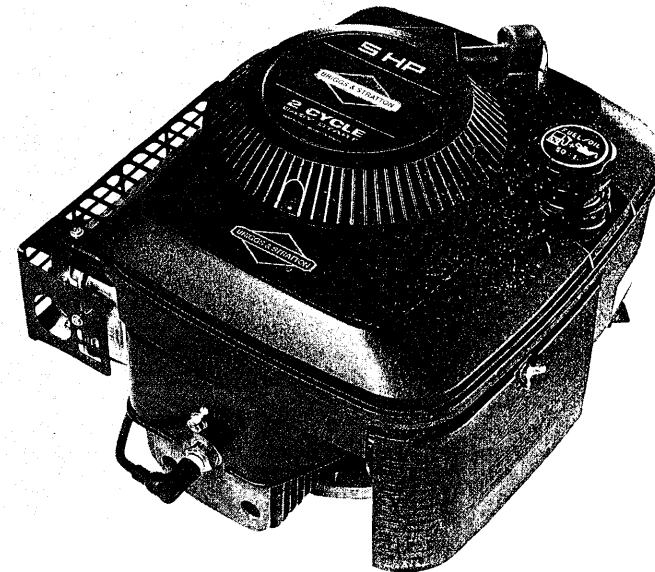
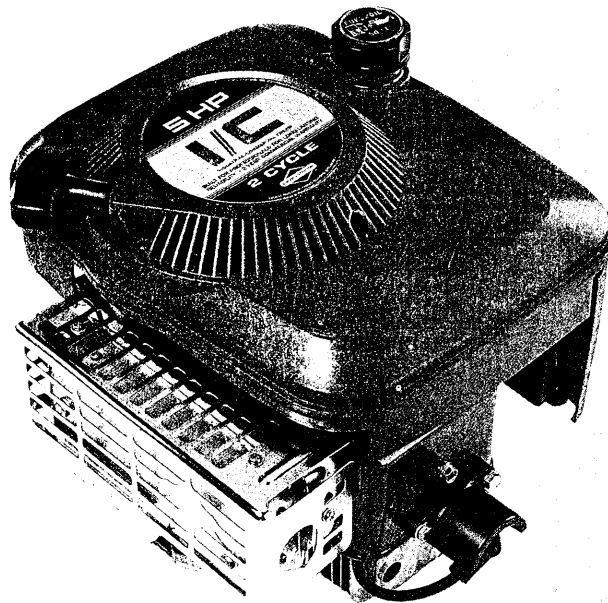




*Operating and Maintenance Instructions for  
Model Series 95700, 96700*



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**Briggs & Stratton Corporation**  
Milwaukee, Wisconsin 53201

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FORM NO. 800101-7/91  
PRINTED IN U.S.A.

# 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](http://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

 <b>WARNING</b>

<b>Failure to select the correct engine could result in fire or explosion.</b>

- 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] 

 <b>WARNING</b>	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] 

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

 <b>WARNING</b>	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] 







 <b>WARNING</b>	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] 

 <b>WARNING</b>	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] 

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

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

# ENGINE OPERATION

	 <b>WARNING</b>
	<b>When adding fuel:</b>
<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>	
	 <b>WARNING</b>
	<b>When starting engine:</b>
<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>	
	 <b>WARNING</b>
	<b>When operating equipment:</b>
<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>	

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# In The Interest Of Safety



**BEFORE STARTING ENGINE, READ AND UNDERSTAND THE "OPERATING AND MAINTENANCE INSTRUCTIONS."**



**THIS SYMBOL MEANS WARNING OR CAUTION. DEATH, PERSONAL INJURY AND/OR PROPERTY DAMAGE MAY OCCUR UNLESS INSTRUCTIONS ARE FOLLOWED CAREFULLY.**



## **WARNING: DO NOT**

1. DO NOT run engine in an enclosed area. Exhaust gases contain carbon monoxide, an odorless and deadly poison.
2. DO NOT place hands or feet near moving or rotating parts.
3. DO NOT store, spill, or use gasoline near an open flame, or devices such as a stove, furnace, or water heater which use a pilot light or devices which can create a spark.
4. DO NOT refuel indoors where area is not well ventilated. Outdoor refueling is preferred.
5. DO NOT fill fuel tank while engine is running. Allow engine to cool for 2 minutes before refueling. Store fuel in approved safety containers.
6. DO NOT remove fuel tank cap while engine is running.
7. DO NOT operate engine when smell of gasoline is present or other explosive conditions exist.
8. DO NOT operate engine if gasoline is spilled. Move machine away from the spill and avoid creating any ignition until the gasoline has evaporated.
9. DO NOT transport engine with fuel in tank.
10. DO NOT smoke when filling fuel tank.
11. DO NOT choke carburetor to stop engine. Whenever possible, gradually reduce engine speed before stopping.
12. DO NOT run engine at excessive speeds. This may result in injury.

13. DO NOT tamper with governor springs, governor links or other parts which may increase the governed engine speed.
14. DO NOT tamper with the engine speed selected by the original equipment manufacturer.
15. DO NOT check for spark with spark plug or spark plug wire removed. Use an approved tester.
16. DO NOT crank engine with spark plug removed. If engine is flooded, place throttle in "FAST" position and crank until engine starts.
17. DO NOT strike flywheel with a hard object or metal tool as this may cause flywheel to shatter in operation. Use proper tools to service engine.
18. DO NOT operate engine without a muffler. Inspect periodically and replace, if necessary. If engine is equipped with muffler deflector, inspect periodically and replace, if necessary, with correct deflector.
19. DO NOT operate engine with an accumulation of grass, leaves, dirt or other combustible material in the muffler area.
20. DO NOT use this engine on any forest covered, brush covered, or grass covered unimproved land unless a spark arrester is installed on the muffler. The arrester must be maintained in effective working order by the 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.
21. DO NOT touch hot muffler, cylinder, or fins because contact may cause burns.

22. DO NOT run engine with air cleaner or air cleaner cover (or cover directly over carburetor air intake, if Sno/Gard engine) removed.



## **WARNING: DO**

1. ALWAYS DO remove the wire from the spark plug when servicing the engine or equipment TO PREVENT ACCIDENTAL STARTING. Disconnect the negative wire from the battery terminal if equipped with a 12 volt starting system.
2. DO keep cylinder fins and governor parts free of grass and other debris which can affect engine speed.
3. DO pull starter cord slowly until resistance is felt. Then pull cord rapidly to avoid kickback and prevent hand or arm injury.
4. DO examine muffler periodically to be sure it is functioning effectively. A worn or leaking muffler should be repaired or replaced as necessary.
5. DO use fresh gasoline. Stale fuel can gum carburetor and cause leakage.
6. DO check fuel lines and fittings frequently for cracks or leaks. Replace if necessary.

**NOTE:** Use Original Briggs & Stratton Service Replacement Parts when servicing your engine. Briggs & Stratton Authorized Service Centers carry a stock of such parts. The use of Briggs & Stratton parts preserves the original design of your engine. Imitation replacement parts offer potential risk including the risk of personal injury. Contact any Briggs & Stratton Authorized Service Center for Original Briggs & Stratton Replacement Parts.

# Before Starting

READ THE OPERATING INSTRUCTIONS OF THE EQUIPMENT THIS ENGINE POWERS.



**FUEL RECOMMENDATIONS:**  
This engine is 2 cycle which requires mixing gasoline and oil.



Use a high quality BIA or NMMA certified 2 cycle oil rated TC-W II™. DO NOT USE AUTOMOTIVE OIL.



Use any clean, fresh, lead-free gasoline intended for automotive use with a minimum of 77 octane. Leaded gasoline may be used if lead-free is not available. Use of lead-free gasoline results in fewer combustion deposits. We recommend the use of Briggs & Stratton Gasoline Additive, part no. 5041. (See STORAGE INSTRUCTIONS.) Purchase fuel in quantity that can be used within 30 days. This will assure fuel freshness and volatility tailored to the season.

**NOTE:** We DO NOT recommend the use of gasoline which contains alcohol, such as gasohol. However, if gasoline with alcohol is used, it MUST NOT contain more than 10 percent Ethanol and MUST be removed from the engine during storage. DO NOT use gasoline containing Methanol. (See STORAGE INSTRUCTIONS.)



## GASOLINE/OIL MIXTURE:

The recommended gasoline to oil ratio is 50:1 (32:1 is acceptable). For a 50:1 ratio, in a separate container, thoroughly mix 2.5 ounces (75 ml) of oil with 1 gallon (4 liters) of gasoline. For a 32:1 ratio, in a separate container, thoroughly mix 4 ounces (125 ml) with 1 gallon (4 liters) of gasoline.



Observe recommended gasoline-to-oil mixing ratio to prevent engine damage.



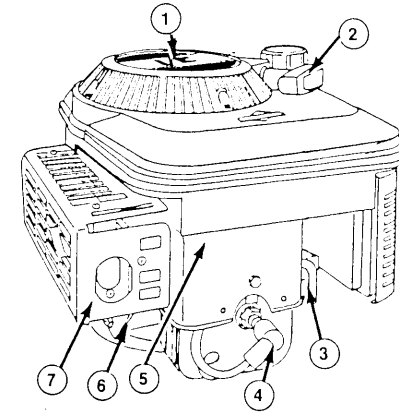
**DO NOT FILL** fuel tank to point of overflowing. Allow approximately 1/4 in. (5 mm) of tank space for fuel expansion.

## GASOLINE/OIL MIXTURE CHART

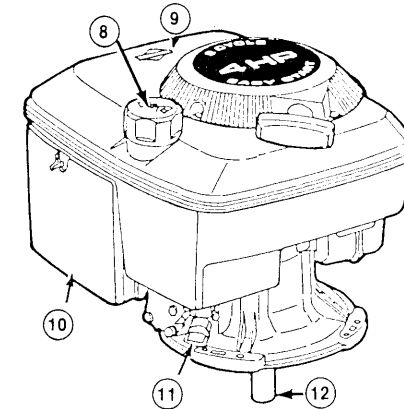
50:1					
U.S.		Imperial		Metric	
Gas, gal	2 Cyc Oil, oz	Gas, gal	2 Cyc Oil, oz	Gas, ltr	2 Cyc Oil, ml
1	2.5	1	3.2	4	75
2	5.0	2	6.4	8	150
5	13.0	5	16.0	20	375
32:1					
U.S.		Imperial		Metric	
Gas, gal	2 Cyc Oil, oz	Gas, gal	2 Cyc Oil, oz	Gas, ltr	2 Cyc Oil, ml
1	4	1	5	4	125
2	8	2	10	8	250
5	20	5	25	20	625

**NOTE:** To assure thorough mixing of oil and gasoline:

1. Fill container partially with gasoline.
2. Add oil per chart.
3. Shake vigorously.
4. Add remainder of gasoline into container and shake vigorously.



1. Static Guard
2. Rewind Starter
3. Carburetor
4. Spark Plug
5. Model, Type and Code Numbers
6. Muffler
7. Muffler Guard



8. Fuel Fill
9. Fuel Tank
10. Air Cleaner
11. Fuel Shut-off Valve
12. Crankshaft

# Starting

## TO START ENGINE:



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

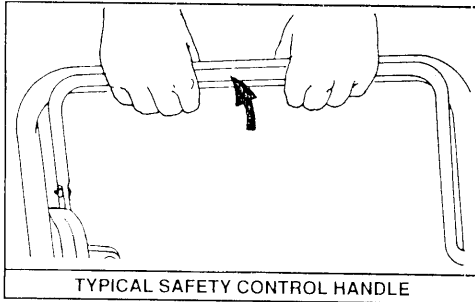
## CONTROL HANDLE(S)



**CAUTION:** Equipment may have one or two control handles in addition to the main mower handle.

## SAFETY CONTROL HANDLE

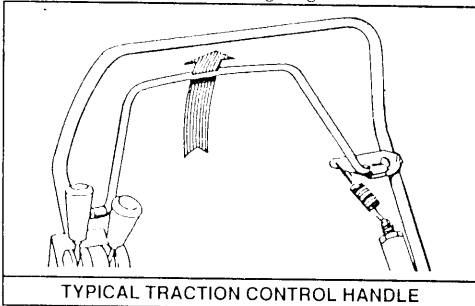
Engage handle **ONLY** if it releases brake to allow engine to be started.



TYPICAL SAFETY CONTROL HANDLE

## TRACTION CONTROL HANDLE

If handle activates the traction control system, do **NOT** engage it when starting engine.



TYPICAL TRACTION CONTROL HANDLE

## TIPS TO OBTAIN BEST STARTING PERFORMANCE

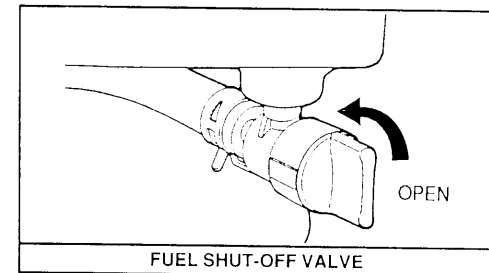
1. Start, store and fuel engine in a level position.
2. Start engine with mower on sidewalk or driveway where the cutting blades are out of the grass in an unloaded condition. If starts must be made on the lawn, move mower over previously cut grass.



**CAUTION:** TO PREVENT ACCIDENTAL STARTING when servicing the engine or equipment, always remove the spark plug or wire from the spark plug.

3. Keep underside of the mower deck clean. Periodically remove any built-up grass which might add resistance to the cutter blade.
4. **DO NOT** use a pressurized starting fluid. Severe engine damage may occur because of loss of lubrication.
5. A warm engine requires less choking than a cold engine. Restart a warm engine with equipment control in "FAST" position.
6. De-clutch all possible external loads.

## OPEN FUEL SHUT-OFF VALVE:



FUEL SHUT-OFF VALVE



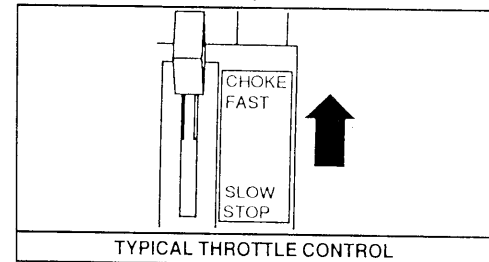
## CHOKE ENGINE:

Engine is equipped with Choke-A-Matic<sup>®</sup> control. Move equipment control lever to "CHOKE" or "START" position.

**NOTE:** Choke should fully close. If it does not, equipment control must be readjusted. See ADJUSTMENT section.



**CAUTION:** DO NOT operate engine with lever in partial "CHOKE" position. Excessive speeds may occur.



TYPICAL THROTTLE CONTROL

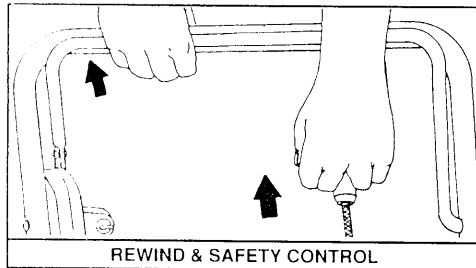
# Starting & Stopping

## REWIND STARTER

### Rewind With Safety Control

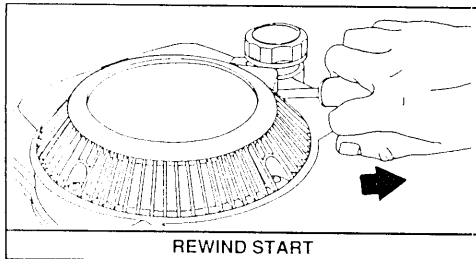


Operate safety control handle(s) as recommended by equipment manufacturer. Grasp starter grip as illustrated and pull slowly until resistance is felt. **Then pull cord rapidly to overcome compression, prevent kickback and start engine.** Repeat if necessary with choke opened slightly. When engine starts, open choke gradually.



### Rewind Without Safety Control

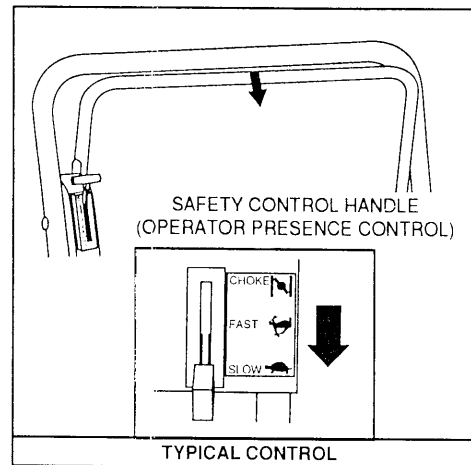
Grasp starter grip as illustrated and pull slowly until resistance is felt. **Then pull cord rapidly to overcome compression, prevent kickback and start engine.** Repeat if necessary with choke opened slightly. When engine starts, open choke gradually.



## TO STOP ENGINE (With Safety Control):



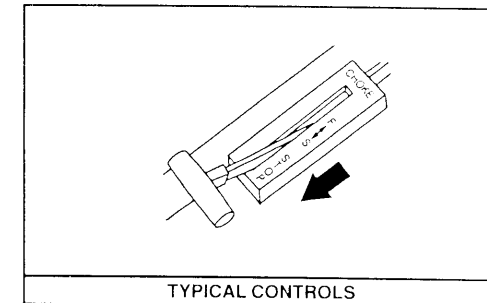
Move equipment control to "SLOW" position. Operate safety control handle(s) as recommended by equipment manufacturer. Do not choke carburetor to stop engine. Backfire or engine damage may result if choke is used to stop engine.



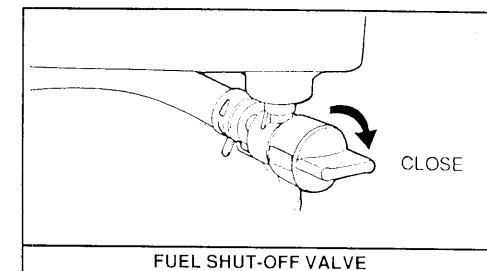
## TO STOP ENGINE (Without Safety Control):



Move equipment control to "SLOW" and then "STOP" position. Backfire or engine damage may result if choke is used to stop engine.



**NOTE:** Close fuel shut-off valve when equipment is not in operation.



# Adjustments

## ENGINE AND EQUIPMENT CONTROLS

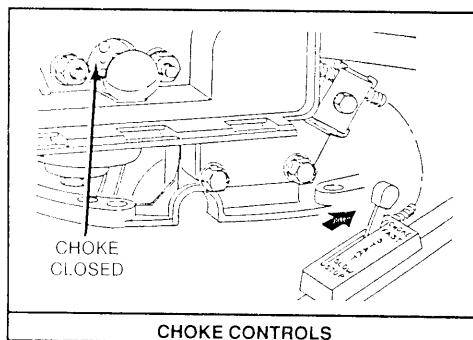


**CAUTION:** The manufacturer of the equipment on which the engine is installed specifies the Top No-Load RPM at which the engine will be operated. DO NOT EXCEED this RPM.

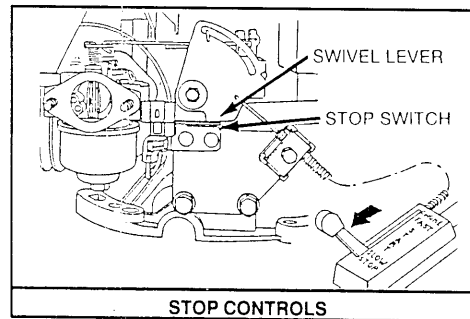
Correct control adjustment is necessary for good engine performance.

### TO CHECK OPERATION OF EQUIPMENT CONTROLS:

Remove air cleaner. Move equipment control lever to "CHOKE" or "START" position. Choke valve should be fully closed as shown. If choke valve does not fully close, follow adjustment instructions below.

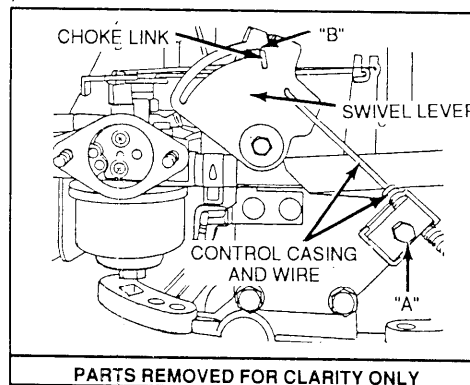


Move equipment control lever to "STOP" position. Swivel lever on carburetor must make positive contact with stop switch as illustrated.



### TO ADJUST OPERATION OF EQUIPMENT CONTROLS:

Move equipment control lever to "FAST" position. Swivel lever should just touch choke link at "B." If it does not, loosen casing clamp screw "A" and move casing and wire forward or backward until swivel lever just touches choke link at "B." Tighten casing clamp screw "A." Check operation of controls. Replace air cleaner.



## CARBURETOR ADJUSTMENTS

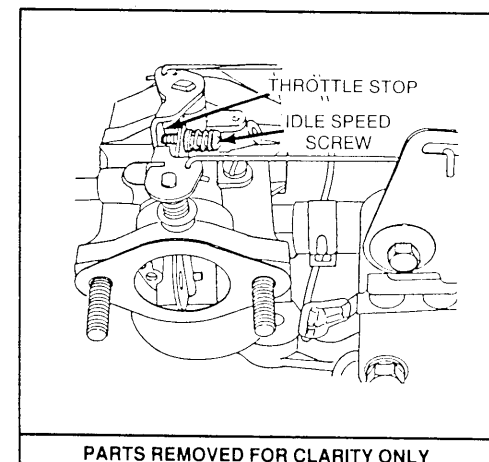
The carburetor has been calibrated at the factory and will operate satisfactorily for most conditions. If service is required, contact your nearest Briggs & Stratton Authorized Service Center.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. Air cleaner and air cleaner cover must be assembled to carburetor when running engine.

### IDLE RPM ADJUSTMENT:

Start and warm up engine approximately 5 minutes prior to adjustment.

Place engine or equipment control lever in "IDLE" or "SLOW" position. Rotate throttle counterclockwise and hold against idle speed adjusting screw. Then turn idle speed adjusting screw to obtain 1200 RPM.





# Maintenance



**CAUTION:** TO PREVENT ACCIDENTAL STARTING when servicing the engine or equipment, always remove the wire from the spark plug.



## TO SERVICE AIR CLEANER:

Remove and service pre-cleaner, if so equipped, and cartridge every 25 hours or every season, whichever occurs first.

**NOTE:** Service more often under dusty conditions.

1. Loosen screw and tilt cover as illustrated.
2. Carefully remove foam pre-cleaner, when so equipped, and cartridge.

## To service pre-cleaner:

- a. Wash in liquid detergent and water.
- b. Allow to air dry thoroughly before using.

## To service cartridge:

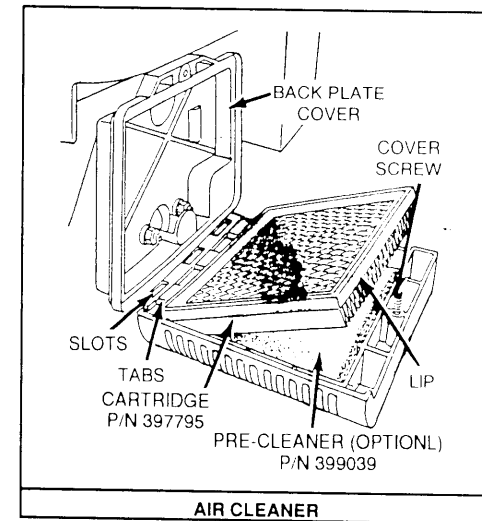
- a. Clean by tapping gently on a flat surface.
- b. If very dirty, replace or wash in a non-sudsing detergent and warm water solution. Rinse thoroughly with flowing water from mesh side until water is clear. Allow cartridge to stand and air dry thoroughly before using.



**CAUTION:** Petroleum solvents, such as kerosene, are not to be used to clean cartridge. They may cause deterioration of the cartridge. **DO NOT OIL CARTRIDGE. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE.**

3. Reinstall cartridge and pre-cleaner.
4. Close cover and tighten screw securely.

**NOTE:** Be sure to insert tabs on bottom of cover into grooves in back plate.



# Maintenance

## CLEAN ENGINE AND STATIC GARD:

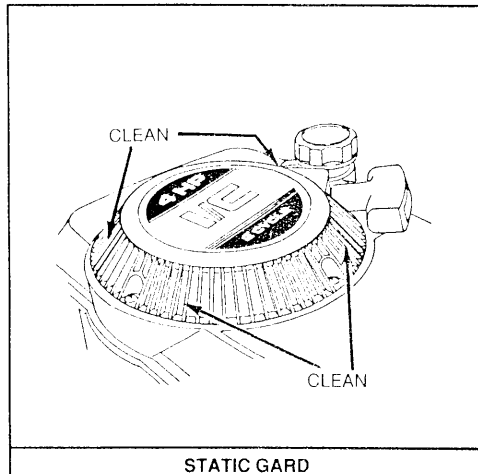
Remove dirt and debris with a cloth or brush frequently. Cleaning with a forceful spray of water is not recommended as water could contaminate the fuel system.



**CAUTION:** To assure smooth operation of controls, keep governor controls and linkage clean and free of debris.

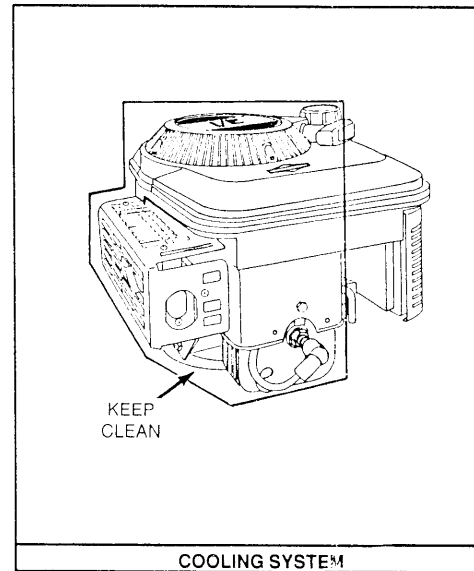


**CAUTION:** Periodically clean muffler area to remove all grass, dirt and combustible debris.



## CLEAN COOLING SYSTEM:

Grass, chaff or dirt may clog the rotating screen and the air cooling system, especially after prolonged service cutting dry grasses. After every 100 hours or every season, whichever occurs first (more often if necessary), clean internal cooling fins and surfaces to prevent overspeeding, overheating and engine damage. To obtain service, contact any Briggs & Stratton Authorized Service Center.

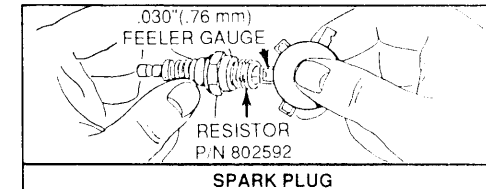


## CLEAN SPARK ARRESTER SCREEN:

If engine muffler is equipped with spark arrester screen assembly, remove every 50 hours or every season, whichever occurs first, for cleaning and inspection. Replace if damaged. Contact any Briggs & Stratton Authorized Service Center.

## REPLACE OR CLEAN SPARK PLUG:

Replace or clean after every 100 hours of operation or every season, whichever occurs first.



**NOTE:** Do not blast clean spark plug. Spark plug should be cleaned by scraping or wire brushing and washing with a commercial solvent.



**CAUTION:** Sparking can occur if wire terminal does not fit firmly on spark plug. Reform terminal if necessary.

## REMOVE COMBUSTION DEPOSITS:



Combustion deposits must be removed from cylinder, particularly from compression release slot in cylinder, after every 100–300 hours of operation. This maintenance is necessary to prevent the build-up of combustion deposits which can cause kickback when starting engine. To obtain service, contact any Briggs & Stratton Authorized Service Center.

# Maintenance Schedule









Follow the hourly or calendar intervals, whichever occur first.  
More frequent service may be required.

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
Service Air Cleaner Pre-Cleaner		● Note			
Service Air Cleaner Cartridge		● Note			
Static Gard	● Note				
Clean Cooling System				● Note	
Inspect Spark Arrester (Optional Accessory)			●		
Replace or Clean Spark Plug				●	
Clean Combustion Chamber Deposits					●

**Note:** Clean more often under dusty conditions or when airborne debris is present.

**BRIGGS & STRATTON AUTHORIZED SERVICE CENTERS ARE  
READY TO SERVE YOU AND ARE COMMITTED TO QUALITY SERVICE.**

# International Symbols

-  ..... Read Operator's Manual
-  ..... Warning/Caution
-  ..... Oil
-  ..... Fuel
-  ..... Choke
-  ..... Fast
-  ..... Slow
-  ..... Air Cleaner

# General Information

This is a single cylinder, two cycle air-cooled engine.

On mobile equipment, the engine will operate satisfactorily at any angle at which operator and equipment can function safely.

## MODEL SERIES 95700 and 96700

Bore ..... 2.36 in. (60 mm)  
 Stroke ..... 1.97 in. (50 mm)  
 Displacement ..... 8.60 cu. in. (141 cc)  
 Torque (Max.) ..... 6.4 Ft.-Lbs. @ 2400 RPM

**NOTE:** Engine power will decrease 3-1/2% for each 1,000 feet (305 m) above sea level and 1% for each 10° F (5.6° C) above 60° F (16° C).

## TUNE-UP SPECIFICATIONS

DESCRIPTION	B. & S. PART NO.
Air cleaner cartridge	397795
Air cleaner pre-cleaner	399039
Resistor spark plug (Champion RJ19LM)	802592

[Spark plug gap is .030 in. (.76 mm).]

In some areas, local law requires the use of a resistor spark plug to suppress ignition signals. Be sure to replace the resistor spark plug with a resistor spark plug.

## STORAGE INSTRUCTIONS

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

1. For engine protection, we recommend the use of Briggs & Stratton Gasoline Additive, Part No. 5041, available from any Authorized Briggs & Stratton Service Center. 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.



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

2. Remove spark plug and pour approximately 1 teaspoon (15 ml) of engine oil into the cylinder. Replace spark plug and crank slowly to distribute oil.
3. Clean dirt and chaff from cylinder, cylinder head fins, blower housing, rotating screen and muffler areas.
4. Store in a clean and dry area.

## SERVICE & REPAIR INFORMATION

If service or repair is needed, contact a Briggs & Stratton Authorized Service Center. To serve you promptly and efficiently, the Service Center will need the model, type and code numbers on your engine.



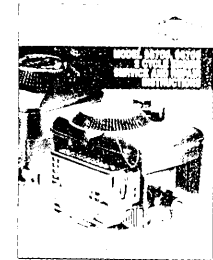
Your nearest Service Center may be located in the "Yellow Pages™" directory under "Engines, Gasoline," "Gasoline Engines," or similar category. You may also locate the Service Center in your mailing zip code area by telephoning **1-800-233-3723**. There are over 30,000 Authorized Service Centers worldwide available to serve you.

Each Authorized Service Center carries a stock of Original Briggs & Stratton Service Replacement Parts and is equipped with special service tools. Ask for Original Briggs & Stratton Service Replacement Parts. The use of Genuine Parts preserves the original design of your Briggs & Stratton engine. Imitation replacement parts offer potential risks, not just obvious differences such as, fit, finish and warranty back-up, but hidden differences in internal construction as well. Trained mechanics assure expert repair service on all Briggs & Stratton engines.

Major engine repairs require proper tools and a thorough knowledge of internal combustion engine repair procedure.

Briggs & Stratton publishes illustrated shop manuals, parts lists and owner's manuals for every engine it manufactures. To receive a list of available publications, write to Briggs & Stratton Corporation, P. O. Box 1144, Milwaukee, WI 53201, Attention: Service Division.

The shop manual shown here includes "Theories of Operation," common specifications and detailed information covering the adjustment, tune-up and repair of Briggs & Stratton single cylinder, 2 cycle engines and is available from any Briggs & Stratton Authorized service Center. You can also order directly from the factory at the above address.



Part No. 800100

**Superseding Warranty**  
**BRIGGS & STRATTON ENGINE WARRANTY POLICY**  
**effective July 31, 1989**  
**Replaces all undated previous Warranties and all Warranties**  
**dated before July 31, 1989**

When warranty repair is justified, Briggs & Stratton Corporation welcomes such repair by any of its Authorized Service Centers.

In most instances, the requests for warranty brought to the attention of our Service Accounts are handled in a prompt routine manner with no question regarding their validity. However, some requests for warranty are received which appear not justified. In these cases, engine owners may not be aware that the premature failure of their engine was the result of abuse or neglect, or that the difficulty which they experience is caused by the equipment rather than the engine.

BRIGGS & STRATTON WARRANTY COVERS ONLY DEFECTIVE MATERIAL and/or WORKMANSHIP.

<b>LIMITED WARRANTY</b>
<p>"For time period shown below from date of purchase, Briggs &amp; Stratton Corporation will replace for the original purchasers, free of charge, any part, or parts of the engine, found upon examination by any Factory Authorized Service Center, or by the Factory at Milwaukee, Wisconsin, to be defective in material or workmanship or both; this is the exclusive remedy. All transportation charges on parts submitted for replacement under this Warranty must be borne by purchaser. For warranty service, contact your nearest Authorized Service Center as listed in the 'Yellow Pages'™ under 'Engines, Gasoline' or 'Gasoline Engines' 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 AND TO THE EXTENT PERMITTED BY LAW 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 of 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."</p>
<p>Briggs &amp; Stratton Corporation            F. P. Stratton, Jr.            Chairman and Chief Executive Officer</p>

**WARRANTY PERIOD**

<b>ENGINES</b>	<b>CONSUMER USE*</b>	<b>COMMERCIAL USE*</b>
All 2 thru 18 hp engines installed on equipment other than lawn mowers, edgers, tillers, and all Sno/Gard engines.	1 year-engine	1 year-engine
All 2 thru 18 hp engines installed on lawn mowers, edgers, tillers, and all Sno/Gard engines.	2 year-engine*** 5 year-Magnetron® ignition***	1 year-engine
All Vanguard and I/C engines.	2 year-engine Lifetime** -Magnetron® ignition	2 year-engine Lifetime** -Magnetron® ignition

\* For purposes of this warranty policy, "consumer use" shall mean personal residential household use by the original retail consumer. "Commercial use" shall mean 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 policy.

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

\*\*\* Applies to equipment retailed in the U.S.A. and Canada. In all other countries, the warranty for CONSUMER USE is the same as COMMERCIAL USE.

**NO REGISTRATION (WARRANTY) CARD IS NECESSARY TO OBTAIN WARRANTY ON BRIGGS & STRATTON ENGINES. SAVE YOUR PURCHASE RECEIPT. PROOF OF PURCHASE DATE WILL BE REQUIRED TO OBTAIN WARRANTY.**

# ABOUT THE WARRANTY ON YOUR ENGINE

## NOTE: See Back Cover for Statement of Limited Warranty.

If warranty service is needed, contact your nearest Authorized Briggs & Stratton Service Center. For prompt attention, your Center will need to know the engine model, type and code numbers, the trouble experienced and the total number of hours the engine was run.

BRIGGS & STRATTON WARRANTY COVERS ONLY DEFECTIVE MATERIAL and/or WORKMANSHIP.

Briggs & Stratton Corporation welcomes the opportunity to make justified warranty repairs by any of its Authorized Service Centers. In most instances, the requests for warranty repair are handled in a quick and routine manner. However, some requests for warranty are received which appear not justified. In these cases, though engine owners may not be aware of it, the premature failure of their engine was caused by abuse or neglect, or the equipment on which it was mounted, rather than the engine.

If you differ with the decision of your Service Center, investigation will be made to determine the applicability of warranty. Ask the Service Center to submit all supporting facts to his Distributor for review. If the Distributor decides that your claim is justified, you will be fully reimbursed for those items accepted as defective. In any event, all decisions regarding warranty applicability will be made in the sole discretion of Briggs and Stratton. To avoid misunderstanding which might occur between engine owners and Authorized Briggs & Stratton Service Centers, we list below some of the causes of engine failure that Briggs & Stratton warranty does not cover for repair or replacement.

**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:** Remember that the service 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.

**WARRANTY DOES NOT APPLY FOR SOME ADJUSTMENTS OR IF ABUSE OR NEGLIGENCE CAUSES ENGINE DAMAGE: SUCH AS**

1. Bent or broken crankshafts that could be caused by striking a solid object with the cutter blade of a rotary mower;

2. Sticking valves or clogged carburetors, fuel pipes or other damage caused by using contaminated or stale fuel (Use clean, fresh gasoline — lead-free if available.);
3. 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 5 hours of operation. Refill when necessary and change at recommended intervals.) (2 cycle engines: use correct mixture of gasoline and BIA/NMMA certified oil.);
4. Parts damaged by overspeeding or overheating caused by dirt, grass or debris plugging the cooling fins and clogging the flywheel area, or caused by operating the engine in a confined area without sufficient ventilation (Clean fins on the cylinder, cylinder head and flywheel at recommended intervals.);
5. Damage or wear to parts caused by dirt which entered the engine because of improper air cleaner maintenance or re-assembly (At recommended intervals, clean and re-oil the oil-foam® element or the foam pre-cleaner and/or clean or replace the cartridge.);
6. Damage or wear to parts caused by grit which entered the engine from spark plugs cleaned on an abrasive blast cleaning machine;
7. Tune-up or adjustment needed by an engine but not caused by defective material nor workmanship (Follow the "Operating and Maintenance Instructions" when making any minor adjustments.);
8. Parts broken by excessive vibration caused by loose engine mounting, loose cutter blades unbalanced blades or impellers improperly attaching equipment to engine crankshaft, overspeeding or abuse in operation;
9. Repair or adjustment of associated parts or assemblies such as clutches, transmissions, remote controls, etc., which are not of Briggs & Stratton manufacture;
10. PARTS THAT ARE NOT ORIGINAL BRIGGS & STRATTON PARTS OR PARTS THAT ARE NOT APPROVED BY BRIGGS & STRATTON.

**WARRANTY IS AVAILABLE ONLY THROUGH SERVICE CENTERS WHICH HAVE BEEN AUTHORIZED BY THE BRIGGS & STRATTON CORPORATION. YOUR NEAREST SERVICE CENTER 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)							
4,971,219	4,745,895	4,453,507	4,233,043	4,048,788	3,991,152	3,901,199	3,828,212
4,971,001	4,720,638	4,430,984	4,205,737	4,048,787	3,981,289	3,888,450	3,827,307
4,939,916	4,719,682	4,414,993	4,189,040	4,037,389	3,971,353	3,885,547	3,823,700
4,915,068	4,694,792	4,414,934	4,188,930	4,031,872	3,970,913	3,882,336	3,818,586
4,909,218	4,684,917	4,372,433	4,181,206	4,023,550	3,968,854	3,875,438	3,796,277
4,895,119	4,633,556	4,355,253	4,178,894	4,014,302	3,961,724	3,874,551	3,796,075
4,889,006	4,630,498	4,353,335	4,168,808	4,014,195	3,958,906	3,863,614	3,796,027
4,875,448	4,622,935	4,345,885	4,168,288	4,013,105	3,955,904	3,857,545	3,782,139
4,823,752	4,522,080	4,306,522	4,090,345	4,011,533	3,951,223	3,841,425	3,782,084
4,819,593	4,520,288	4,270,509	4,068,636	4,006,616	3,916,280	3,831,268	3,678,366
4,817,577	4,512,499	4,233,534	4,055,898	4,003,190			

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