



This is a low emissions engine which operates differently from previously built engines. Before starting this engine, read and understand this *Owner's Manual*.



Owner's Manual Model Series 99700

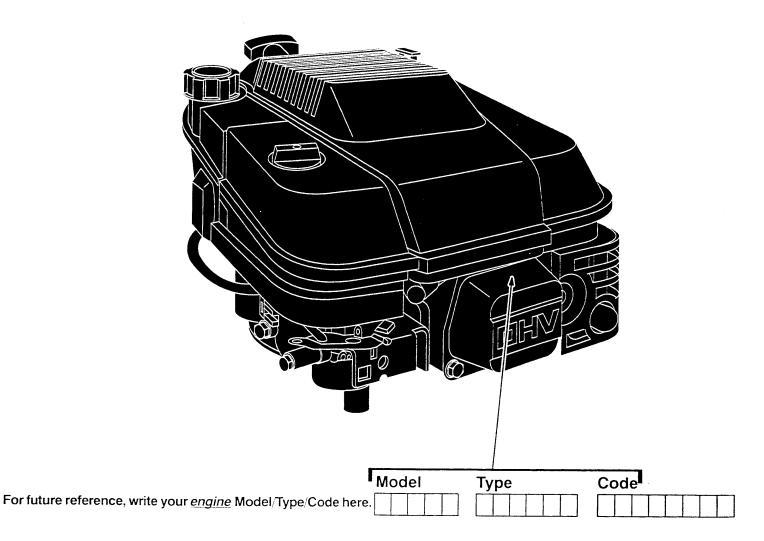


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IMPORTANT SAFETY INFORMATION AND

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 Moving Parts Fire Explosion additiblita Hot Surface Toxic Fumes **Kickback**

ENGINE SELECTION



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.



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.



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



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.



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.



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



When working on the engine or equipment, remove spark plug wire from spark plug. For electric start, remove negative wire from battery.



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

ENGINE OPERATION







When adding fuel:

Turn engine off and let engine cool at least 2 minutes before removing gas cap.

Fill fuel tank outdoors or in well-ventilated area. Fill tank to about 1 inch below lowest portion of neck to allow for fuel expansion.

Keep gasoline away from sparks, open flames, pilot lights, heat, and other ignition sources.





When starting engine:

Remove all external equipment/engine loads.

Wait until spilled fuel is evaporated. Start engine outdoors.

Pull cord slowly until resistance is felt, then pull rapidly.

If engine floods, set choke to OPEN/RUN, place throttle in FAST and crank until engine starts.





When operating equipment:

Do not tip engine or equipment at angle which causes gasoline to spill.

Run engine outdoors. Do not run in enclosed area, even if doors or windows are open.

Do not choke carburetor to stop engine.

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.



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.

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.





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 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.)

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. (To remove flywheel, use Briggs & Stratton approved tools only.)

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. The spark arrester must be maintained in working order by the 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).





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 <u>slowly</u> 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 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.



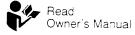
WARNING:



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

International Symbols















Oil & Fuel Recommendations

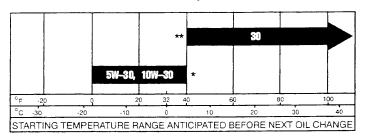
9 Oil

This engine is shipped from Briggs & Stratton without oil. Before starting engine, check oil level as shown below.

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

Use a high quality detergent oil classified "For Service 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



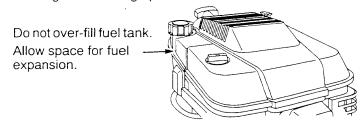
- * Air cooled engines run hotter than automotive engines. Use of multi-viscosity oils (10W-30, etc.) above 40° F (4° C) will result in high oil consumption and possible engine damage. Check oil level more frequently if using these types of oils.
- ** SAE 30 oil, if used below 40° F (4° C), will result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

Fuel

Use clean, fresh, unleaded gasoline with a minimum of 85 octane. Do not mix oil with gasoline. Purchase fuel in quantity that can be used within 30 days to assure fuel freshness. We recommend the use of Briggs & Stratton Gasoline Additive. (See your Authorized Briggs & Stratton Service Dealer for Part No. 5041 or the single-use pouch.) In countries other than U.S.A., leaded gasoline may be used if it is commercially available and unleaded is unavailable.

Note: Some fuels, called oxygenated or reformulated gasolines, are gasolines blended with alcohols or ethers. Excessive amounts of these blends can damage the fuel system or cause performance problems. Do not use gasoline which contains Methanol. If any undesirable operating symptoms occur, use gasoline with a lower percentage of alcohol or ether.

See storage instructions, on page 9. We recommend the use of Briggs & Stratton Gasoline Additive, Part No. 5041 or the single-use storage pouch.



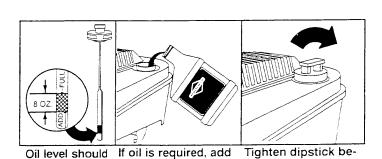
Check oil level before starting engine.

Add oil as shown below.

Oil capacity is about 2/3 quart (22 ounces or 0.65 liter).



Place engine level. Remove dipstick. Tighten dipstick. Clean around oil fill. Wipe with clean cloth. Remove & check.



be at FULL mark slowly. Recheck level. fore starting engine.

1. Spark plug wire 2. Carburetor 3. Air cleaner 4. Fuel tank 5. Fuel fill 6. Static guard 7. Engine Model Code Type XXXX XX XXXXXXXX XXXXX 8. Rope handle 9. Oil fill/Dipstick 10. Muffler quard 11. Muffler

Starting & Stopping

Choke operation/engine warm-up

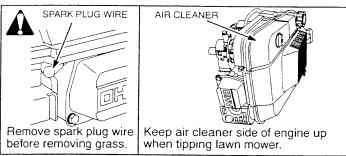
This engine is designed for maximum performance and life if operated with both the choke fully open and the throttle fully open (in FAST position). The engine requires a warm-up period of a minute to several minutes, depending on the temperature.

After starting the engine, move the throttle control from CHOKE to FAST position. Allow the engine to warm up. During warm-up, the equipment can be operated.

To obtain best starting results

Store and fuel lawn mower in level position.

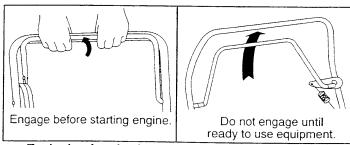
Start lawn mower on hard surface or over previously cut grass.



Periodically remove grass build-up under mower deck



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



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

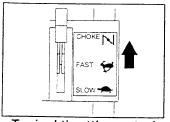
It is usually unnecessary to choke a warm engine.

Before starting engine

Move throttle control to CHOKE or START position.

Note: Choke must fully close. If engine does not start, see control adjustments on page 5.

Open fuel shut-off valve, if equipped



Typical throttle control

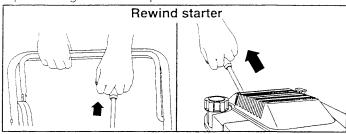
Start engine



Always keep hands and feet clear of mower blade or other rotating machinery.

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. Operate engine in FAST position.



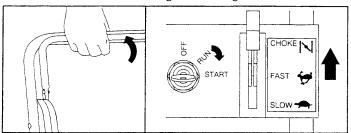
with typical safety control

without safety control

Electric starter, if equipped

Turn key to START. Repeat if necessary with throttle control in FAST position. Operate engine in FAST position.

Note: If equipment manufacturer has supplied battery, charge it before trying to start engine, as equipment manufacturer recommends. Use short starting cycles (15 secs. per min.) to prolong starter life. Extended cranking can damage starter motor.



Typical electric starter

Stop engine

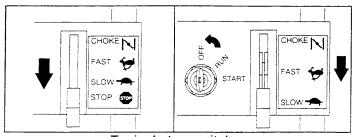
Do not move choke control to CHOKE position to stop engine. Backfire or engine damage may occur.

Move throttle control to SLOW position. Then release safety brake control handle or move throttle control to STOP or turn key to OFF, depending on how equipped.



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

Always remove key from switch, if equipped, when equipment is not in use or left unattended.



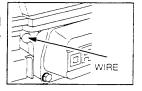
Typical stop switches

Adjustments

Control adjustments

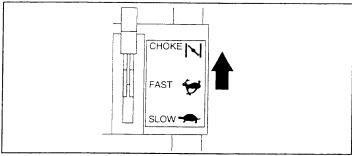


To prevent accidental starting, remove spark plug wire and disconnect battery at negative terminal, if equipped, when adjusting controls.



To check throttle control:

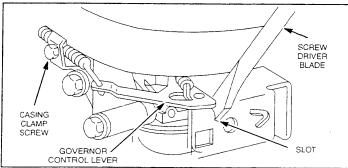
Move throttle control to and from CHOKE or START position. When engine is off, you can hear choke snap as it opens and closes. If you do not hear it, adjust as instructed below.



Throttle control check

To adjust throttle control:

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

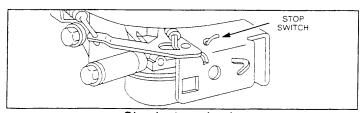


Throttle control adjustment

Check stop switch

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

Check operation of controls. Readjust if necessary.



Check stop check

Carburetor adjustments



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

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.

The carburetor on this engine is low emission. It is equipped with an idle mixture valve with a limiter (see inset), which allows some adjustment, and an idle speed adjustment screw.

Adjustments

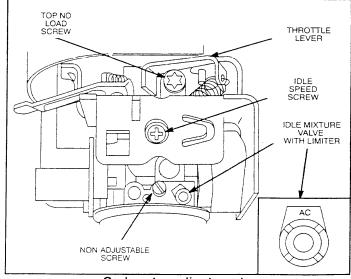
DO NOT ADJUST TOP SPEED SCREW.

It is pre-set at factory.

Start engine and warm up approximately 5 minutes before adjusting. With engine running, place throttle control in SLOW position. Rotate carburetor throttle lever against the idle speed screw and hold it. Turn idle speed screw to obtain 1750 rpm.

Rotate idle mixture valve full travel clockwise and then counterclockwise. Finally, position idle mixture valve in middle of travel. Check idle speed and re-adjust to 1750 rpm, if necessary.

Move throttle control to FAST position. Engine should accelerate smoothly. If it does not, adjust idle mixture valve counterclockwise 1/8 turn.

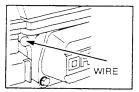


Carburetor adjustments

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



To prevent accidental starting. remove spark plug wire and disconnect battery at negative terminal, if equipped, when servicing engine or equipment.





Check oil level regularly.

Be sure correct oil level is maintained. Check every 8 hours or daily, before starting engine. See check oil level on page 3.

Change oil (Follow Maintenance Schedule.)

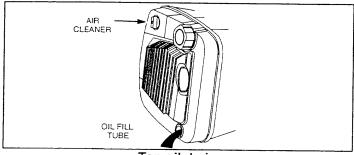
Change oil after first 5 hours of operation. Preferably drain oil from top of engine as illustrated below. Oil can be drained from engine bottom if necessary. Change oil while engine is warm. Refill with new oil of recommended grade.



Before draining oil from top, drain fuel tank. Then start and run engine until it stops from lack of fuel.

To drain oil from top of engine:

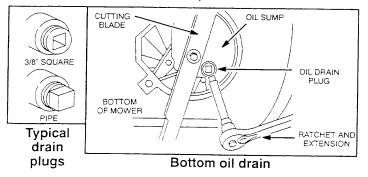
Remove dipstick. Keep air cleaner side up when tipping engine to drain oil. Refill with new oil of recommended grade (see chart, page 3). Start and run engine at idle for 30 seconds. Stop engine. Wait 30 seconds and re-check oil level. If required, add oil to bring level to FULL mark on dipstick.



Top oil drain

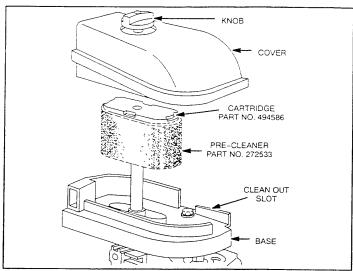
To drain oil from bottom of engine:

Remove drain plug and drain oil. Replace drain plug. Remove dipstick and refill with new oil of recommended grade (see chart, page 3). Start and run engine at idle for 30 seconds. Stop engine. Wait 30 seconds and re-check oil level. If required, add oil to bring level to FULL mark on dipstick.





Air cleaner



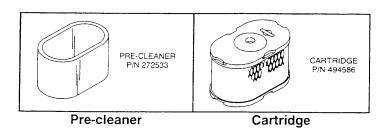
Dual element air cleaner

Note: Depending on engine Type Number, this engine may not be equipped with a pre-cleaner.

- Remove knob and cover.
- 2. Carefully lift pre-cleaner and cartridge from base over stud.

To service pre-cleaner, wash in liquid detergent and water. Squeeze dry in a clean cloth. Saturate in engine oil. Squeeze in clean, absorbent cloth to remove all EXCESS oil. 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.



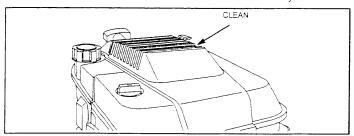
Note: Do not use petroleum solvents, e.g., kerosene, which will cause the cartridge to deteriorate. Do not use pressurized air to clean cartridge. Pressurized air can damage the cartridge.

- 3. Reassemble pre-cleaner on cartridge and place assembly over stud on base.
- 4. Replace cover and tighten knob securely.

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

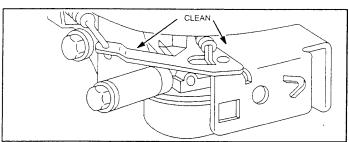
Keep engine and parts clean.

With a brush or cloth, remove grass, chaff or debris from finger guard daily (more often if needed to) prevent engine damage caused by overheating. Do not clean with a forceful spray of water because water could contaminate fuel system.



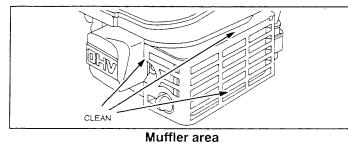
Finger quard

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

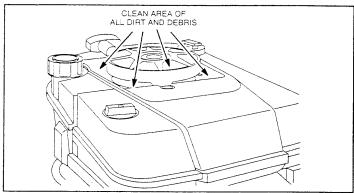


Linkage, springs & controls

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



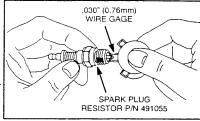
Grass, chaff or debris may clog the air cooling system, especially after prolonged operation cutting tall, dry grass. Clean area shown to prevent overheating and engine damage. To obtain service, contact any Briggs & Stratton Authorized Service Dealer.



Air cooling system

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

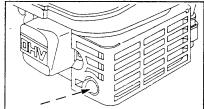
Use only Briggs & Stratton Spark Tester, Part No. 19368, to check for spark.



Spark pluq

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

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



Spark arrester screen

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

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 deli	very.)			
Your <u>Engine</u>	Model	Type		Code	
Cut out and send (\	with \$2) to:	Briggs & Stra Attn: Service P.O. Box 1144 Milwaukee, W	Division 1		

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

Maintenance Operation	Every 8 Hours or Daily	25 Hours or Every Season	50 Hours or Every Season	100 Hours or Every Season	After 250 Hours		
Check oil level	•						
Change oil ◆			• Note 1				
Service air cleaner pre-cleaner, if equipped		Note 2	110101				
Service air cleaner cartridge, if not equipped with pre-cleaner		• Note 2					
Service air cleaner cartridge, if equipped with pre-cleaner				• Note 2			
Inspect spark arrester, if equipped			•				
Clean cooling system				• Note 2			
Replace spark plug				•			
Check valve clearance					•		
*	Change oil after f	irst 5 hours, then	after every 50 hor	Irs or every seaso	n		
Note 1:	Change oil after first 5 hours, then after every 50 hours or every season.Change oil every 25 hours when operating under heavy load or in high temperatures.						
Note 2:	Close						

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

acriaine briggs a otration rails.	
<u>Part</u>	Briggs & Stratton Part No.
Air cleaner cartridge	494586
Air cleaner pre-cleaner	272533
Resistor spark plug	491055
Spark plug elbow	66538
Spark plug wrench	
Spark tester	19368
Oil	
Gas additive	5041



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

Name Address City, State, Zip	Look for Briggs & Stratton logo stamped on part and/or package!
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Service, Storage & Specifications

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 single cylinder, overhead valve, 4 cycle engines. It is available from an Authorized Briggs & Stratton Service Dealer or you can order it from the factory. Write:

Briggs & Stratton Corporation Attn: Service Division

P. O. Box 1144 Milwaukee, WI 53201



Part No. 272147

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 an 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.

Your Service Dealer has single-use pouches of Gasoline Additive available.

Note: If engine is operating on oxygenated or reformulated gasoline (gasoline blended with an alcohol or an ether), remove all fuel from tank and run engine until it stops from lack of fuel. If engine is stored with gasoline in fuel tank, we recommend the use of Gasoline additive, Part No. 5041.

- 2. While engine is still warm, drain oil from crankcase (see page 6). Refill with fresh oil of recommended grade (see chart page 3).
- 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 area (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.

General information

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

Model Series 99700

Bore
Stroke
Displacement 9.0 cu. in. (147 cc
Torque (Max.) 5.7 ft. lbs. @ 2600 rpm

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

Tune-up specifications

This is a single cylinder, over-head valve, air-cooled engine.

Valve clearance is:

with valve springs installed and piston 1/4 in. (6mm) past top dead center.

Briggs & Stratton Corporation and the California Air Resources Board **Emission Control System Warranty Statement**

(Owner's Defect Warranty Rights and Obligations)

In the interest of the environment, Briggs & Stratton engines that meet strict emission requirements are labeled, "This ULGE engine conforms to 1995-1998 California Emission Control Regulations."

AND THEREAFTER WHICH ARE USED IN CALIFORNIA. California Emission Control Defects Warranty Statement

The California Air Resources Board and Briggs & Stratton Corporation are pleased to explain the emission control system warranty on your 1995 utility or lawn and garden equipment engine (ULGE). In California, new utility or lawn and garden equipment engines must be designed, built and equipped to meet the state's stringent antismog standards. Briggs & Stratton must warrant the emission control system on your engine for the periods of time listed below, provided there has been no abuse, neglect or improper maintenance of

your utility or lawn and garden equipment engine.

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

EMISSION CONTROL WARRANTY COVERAGE IS APPLICA-

BLE ONLY TO ENGINES PURCHASED IN CALIFORNIA IN 1995

Where a warrantable condition exists, Briggs & Stratton will repair your utility or lawn and garden equipment engine at no cost to you including diagnosis, parts and labor.

The utility or lawn and garden equipment engines are warranted relative to emission control parts defects for a period of two years, sub-

Briggs & Stratton Emission Control Defects Warranty Coverage

ject to provisions set forth below. If any covered part on your engine is defective, the part will be repaired or replaced by Briggs & Stratton.

Owner's Warranty Responsibilities

As the utility or lawn and garden equipment owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. Briggs & Stratton recommends that you retain all your receipts covering maintenance on your utility or lawn and garden equipment engine, but Briggs & Stratton cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the utility or lawn and garden equipment engine owner, you should however be aware that Briggs & Stratton may deny you warranty coverage if your utility or lawn and garden equipment engine or a part has failed due to abuse, neglect, improper maintenance or

unproved modifications.

You are responsible for presenting your utility or lawn and garden equipment engine to an Authorized Briggs & Stratton Service Dealer as soon as a problem exists. The undisputed warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty rights and responsibilities, you should contact a Briggs & Stratton Service Representative at 1 (800) 233-3723.

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

Briggs & Stratton Emission Control Defects Warranty Provisions

The following are specific provisions relative to your Emission Control Defects Warranty Coverage. It is in addition to the Briggs & Stratton engine warranty for non-regulated engines found in the Owner's Manual.

1. Warranted Parts

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

- a. Fuel Metering System
 - Cold start enrichment system (soft choke)
 - Fuel Pump
- b. Air Induction System
 - Air cleaner
 - Carburetor and internal parts
 - Intake manifold
- Ignition System
 - Spark plug(s)
 - Magneto ignition system
- d. Catalyst System
 - Catalytic converter
 - Exhaust manifold
 - Air injection system or pulse valve
- e. Miscellaneous Items Used in Above Systems
 - Vacuum, temperature, position, time sensitive valves and switches
 - Connectors and assemblies

2. Length of Coverage

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

No Charge

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

Claims and Coverage Exclusions

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

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

Consequential Coverage

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

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:

- 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.)
- Leaking carburetors, clogged fuel pipes, sticking valves, or other damage, caused by using contaminated or stale

- fuel. (Use clean, fresh, lead-free gasoline and Briggs & Stratton gasoline stabilizer, Part No. 5041.)
- 4. Parts which are scored or broken because an engine was operated with insufficient or contaminated lubricating oil, or an incorrect grade of lubricating oil (check oil level daily or after every 8 hours of operation. Refill when necessary and change at recommended intervals.) 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 non-original air cleaner element or cartridge. (At recommended intervals, clean and re-oil the Oil-Foam® element or the foam pre-cleaner, and replace the cartridge.) Read "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.
- 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 & Stra	atton Engines Ar	e Made Under C	ne Or More Of T	he Following Pa	atents: 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

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

	WITHIN U.S.A. AND CANADA		OUTSIDE U.S.A. AND CANADA	
ENGINES	CONSUMER _ USE*	COMMERCIAL USE*	CONSUMER USE*	COMMERCIAL USE*
All Vanguard™ engines.	2 year	– engine / Lifetime	** - Magnetron® i	gnition
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, New Zealand, Middle East and Africa.

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.