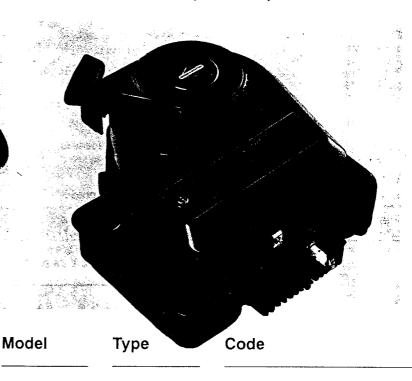




Before starting this engine, read and understand this Owner's Manual.

Owner's Manua Model Series 93900, 95900, 96500 & 96900





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

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Briggs & Stratton Corporation Milwaukee, Wisconsin 53201

FORM NO. 272308-12/9 PRINTED IN U.S

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 symbol means safety alert which indicates that a message involves personal safety.

Death, personal injury and/or property damage may occur unless instructions are followed carefully.



DO NOT run engine in an enclosed area. (Exhaust gases contain carbon monoxide, an odorless and deadly poison.)

DO NOT place hands or feet near moving or rotating parts.

DO NOT store, spill, or use gasoline near an open flame, nor near an appliance like a stove, furnace, or water heater that uses a pilot light or can create a spark.

DO NOT refuel indoors or in unventilated area.

DO NOT remove fuel tank cap nor fill fuel tank while engine is hot or running. (Allow engine to cool 2 minutes before refueling.)

DO NOT operate engine if gasoline is spilled or when smell of gasoline is present or other explosive conditions exist. (Move equipment away from spill and avoid any ignition until gasoline has evaporated.)

DO NOT transport engine with fuel in tank.

DO NOT choke carburetor to stop engine. (Whenever possible, gradually reduce engine speed before stopping.)

DO NOT tamper with governor springs, links or other parts to increase engine speed. (Run engine at speed set for equipment manufacturer.)



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



WARNING

DO NOT check for spark with spark plug removed. (Use an appro

DO NÓT crank engine with spark plug removed. (If engine is flood

place throttle in FAST and crank until engine starts.)

DO NOT strike flywheel with a hammer or hard object as this may ca flywheel to shatter in operation. (Use correct tools to service engine DO NOT operate engine without a muffler. (Inspect periodically and place if worn or leaking. If engine is equipped with muffler deflector, spect periodically and, if necessary, replace with correct deflector.) DO NOT operate engine with an accumulation of grass, leaves or ot combustible material in muffler area.

DO NOT use this engine on any forest covered, brush covered, or gr covered unimproved land unless a spark arrester is installed on muf-(Spark arrester must be maintained in working order by operator.) DO NOT touch hot muffler, cylinder, or fins which can cause burns. DO NOT start engine with air cleaner or air cleaner cover removed cover over carburetor air intake, if Sno/Gard engine).

Note: The important safety instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution and care are factors which are not built into an engine, but are supplied by the person(s) maintaining and operating it.



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.

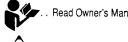
✓ PULL starter cord slowly until resistance is felt. Then pull cord rapidly to



WARNING

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

INTER-**NATIONAL** SYMBOLS



avoid kickback and prevent hand or arm injury.

Read Owner's Manual











Safety-alert Symbol











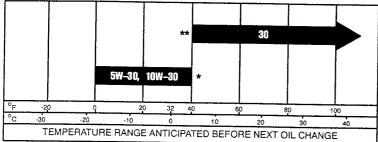
in the USA and Canada, a 24 hour hot line, 1-800-233-3723, has a menu of pre-recorded messages offering you engine maintenance informat

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 a high quality detergent oil classified "For Service SC, SD, SE, SF, SG," such as Briggs & Stratton "warranty certified" SAE 30 oil, part no. 100005. Use no special additives with recommended oils. Do not mix oil with gasoline.

SAE Viscosity Grades



- Air cooled engines run hotter than automotive engines. Use of multiviscosity 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.



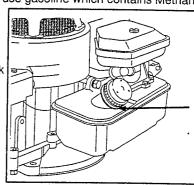
FUEL

This engine will operate satisfactorily using any automobile gasoline. L clean, fresh, lead-free gasoline with a minimum of 77 octane. (Leac gasoline may be used if it is commercially available, and if lead-free is available.) Purchase fuel in quantity that can be used within 30 days. S **STORAGE INSTRUCTIONS**, page 9.

Do not mix oil with gasoline.

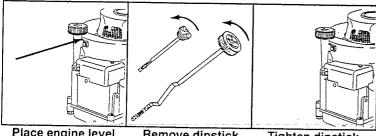
Note: We do not recommend using gasoline which contains alcoh such as gasohol. If gasoline with alcohol is used, it must conta less than 10% Ethanol and must be removed from engine duri storage. Do not use gasoline which contains Methanol.

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



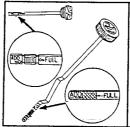
Fuel level

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

Tighten dipstick Wipe with clean cloth Remove and check



Oil level should be at FULL mark



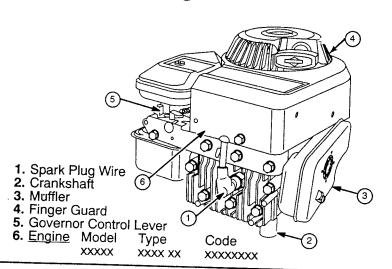
If oil is required, add slowly - recheck

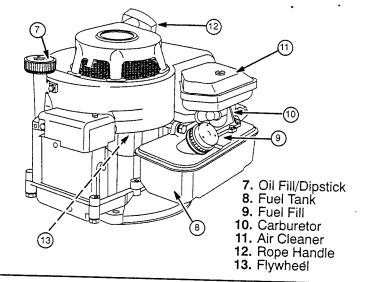


Tighten dipstick firmly before starti

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Before Starting





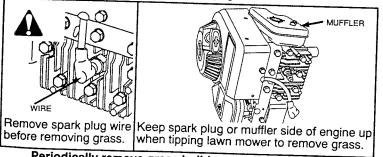
TIPS TO OBTAIN BEST STARTING RESULTS

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.

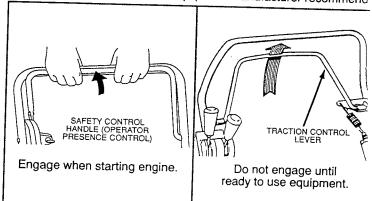
Slightly richer fuel mixture usually improves cold starting (below 40° F). See CARBURETOR ADJUSTMENTS, page 5.



Periodically remove grass build-up under mower deck

CONTROL HANDLE(S)

Equipment may have safety brake control handle and/or tract control handle as well as steering handle. Operate control h dle(s) as follows or as equipment manufacturer recommend



Typical safety brake control handleTypical traction control handle

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Starting & Stopping

START ENGINE



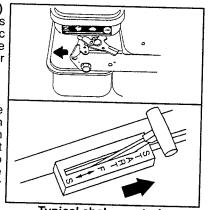
ALWAYS KEEP HANDS AND FEET CLEAR OF MOWER BLADE OR OTHER ROTATING MACHINERY. KEEP FINGERS AWAY FROM ROTATING FLYWHEEL (see item 13. on page 3).

Choke (Models 93900 & 96500)



These model engines feature a unique automatic choke. Move throttle control to CHOKE or START position.

Note: In case of flooding, move throttle control to STOP position and pull starter 6 times. Then move it to FAST position and start engine. If engine continues to flood, turn carburetor needle valve 1/8 turn clockwise to obtain leaner mixture (see *Adjustments*, p. 5).

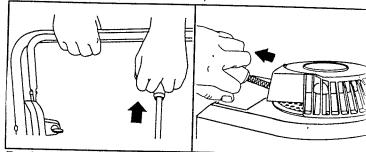


Typical choke controls

Rewind starter

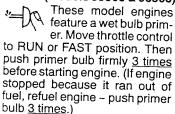


Grasp rope handle as illustrated and pull slowly until resistant felt. Keep fingers of other hand away from rotating wheel.THEN PULL CORD RAPIDLY TO OVERCOME COPRESSION, PREVENT KICKBACK AND START ENGINE. peat if necessary with throttle control in FAST position. When gine starts, operate in FAST position.

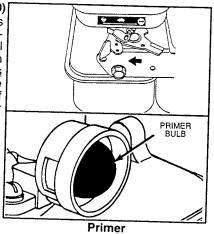


Rewind with typical safety control Rewind without safety control

Primer (Models 95900 & 96900)



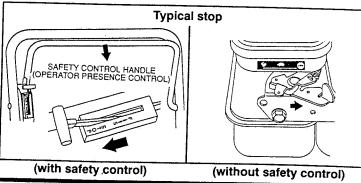
Note: Priming is usually unnecessary when restarting a warm engine. However, cool weather may require priming to be repeated.



STOP ENGINE

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

Move throttle control lever to SLOW position, and then to STOP, if equipped.



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Adjustments

CONTROL ADJUSTMENTS

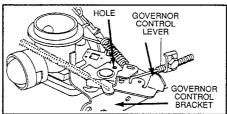
TO PREVENT ACCIDENTAL STARTING

Remove spark plug wire, when adjusting controls.



To check operation of throttle control

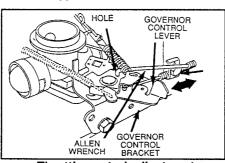
Remove air cleaner. Move throttle control to FAST position. Hole in governor control lever should line up with hole in governor control bracket. If it does not, adjust as instructed below.



Typical throttle control

To adjust throttle control

Loosen casing clamp screw. Move governor control lever to right or left until hole in governor control lever lines up with hole in governor control bracket. (Use small drill or allen wrench to hold alignment.) Tighten casing clamp screw. Replace air cleaner.

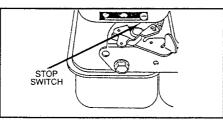


Throttle control adjustment

Check stop switch

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

Check operation of controls. Readjust if necessary.



Stop switch check

CARBURETOR ADJUSTMENTS



The manufacturer of equipment on which this engine is insta specifies top speed at which engine will be operated. DO 1 EXCEED this speed. When making adjustments on a run: engine, keep fingers away from rotating components, espec flywheel, as indicated on page 3.

Note: Primer equipped engines (Models 95900 and 96900) idle about 600 RPM below top speed. This accounts for the higher t expected idle speed when engine is in IDLE or SLOW position

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

Note: ONLY carburetors on choke equipped engines (Models 93 and 96500) can be adjusted.

Initial adjustment

Gently turn needle valve clockwise until it JUST closes. Turning screw in too far may damage it. Next open needle valve 1-1/2 turns counterclockwise. Start and warm up engine (approximately 5 minutes) prior to final adiustment.



Final adjustment

Place throttle control in position. **FAST** Turn needle valve in (clockwise - lean mixture) until engine starts to slow. Now turn needle valve 3/8 turn counterclockwise (see inset).

THROTTLE IDLE SPEED ADJUSTING THROTTLE NEEDLE VALVE LEVER

Carburetor adjustments

Next adjust idle RPM. Rotate carburetor throttle lever counterclock and hold against throttle stop while turning speed adjusting screw to tain 1700 RPM. Release carburetor throttle. Engine should accele smoothly. If it does not, readjust carburetor, usually to a slightly richer ture by turning needle valve 1/8 turn counterclockwise.

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 informat

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 when servicing engine or equipment.



AIR CLEANER

Note: Service according to Maintenance Schedule.

TO OIL

Check oil level regularly.

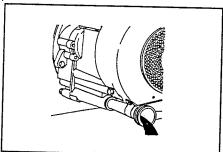
Be sure correct oil level is maintained. Check every 5 hours or daily, before starting engine. See Check oil level page 2.

Change oil (Follow Maintenance Schedule.)

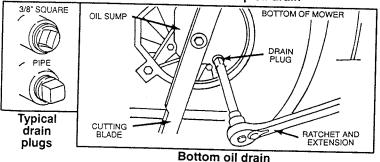
Change oil after first 5 hours of operation. Change oil while engine is warm. Preferably drain oil from top of engine as illustrated below. Oil can be drained from engine bottom if necessary. Refill with new oil of recommended grade (chart, page 2).



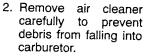
Before tipping engine or equipment to drain oil, drain fuel from tank by running engine until fuel tank is empty. Then when tipping engine or equipment to drain oil, keep engine spark plug or muffler side up.

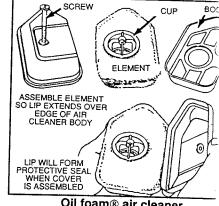


Top oil drain



Remove screw.





Oil foam® air cleaner

3. Take air cleaner apart and clean all parts.

To service foam element:

- a. Wash foam in liquid detergent and water (replace if very dirty or damaged).
- b. Squeeze dry in a clean cloth.
- c. Saturate foam element in engine oil. Squeeze in clean cloth to remove excess oil.



Foam element

4. Reassemble all parts and fasten securely to carburetor with scre

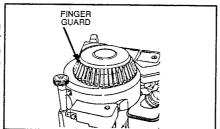
In the USA and Canada, a 24 hour hot line, 1-800-233-3723, has a menu of pre-recorded messages offering you engine maintenance informatic

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

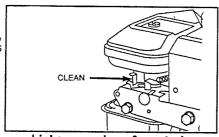
Remove dirt and debris with a cloth or brush. Do not clean with a forceful spray of water because water could contaminate fuel system.

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



Finger quard

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

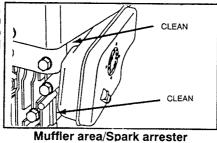


Linkage, springs & controls

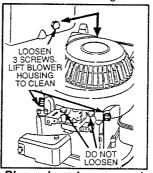


Before running engine, daily or more often clean muffler area to remove all grass and combustible debris.

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



Grass or chaff may clog engine's air cooling system, especially afte longed service cutting tall, dry grass. Internal cooling fins and sur may require cleaning to prevent overheating and engine damage move blower housing and clean areas shown



KEEP A WIT

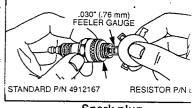
Blower housing removal

Cooling system

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



Arcing can occur if wire terminal does not fit firmly on spark | STANDARD P/N 4912167 plug. Reform terminal if necessary.



Spark plug

Use only Briggs & Stratton Spark Tester, P.N. 19368, to check for sp Note: In some areas, local law requires using a resistor spark plug t press ignition signals. If this engine was originally equippe resistor spark plug, use same type of spark plug for replace

Remove combustion deposits

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

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 of 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 Schedule Follow the hourly or calendar intervals, whichever occur first.

More frequent service is required when operating in adverse conditions noted be

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	•	11.11			
Change Oil ◆			Note 1		
Clean Rotating Screen or Finger Guard	Note 2			5.16	
Service Oil Foam® Air Cleaner		Note 2			
Inspect Spark Arrester (Optional Accessory)			•	111	2
Clean Cooling System				Note 2	
Replace or Clean Spark Plug				•	
Clean Combustion Chamber			100		•

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

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

<u>Part</u>	Briggs & Stratton Part N
Air cleaner element	27223
Resistor spark plug	
Standard spark plug	I · · · · · · 4921€
Spark tester	
Spark plug wrench.	
Spark plug elbow	
Oil	
Gas additive	

To obtain a complete Parts List of Genuine Briggs & Stratton Parts for your engine, print your engine Model/Type/Code and your name and address below. Cut out and send (with \$2) to address on other side.

Change oil after first 5 hours,

then after every 50 hours or every season.

Note 1: Change oil every 25 hours when operating under heavy load or in high temperatures.

Note 2: Clean more often under dusty conditions

or when airborne debris is present.

Replace air cleaner parts, if very dirty.

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

		•	
Your <u>Engine</u> :	Model	Type	Code
•			

Name **Address** City, State, Zip

Service & Storage

FOR SERVICE

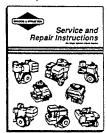
See an Authorized Briggs & Stratton Service Dealer. Each one carries a stock of Genuine Briggs & Stratton Parts and is equipped with special service tools. Trained mechanics assure expert repair service on all Briggs & Stratton engines. Only dealers advertising as "Authorized Briggs & Stratton" are required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



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

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

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



Part No. 270962

STORAGE INSTRUCTIONS

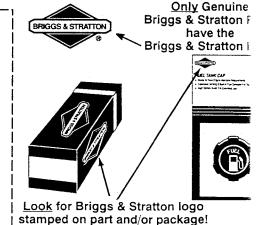
Engines stored over 30 days need to be protected or drained of for prevent gum from forming in fuel system or on essential carburetor protection. Note: If Additive is not used or if engine is operating on gasoline coring alcohol, such as gasohol, remove all fuel from tank and rugine until it stops from lack of fuel.



- For engine protection, we recommend us Briggs & Stratton Gasoline Additive, Part 5041, available from any Authorized Briggs Stratton Service Dealer. Mix Additive with functional tensions of time to circulate Additive through carbust Engine and fuel can be stored up to 24 mont
- While engine is still warm, drain oil from crankcase (see page 6). with fresh oil of recommended grade (see chart on page 2).
- Remove spark plug and pour about 1/2 oz (15 ml) of engine oil int inder. Replace spark plug and crank slowly to distribute oil.
- 4. Clean dirt and chaff from cylinder, cylinder head fins, blower hour otating screen and muffler areas (see page 7).
- 5. Store in a clean and dry area, but NOT near a stove, furnace or heater which uses a pilot light or any device that can create a s

Send to: Briggs & Stratton Corporation P.O. Box 1144
Milwaukee, WI 53201-1144

Att. Service Division



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ABOUT YOUR ENGINE WARRANTY: (see back cover for statement of LIMITED WARRANTY.)

If warranty service is needed, contact your nearest Authorized Briggs & Stratton Service Dealer. For prompt attention, your Dealer 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 & ŠTRATTON WARRANTY COVERS <u>ONLY</u> DEFECTIVE MATERIAL AND/OR WORKMANSHIP.

Briggs & Stratton Corporation welcomes the opportunity to make justified warranty repairs by any of its Authorized Service Dealers. 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 equipment on which it was mounted, rather than the engine.

If you differ with the decision of your Authorized Service Dealer, an investigation will be made to determine the applicability of warranty. Ask the Authorized Service Dealer to submit all supporting facts to the Factory for review. If the Factory decides that your claim is justified, you will be fully reimbursed for those items accepted as defective. To avoid misunderstanding which might occur between engine owners and Authorized Briggs & Stratton Service Dealers, 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 if 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 to engine adjustment or repair required due to:

1. THE USE OF PARTS THAT ARE NOT ORIGINAL BRIGGS & STRATTON PARTS OR PARTS THAT ARE NOT APPROVED BY BRIGGS & STRATTON.

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.)

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. F when necessary and change at recommended intervals. (2 cycle engines correct mixture of gasoline and BIA/NMMA certified oil.) Read owner's mar

 Repair or adjustment of associated parts or assemblies such as clutc transmissions, remote controls, etc., which are not of Briggs & Stramanufacture.

6. Damage or wear to parts caused by dirt which entered the engine becaus improper air cleaner maintenance, re-assembly or using a non-origina cleaner element. (At recommended intervals, clean and re-oil the oil-foe element or the foam pre-cleaner and replace the cartridge.)

Parts damaged by over-speeding or overheating caused by grass, debriding plugging the cooling fins and clogging the flywheel area, or caused by a ating the engine in a confined area without sufficient ventilation (Clean fin the cylinder, cylinder head and flywheel at recommended intervals.)

 Engine or equipment parts broken by excessive vibration caused by loose gine mounting, loose cutter blades, unbalanced blades or impellers, impropattaching equipment to engine crankshaft, over-speeding or abuse in option.

A bent or broken crankshaft, caused by striking a solid object with the ct blade of a rotary lawn mower, or excessive vee belt tightness.

 Routine tune-up or adjustment needed by an engine but not caused by de tive material nor workmanship (Follow the "Owner's Manual" when making minor adjustments.)

11. Failure of the combustion chamber valves, valve seats, valve guides or bustarter motor windings, which occur when operating an engine with alter fuels such as, liquified petroleum, natural gas, altered gasolines, etc.

Warranty is available only through service dealers which have been at rized by the Briggs & Stratton Corporation. Your nearest Authorized Ser Dealer is listed in the "yellow pages" of your telephone directory, urengines, gasoline or "gasoline engines," "lawn mowers" or similar c gory.

In cases where an engine owner insists on Warranty repair, and our Author Service Dealer does not feel Warranty is justified, it is suggested that repair completed and the owner charged. A Warranty Claim, with full details, should forwarded to the Factory for decision. Mark the Claim "Questionable Warrant Customer charged." If Warranty is approved, credit will be issued to the accombine performed repair, and the Authorized Service Dealer will reimburse the tomer. If Warranty is not in order, the Factory will advise the Authorized Ser Dealer accordingly. If the Authorized Service Dealer requests the Factory to do a copy of the letter can be mailed to the engine owner.

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Briggs & Stratto	n Engines Are Made	Under One Or More	Of The Following Pate	ents: Design D-247 1	77 (Other Patents Per	- d) A	ongino omnor.	
-10,.10.0	5,038,727	4.996,956	4,909,218	4,694,792				
5,070,851	5,038,064	4,995,357	4,895,119	4,684,917	4,414,993	4,205,737	4,048,788	4,003,190
5,070,829	5,031,587	4.986.228	4,889,006	4,633,556	4,414,934	4,189,040	4,048,787	3,991,152
5,058,544	5,024,204	4,984,543	4,875,448	4,630,498	4,372,433	4,188,930	4.037,389	3,981,289
5,058,542	5,022,495	4.977.879	4,823,752	4,622,935	4,355,253	4,181,206	4,031,872	3,971,353
5,050,371	5,014,897	4.977.877	4,819,593	4,522,080	4,353,335	4,178,894	4,023,550	3,970,913
5.048,502	5.014,605	4,971,219	4.817.577	4.520.288	4,345,885	4,168,808	4,014,302	3,968,854
5.046.373	5,009,208	4,971,001	4,745.895	4,512,499	4,306,522	4,168,288	4,014,195	3,961,724
5,040,644	5,007.573	4.939.916	4,720,638	4,453,507	4,270,509	4,090,345	4,013,105	3,958,906
5.040,503	5,007,388	4,915,068	4,719,682	4,430,984	4,233,534	4.068,636	4,011,533	3,955,904
			-1,7 10,002	4,430,964	4,233,043	4.055.898	4 006 616	3 051 222

Superseding Warranty *BRIGGS & STRATTON ENGINE WARRANTY POLICY

effective September 1, 1992

Replaces all undated previous Warranties and all Warranties dated before September 1, 1992

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

most instances, the requests for warranty brought to the attention of our Service Accounts are handled in a prompt routine manner with no questic garding their validity. However, some requests for warranty are received which appear not justified. In these cases, engine owners may not be awa at 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 rath

RIGGS & STRATTON WARRANTY COVERS <u>ONLY</u> DEFECTIVE MATERIAL AND/OR WORKMANSHIP.

LIMITED WARRANTY

"For time period shown below from date of purchase, Briggs & 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 Dealer, 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 Dealer as listed in the 'Yellow Pages™ under 'Engines, Gasoline,' or 'Gasoline Engines,' 'Lawn Mower' 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 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 of 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.	OUTSIDE U.S.A. AND CANADA				
	CONSUMER USE* COMMERCIAL USE*		ALL USES			
All 2 thru 18 HP engines installed on equipment other than awn mowers, edgers, tillers, and all Sno/Gard engines.	1 year-engine and	1 year-engine and	1 year-engine and			
	Magnetron® ignition	Magnetron® ignition	Magnetron® ignition			
All 2 thru 18 HP engines installed on lawn mowers, edgers, illers, and all Sno/Gard engines.	2 year-engine	1 year-engine and	1 year-engine and			
	5 year-Magnetron® ignition	Magnetron® ignition	Magnetron® ignition			
All Vanguard™, I/C® and Industrial Plus™ engines.	2 year-engine	2 year-engine	2 year-engine			
	Lifetime** -	Lifetime** -	Lifetime** -			
	Magnetron® ignition	Magnetron® ignition	Magnetron® ignition			

For purposes of this warranty policy, "consumer use" shall mean personal residential household use by the original retail consumer. "Commercial uses shall mean all other uses, including use for commercial, income producing or rental purposes. Once an engine has experienced commercial uses 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 o parts. "Lifetime" shall mean lifetime of the engine in the hands of the original purchaser.

No registration (warranty) card is necessary to obtain warranty on Briggs & Stratton engines. The customer must save the purchase receipt. A proof of purchase date will be required to obtain warranty.