaner	273185
Resistor spark plug	802592
Standard spark plug	492167
Spark tester	19368
Spark plug wrench	89838 or 5023
Spark plug elbow	66538
Oil	100005
Gas additive	5041

**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.)

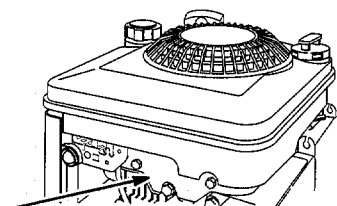
Your Engine

Model

Type

Code

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



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.

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

Please print clearly. This will be used as return mailing label.

From: **Briggs & Stratton Corporation**
Literature Department
P.O. Box 702
Milwaukee, WI 53201-0702 U.S.A.

To:

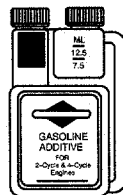
Name _____

Address _____

City, State, Zip _____

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.



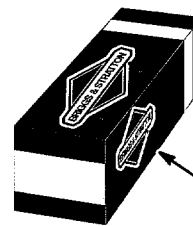
1. For engine protection, we recommend use of Briggs & Stratton Gasoline Additive, Part No. 5041, available from any Authorized Briggs & Stratton Service Dealer. Mix Additive with fuel in fuel tank or storage container. Run engine for a short time to circulate Additive through carburetor. Engine and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



**Only Genuine
Briggs & Stratton Parts
have the
Briggs & Stratton logo!**



**Look for Briggs & Stratton logo
stamped on part and/or package!**

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 back cover 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.

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 (4 cycle engines: check oil level daily or after every 8 hours of operation. Refill when necessary and change at recommended intervals.) (2 cycle engines: use correct mixture of gasoline and BIA/NMMA certified oil.) Read "Owner's Manual."
- 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 nonoriginal 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 "Owner's Manual."
- 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 "Owner's Manual."
- 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.
- 11. Engine or engine component failure, i.e., combustion chamber, valves, valve seats, valve guides, or burned starter motor windings, caused by the use of alternate fuels such as, liquified petroleum, natural gas, altered gasolines, etc.

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)							
5,271,363	5,197,425	5,105,331	5,016,588	4,971,219	4,520,288	4,270,509	DES. 309,458
5,269,713	5,197,422	5,086,890	4,996,956	4,895,119	4,453,507	4,233,534	DES. 309,457
5,265,700	5,191,864	5,040,644	4,995,357	4,819,593	4,430,984	4,168,288	DES. 308,872
5,243,878	5,150,674	5,040,503	4,977,879	4,694,792	4,355,253	4,068,636	DES. 308,871

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 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.**